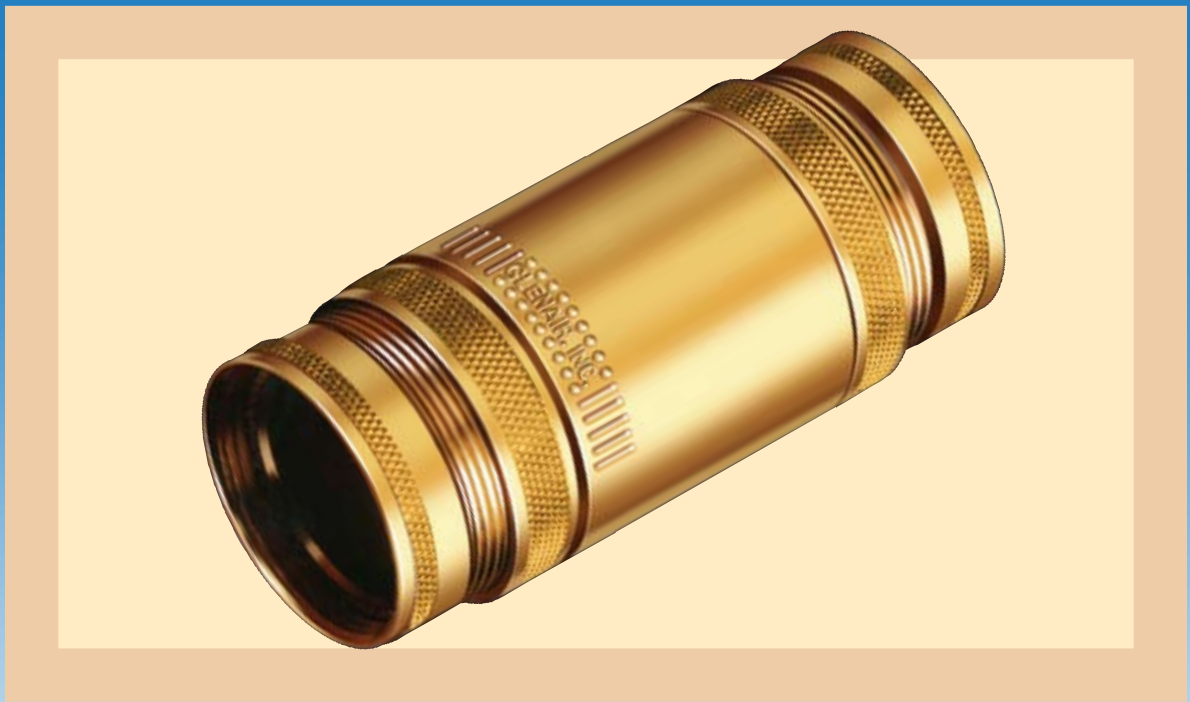
Glenair®



Circular Connector Backshells and Accessories

United States ■ United Kingdom ■ Germany ■ France ■ Nordic ■ Italy ■ Spain

Introducing the "NESTOR" (AS85049 Style "N" Coupling)



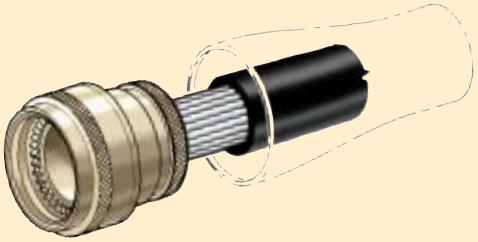
Spring-Loaded, Positive-Lock Backshells (Glenair Mod Code -445)

Most speicifiers of connector backshells are familiar with self-locking coupling nuts with their familiar "click" detent mechanism. Self-lockers combine the convenience of a standard spin-coupling interface with the de-coupling security of locking detents. Unfortunately, detent-equipped self-locking coupling nuts can fail to perform if the proper assembly technique is not applied during harness fabrication. Experts describe the unique "jiggling" technique required to insure the backshell coupling nut is seated "all the way home" against the toothed connector interface. Now, help is on the way! Glenair's "NESTOR" coupling interface provides both positive locking and easy-to-assemble spin coupling in a non-detent design. The "NESTOR" employs a unique, spring-loaded mechanism to insure fast and secure coupling every time. So, whether you prefer traditional detent self-lockers or the new "NESTOR," Glenair is ready to meet your requirements with quality interconnect products

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Glendale, California 91201-2497
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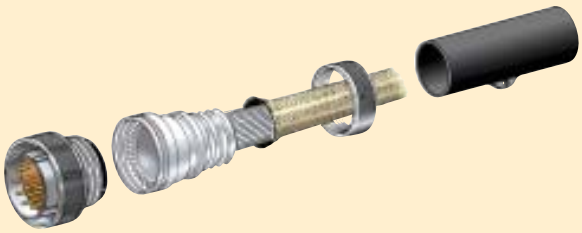
For a complete Table of Contents please see the last page of this book

Series 310 - Shrink Boot Adapters



The adapters in this section are designed to accommodate lipped-type heat shrinkable boots, which are used for both mechanical strain relief and a degree of environmental protection.

Series 311 - Shrink Boot, EMI/RFI, Strain Relief



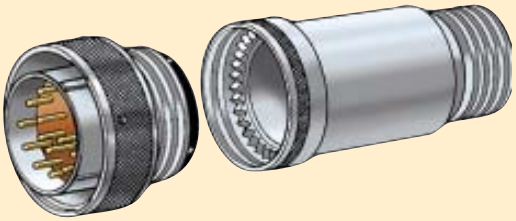
This series of adapters provides a simplified method of grounding over-all shields. The over-all shield/braid is secured between a male and female lamp-base type thread providing a good bonding joint. Strain relief clamps and shrink boot attachments are available.

Series 319 - Shrink Boot, EMI/RFI, Shield Sock



These adapters have a shield sock attached to the rear of the adapter body, the method of shield attachement is usually acomplished by means of crimping, Band-it® band, soldering, magna-forming or Tinel® locking system - solutions all supplied by Glenair. This shield sock is then attached to the overall braid on the cable or harness. This attachment is most generally performed by the use of a AS85049/93 back-up ring and then banding the over-lapped braids together. Lipped-type heat shrinkable boots are available to enclose and protect the termination.

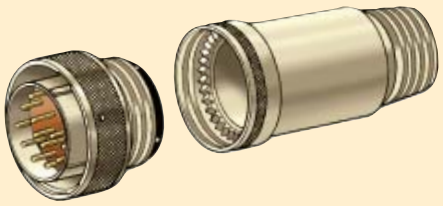
Series 32 - Extender Backshells



These simple Glenair backshells provide extensions between the connector and strain relief, offering the convenience of additional space to accomodate service loops, reterminations, diodes, resistors and other uses.

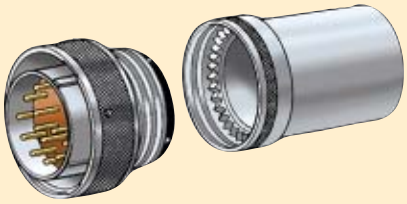
© 2005 Glenair, Inc.

Series 33 - Pipe Thread Adapters



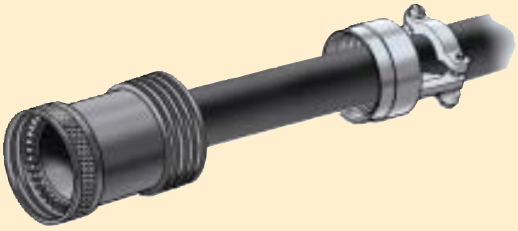
Adapters which accommodate tapered National Pipe Threads, usually associated with various forms of conduit or hose end-fittings.

Series 34 - Shorting Cap Backshells



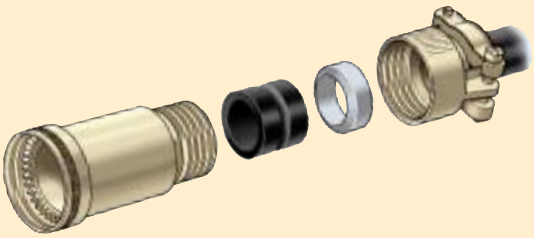
Shorting cap backshells provide a total enclosure for the rear of a connector and are adaptable for the fabrication of shorting plugs, special purpose test connectors, or installation of discrete components.

Series 36 - Non-Environmental Backshells



Glenair provides straight and angled backshells with a wide variety of strain reliefs for light, medium, general, and heavy duty applications where environmental protection of cable-to-connector terminations is not required.

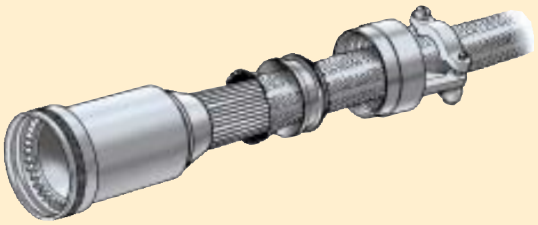
Series 37 - Environmental Backshells



Three versions of environmental backshells are offered with a choice of strain reliefs in straight and angular designs: Full immersion, water-tight and environment resisting. Full immersion denotes cable sealing protection to a depth of 6 ft., water-tight designs provide protection up to 3 ft. and environment resisting backshells are moisture proof (splashproof) and dust resistant. Detailed explanations and drawings of each design are presented at the beginning of this section. A quick reference guide is also provided to aid in backshell selection.

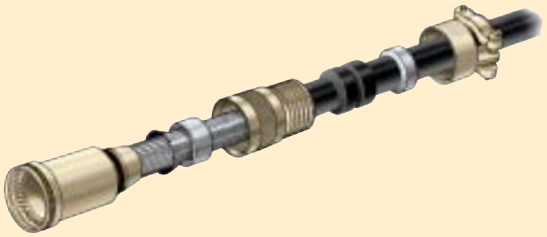
© 2005 Glenair, Inc.

Series 38 - EMI/RFI Non-Environmental Backshells



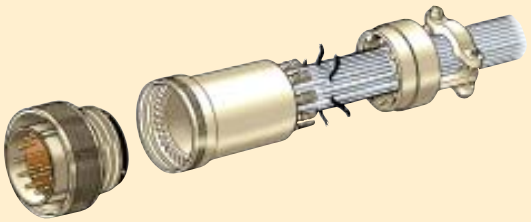
A range of 360° shield/screen terminations are offered in straight and angled backshells, including designs to accommodate combinations of individual and overall shields or screens. Designs included in this section provide low dc resistance across the termination area. Please see the beginning of this chapter for detailed explanations of the seven different shield termination types as well as complete assembly instructions. A quick reference guide is also provided to aid in backshell selection.

Series 39 - EMI/RFI Cable Sealing Backshells



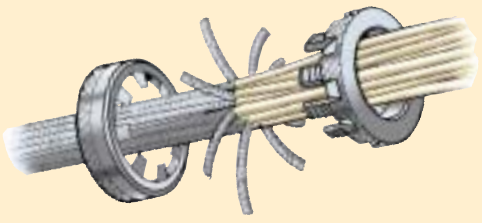
The backshells described in this section combine the EMI/RFI shield/screen terminations of Series 38 with the cable sealing or environmental resisting features of the backshells in Series 37. Straight and angled designs are available. Please see the beginning of the chapter for explanations of the available cable sealing styles, shielding designs and assembly instructions. A quick reference guide is also provided to aid in backshell selection.

Series 40 - TAG® Ring Backshells



Glenair's TAG® Ring backshells offer a unique and reliable method of terminating individually shielded wires where the shields are to be grounded through the backshell and connector shell. Straight and angled designs are available. No special tools are required for assembly and full maintainability is provided.

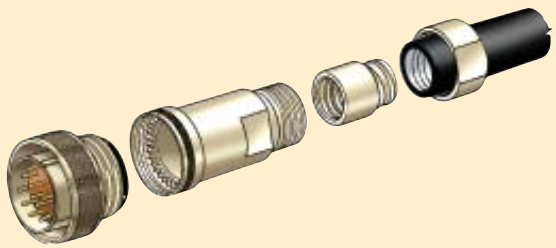
Series 41 - TAG® Ring Shield Termination



Glenair's TAG® Ring provides a reliable and convenient method of common termination of groups of individual shields/screens on wire bundles and harnesses. This device offers a repairable alternative to inner-outer crimp rings, daisy chains and other termination systems.

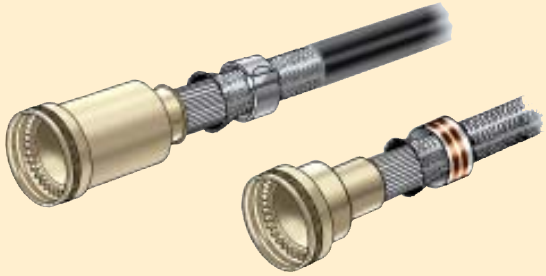
© 2005 Glenair, Inc.

Series 42 - Sealtite/Liquidtite Backshells



This series of backshells provide a convenient method of terminating Sealtite/Liquidtite conduit (or equivalent) to a variety of circular connectors. A malleable ferrule which fits over the exposed end of the conduit is compressed into the outer jackets as the lock nut is tightened. This also provides a secure electrical ground for the metal core of the conduit to the backshell body. No special tools are required for assembly. For conduit information, see Glenair's *Convoluted Tubing, Braiding and Flexible Metal-Core Conduit Systems* catalog.

Series 440 - Banding and Crimping Backshells



Banding and crimp ring backshells provide an economical approach to terminating overall cable and harness shields/screens. These backshells utilize standard bands, crimp rings, or Tinel-Lock® rings for full 360° shield/screen termination with the low dc resistance. For information on Glenair's *Band-It®* Clamping System, please see our *Backshell Assembly Tools, Banding Tools and Accessories* catalog

Series 443 - Cable-Sealing Band-in-a-Can Backshells



A banding backshell assembly, that utilizes a secondary adapter that covers the banding area, along with providing options for environmental sealing and strain relief.

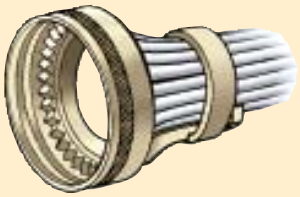
Series 447 - Non-Environmental Band-in-a-Can Backshells



A banding backshell assembly, that utilizes a secondary adapter that covers the banding area. Available with a range of options for strain relief.

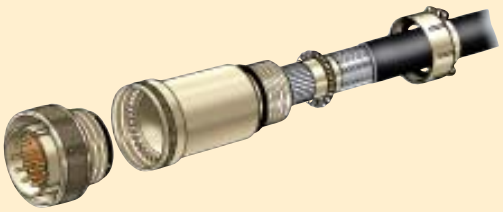
© 2005 Glenair, Inc.

Series 45 - Qwik-Ty® Strain Reliefs



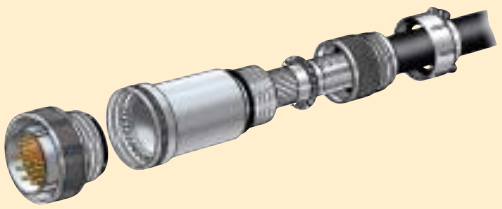
Glenair's Qwik-Ty® strain reliefs offer a unique method of providing strain relief to open wire bundles used with circular connectors. The Qwik-Ty® provides a low profile, reduced weight and simple installation. Installation is quick and secure, using either plastic tie straps or lacing tape.

Series 460 - RFI G-Spring Backshells



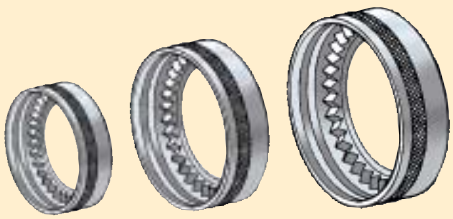
Glenair's G-Spring backshells provide an innovative method of terminating and grounding overall shields/ screens and metal foil shielding on wiring harnesses and cables. The G-Spring design provides a peripheral spring member which compresses against the exposed shield to effect positive electrical grounding around the entire circumference of the shield.

Series 463 - RFI Environmental G-Spring Backshells



Glenair's G-Spring backshells provide an innovative method of terminating and grounding overall shields/ screens and metal foil shielding on wiring harnesses and cables. The G-Spring design provides a peripheral spring member which compresses against the exposed shield to effect positive electrical grounding around the circumference of the shield. Environmental versions of the G-Spring provide environmental sealing on a jacketed cable through the use of a low profile o-ring compression seal.

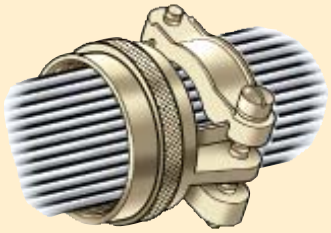
Series 61 - "E" Nuts



This section describes the various backshells without strain relief for use with circular connectors. (These are most commonly referred to as "E" Nuts.)

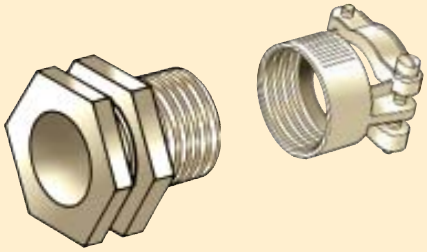
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Series 62 - Strain Reliefs



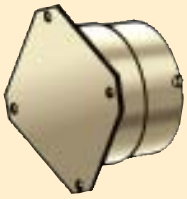
Glenair offers a comprehensive selection of strain reliefs for circular connectors. Straight and angular versions are offered for most connector series.

Series 63 - Bulkhead Fittings,



Series 63 includes a wide variety of bulkhead fittings that feature environmental sealing, shield terminating, strain relief and angular shaped options to facilitate the routing of cables or conduit through bulkheads or other enclosures.

Series 65 - Dummy Stowage Receptacles



A wide choice of dummy stowage receptacles is offered to fit most circular bayonet coupled and thread coupled connectors.

Series 66 and 78 - Protective Covers



A wide selection of EMI/RFI protective covers are offered for both bayonet and thread coupled circular connectors. Our metal covers offer a broad choice of attachments not provided on Military Standard versions. Our Series 78 "Mr. Bean" Protective Rubber Covers are designed to prevent finish damage caused by metal-to-metal contact between disengaged covers and equipment boxes.

Series 68 - Miscellaneous Accessories

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The Working Environment

The broad range of backshell types available today makes it critical for interconnect engineers, and others tasked with the responsibility of specifying connector accessories to become adept at building backshell part numbers. For the most part, the process entails selecting options from the part number development trees found on each catalog page.

But experience shows it is equally important to consider the working environment of the target application before completing the backshell selection process. There are many electrical, mechanical and environmental considerations which, when properly addressed, will ensure a long functional life for the interconnect system. So before you start building part numbers, please consider the following:

(1) What are the material/finish specifications of the mating connector?

(2) What level of environmental protection is required in the system—from full water immersion, to splash proof and/or moisture resistance?

(3) What level of EMI shielding is required, and is any particular style or type of shield termination generally specified in the target assembly?

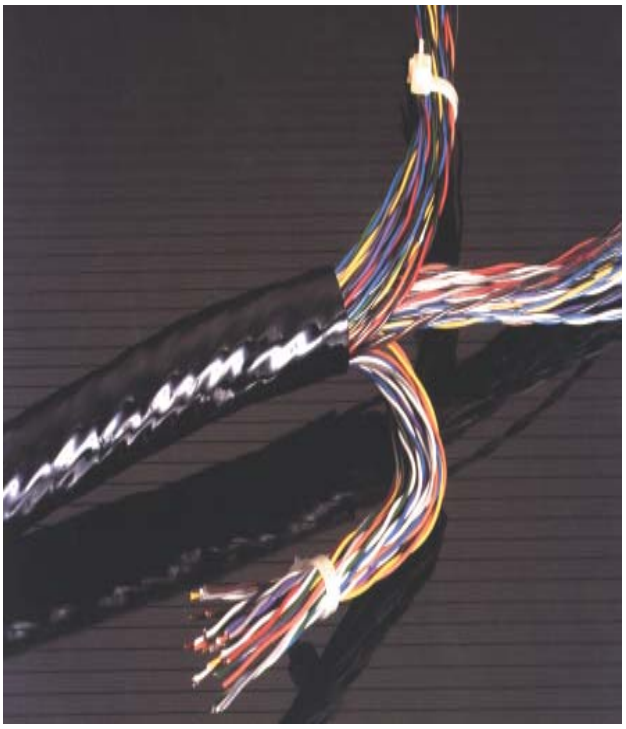
(4) What level or amount of strain-relief, from light duty to gorilla proof, is required to protect shield and conductor terminations from damage?

(5) What is the temperature range of the application environment? Is it so hot that stainless steel is called for, or so cold that an elastomeric seal might potentially fail?

(6) Is repairability a design requirement? Some split shell designs make field repair a snap, while solid shell models make accessing contact terminations more difficult.

(7) Are there size or shape constraints which need to be considered? Is working room so important that an extender needs to be designed in? Or is available space so tight that an ultra low profile backshell design is called for? Does cable routing dictate 45°, 90° or straight cable entries?

(8) Is a metal shell required or is saving weight and preventing corrosion with composite thermoplastic materials an option?



An accurate estimate of the cable diameter is required to select the right backshell cable entry diameter. Complete the cable analysis before selecting the backshell.

(9) Does the application require conformance to AS85049 or another specification?

Cable Make-up

Other questions in backshell selection cannot be answered without an understanding of the overall make-up of the cable and harness. Basic dimensional decisions on cable entry size cannot be specified without accurate descriptions and measurements of the cable or wire bundle. A basic analysis of the cable should include:

- ***Wire Numbers and Types:*** *twisted shielded pairs, coaxial power, signal, fiber optic, etc.*
- ***Shield Material Gauge, Number and Type:*** *tin, nickel, silver plated copper wire, and so on.*
- ***Jacket Material and Thickness.***

The table on the following page will assist you in calculating wire bundle diameter for use in choosing the correct backshell cable entry diameter.

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How to Order
Circular Connector Backshells

Calculating Wire Bundle Diameter

A backshell's rear cable entry can accommodate only a narrow range of cable diameters. When selecting the backshell cable entry size from the provided tables, it is a good idea to error on the side of too large, as an undersized cable can always be enlarged with tape or a grommet to fit the cable clamp. Whan calculating wire bundle diameters, note that the gauge # of the wire describes only the diameter of the metal conductor, and not the overall diameter including insulation and/or braids. Refer to the appropriate wire specification for the actual diameter of the wire for use in the following calculations.

Steps	Calculations
(1a) Determine average wire diameter when all wires are the same diameter; or	Given 30 Wires @ .045 DIA **Avg. Wire DIA = .045**
(1b) Determine average wire diameter when wires are different diameters.	Given 15 Wires @ .045 **and** 15 Wires @ .135 15 x .045 = .68 15 x .135 = 2.03 + = 2.71 $\frac{2.71}{30}$ = **.090 Avg. Wire DIA**
(2) Multiply average wire diameter by factor from Table I below	(1a) .045 x 6.7 = **.3015 Core Wire Bundle DIA** (1b) .090 x 6.7 = **.603 Core Wire Bundle DIA**
(3) Add thickness of any shielding or jacketing to core wire bundle diameter (for example, add .025 for braided sleeving)	(1a) .3015 + .025 = **.3265 Wire Bundle Outside DIA** (1b) .603 + .025 = **.628 Wire Bundle Outside DIA**

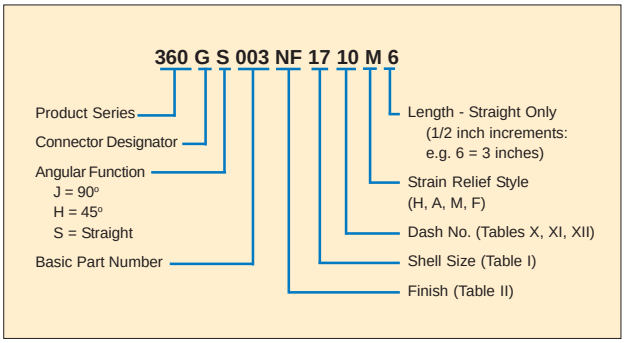
TABLE I

No. of Wires	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20	24	28	32
Factor	1.0	2.0	2.2	2.4	2.7	2.9	3.0	3.3	3.8	4.0	4.3	4.6	5.0	5.3	5.6	6.0	6.5	6.9
No. of Wires	36	40	45	50	55	60	65	70	75	80	90	100	125	150	175	200	250	300
Factor	7.4	7.7	8.1	8.5	8.9	9.3	9.7	10.1	10.5	10.9	11.6	12.2	13.7	15.0	16.1	17.2	19.3	21.0

Backshell Part Number Development

Glenair follows a standardized format for the development of accessory part numbers, so mastering the process once will enable you to build valid part numbers from any connector accessory product family—circular, rectangular, composite, fiber optic, and so on. Some differences are of course to be found from one product series to the next because of the range of available options. If in doubt, *QwikCreate, The Glenair Part Number Builder*, is now available on our website and takes all the pain and suffering out of backshell specification. For catalog users, the following steps will serve as general guide to the process.

(1) Select the Product Series: Do you want a dust cap, a banding adapter, an environmental backshell or some other type of connector accessory? Use the graphical product selection guide at the beginning of the catalog for help in getting to the right section.

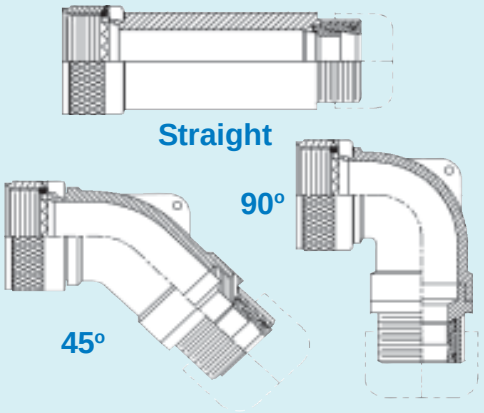


Typical backshell part number development or "How to Order" tree

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Angle and Profile

The art of successful backshell selection includes specifying the most appropriate shape and cable entry for each connector accessory.



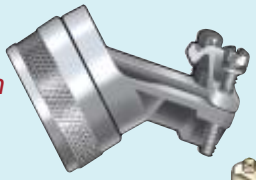
This selection determines working room, repairability, cable routing and the elimination of acute angles. In addition to straight backshells, the range of angles and profiles offered by Glenair include:

- *45° Elbow - Standard Profile*
- *45° Elbow - Low Profile*
- *45° Elbow - Full Radius Profile*
- *45° Elbow - Low Profile Split Shell*
- *90° Elbow - Standard Profile*
- *90° Elbow - Low Profile*
- *90° Elbow - Full Radius Profile*
- *90° Elbow - Low Profile Split Shell*
- *90° Elbow - Ultra Low Profile Split Shell "Cobra"*

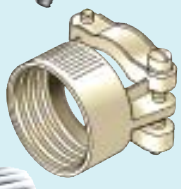
Strain-Reliefs

Typical Mil-Aero cable assemblies often have over a hundred wires terminated to a single connector. Preventing the wires from pulling on the contacts and damaging the termination is critical, and is usually accomplished with a strain-relief cable clamp that serves to isolate the pulling strain applied to the cable. Strain relief on electrical connectors can be accomplished in other ways, such as with a wire service loop that allows the wire to move between the clamping device and the contact without over-stressing the termination. However the basic method of clamping the wire bundle or cable jacket with saddle bars has historically been the most common method of protecting contact terminations.

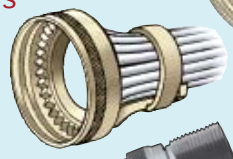
- *Straight and Angled Strain Reliefs*



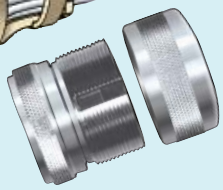
- *Light, Medium and Heavy-Duty Saddle Bars*



- *Qwik-Ty®*



- *QwikClamp®*



(2) Select the Connector Designator: This alphabetic symbol or "designator" is used to match each standardized connector family with the correct backshell thread and interface dimensions. Tables listing all the connector designators used by Glenair can be found beginning on page 15. MIL-DTL-5015 connector users must use an additional manufacturer symbol when ordering backshells. Please see pages 18 and 19 for more information.

(3) Select the Basic Part Number: This number fine-tunes your selection within the product series. For example, for Series 39 EMI/RFI Cable Sealing Backshells, your Basic Part Number selection will tell the factory what style of shield termination technology you prefer and the level of environmental sealing desired. The Basic Part Number also selects for other attributes such as rotatable or direct coupling.

(4) Select the Angle and Profile: Choose 45º, 90º or straight backshells in either standard, low or full radius profiles. Selected parts are also available in Ultra Low Profile Split Shell versions.

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How to Order
Circular Connector Backshells

(5) Select the Finish Symbol: This symbol, selected from the table on page 14 or from the same table inside the back cover, tells the factory what surface finish or plating should be applied to the product. In almost all cases this selection should match the material finish of your connector.

(6) Select the Connector Shell Size Number: The connector shell size number is taken from Table 1, located on page 13 and repeated again on the inside back cover. The connector shell size number ensures the backshell thread and interface dimensions will fit the chosen size connector. Find the shell size number in the appropriate column according to your connector designator. In certain cases, such as MIL-DTL 38999 Series I and II Connectors (designator F), we have combined both series under a single choice. Simply find your odd connector number or letter in the [brackets] and enter the adjacent number in your part number.

(7) Select the Cable Entry Diameter: This entry specifies the minimum and maximum diameter of cable the backshell accessory can accommodate. Cable entry selection tables are generally found right there on the page. If in doubt, err on the big side, as cables may always be enlarged with tape or a grommet.

(8) Select the Strain Relief Style: Most accessories that are able to accept saddle bar cable clamps offer a range of choices. The selection is usually based on the level or duty of strain-relief that is required, and design drawings of applicable options are featured right there on the catalog page.

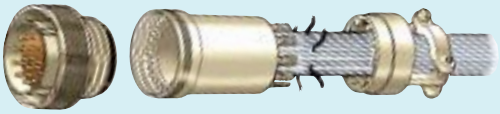
(9) Select Unique Options: Other available options, such as drain holes, bands, wire attachment lengths, special material designators, and so on, are tacked on to the end of the part number. In some cases you will be asked to omit the code for a particular option if you do not want it included with the part.

Shield Termination Devices

Selecting the most appropriate shield terminating backshell for a particular application requires a detailed analysis of the cable and the application environment in which the assembly will be used.

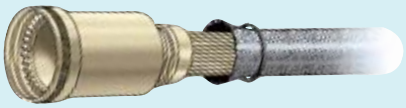
EMI/RFI Backshell Designs

Glenair TAG® Ring Backshells



Glenair TAG® Ring Backshells offer a unique and reliable method of terminating individual wire shields.

Raychem Tinel-Lock® Terminators



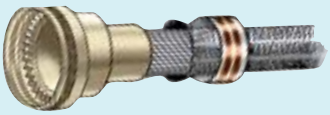
Glenair offers the Raychem Tinel-Lock® termination method. Applied heat causes the alloy ring to contract, clamping the shield to the backshell.

Band-It® Termination System



The unique low profile and smooth inside diameter of the *Band-It®* steel clamping band virtually eliminates EMI leakage paths, providing reliable and repairable shield terminations.

Crimp Ring Termination System



Crimp ring terminations provide an efficient approach to terminating overall cable and harness screens. Individually sized bands are required for each adapter and shield combination.

Conical Ring Style Backshells

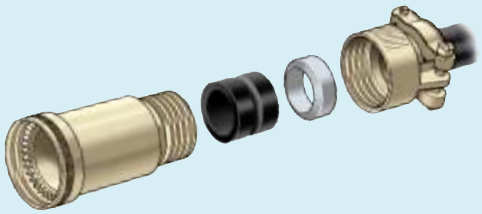


Glenair EMI/RFI conical ring backshells provide reliable individual and overall shield termination by securing the shield under pressure between a conically shaped backshell and ground ring.

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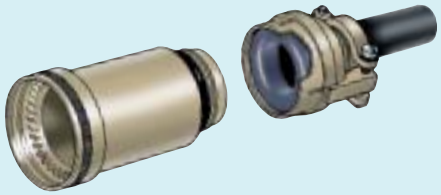
Cable Sealing Backshell Designs

Submersible Backshells



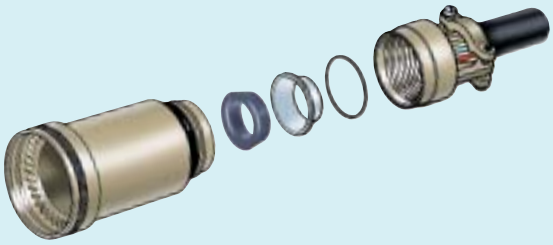
This Cable Sealing Backshell offers immersion protection to 6 ft. when used with impervious jacketed cables. A resilient grommet which fits into a counterbore in the backshell compresses and seals against the cable jacket when the threaded strain relief is tightened. This backshell is described as "submersible" throughout this catalog.

Water-Tight Backshells



This Cable Sealing Backshell provides a resilient grommet as an integral part of the cable strain relief; it is described as "water-tight" throughout this catalog and prevents water incursion up to 3 ft.

Splash-Proof Backshells



For applications requiring only moisture resistance and sealing against dust, Glenair offers these Environmental Resisting Backshells. An effective sealing barrier is created by a resilient grommet at the backshell cable entry. This backshell design is described as "splash-proof" in this catalog

There is no single shield termination technology or methodology that will meet every customer requirement. For this reason, Glenair supports every popular shield termination method with the full range of shell sizes, materials, platings and tooling, including:

- *Single and Multiple Conical Rings*
- *Crimp Rings*
- *Banding Terminations*
- *Castellated or Splined Rings*
- *Lampbase Thread Rings*
- *Radial Compression Springs*
- *Integrated Shield Socks*
- *Magnaforming*
- *Tinel™ Lock-Rings*

Customer selection depends on many factors, including cost, repairability, shield type and construction, cable diameter and type, cable jacket thickness, weight, shock and vibration, strain-relief, corrosion resistance and so on. The primary factor is cable construction: what type of shield is being terminated, where the shield or combination of shields is located within the cable or wire bundle, and how difficult the outer jacket is to work with. Customer preference, established methods and practices, tradition, manual skill levels and inspection procedures must also be considered.

The relative effectiveness of each style can be measured using a transfer impedance test. The transfer impedance test is the most widely accepted absolute measure of a shield's performance. It is used to evaluate cable shield performance against electrostatic discharge and radiated emissions coupling at frequency ranges up to 1 GHz. This testing method is recommended by the International Electrotechnical Commission as well as the military. Test reports for most standard termination technologies are available upon request from the factory.

Corrosion Protection in Electromagnetic Interconnect Systems

Glenair has a responsibility to deliver interconnect systems and hardware to its customers without "built-in" corrosion problems. As part of this effort we have pioneered the use of composite ther-

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How to Order
Circular Connector Backshells

Backshell-to-Connector Coupling

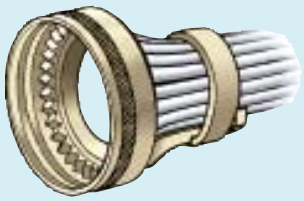
Glenair offers four different coupling styles to meet every application requirement:

Direct Coupling



Direct couplers thread directly onto the connector by rotating the entire part. A separate toothed follower provides backshell-to-connector grounding.

Rotatable Coupling



Rotatable designs utilize a free-spinning, toothed coupling nut for easier installation.

Self-Locking, Rotatable Coupling



Rotatable Self-Lockers add a ratcheted detent "clicker" to prevent de-coupling due to extreme vibration and shock.

Positive-Lock, Non-Detent Coupling



Glenair Mod Code -445 ("NESTOR") coupling mechanism corresponds to AS85049 style "N" non-detent, rotatable coupling with spring-loaded interface.

moplastic materials as an alternative to conductive metal materials and finishes. Composite products can eliminate corrosion problems completely in interconnect systems and should be considered for all harsh application environments.

The problems associated with corrosion are compounded by the need to produce parts which are electrically conductive. To prevent EMI from permeating into system electronics, conductive cable shielding is grounded to plated backshells and connectors to take the unwelcome EMI to earth. The challange is to produce conductive, plated products which both prevent EMI and resist corrosion in harsh application environments. At Glenair this work takes place in three areas:

1. Strict attention to dissimilar metal combinations;

2. The specification of corrosion-resistant materials such as stainless steels and composites in severe environments wherever possible; and

3. The use of surface coatings such as nickel, zinc or gold plating to isolate base metals from reactive electrolytes.

The selection of compatible (non-galvanic) surface finishes is a critical step in backshell specification. To prevent dissimilar metal corrosion, customers should note material and finish specifications for connectors and cable shields before selecting connector accessory hardware. As a general rule, the backshell material and finish should match that of the chosen connector.

Electroless nickel plating (code M) provides a low resistance conductive finish appropriate for most H (magnetic) and E (electrical) field EMI applications, and is ideally suited for benign environments not exposed to salt-spray. For environmental applications, a sacrificial overplating, such as cadmium plate over electroless nickel (code NF), is recommended. Glenair zinc-nickel over electroless nickel (code ZN) may also be specified for environmental applications which require ASTMB 841-91 approval but are prohibited from using cadmium. Non-EMI applications may utilize nonconductive finishes such as Black Anodize (Code C). See Table II for other standard finish options.

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TABLE I - BACKSHELL INTERFACE DIMENSIONS

CONNECTOR DESIGNATOR											A THREAD*	B	C	D	E
A	C*	D	E	F	G	H	J	K	L	S	REFERENCE	DIA MAX	DIA MAX	DIA MAX	DIA MAX
		08	08	08 [9]				08	08	08	7/16 – 28 UNEF	.590 (15.)	.650 (16.5)	.770 (19.6)	.690 (17.5)
						09 [A]					M12 x 1 – 6H	.650 (16.5)	.770 (19.6)		.940 (24.8)
08											1/2 – 20 UNF	.650 (16.5)	.650 (16.5)		.690 (17.5)
							08 [A]	10			1/2 – 28 UNEF	.650 (16.5)	.770 (19.6)	.770 (19.6)	
03		10	10	10 [11]				11	10	10	9/16 – 24 UNEF	.720 (18.3)	.770 (19.6)	.890 (22.6)	.820 (20.8)
						11 [B]					M15 x 1 – 6H	.770 (19.6)	.820 (20.8)		1.060 (26.9)
10								12 [13]			5/8 – 24 UNEF	.770 (19.6)	.770 (19.6)	.890 (22.6)	.820 (20.8)
							10 [B]				5/8 – 28 UN	.770 (19.6)	.890 (22.6)		
		12		12 [13]					12	12	11/16 – 24 UNEF	.840 (21.3)	.890 (22.6)	1.020 (25.9)	.940 (23.8)
						13 [C]					M18 x 1 – 6H	.890 (22.6)	.940 (23.9)		1.170 (29.7)
12 [7]	12		12		11 [A]			14 [15]			3/4 – 20 UNEF	.970 (24.6)	.940 (23.9)	1.020 (25.9)	.940 (23.8)
		14	14	14 [15]					14	14	13/16 – 20 UNEF	.970 (24.6)	1.020 (29.2)	1.150 (29.2)	1.060 (26.9)
						15 [D]					M22 x 1 – 6H	1.030 (26.2)	1.070 (26.2)		1.290 (32.7)
14 [12]	14				13 [B]			16 [17]			7/8 – 20 UNEF	1.090 (27.7)	1.020 (25.9)	1.150 (29.2)	1.060 (26.9)
							14 [D]				7/8 – 28 UN	1.030 (26.2)	1.150 (29.2)		
		16	16	16 [17]					16	16	15/16 – 20 UNEF	1.090 (27.7)	1.150 (29.2)	1.260 (32.0)	1.170 (29.7)
						17 [E]					M25 x 1 – 6H	1.150 (29.2)	1.210 (30.7)		1.420 (36.1)
16 [19]	16				15 [C]			18			1 – 20 UNEF	1.220 (29.2)	1.210 (30.7)	1.230 (31.2)	1.170 (29.7)
							16 [E]				1 - 28 UN	1.150 (29.2)	1.360 (34.5)		
18 [27]		18	18	18 [19]					18	18	1 1/16 – 18 UNEF	1.220 (31.0)	1.230 (31.2)	1.400 (35.6)	1.290 (32.7)
						19 [F]					M28 x 1 – 6H	1.280 (32.5)	1.360 (34.5)		1.540 (39.1)
	18				17 [D]			20			1 1/8 – 18 UNEF	1.340 (34.0)	1.360 (34.5)	1.360 (34.5)	
							18 [F]				1 1/8 – 28 UN	1.280 (32.5)	1.480 (37.6)		
20 [37]		20	20	20 [21]					20	20	1 3/16 – 18 UNEF	1.340 (34.0)	1.360 (34.5	1.530 (38.9)	1.420 (36.0)
						21 [G]					M31 x 1 – 6H	1.410 (35.8)	1.480 (37.6)		1.670 (42.4)
	20				19 [E]			22			1 1/4 – 18 UNEF	1.470 (37.3)	1.530 (38.9)	1.480 (37.6)	
							20 [G]				1 1.4 – 28 UN	1.410 (35.8)	1.600 (40.6)		
22		22	22	22 [23]					22	22	1 5/16 – 18 UNEF	1.470 (37.3	1.480 (37.6)	1.600 (40.6)	1.540 (39.1)
						23 [H]					M34 x 1 - 6H	1.530 (38.9)	1.600 (40.6)		2.010 (51.1)
	22							24			1 3/8 – 18 UNEF	1.590 (40.4)		1.600 (40.6)	
							22 [H]				1 3/8 – 28 UN	1.530 (38.9)	1.730 (43.9)		
24		24	24	24 [25]	23 [F]				24	24	1 7/16 – 18 UNEF	1.590 (40.4)	1.730 (43.9)	1.940 (49.3)	1.660 (42.2)
						25 [J]					M37 x 1 – 6H	1.660 (42.2)	1.700 (43.2)		2.120 (53.8)
61											1 1/2 – 18 UNEF	1.660 (42.2)	1.670 (42.4)		
							24 [J]				1 1/2 – 28 UN	1.660 (42.2)	1.940 (49.3)		
					25 [G]						1 9/16 – UNEF		1.820 (46.2)		
	24							28			1 5/8 – UNEF	1.840 (46.7)		1.940 (49.3)	
28											1 3/4 – 18 UNS	1.970 (50.0)	1.970 (50.0)		2.010 (51.1)
	28				29 [H]			32			1 7/8 – 16 UN	2.090 (53.1)	2.190 (55.6)	2.190 (55.6)	
32											2 – 18 UNS	2.280 (57.9)	2.220 (56.4)		2.260 (57.4)
	32				33 [J]						2 1/16 – 16 UNS	2.340 (59.4)	2.440 (62.0)	2.440 (62.0)	
								36			2 1/8 – 16 UN	2.340 (59.4)		2.440 (62.0)	
36											2 1/4 – 16 UN	2.530 (64.3)	2.47 (62.7)		2.530 (64.3)
	36										2 5/16 – 16 UNS	2.590 (65.8)		2.690 (68.3)	
								40			2 3/8 – 16 UN	2.590 (65.8)		2.690 (68.3)	
40											2 1/2 – 16 UN	2.780 (70.6)	2.720 (69.1)		3.040 (77.2)
	40										2 5/8 – 16 UN	2.910 (73.9)		2.930 (74.4)	
44											2 3/4 – 16 UN	3.030 (77.0)	2.970 (75.4)		
	44										2 7/8 – 16 UN	3.160 (80.3)			
48											3 – 16 UN	3.220 (81.8)	3.220 (81.8)		
	48										3 1/16 – 16 UN	3.410 (86.6)			

* Code C, MIL-C-22992, Left-Hand Thread. Connector designations depicted thus [ ] are for reference only and are not to be used in part number development.

BACKSHELL INTERFACE STANDARDS (See pages 15-17 for more information)

DESIG.	SPEC.	SERIES
A	MIL-DTL-5015	MS3400
	MIL-DTL-26482	2
	AS81703	3
	MIL-DTL-83723	I & III
	40M39569	
	DEF 5326-3	
	EN 2997, 3646	
	ESC 10, 11	
	LN 29504	
	NFC93422	HE302
	PAN 6432-1, -2	

DESIG.	SPEC.	SERIES
A	PATT 602	
B	MIL-DTL-5015	MS3100
C	MIL-C-22992	MS173XX
D	MIL-DTL-26482	1
E	MIL-DTL-26500	Aluminum
F	MIL-DTL-38999	I & II
	40M38277	
	PAN 6433-1	
	PATT 614	
	PATT 616	
	NFC93422	HE308, 9

DESIG.	SPEC.	SERIES
G	MIL-C-28840	
H	MIL-DTL-38999	III & IV
	EN3645	
J	MIL-C-81511	1, 2, 3 & 4
	VG95329	
K	MIL-DTL-83723	II

DESIG.	SPEC.	SERIES
L	EN3372	
	JN 1003	
	LN 29729	
	NFC93422	HE306
	PAN 6433-2	
	PATT 615	
	VG 96912	
S	PATT 105	
	PATT 603	
	PATT 608	

Glenair®

Reference Information
Standard Materials and Finishes

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	M85049 SYMBOL REFERENCE ONLY	FINISH	SPECIFICATION(S)
A		Cadmium Plate, Bright	AMS-QQ-P-416, Type I, Class 2
B		Cadmium Plate, Olive Drab	AMS-QQ-P-416, Type II, Class 3
C*	A	Anodize, Black	AMS-A-8625, Type II, Class 2
G*		Hard Coat, Anodic	AMS-A-8625, Type III, Class 1
J		Iridite, Gold Over Cadmium Plate Over Electroless Nickel	MIL-C-5541, Class 3 AMS-QQ-P-416, Type II, Class 3 over AMS-C-26074, Class 4, Grade B
LF		Cadmium Plate, Bright Over Electroless Nickel	1000 Hour Corrosion Resistance
M	N	Electroless Nickel	AMS-C-26074, Class 4, Grade B
N		Cadmium Plate, Olive Drab Over Electroless Nickel	AMS-QQ-P-416, Type II, Class 3 over Electroless Nickel AMS-C-26074
NC		Zinc Cobalt, Dark Olive Drab	96 Hour Corrosion Resistance
NF	W	Cadmium Plate, Olive Drab Over Electroless Nickel	1000 Hour Corrosion Resistance
T		Cadmium Plate, Bright Over Electroless Nickel	AMS-QQ-P-416, Type I, Class 3 ASTMB 733-90, SC2, Type I, Class 5, MIL-C-26074***
U		Cadmium Plate, Black	AMS-QQ-P-416, Type II, Class 3
ZU**		Cadmium Plate, Black	AMS-QQ-P-416, Type II, Class 3
ZN		Zinc-Nickel Alloy, Olive Drab	ASTMB 841-91, Over Electroless Nickel 1000 Hour Salt Spray

* Anodize finish; not suitable for EMI Shielding or grounding applications.
** Applicable to corrosion resisting steel backshells and accessories. Consult factory for other available finishes.

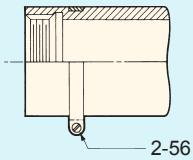
The following standard materials are used for the majority of Glenair backshells and connector accessories. However, backshell components are not limited to those items listed, but are representative of the elements used in Glenair's general accessory products. Contact Glenair for applicable specifications on items not listed below.

STANDARD MATERIALS - BACKSHELLS AND ACCESSORIES

COMPONENT	MATERIAL	SPECIFICATION
Machined components: such as backshell bodies, fabricated elbows, protective covers, rotatable couplers, dummy stowage receptacles, lock nuts, G-spring support rings, EMI ground rings, grommet followers, etc.	Aluminum	AMS-QQ-A-200 ASTMB221, 209
Die cast components: such as angular backshells, strain relief backshells, strain relief bodies, strain relief saddles, special EMI ground rings, etc.	Aluminum	QQ-A-591 ASTMB85, 26
Backshells or strain reliefs: available in optional corrosion resisting steel; and hardware: such as screws, washers, rivets, wire rope, sash chain, band straps, etc.	Corrosion Resisting Steel	ASTMA582 (300 Series) AMS-QQ-S-763
Elastomeric seals: such as O-rings, cable jacket seals, grommets, etc.	Silicone	A-A-59588
	Fluorosilicone	MIL-DTL-25988
Anti-friction and thrust washers	Fluoropolymer	TFE
Anti-rotation device	Corrosion Resistant Material	N/A

BODY STRAP

Glenair offers an optional stainless steel body strap for attaching protective covers as illustrated. To specify body strap, add suffix letter C to the end of the part number. For example 360AS001M1610M6C.



NOTES

On all length callouts, tolerance is ± .060 unless otherwise specified.

Unless otherwise specified, the following other dimensional tolerances will apply:

.xx = ± .03 (0.8)
.xxx = ± .015 (0.4)
Lengths = ± .060 (1.52)
Angles = ± 5°

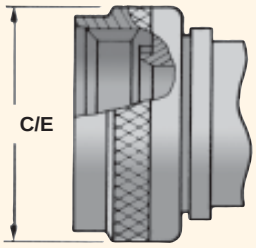
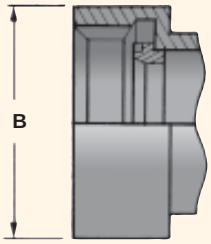
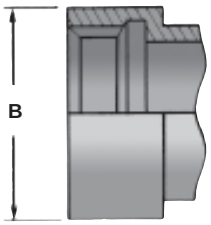
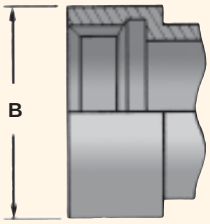
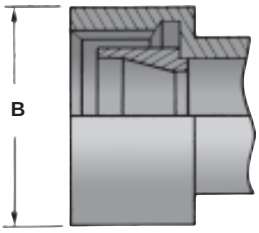
Metric dimensions (mm) are indicated in parentheses

NOTE: For your convenience these tables have been reproduced inside the back cover fold-out.

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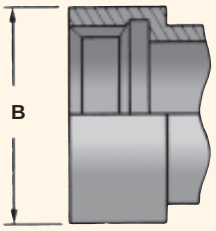
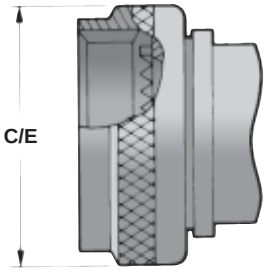
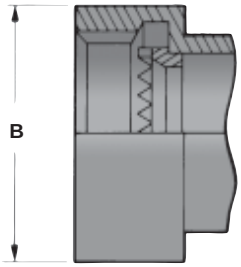
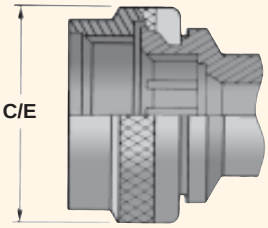
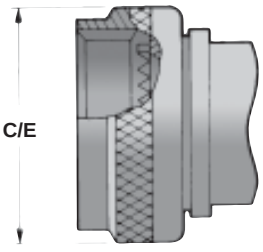
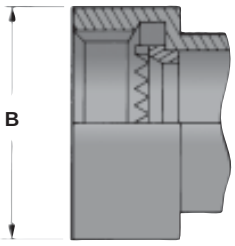
Reference Information
Backshell Interface Standards and Connector Designators

The following illustrations depict the standard fitting or adapter interface for the connector noted. Specification design standards are indicated wherever applicable. Connector designators, used in accessory part number development are indicated in the left hand column. See pgs.18 and 19 for MIL-C-5015 (MS3100 Series) connectors.

CONNECTOR DESIGNATOR	CONNECTOR SPECIFICATION	SERIES	ROTATABLE COUPLING	DIRECT COUPLING
A	MIL-DTL-5015 MIL-DTL-26482 MIL-C-81703 MIL-DTL-83723 40M39569 CECC 75201.001 DEF 5326-3 EN 2997 EN 3646 ESC 10 ESC 11 LN 29504 NFC 93422 PAN 6432-1 PAN 6432-2 PATT 602	MS3400 2 3 I & III HE302	 AS85049 Figure 4 (MS3155)	
B	MIL-DTL-5015	MS3100	SEE PAGES 18 & 19	
C	MIL-C-22992	MS173XX	CONSULT FACTORY	
D	MIL-DTL-26482	MS312X Series 1	CONSULT FACTORY	

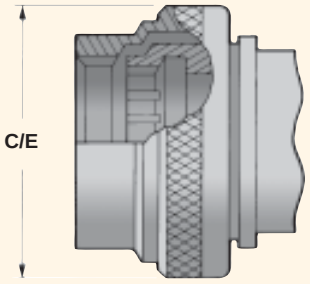
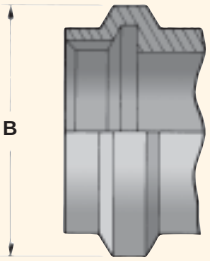
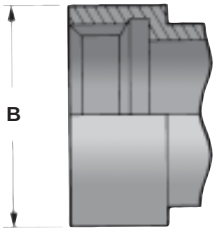
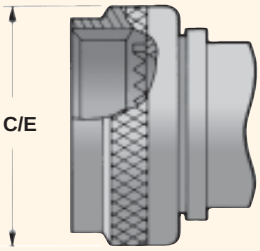
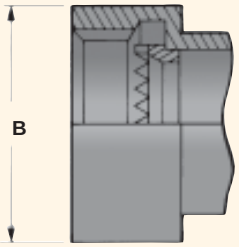
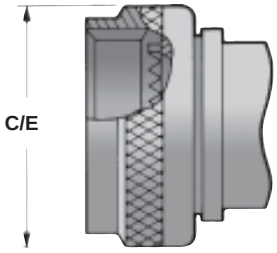
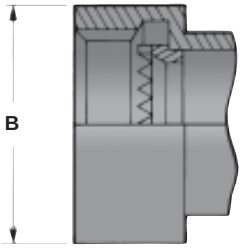
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Reference Information
Backshell Interface Standards and Connector Designators

CONNECTOR DESIGNATOR	CONNECTOR SPECIFICATION	SERIES	ROTATABLE COUPLING	DIRECT COUPLING
E	MIL-DTL-26500	Aluminum (Class F, G & R)	CONSULT FACTORY	
F	MIL-DTL-38999 40M38277 NFC93422 NFC93422 PAN 6433-1 PATT 614 PATT 616 Caution: These connector interfaces are not suitable for total environmental sealing; for further information consult factory.	I & II HE308 HE309	 AS85049 FIGURE 2 MIL-DTL-38999 FIGURE 3	
G	MIL-C-28840		 MIL-C-28840 FIGURE 7	CONSULT FACTORY
H	MIL-DTL-38999 EN3645 CECC 75201.002	III & IV	 AS85049 FIGURE 3 MIL-DTL-38999 FIGURE 3	

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Reference Information
Backshell Interface Standards and Connector Designators

CONNECTOR DESIGNATOR	CONNECTOR SPECIFICATION	SERIES	ROTATABLE COUPLING	DIRECT COUPLING
J	MIL-C-81511 VG95329	1, 2, 3 & 4	 MIL-C-81511 FIGURE 12C	
K	MIL-DTL-83723	Series II	CONSULT FACTORY	
L	EN3372 JN1003 LN 29729 NFC93422 PAN 6433-2 PATT 615 VG 96912	HE306		
S	PATT 105 PATT 603 PATT 608			

CONSULT FACTORY FOR CONNECTOR DESIGNATORS FOR SERIES NOT SHOWN, INCLUDING:
MIL-C 27599, DEF 5325-3, PRL 54125, VG 95234 AND VG 95324

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Connector Designator "B" Ordering Information
MIL-DTL-5015 Connector Fittings
(MS3100 Series)

How to Order Backshells for Mil-DTL-5015 (MS3100 Series) Connectors

The threads and interface dimensions on MIL-DTL-5015 solder-type connectors are unfortunetly not standardized from one manufacturer to the next. As a result, there is limited interchangeability in many shell sizes and service classes amongst available MS3100 Series products. When ordering backshells for 5015 connectors it is therefore necessary to treat each connector manufacturer's product seperately to ensure optimum compatibility of the backshell-to-connector interface. This is accomplished in two steps: (1) Use the connector designator "B" in the normal place in the part number to indicate to the factory that a MIL-DTL-5015 (MS3100 Series) connector is being used; and (2) Use an additional connector manufacturer symbol, as shown in the part number development example below, to indicate whose MIL-DTL-5015 product you are using. Connector manufacturer symbols for 5015 products are shown in the table below and pertinent connector fitting interface information is given on page 19.

Please Note: For proper use of Glenair backshells with MS3100 Series connectors, discard all rear hardware, including wire seal grommets, normally supplied with the connector. (This information does not apply to endbell extenders commonly supplied with MS3100A Series connectors.)

370 B S 004 B 17 10 C 6 A

- **370** — Product Series
- **B** — Connector Designator (MS3100 Series)
- **S** — Angle and Profile: S=Straight, A=90° (Die Cast), B=45° (Die Cast)
- **004** — Basic Part Number
- **B** — Finish (Table II)
- **17** — Dash No. (From Table on the Following Page - Note: Do Not Insert Shell Size) **Note: Dash number does not necessarily correspond to shell size.**
- **10** — Cable Entry (Entry Size: See Product Series Page)
- **C** — Strain Relief Style (See Product Series Page)
- **6** — Length - Straight Only in 1/2 inch (12.7 mm) increments, e.g. 6 = 3 inches (76.2 mm)
- **A** — Connector Manufacturer Symbol (Table Below)

MIL-C-5015 CONNECTOR MANUFACTURER SYMBOLS

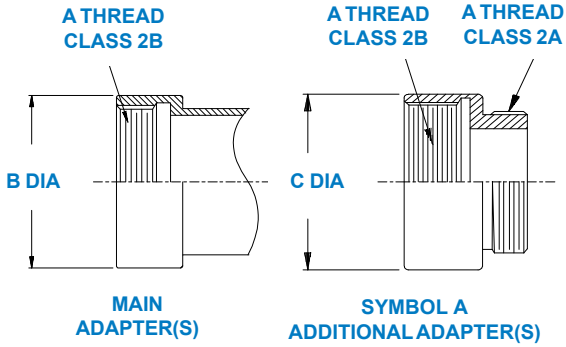
SYMBOL	MANUFACTURER	CONNECTOR SERIES	CLASS
A	All	MS3100, 01, 06	A/E/F/R
H	Amphenol	MS3100, 01, 06 97 Series Blue Insert	A
J		MS3100, 01, 06	E/F/R
L	Amphenol/BCO	MS3100, 01, 06 10-214, 10-720 10-721, 10-726	A/E/F/R
M	Cannon	MS3100, 01, 06	A
N	Cannon	MS3100, 01, 063 CA00, 01, 06	E/F/R

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MS 3100 SERIES MANUFACTURER DESIGNATIONS

DASH NO.	SHELL SIZE	CONN. MFG DESIG.	SEE NOTE 1	A THREAD CLASS 2B	B DIA MAX	C DIA NOM
01	8S	A	1	7/16 - 28 UNEF	.656 (16.7)	.625 (15.9)
02	8S	J, M, N,	2	7/16 - 28 UNEF	.656 (16.7)	.625 (15.9)
03	8S	L	3	3/8 - 32 UNEF	.607 (15.4)	.562 (14.3)
04	8S	H	3	7/16 - 27 UNS	.656 (16.7)	.625 (15.9)
05	10S	A	1	1/2 - 28 UNEF	.724 (18.4)	.687 (17.4)
06	10S	H, J, L, N	2	1/2 - 28 UNEF	.724 (18.4)	.687 (17.4)
07	10S	M	3	9/16 - 24 UNEF	.724 (18.4)	.687 (17.4)
08	10SL	A	1	9/16 - 24 UNEF	.724 (18.4)	.687 (17.4)
09	10SL	M, N	2	9/16 - 24 UNEF	.724 (18.4)	.687 (17.4)
10	10SL	H, J, L	3	5/8 - 24 UNEF	.848 (21.5)	.812 (20.6)
11	12, 12S	A	1	5/8 - 24 UNEF	.848 (21.5)	.812 (20.6)
12	12, 12S	L, N	2	5/8 - 24 UNEF	.848 (21.5)	.812 (20.6)
13	12, 12S	H, J, M	3	11/16 - 24 UNEF	.848 (21.5)	.812 (20.6)
14	12SL, 14, 14S	A	2	3/4 - 20 UNEF	.974 (24.7)	.937 (23.8)
15	16, 16S	A	2	7/8 - 20 UNEF	1.102 (28.0)	1.062 (27.0)
16	18	A	2	1 - 20 UNEF	1.220 (31.0)	1.187 (30.1)
17	20	A	1	1 1/8 - 18 UNEF	1.343 (34.1)	1.312 (33.3)
18	20	H,L,M,N	2	1 1/8 - 18 UNEF	1.343 (34.1)	1.312 (33.3)
19	20	J	3	1 1/8 - 24 UNS	1.343 (34.1)	1.312 (33.3)
20	22	A	2	1 1/4 - 18 UNEF	1.468 (37.3)	1.437 (36.5)
21	24	A	2	1 3/8 - 18 UNEF	1.593 (40.5)	1.562 (39.7)
22	28	A	2	1 5/8 - 18 UNEF	1.843 (46.8)	1.812 (46.0)
23	32	A	1	1 7/8 - 16 UN	2.125 (54.0)	2.062 (52.4)
24	32	L, M, N	2	1 7/8 - 16 UN	2.125 (54.0)	2.062 (52.4)
25	32	H, J	3	1 29/32 - 18 UNS	2.125 (54.0)	2.062 (52.4)
26	36	A	1	2 1/8 - 16 UN	2.375 (60.3)	2.312 (58.7)
27	36	M, N	2	2 1/8 - 16 UN	2.375 (60.3)	2.312 (58.7)
28	36	L	3	2 1/16 - 16 UNS	2.375 (60.3)	2.312 (58.7)
29	36	J	3	2 1/16 - 20 UNEF	2.375 (60.3)	1.312 (33.3)
30	36	H	3	2 1/8 - 18 UNS	2.375 (60.3)	2.312 (58.7)
31	40	A	1	2 3/8 - 16 UN	2.625 (66.7)	2.562 (65.1)
32	40	H, M, N	2	2 3/8 - 16 UN	2.625 (66.7)	2.562 (65.1)
33	40	L	3	2 5/16 - 16 UNS	2.625 (66.7)	2.562 (65.1)
34	44	A	2	2 5/8 - 16 UN	2.906 (73.8)	2.875 (73.0)
35	48	A	1	2 7/8 - 16 UN	3.156 (80.2)	3.125 (79.4)
36	48	H	2	2 7/8 - 16 UN	3.156 (80.2)	3.125 (79.4)
37	48	N	3	2 13/16 - 18 UNS	3.156 (80.2)	3.125 (79.4)

1. If the specific manufacturer is not known, order symbol A and corresponding dash number, for MS universal fit.
2. Symbol A mates with all connectors for each shell size.
3. Additional transition adapters may be supplied with symbol A for each shell size, as noted.



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Non-Standard Connector Reference Data

The following is a partial listing of non-standard circular connectors for which many backshell product series can be provided. Simply use the indicated Connector Designator in the part number development and include the applicable modification code as a suffix to the part number. Consult factory for connector series or types not listed.

IMPORTANT NOTE: THE MODIFICATION CODES ON THIS PAGE ARE FOR REFERENCE ONLY, AND ARE TO BE USED ONLY AFTER FACTORY AUTHORIZATION HAS BEEN OBTAINED.

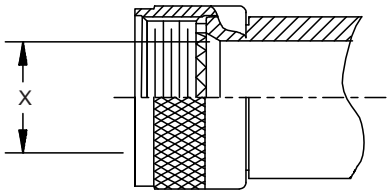
SPECIFICATION	SERIES	CONN. DESIG.	MODIFICATION CODE
MIL-DTL-5015	MS3100 Series A Endbell	B	705
MIL-DTL-5015	MIL-C-5015 Rev. E	X	730
MIL-C-12520	UW	D	720
MIL-DTL-26482	MS3124	D	717
MIL-DTL-26482	MS3110	D	729
MIL-C-26500	Stainless Steel	E	710
MIL-C-38999 (III)	D38999/29, D38999/30	H	701
MIL-C-38999 (IV)	D38999/44	H	715
MIL-C-55116	U228, U229, etc.	X	709C
MIL-C-81582	M81582/1	X	719
MIL-C-81703 (I)	MS3132, MS3134, MS3137, etc.	X	706
MIL-C-81703 (II)	MS3140, MS3147, etc.	X	706B

SPECIFICATION	SERIES	CONN. DESIG.	MODIFICATION CODE
AMP, Inc.	CPC	X	700A
	Metal Shell CPC Plugs	X	700P
	Metal Shell CPC Receptacles	X	700R
Amphenol Products	67-06J	X	708
	164	X	709C
	246	X	704
	67 Minnie	X	724
Amphenol/Bendix	JTL07RE	F	716
Amphenol/Pyle National	ZZM (Star-Line)	X	721
Deutsch	DM	X	706
	DSM, RSM, RMK, SMK	X	706A
	DA, DD, DS, MDR, MDS	X	706B
	DTK	X	706C
	RTK, STK	X	706D
Elco Corp.	U-185/G	X	709B
FCI/Burndy	G Series Trim Trio GO, 1, 6, 8 & 9	D	722
FCI/Souriau et Cie	841, 842	X	712
Flight Connector	FC	X	703
	FZH6K	X	713
General Connector	U-290/U	X	709
	U-393/U	X	709A
Microdot	Marc 43, 53, 63	X	702

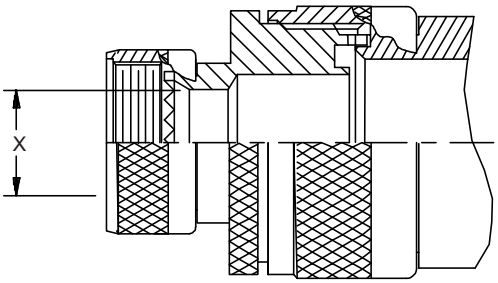
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Style 1 and Style 2 Backshells

It is a simple fact that the front end of the backshell must fit the rear end of the connector shell. Likewise the rear end of the backshell must be large enough to accept the cable or wire bundle. When the target connector selected for an application is small, but the cable entry diameter selected is large, then a style 2 design (shown below) will automatically be produced by the factory. The stepped design of the Style 2 accomodates large shielded cables terminated to small connectors.



STYLE 1



STYLE 2

Maximum Cable/Wire Bundle
X Diameter for Style 1 Backshells With Rotatable Coupling

SHELL SIZE	X DIAMETER CONNECTOR DESIGNATOR A	F	G	H	J	L	S
03	.260 (6.6)						
08/09	.260 (6.6)	.264 (6.7)		.299 (7.6)	.446 (11.3)	.299 (7.6)	.312 (7.9)
10/11	.365 (9.3)	.392 (10.0)	.367 (9.3)	.427 (10.8)	.571 (14.5)	.427 (10.8)	.429 (10.9)
12/13	.501 (12.7)	.506 (12.9)	.502 (12.8)	.541 (13.7)		.541 (13.7)	.554 (14.1)
14/15	.575 (14.6)	.631 (16.0)	.647 (16.4)	.666 (16.9)	.821 (20.9)	.641 (16.3)	.668 (17.0)
16/17	.700 (17.8)	.756 (19.2)	.744 (18.9)	.791 (20.1)	.946 (24.0)	.766 (19.5)	.793 (20.1)
18/19	.780 (19.8)	.845 (21.5)	.876 (22.3)	.897 (22.8)	1.071 (27.2)	.885 (22.5)	.888 (22.6)
20/21	.904 (23.0)	.970 (24.6)		1.022 (26.0)	1.196 (30.4)	.980 (24.9)	1.025 (26.0)
22/23	1.030 (26.2)	1.095 (27.8)	1.073 (27.3)	1.147 (29.1)	1.321 (33.6)	1.165 (29.6)	1.150 (29.2)
24/25	1.144 (29.1)	1.220 (31.0)	1.205 (30.6)	1.272 (32.3)	1.446 (36.7)	1.230 (31.2)	1.275 (32.4)
28/29	1.380 (35.1)		1.442 (36.6)				
32/33	1.625 (41.3)		1.640 (41.7)				
36	1.840 (46.7)						
40	2.055 (52.2)						
44	2.310 (58.7)						
48	2.560 (65.0)						
61	1.184 (30.1)						

The F and H Dimensions in the above table are applicable only to environmental sealed connectors

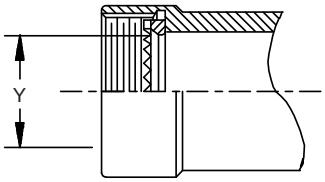
Metric dimensions (mm) are indicated in parentheses

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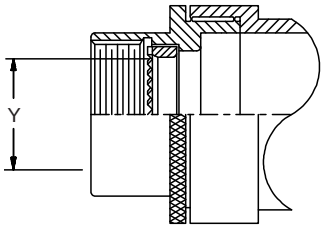
Glenair®

Style 1/Style 2 Backshells General Information and Direct Coupling "Y" Diameters

Maximum Cable/Wire Bundle Y Diameter for For Style 1 Backshells With Direct Coupling



STYLE 1



STYLE 2

Y DIAMETER

SHELL SIZE	CONNECTOR DESIGNATOR A	C	D	E	F
03	.43 (10.9)				
08	.36 (9.1)		.30 (7.6)	.34 (8.6)	.30 (7.6)
10	.49 (12.4)		.42 (10.7)	.43 (10.9)	.43 (10.9)
12	.61 (15.5)	.610 (15.44)	.55 (14.0)	.59 (15.0)	.55 (14.0)
14	.74 (18.8)	.736 (18.69)	.68 (17.3)	.68 (17.3)	.68 (17.3)
16	.86 (21.8)	.855 (21.71)	.80 (20.3)	.78 (19.8)	.80 (20.3)
18	.93 (23.6)	.980 (24.89)	.93 (23.1)	.91 (23.6)	.93 (23.6)
20	1.05 (26.7)	1.105 (28.06)	1.05 (26.7)	1.04 (26.4)	1.05 (26.7)
22	1.18 (30.0)	1.230 (31.24)	1.18 (30.0)	1.17 (29.7)	1.18 (30.0)
24	1.30 (33.0)	1.480 (37.59)	1.30 (33.0)	1.29 (32.8)	1.30 (33.0)
28	1.61 (40.9)	1.723 (43.76)			
32	1.86 (47.2)	1.910 (48.51)			
36	2.11 (53.6)	2.160 (54.86)			
40	2.36 (59.9)	2.470 (62.74)			
44	2.61 (66.3)	2.780 (70.61)			
48	2.86 (72.6)	2.870 (72.89)			
61	1.30 (33.0)				

Y DIAMETER

SHELL SIZE	CONNECTOR DESIGNATOR H	J	K	L	S
08		.46 (11.7)	.24 (6.1)	.30 (7.6)	.30 (7.6)
09	.30 (7.6)				
10		.59 (15.0)	.30 (7.6)	.43 (10.9)	.43 (10.9)
11	.43 (10.9)		.39 (9.9)		
12			.40 (10.2)	.55 (14.0)	.55 (14.0)
13	.55 (14.0)		.40 (10.2)		
14		.84 (21.3)	.48 (12.2)	.68 (17.3)	.68 (17.3)
15	.68 (17.3)		.48 (12.2)		
16		.96 (24.4)	.60 (15.2)	.80 (20.3)	.80 (20.3)
17	.80 (20.3)		.60 (15.2)		
18		1.09 (27.7)	.72 (18.3)	.93 (23.6)	.93 (23.6)
19	.93 (23.6)				
20		1.21 (30.7)	.86 (21.8)	1.05 (26.7)	1.05 (26.7)
21	1.05 (26.7)				
22		1.34 (34.0)	.97 (24.6)	1.18 (30.0)	1.18 (30.0)
23	1.18 (30.0)				
24		1.46 (37.1)	1.08 (27.4)	1.30 (33.0)	1.30 (33.0)
25	1.30 (33.0)				
28			1.24 (31.5)		
32			1.51 (38.4)		
36			1.75 (44.5)		
40			1.86 (47.2)		

Y DIAMETER

DASH NO.	CONN. DESIGN. B
01	.32 (8.1)
02	.32 (8.1)
03	.27 (6.9)
04	.32 (8.1)
05	.40 (10.2)
06	.40 (10.2)
07	.44 (11.2)
08	.44 (11.2)
09	.44 (11.2)
10	.49 (12.4)
11	.49 (12.4)
12	.49 (12.4)
13	.49 (12.4)
14	.62 (15.7)
15	.74 (18.8)
16	.87 (22.1)
17	.99 (25.1)
18	.99 (25.1)
20	1.12 (28.4)
21	1.28 (32.5)
22	1.49 (37.8)
23	1.74 (44.2)
24	1.74 (44.2)
25	1.74 (44.2)
26	1.86 (47.2)
27	1.86 (47.2)
28	1.93 (49.0)
30	1.93 (49.0)
31	2.18 (55.4)
32	2.18 (55.4)
33	2.18 (55.4)
34	2.49 (63.2)
35	2.74 (69.6)
36	2.74 (69.6)
37	2.62 (66.5)

Metric dimensions (mm) are indicated in parentheses

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The following is a listing of circular connectors defined by US Military Specifications, cross-referenced to the applicable active or inactive part number series. The symbols in the Connector Designator column are an essential element in Glenair's backshell part number developments.

PART NO.	CONN. DESIG.	SPECIFICATION	SERIES	DESCRIPTION
MS3100	B	MIL-C-5015	MS3100	Receptacle, Wall Mtg (Solder)
MS3101	B	MIL-C-5015	MS3100	Receptacle
MS3102	**	MIL-C-5015	MS3100	Receptacle, Box Mtg (Solder)
MS3103	**	MIL-C-5015	MS3100	Receptacle, Potting (Solder)
MS3105	**	MIL-C-5015	MS3100	Dummy Receptacle
MS3106	B	MIL-C-5015	MS3100	Plug, Straight (Solder)
MS3107	B	MIL-C-5015	MS3100	Plug, Quick Disconnect (Solder)
MS3108	B	MIL-C-5015	MS3100	Plug, 90° (Solder)
MS3110	D-729	MIL-C-26482	1	Receptacle, Wall Mtg
MS3111	D	MIL-C-26482	1	Plug, Cable Connecting
MS3112	**	MIL-C-26482	1	Receptacle, Box Mtg
MS3113	**	MIL-C-26482	1	Receptacle, Solder Mtg
MS3114	D-717	MIL-C-26482	1	Receptacle, Jam Nut
MS3115	**	MIL-C-26482	1-2	Dummy Receptacle
MS3116	D	MIL-C-26482	1	Plug, Straight
MS3119	**	MIL-C-26482	1	Receptacle, Thru-Bulkhead
MS3120	D	MIL-C-26482	1	Receptacle, Wall Mtg, (Crimp)
MS3121	D	MIL-C-26482	1	Plug, Straight (Crimp)
MS3122	**	MIL-C-26482	1	Receptacle, Box Mtg, (Crimp)
MS3124	D-717	MIL-C-26482	1	Receptacle, Rear Mtg, Jam Nut (Crimp)
MS3126	D	MIL-C-26482	1	Plug, Straight (Crimp)
MS3127	**	MIL-C-26482	1	Receptacle, Box Mtg (Crimp)
MS3128	D	MIL-C-26482	1	Receptacle, Wall Mtg (Crimp)
MS3130	*	MIL-C-81703	1	Receptacle, Push Pull, Wide Flange
MS3132	X-706	MIL-C-81703	1	Receptacle, Push Pull, Box Mtg
MS3134	X-706	MIL-C-81703	1	Receptacle, Push Pull, Jam Nut
MS3135	**	MIL-C-81703	1	Dummy Receptacle
MS3137	X-706	MIL-C-81703	1	Plug, Straight, Push Pull
MS3138	X-706	MIL-C-81703	1	Plug, Lanyard, Push Pull
MS3139	**	MIL-C-81703	1	Receptacle, Thru-Bulkhead
MS3140	X-706B	MIL-C-81703	2	Receptacle, Push Pull, Wall Mtg
MS3142	**	MIL-C-5015	MS3100	Receptacle, Hermetic, Box Mtg
MS3143	**	MIL-C-5015	MS3100	Receptacle, Hermetic, Solder Mtg
MS3144	X-706B	MIL-C-81703	2	Receptacle, Push Pull, Jam Nut
MS3145	**	MIL-C-81703	3	Receptacle, Hermetic, Push Pull, Box Mtg
MS3146	**	MIL-C-81703	3	Receptacle, Push Pull, Hermetic, Solder Mtg
MS3147	X-706B	MIL-C-81703	2	Plug, Push Pull (Crimp)
MS3148	X-706B	MIL-C-81703	2	Plug, Push Pull, Lanyard (Crimp)
MS3149	**	MIL-C-81703	3	Receptacle, Push Pull, Hermetic
MS3400	A	MIL-C-5015	MS3400	Receptacle, Wall Mtg

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PART NO.	CONN. DESIG.	SPECIFICATION	SERIES	DESCRIPTION
MS3401	A	MIL-C-5015	MS3400	Receptacle, Cable Connecting
MS3402	**	MIL-C-5015	MS3400	Receptacle,,Box Mtg
MS3404	A	MIL-C-5015	MS3400	Receptacle, Jam Nut
MS3406	A	MIL-C-5015	MS3400	Plug
MS3408	A	MIL-C-5015	MS3400	Plug, 90°
MS3409	A	MIL-C-5015	MS3400	Plug, 45°
MS3412	A	MIL-C-5015	MS3400	Receptacle, Wall Mtg
MS3424	A	MIL-C-81703	3	Receptacle, Push Pull, Wall Mtg
MS3440	**	MIL-C-26482	2	Receptacle, Narrow Flange Mtg (was M83723/9/10)
MS3442	**	MIL-C-26482	2	Receptacle, Wide Flange Mtg
MS3443	**	MIL-C-26482	2	Receptacle, Solder Flange Mtg
MS3445	*	MIL-C-81703	2	Plug, Push Pull, Rack & Panel Mtg
MS3446	A	MIL-C-81703	3	Plug, Rack & Panel
MS3449	**	MIL-C-26482	2	Receptacle, Single Hole Mtg
MS3450	A	MIL-C-5015	MS3450	Receptacle, Wall Mtg (was M83723/19/20)
MS3451	A	MIL-C-5015	MS3450	Receptacle, Cable Connecting (was M83723/17/18)
MS3452	**	MIL-C-5015	MS3450	Receptacle, Box Mtg (was M83723/21/22)
MS3454	A	MIL-C-5015	MS3450	Receptacle, Jam Nut
MS3456	A	MIL-C-5015	MS3450	Plug, Straight (was M83723/23/24)
MS3459	A	MIL-C-5015	MS3450	Plug, Straight, Self Locking (was M83723/52/53)
MS3463	**	MIL-C-81703	3	Receptacle, Push Pull
MS3464	A	MIL-C-81703	3	Receptacle, Push Pull, Jam Nut
MS3466	**	MIL-C-81703	3	Receptacle, Push Pull, Hermetic
MS3467	A	MIL-C-81703	3	Plug, Push Pull
MS3468	A	MIL-C-81703	3	Plug, Push Pull, Lanyard
MS3469	**	MIL-C-81703	3	Receptacle, Push Pull, Hermetic, Jam Nut
MS3470	A	MIL-C-26482	2	Receptacle, Narrow Flange Mtg (was M83723/1/2)
MS3471	A	MIL-C-26482	2	Receptacle, Cable Connecting (was M83723/7/8)
MS3472	A	MIL-C-26482	2	Receptacle, Wide Flange Mtg (was M83723/3/4)
MS3473	**	MIL-C-26482	2	Receptacle, Solder Mtg, Hermetic
MS3474	A	MIL-C-26482	2	Receptacle, Rear Mtg, Jam Nut (was M83723/5/6)
MS3475	A	MIL-C-26482	2	Plug, RFI Shielded (was M83723/42/43)
MS3476	A	MIL-C-26482	2	Plug, Straight (was M83723/13/14)
MS3477	**	MIL-C-26482	2	Receptacle Hermetic, Box Mtg
MS3479	**	MIL-C-26482	2	Receptacle, Hermetic, Rear Mtg, Jam Nut
MS17343	C	MIL-C-22992	R	Receptacle, Wall Mtg
MS17344	C	MIL-C-22992	R	Plug, Straight
MS17345	C	MIL-C-22992	R	Plug, Cable Connecting
MS17346	C	MIL-C-22992	R	Receptacle, Box Mtg
MS17347	C	MIL-C-22992	R	Receptacle, Jam Nut
MS17348	**	MIL-C-22992	R	Receptacle, Jam Nut, Box Mtg
MS18062	**	MIL-C-22992	R	Dummy Receptacle
MS20026	*	MIL-C-27599		Receptacle, Wall Mtg, Solder
MS20027	*	MIL-C-27599		Receptacle, Line
MS20028	*	MIL-C-27599		Plug, Straight
MS20029	**	MIL-C-27599		Receptacle, Jam Nut Mtg
MS20030	*	MIL-C-27599		Receptacle, Box Mtg, Hermetic

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PART NO.	CONN. DESIG.	SPECIFICATION	SERIES	DESCRIPTION
MS20031	**	MIL-C-27599		Receptacle, Jam Nut, Hermetic
MS20032	**	MIL-C-27599		Receptacle, Solder Mtg, Hermetic
MS20034	*	MIL-C-27599		Receptacle, Wall Mtg
MS20035	*	MIL-C-27599		Receptacle, Box Mtg
MS24264	E	MIL-C-26500	F, G & R	Receptacle, Flange Mtg
MS24265	E	MIL-C-26500	F, G & R	Receptacle, Single Hole Mtg
MS24266	E	MIL-C-26500	F, G & R	Plug, Straight
MS25183	**	MIL-C-5015	MS3100	Plug, Potting Seal
MS27034	**	MIL-C-26500		Receptacle, Hermetic, Solder Mtg
MS27334	*	MIL-C-27599		Receptacle, Wall Mtg
MS27335	**	MIL-C-27599		Receptacle, Box Mtg
MS27336	*	MIL-C-27599		Plug, Straight
MS27337	*	MIL-C-27599		Receptacle, Jam Nut
MS27338	*	MIL-C-27599		Receptacle, Wall Mtg, Hermetic
MS27339	**	MIL-C-27599		Receptacle, Box Mtg, Hermetic
MS27340	**	MIL-C-27599		Receptacle, Jam Nut Mtg, Hermetic
MS27341	**	MIL-C-27599		Receptacle, Solder Mtg, Hermetic
MS27466	F	MIL-C-38999	I	Receptacle, Wall Mtg
MS27467	F	MIL-C-38999	I	Plug, Straight
MS27468	F	MIL-C-38999	I	Receptacle, Jam Nut
MS27469	**	MIL-C-38999	I	Receptacle, Wall Mtg, Hermetic
MS27470	**	MIL-C-38999	I	Receptacle, Jam Nut, Hermetic
MS27471	**	MIL-C-38999	I	Receptacle, Solder Mtg, Hermetic
MS27472	F	MIL-C-38999	II	Receptacle, Wall Mtg
MS27473	F	MIL-C-38999	II	Plug, Straight
MS27474	F	MIL-C-38999	II	Receptacle, Jam Nut
MS27475	F	MIL-C-38999	II	Receptacle, Wall Mtg
MS27476	**	MIL-C-38999	II	Receptacle, Box Mtg, Hermetic
MS27477	**	MIL-C-38999	II	Receptacle, Jam Nut, Hermetic
MS27478	**	MIL-C-38999	II	Receptacle, Solder Mtg, Hermetic
MS27479	F	MIL-C-38999	II	Inactive Use MS27472
MS27480	F	MIL-C-38999	II	Inactive Use MS27473
MS27481	F	MIL-C-38999	II	Inactive Use MS27474
MS27482	F	MIL-C-38999	II	Inactive Use MS27475
MS27483	**	MIL-C-38999	II	Inactive Use MS27477
MS27484P	**	MIL-C-38999	II	Plug, Straight
MS27484T	F	MIL-C-38999	II	Plug, Straight
MS27496	**	MIL-C-38999	I	Receptacle, Box Mtg
MS27497	F	MIL-C-38999	II	Receptacle, Back Panel Wall Mtg
MS27498	F	MIL-C-38999	I	Plug, 90°
MS27499	**	MIL-C-38999	II	Receptacle, Box Mtg
MS27500	F	MIL-C-38999	II	Inactive See MS27473
MS27503	**	MIL-C-38999	II	Inactive See MS27478
MS27504	**	MIL-C-38999	II	Inactive See MS27499
MS27505	**	MIL-C-38999	I	Receptacle, Back Panel Box Mtg
MS27508	**	MIL-C-38999	II	Receptacle, Back Panel Box Mtg
MS27513	**	MIL-C-38999	II	Receptacle, Box Mtg

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PART NO.	CONN. DESIG.	SPECIFICATION	SERIES	DESCRIPTION
MS27515	F	MIL-C-38999	I	Inactive Use MS27656
MS27613	E-710	MIL-C-26500K		Receptacle, Panel Mtg
MS27614	E-710	MIL-C-26500K		Receptacle, D-Hole Mtg
MS27615	E-710	MIL-C-26500K		Plug, Straight
MS27652	F	MIL-C-38999	I	Inactive Use MS27466
MS27653	F	MIL-C-38999	I	Inactive Use MS27467
MS27654	F	MIL-C-38999	I	Inactive Use MS27656
MS27656	F	MIL-C-38999	I	Receptacle, Back Panel, Wall Mtg
MS27661	F-752	MIL-C-38999	I	Plug, Lanyard Release
MS27662	**	MIL-C-38999	I	Receptacle, Thru-Bulkhead
MS27664	**	MIL-C-38999	II	Receptacle, Back-Panel Wall Mtg
MS27665	F	MIL-C-38999	I	Plug, Rack & Panel Mtg
MS27667	**	MIL-C-38999	II	Receptacle, Thru-Bulkhead
MS90555	*	MIL-C-22992	L	Receptacle, Wall Mtg
MS90556	*	MIL-C-22992	L	Plug, Straight
MS90557	*	MIL-C-22992	L	Plug, Cable Connecting
MS90558	*	MIL-C-22992	L	Receptacle, W/Coupling Ring, Wall Mtg
M28840/10	G	MIL-C-28840		Receptacle, Wall Mtg
M28840/11	G	MIL-C-28840		Receptacle, Cable Connecting
M28840/12	**	MIL-C-28840		Receptacle, Box Mtg
M28840/14	G	MIL-C-28840		Receptacle, Jam Nut
M28840/16	G	MIL-C-28840		Plug, Straight
D38999/20	H	MIL-C-38999	III	Receptacle, Wall Mtg
D38999/21	**	MIL-C-38999	III	Receptacle, Hermetic
D38999/23	**	MIL-C-38999	III	Receptacle, Hermetic, Jam Nut
D38999/24	H	MIL-C-38999	III	Receptacle, Jam Nut
D38999/25	**	MIL-C-38999	III	Receptacle, Hermetic, Solder Mtg
D38999/26	H	MIL-C-38999	III	Plug, Straight
D38999/27	**	MIL-C-38999	III	Receptacle, Hermetic, Weld Mtg
D38999/29	H-701	MIL-C-38999	III	Plug, Lanyard Release
D38999/30	H-701	MIL-C-38999	III	Plug, Lanyard Release
D38999/40	H	MIL-C-38999	IV	Receptacle, Wall Mtg
D38999/42	H	MIL-C-38999	IV	Receptacle, Box Mtg
D38999/44	H-715	MIL-C-38999	IV	Receptacle, Jam Nut
D38999/46	H	MIL-C-38999	IV	Plug, Straight, EMI
D38999/47	H	MIL-C-38999	IV	Plug, Straight
M81511/1	J	MIL-C-81511	2	Receptacle, Flange Mtg
M81511/2	**	MIL-C-81511	2	Receptacle, Solder Flange
M81511/3	J	MIL-C-81511	2	Receptacle, Jam Nut
M81511/4	**	MIL-C-81511	2	Receptacle, Jam Nut
M81511/5	J	MIL-C-81511	2	Plug, Cable Connecting
M81511/6	J	MIL-C-81511	2	Plug
M81511/21	J	MIL-C-81511	1	Receptacle, Flange Mtg
M81511/22	**	MIL-C-81511	1	Receptacle, Solder Flange Mtg
M81511/23	J	MIL-C-81511	1	Receptacle, Jam Nut
M81511/24	**	MIL-C-81511	1	Receptacle, Jam Nut
M81511/25	J	MIL-C-81511	1	Receptacle, Cable Connecting

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PART NO.	CONN. DESIG.	SPECIFICATION	SERIES	DESCRIPTION
M81511/26	J	MIL-C-81511	1	Plug
M81511/27	**	MIL-C-81511	1	Receptacle Thru-Bulkhead, Jam Nut
M81511/28	**	MIL-C-81511	2	Receptacle, Thru-Bulkhead, Single Hole Mtg
M81511/31	J	MIL-C-81511	2	Receptacle, Flange Mtg
M81511/32	J	MIL-C-81511	2	Receptacle, Jam Nut Mtg
M81511/33	J	MIL-C-81511	2	Recepacle,Cable Connecting
M81511/34	J	MIL-C-81511	2	Plug
M81511/35	J	MIL-C-81511	1	Receptacle, Flange Mtg
M81511/36	J	MIL-C-81511	1	Receptacle, Jam Nut
M81511/37	J	MIL-C-81511	1	Receptacle, Cable Connecting
M81511/38	J	MIL-C-81511	1	Plug
M81511/41	J	MIL-C-81511	3	Receptacle, Flange Mtg
M81511/42	**	MIL-C-81511	3	Receptacle, Solder Flange Mtg
M81511/44	**	MIL-C-81511	3	Receptacle, Jam Nut
M81511/45	J	MIL-C-81511	3	Receptacle, Cable Connecting
M81511/46	J	MIL-C-81511	3	Plug
M81511/47	**	MIL-C-81511	3	Receptacle, Solder Flange Mtg
M81511/48	**	MIL-C-81511	3	Receptacle, Jam Nut
M81511/49	J	MIL-C-81511	3	Receptacle, Jam Nut
M81511/50	**	MIL-C-81511	4	Receptacle, Jam Nut
M81511/51	J	MIL-C-81511	4	Receptacle, Flange Mtg
M81511/52	**	MIL-C-81511	4	Receptacle, Solder Flange Mtg
M81511/53	J	MIL-C-81511	4	Receptacle, Jam Nut
M81511/54	**	MIL-C-81511	4	Receptacle, Jam Nut
M81511/55	J	MIL-C-81511	4	Receptacle, Cable Connecting
M81511/56	J	MIL-C-81511	4	Plug
M81511/57	**	MIL-C-81511	4	Receptacle, Solder Flange Mtg
M81582/1	*	MIL-C-81582		Receptacle, Single Hole Mtg
M81582/2	*	MIL-C-81582		Plug, Lanyard Release
M83723/1	A	MIL-C-83723	I	Superseded by MS3470
M83723/2	A	MIL-C-83723	I	Superseded by MS3470
M83723/3	A	MIL-C-83723	I	Superseded by MS3472
M83723/4	A	MIL-C-83723	I	Superseded by MS3472
M83723/5	A	MIL-C-83723	I	Superseded by MS3474
M83723/6	A	MIL-C-83723	I	Superseded by MS3474
M83723/7	A	MIL-C-83723	I	Superseded by MS3471
M83723/8	A	MIL-C-83723	I	Superseded by MS3471
M83723/9	**	MIL-C-83723	I	Superseded by MS3440
M83723/10	**	MIL-C-83723	I	Superseded by MS3442
M83723/11	**	MIL-C-83723	I	Superseded by MS3443
M83723/12	**	MIL-C-83723	I	Superseded by MS3443
M83723/13	A	MIL-C-83723	I	Superseded by MS3476
M83723/14	A	MIL-C-83723	I	Superseded by MS3476
M83723/17	K	MIL-C-83723	II	Superseded by MS3451
M83723/18	K	MIL-C-83723	II	Superseded by MS3451
M83723/19	K	MIL-C-83723	II	Superseded by MS3450
M83723/20	K	MIL-C-83723	II	Superseded by MS3450

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PART NO.	CONN. DESIG.	SPECIFICATION	SERIES	DESCRIPTION
M83723/21	**	MIL-C-83723	II	Superseded by MS3452
M83723/22	**	MIL-C-83723	II	Superseded by MS3452
M83723/23	K	MIL-C-83723	II	Superseded by MS3456
M83723/24	K	MIL-C-83723	II	Superseded by MS3456
M83723/25	**	MIL-C-83723	II	Superseded by MS3142
M83723/26	**	MIL-C-83723	II	Superseded by MS3143
M83723/36	A	MIL-C-83723	I	Inactive For New Design
M83723/37	A	MIL-C-83723	I	Inactive For New Design
M83723/38	A	MIL-C-83723	I	Inactive For New Design
M83723/39	A	MIL-C-83723	I	Inactive For New Design
M83723/40	A	MIL-C-83723	I	Inactive For New Design
M83723/41	A	MIL-C-83723	I	Inactive For New Design
M83723/42	A	MIL-C-83723	I	Superseded by MS3475
M83723/43	A	MIL-C-83723	I	Superseded by MS3475
M83723/45	**	MIL-C-83723	I	Superseded by MS3115
M83723/48	A	MIL-C-83723	I	Inactive For New Design
M83723/49	A	MIL-C-83723	I	Inactive For New Design
M83723/52	K	MIL-C-83723	II	Superseded by MS3459
M83723/53	K	MIL-C-83723	II	Superseded by MS3459
M83723/66	A	MIL-C-83723	III	Plug, Push Pull (Pin Contacts)
M83723/67	A	MIL-C-83723	III	Plug, Push Pull (Socket Contacts)
M83723/68	A	MIL-C-83723	III	Plug, Push Pull Lanyard, (Pin Contacts)
M83723/69	A	MIL-C-83723	III	Plug, Push Pull, Lanyard, (Socket Contacts)
M83723/71	A	MIL-C-83723	III	Receptacle, Bayonet, Flange Mtg, (Socket Contact)
M83723/72	A	MIL-C-83723	III	Receptacle, Bayonet, Flange Mtg, (Pin Contact)
M83723/73	A	MIL-C-83723	III	Receptacle, Bayonet, Single Hole Mtg, (Socket Contact)
M83723/74	A	MIL-C-83723	III	Receptacle, Bayonet Single Mtg, (Pin Contact)
M83723/75	A	MIL-C-83723	III	Plug, Bayonet (Socket Contact)
M83723/76	A	MIL-C-83723	III	Plug, Bayonet (Pin Contact)
M83723/77	A	MIL-C-83723	III	Plug, Bayonet, RFI (Socket Contact)
M83723/78	A	MIL-C-83723	III	Plug, Bayonet, RFI (Pin Contact)
M83723/79	**	MIL-C-83723	III	Receptacle, Bayonet Flange Mtg, Hermetic
M83723/80	**	MIL-C-83723	III	Receptacle, Bayonet Solder Flange Mtg, Hermetic
M83723/81	**	MIL-C-83723	III	Receptacle, Bayonet Single Hole Mtg, Hermetic
M83723/82	A	MIL-C-83723	III	Receptacle, Threaded, Flange Mtg, (Socket Contact)
M83723/83	A	MIL-C-83723	III	Receptacle, Threaded, Flange Mtg, (Pin Contact)
M83723/84	A	MIL-C-83723	III	Receptacle, Threaded Single Hole Mtg, (Socket Contact)
M83723/85	A	MIL-C-83723	III	Receptacle, Threaded Single Hole Mtg, (Pin Contact)
M83723/86	A	MIL-C-83723	III	Plug, Threaded, (Socket Contact)
M83723/87	A	MIL-C-83723	III	Plug, Threaded, (Pin Contact)
M83723/88	**	MIL-C-83723	III	Receptacle, Threaded, Flange Mtg, (Pin Contact)
M83723/89	**	MIL-C-83723	III	Receptacle, Threaded, Single Hole Mtg, Hermetic
M83723/90	**	MIL-C-83723	III	Receptacle, Threaded, Solder Flange Mtg, Hermetic
M83723/91	A	MIL-C-83723	III	Plug, Threaded, RFI (Socket Contact)
M83723/92	A	MIL-C-83723	III	Plug, Threaded, RFI (Pin Contact)
M83723/93	**	MIL-C-83723	III	Receptacle, Bayonet, Solder Flange Mtg, Hermetic
M83723/94	**	MIL-C-83723	III	Receptacle, Bayonet, Single Hole Mtg, Hermetic

* Consult factory

** Connector does not accommodate rear accessories

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Military Standard Connector Index

PART NO.	CONN. DESIG.	SPECIFICATION	SERIES	DESCRIPTION
M83723/95	A	MIL-C-83723	III	Plug, Threaded, (Socket Contact), Self Locking
M83723/96	A	MIL-C-83723	III	Plug, Threaded, (Pin Contact), Self Locking
M83723/97	A	MIL-C-83723	III	Plug, Threaded, RFI (Socket Contact), Self Locking
M83723/98	A	MIL-C-83723	III	Plug, Threaded, RFI (Pin Contact), Self Locking
NATC00	H*	SSQ21635		Receptacle, Flange
NATC06	H*	SSQ21635		Plug
NATC07	H*	SSQ21635		Receptacle, Jam Nut
NATC09	***	SSQ21635		Receptacle, Weld Mtg
NATC77	***	SSQ21635		Receptacle, Jam Nut
NATC99	***	SSQ21635		Receptacle, Weld Mtg
NBO	A	40M39569		Receptacle, Flange Mtg
NBOH	**	40M39569		Receptacle, Hermetic
NB3H	**	40M39569		Receptacle, Hermetic
NB4	A	40M39569		Receptacle, Flange Mtg
NB5H	**	40M39569		Thru-Bulkhead, Hermetic
NB6	A	40M39569		Plug, Straight
NB6G	A	40M39569		Plug, Straight,EMI
NB7	A	40M39569		Receptacle, Jam Nut
NB7H	**	40M39569		Receptacle, Hermetic
NB8H	**	40M39569		Receptacle, Hermetic
NLSO	F	40M38277		Receptacle, Flange Mtg
NLS3H	**	40M38277		Receptacle, Hermetic
NLS6	F	40M38277		Plug, Straight
NLS6G	F	40M38277		Plug, Straight, EMI
NLS7	F	40M38277		Receptacle, Jam Nut
NLS7H	**	40M38277		Receptacle, Jam Nut
NZGL00	H**	SSQ21635		Receptacle, Flange
NZGL03	***	SSQ21635		Receptacle, Lever
NZGL06	H**	SSQ21635		Plug
NZGL07	H**	SSQ21635		Receptacle, Weld Mtg
NZGL09	***	SSQ21635		Receptacle, Weld Mtg
NZGL66	H**	SSQ21635		Plug
NZGL77	***	SSQ21635		Receptacle, Jam Nut
NZGL99	***	SSQ21635		Receptacle, Weld Mtg

* Consult factory
** Connector does not accommodate rear accessories
H* NATC Series size 09 through 25 mates to Glenair Connector Designator H, consult factory for sizes 33 & 37
H** NZGL Series requires special accessories manufactured by Glenair, consult factory
*** Connector noted does not have accessory thread. (NZGL and NATC hermetic/control leakage classes.)

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Connector-Backshell Interface Index

The following are lists of specifications and associated connector manufacturers' part number series with common rear accessory interfaces. These listings do not imply qualification status of the manufacturers indicated for each specification series. The listings are for the purpose of identification of common interface data under the applicable Connector Designator symbol, an essential element used in Glenair's accessory part number developments.

For connector manufacturers' part number series not shown in these listings, please consult factory for applicable accessory part numbers.

CONN. DESIG.	SPECIFICATION	CONNECTOR MANUFACTURER	MANUFACTURER SERIES
A	MIL-DTL-5015 MS3400 MS3450	Aero-Electric Connector Flight Connector J-Tech ITT Cannon	AE55 FF JT 3400 / JT3450 CV340 / CV345
	MIL-DTL-26482 Series II	Aero-Electric Connector Amphenol Deutsch ECD Souriau ITT Cannon	AE77 PTS-DR / 91-483 / 118 AFD5 8526 PV7
	MIL-C-81703 Series III	Deutsch ECD	DBA5 / D817
	MIL-DTL-83723 Series I	Amphenol ITT Cannon ITT Cannon UK Limited Deutsch ECD	PTS-DR / 01-483 / 118 PVA PV-S AFD
	MIL-DTL-83723 Series III	Amphenol Products Amphenol/Pyle National Deutsch ECD ITT Cannon Labinal/Cinch	518 B DL6 / 837 MF CN0930
	40M39569	Deutsch ECD ITT Cannon Souriau	DBA / 381 PV-G
	CECC 75201.001	Amphenol-Tuchel	602GB
	DEF 5326-3 ESC10	Amphenol/Pyle National Compagnie Deutsch Souriau Hi-Rel Connectors Inc. ITT Cannon UK Limited Sealtron Inc.	 983 8533

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CONN. DESIG.	SPECIFICATION	CONNECTOR MANUFACTURER	MANUFACTURER SERIES
A	ESC 11	Amphenol/Pyle National	
		Compagnie Deutsch	
		Souriau	8534
	LN 29504	Amphenol Limited	118 / 652
		Amphenol-Tuchel	118 / 652
		Compagnie Deutsch	AFD / DFE / FDBA
		Souriau	8525
		ITT Cannon UK Ltd.	PVW
		ITT Cannon Electric GmbH	PVW
	NFC93422 / HE302	Souriau	8525
	PAN 6432-1	Amphenol Limited	602GB
		Amphenol-Tuchel	602GB
		ITT Cannon UK Ltd.	PVX
		ITT Cannon Electric GmbH	PVX
		Compagnie Deutsch	AFD
		Deutsch Ltd	RR
		Souriau	8526
	PAN 6432-2	Compagnie Deutsch	DBAS
		Deutsch Ltd	DBAS
	PATT 602	Amphenol Limited	602GB
		Amphenol-Tuchel	602GB
		Deutsch Ltd.	RR
		Souriau	8526
		ITT Cannon UK Ltd.	PVX
	VG 95328	Cie Deutsch	951-50
		Compagnie Deutsch	DVG / 951-50
B	MIL-DTL-5015 MS3100	Amphenol	69 / 97 / SC / SM / 10-72 / 10-214 / 71
		ITT Cannon	CA-E/R / CA-RX
C	MIL-C-22992	Amphenol	QWLD
	MS173XX Class C, J, R	ITT Cannon	CWLD
D	MIL-DTL-26482	Amphenol	BG / MF-S / PT / PT-SE
		Burndy	BT / G / L / L-T / M-T
		Deutsch ECD	BTK / LPT / 450 / 460
		ITT Cannon	KPSE / KPT / KPTC
		ITT Cannon	VPT
E	MIL-C-26500	Aero-Electric Connector	AE66
		Amphenol/Pyle National	ZZW / ZZY
		Labinal/Cinch	48
		RMS	RO
		Deutsch E.C.D.	BMS

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Connector-Backshell Interface Index

CONN. DESIG.	SPECIFICATION	CONNECTOR MANUFACTURER	MANUFACTURER SERIES
F	MIL-DTL-38999 Series I	Aero-Electric Connectors	AE46 / AE49
		Amphenol	LJT-R / 418-1
		Souriau	8LT
		ITT Cannon	KJL
	MIL-DTL-38999 Series II	AB Electronics	CT-R
		Aero-Electric Connectors	AE47 / AE48
		Amphenol	JT-R / 418-2
		Souriau	8T
		ITT Cannon	KJ
	40M38277	Amphenol	JT-R / 10-475
		ITT Cannon	KJ
	NFC 93422 HE308	Souriau	8LT
		ITT Cannon Electric France	KJL
	NFC 93422 HE309	Souriau	8T
		ITT Cannon Electric France	KJ
	PAN 6433-1	Amphenol Limited	JT / JTP
		AB Electronics	CT
		Souriau	8T
		ITT Cannon Electric France	KJ
		ITT Cannon UK Ltd.	KJ
		ITT Cannon Electric GmbH	KJ
		ITT Cannon	TT / TTPQ
	PATT 614	Amphenol Limited	418-2
		Souriau	8T
		ITT Cannon UK Ltd.	KJ
		ITT Cannon	TT
	PATT 616	Amphenol Limited	418-1
		Souriau	8LT
		ITT Cannon UK Ltd.	KJL
G	MIL-C-28840	Glenair	90
		G & H Technology	NC
		Hughes Connecting Devices	GTA
		ITT Cannon	KFS
		Sunbank	JSC
H	MIL-DTL-38999 Series III	Aero-Electric Connector	AE22
		Amphenol	TV-R / TVS / TVS-R
		Amphenol/Pyle National	T3
		Deutsch ECD	DTS
		Glenair	66
		Souriau	8D
	MIL-DTL-38999 Series IV	ITT Cannon	KJADIV4
		Deutsch ECD	PL
		Glenair	65
		Flight Connector	BL
	CECC 75201.002	G & H Technology	CNO
		Souriau	JVS
		Amphenol	TVRB

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CONN. DESIG.	SPECIFICATION	CONNECTOR MANUFACTURER	MANUFACTURER SERIES
J	MIL-C-81511 Series I-II	Amphenol	348
	MIL-C-81511 Series III-IV	Cie Deutsch Deutsch ECD	9-815 A815 / B815
	VG 95329	Amphenol Limited Amphenol-Tuchel Compagnie Deutsch Schaltbau GmbH	348 348 9-815 650 / 679
K	MIL-DTL-83723 Series II	Flight Connector ITT Cannon	FHA CVA
L	JN 1003	Amphenol Limited Deutsch Limited Souriau ITT Cannon	SJT HDJ 8ST-034 STT
	LN 29729	Amphenol Limited Souriau ITT Cannon Electric GmbH	SJT 8ST CGK
	NFC 93422, HE 306	Souriau	8ST
	PAN 6433-2	Amphenol Limited SouriauI ITT Cannon	SJT 8ST STT
	PATT 615	Amphenol Limited Souriau ITT Cannon	SJT 8ST STT
	VG 96912	Amphenol Limited ITT Cannon Electric GmbH Souriau ITT Cannon	SJT CGK 8ST STT
M	"Mighty Mouse"	Glenair	80
S	PATT 105	Amphenol Limited AB Electronics ITT Cannon	62GB MK 8 PT
	PATT 603	Amphenol Limited ITT Cannon UK Ltd. AB Electronics Souriau ITT Cannon	162GB KPSE MK 12 851 PTSE
	PATT 608	AB Electronics	MK 18
W	Geo-Marine®	Glenair	22

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Connector Manufacturers' Index

This index of USA and international connector manufacturers provides a cross-reference of manufacturers' proprietary series designations to applicable specifications. This information does not imply qualification status but serves to indicate that the manufacturers' series is "in conformance with" the noted specifications or documents. The symbols in the Connector Designator column are an essential element in Glenair's accessory part number developments. For connector manufacturers' part number series not shown in these listings, please consult factory for applicable accessory part numbers.

MFG SERIES	CONN. DESIG.	SPECIFICATION REFERENCE	SERIES
Aero-Electric Connector Company			
AE22	H	MIL-DTL-38999	III
AE46	F	MIL-DTL-38999	I
AE47	F	MIL-DTL-38999	II
AE48	F	MIL-DTL-38999	II
AE49	F	MIL-DTL-38999	I
AE55	A	MIL-DTL-5015	MS3400
AE66	E	MIL-DTL-26500	Aluminum
AE77	A	MIL-DTL-26482	II
AE83	A	MIL-DTL-83723	III
AB Electronics			
CT-R	F	MIL-DTL-38999	II
MK 8	S	PATT 105	
MK 12	S	PATT 603	
MK 18	S	PATT 608	
Amphenol Limited			
JT	F	PAN 6433-1	
SJT	L	JN 1003	
SJT	L	LN29729	
SJT	L	PAN 6433-2	
118	A	LN 29504	
162GB	S	PATT 603	
348	J	VG 95329	
418-1	F	PATT 616	
418-2	F	PATT 614	
418-5	L	NFC 93422	HE 306
418-5	L	PATT 615	
602GB	A	PAN 6432-1	
602GB	A	PATT 602	
62GB	S	PATT 105	
652	A	LN 29504	
Amphenol Products			
BG	D	MIL-DTL-26482	I
JT	*	MIL-C-27599	
JT-R	F	MIL-DTL-38999	II
JT-R	F	40M38277	
LJT	*	MIL-C-27599	
LJT-R	F	MIL-DTL-38999	I
MF-S	D	MIL-DTL-26482	I
PT	D	MIL-DTL-26482	I

MFG SERIES	CONN. DESIG.	SPECIFICATION REFERENCE	SERIES
Amphenol Products (Continued)			
PT-SE	D	MIL-DTL-26482	I
PTS-DR	A	MIL-DTL-26482	II
PTS-DR	A	MIL-DTL-83723	I
QWLD	C	MIL-C-22992	R
SC	B	MIL-DTL-5015	MS3100
SJT	L	LN 29729	
SM	B	MIL-DTL-5015	MS3100
TV	H	MIL-DTL-38999	III
TVRB	H	CECC 75201.002	III
TVS	H	MIL-DTL-38999	III
10-72	B	MIL-DTL-5015	MS3100
10-214	B	MIL-DTL-5015	MS3100
10-475	F	40M38277	
48	E	MIL-DTL-26500	Aluminum
69	B	MIL-DTL-5015	MS3100
97	B	MIL-DTL-5015	MS3100
118	A	MIL-DTL-26482	II
118	A	MIL-DTL-83723	I
246	*	MIL-DTL-5015	
348	J	MIL-C-81511	I-II
418-1	F	MIL-DTL-38999	I
418-2	F	MIL-DTL-38999	II
518	A	MIL-DTL-83723	III
71	B	MIL-DTL-5015	MS3100
91-483	A	MIL-DTL-26482	II
91-483	A	MIL-DTL-83723	I
Amphenol/Pyle National			
B	A	MIL-DTL-83723	III
T3	H	MIL-DTL-38999	III
ZZW	E	MIL-DTL-26500	Aluminum
ZZY	E	MIL-DTL-26500	Aluminum
	A	ESC 10, ESC 11	
Amphenol/Tuchel Electronics GmbH			
118	A	LN 29504	
162GB	*	VG 95328	
348	J	VG 95329	
602GB	A	DEF 5326-3	
602GB	A	PAN 6432-1	
602GB	A	PATT 602	
62GB	*	DEF 5326-3	
652	A	LN 29504	

* Consult factory for backshell part numbers.

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Connector Manufacturers' Index

MFG SERIES	CONN. DESIG.	SPECIFICATION REFERENCE	SERIES
Cie Deutsch & Compagnie Deutsch GmbH			
AFD	A	LN 29504	
AFD	A	MIL-C-26482	I
AFD	A	PAN 6432-1	
DBAS	A	MIL-C-81703	III
DBAS	A	PAN 6432-2	
DFE	A	LN 29504	
DVG	A	VG 95328	
FDBA	A	LN 29504	
951	A	PRL 53125	
9.815	J	MIL-C-81511	III & IV
991	A	PAN 6432-4	
999.1	F	MIL-C-38999	I
	A	ESC 10	
	A	ESC 11	
Deutsch Engineered Connecting Devices			
AFD5	A	MIL-C-26482	II
AFD	A	MIL-C-83723	I
A815	J	MIL-C-81511	III
B815	J	MIL-C-81511	IV
BMS	E	MIL-C-26500	
BTK	D	MIL-C-26482	I
DBA	A	40M39569	
DBA7	A	MIL-C-81703	III
DTS	H	MIL-C-38999	III
DIV4	H	MIL-C-38999	IV
DL6	A	MIL-C-83723	III
D817	A	MIL-C-81703	III
LPT	D	MIL-C-26482	I
381	A	40M39569	
450	D	MIL-C-26482	I
460	D	MIL-C-26482	I
837	A	MIL-C-83723	III
Deutsch Limited			
LL	J	MIL-C-81511	III-IV
DBAS	A	PAN 6432-2	
DTS	H	MIL-C-38999	III
HDJ	L	JN 1003	
RR	A	PAN 6432-1	
RR	A	PATT 602	
RR70	A	MIL-C-81703	III
SLPT	*	MIL-C-26482	I

MFG SERIES	CONN. DESIG.	SPECIFICATION REFERENCE	SERIES
Glenair			
90	G	MIL-C-28840	
80	M	Mighty Mouse	800 Thru 805
22	W	Geo-Marine®	
Souriau			
BT	D	MIL-C-26482	I
G	D	MIL-C-26482	I
L	D	MIL-C-26482	I
L-T	D	MIL-C-26482	I
M-T	D	MIL-C-26482	I
JVS	H	CECC 75201.002	
8LT	F	MIL-C-38999	I
8LT	F	NFC 93422	HE 308
8ST	L	JN 1003	8ST-034
8ST	L	LN 29729	
8ST	L	NFC 93422	HE 306
8ST	L	PAN 6433-2	
8ST	L	PATT 615	
8ST	L	VG 96912	
8T	F	MIL-C-38999	II
8T	F	NFC 93422	HE 309
85	D	MIL-C-26482	I
851	S	PATT 603	
851-50	*	NFL53125	
851-50	*	VG 95328	
8525	A	NFC 93422	HE 302
8525.1	A	LN 29504	
8526	A	MIL-C-26482	II
8526	A	PAN 6432-1	
8526	A	PATT 602	
8533	A	EN 2992	
8533	A	ESC 10	
8534	A	ESC 11	8534
Flight Connector Corporation			
FC	*	MIL-C-5015	
FF	A	MIL-C-5015	MS3400
FH	*	MIL-C-5015	
FHA	K	MIL-C-83723	II
PL	H	MIL-C-38999	IV
G & H Technologies			
BL	H	MIL-C-38999	IV
NC	G	MIL-C-28840	

* Consult factory for backshell part numbers.

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Connector Manufacturers' Index

MFG SERIES	CONN. DESIG.	SPECIFICATION REFERENCE	SERIES
ITT Cannon			
CA3106B	*	VG95234	
CA-E / R	B	MIL-DTL-5015	MS3100
CA-RX	B	MIL-DTL-5015	MS3100
CVA	K	MIL-DTL-83723	II
CV340	A	MIL-DTL-5015	MS3400
CV345	A	MIL-DTL-5015	MS3450
KFS	G	MIL-C-28840	
KJ	F	MIL-DTL-38999	II
KJ	F	40M38277	
KJA	H	MIL-DTL-38999	III
KJL	F	MIL-DTL-38999	I
KPSE	D	MIL-DTL-26482	I
KPT	D	MIL-DTL-26482	I
MF	A	MIL-DTL-83723	III
PV-G	A	40M39569	
PVA	A	MIL-DTL-83723	I
PV7	A	MIL-DTL-26482	II
	A	ESC 10	KE, SE
ITT Cannon Electric France SA			
KJ	F	MIL-DTL-38999	II
KJ	F	PAN 6433-1	
KJL	F	MIL-DTL-38999	I
251	*	MIL-DTL-26482	I
ITT Cannon UK Ltd.			
KJ	F	PATT 614	
KPSE	D	MIL-DTL-26482	I
PV-S	A	MIL-DTL-83723	I
PVW	A	LN29504	
PVX	A	PAN 6432-1	
PVX	A	PATT 602	
	A	ESC 10	KE, SE
ITT Cannon Electric GmbH			
CA3106B	*	VG 95234	
CGK	L	LN 29729	
CWLD	C	MIL-C-22992	R
KJ	F	PAN 6433-1	
KPSE	*	VG 95328	
KPT	*	VG 95328	
PVW	A	LN 29504	
PVX	A	PAN 6432-1	

MFG SERIES	CONN. DESIG.	SPECIFICATION REFERENCE	SERIES
J-Tech			
JT 3400	A	MIL-DTL-5015	MS3400
JT 3450	A	MIL-DTL-5015	MS3450
JTVG95234	A	VG95234	
Labinal/Cinch			
CNO930	A	MIL-DTL-83723	III
48	E	MIL-DTL-26500	Aluminum
RMS			
RO		MIL-DTL-26500	Aluminum
Schaltbau GmbH			
650	J	VG 95329	
674	*	VG 95328	
675	*	VG 95328	
679	J	VG 95329	
SICEM			
SCB	*	VG 95234	
Sunbank			
JSC		MIL-DTL-28840	
ITT Cannon			
TT	F	PAN 6433-1	
PT	S	PATT 105	
PT-SE	S	PATT 603	
STT	L	LN 29729	
STT	L	PAN 6433-2	
STT	L	PATT 615	
STT	L	VG 96912	
ITT VEAM			
CIR	*	VG 95234	
VPT	D	MIL-C-26482	I
VPT-SE	*	MIL-C-26482	I
VPT-SE	*	VG 95328	

* Consult factory for backshell part numbers.

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Connector Series Alpha-Numeric Index

The following alpha-numeric list is provided as a convenience in identifying the various connector manufacturers' proprietary connector series designations applicable to the US and international specifications and documents listed previously. The Glenair Connector Designator is also indicated for each listing.

For complete manufacturer's identity, refer to the preceding listing.

MFG SERIES	CONN. DESIG.	CONNECTOR MANUFACTURER
AE22	H	Aero-Electric Connector
AE46	F	Aero-Electric Connector
AE47	F	Aero-Electric Connector
AE48	F	Aero-Electric Connector
AE49	F	Aero-Electric Connector
AE55	A	Aero-Electric Connector
AE66	E	Aero-Electric Connector
AE77	A	Aero-Electric Connector
AFD	A	Compagnie Deutsch
AFD	A	Deutsch ECD
AFD5	A	Deutsch ECD
A815J	J	Deutsch ECD
B	A	Pyle-National
BG	D	Amphenol
BL	H	G & H Technology
BT	D	Souriau
BTK	D	Deutsch ECD
B815	J	Deutsch ECD
CA3106B	*	Cannon Electric GmbH
CA-E/R	B	ITT Cannon
CA-RX	B	ITT Cannon
CGK	L	ITT Cannon Electric GmbH
CIR	*	ITT VEAM
CNO	H	Labinal/Cinch
CNO930	A	Labinal/Cinch
CT-R	F	Plessey Connectors
CVA	K	ITT Cannon
CV340	A	ITT Cannon
CV345	A	ITT Cannon
CWLD	C	ITT Cannon Electric GmbH
DBA	A	Deutsch ECD
DBAS	A	Compagnie Deutsch
DBAS	A	Cie Deutsch
DBAS	A	Deutsch ECD
DFE	A	Cie Deutsch
DIV4	H	Deutsch ECD
DL6	A	Deutsch ECD
DTS	H	Cie Deutsch
DVG	A	Cie Deutsch
D817	A	Deutsch ECD
FC	*	DCX
FDBA	A	Compagnie Deutsch
FDBA	A	Deutsch
FF	A	DCX
FH	*	DCX
FHA	K	DCX
G	D	Souriau
GTA	G	Hughes Connecting Devices
JT 3400	A	J-Tech
JT 3450	A	J-Tech
JT VG	*	J-Tech
JT	F	Amphenol
JT-R	F	Amphenol
JVS	H	Souriau
TT	F	ITT CannonI
KFS	G	ITT Cannon
KJ	F	ITT Cannon UK Ltd.
KJ	F	ITT Cannon Electric France
KJ	F	ITT Cannon Electric GmbH
KJ	F	ITT Cannon
KJA	H	ITT Cannon
KJL	F	ITT Cannon Electric France
KJL	F	ITT Cannon
KPSE	S	ITT Cannon UK Ltd.
KPSE	D	ITT Cannon
KPT	*	ITT Cannon Electric GmbH
KPT	D	ITT Cannon
KPTM	*	ITT Cannon Electrc GmbH
L	D	Souriau
L-T	D	Souriau
LJT	F	Amphenol
LJT-R	F	Amphenol
LL	J	Deutsch
LPT	D	Deutsch ECD
M-T	D	Souriau
MF	A	ITT Cannon
MF-S	D	Amphenol Products
MK 8	S	AB Electronics
MK 12	S	AB Electronics
MK 18	S	AB Electronics
NC	G	G & H Technology
PL	H	DCX

* Consult factory for backshell part numbers.

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Connector Series Alpha-Numeric Index

MFG SERIES	CONN. DESIG.	CONNECTOR MANUFACTURER
PT	D	Amphenol
PT	S	ITT Cannon
PT-SE	D	Amphenol
PT-SE	S	ITT Cannon
PTS-DR	A	Amphenol
PV-G	A	ITT Cannon
PV-S	A	ITT Cannon UK Ltd.
PVA	A	ITT Cannon
PVW	A	ITT Cannon UK Ltd.
PVW	A	ITT Cannon Electric GmbH
PVX	A	ITT Cannon UK Ltd.
PVX	A	ITT Cannon Electric GmbH
PV7	A	ITT Cannon
QWLD	C	Amphenol
RDN	G	DCX
RR	A	Hellerman Deutsch
RR50	A	Cie Deutsch
RR70	A	Deutsch Ltd.
SC	B	Amphenol
SCB	*	SICEM
SJT	L	Amphenol
STT	L	ITT Cannon
SLPT	*	Deutsch Ltd.
SM	B	Amphenol
TV	H	Amphenol
TVS	H	Amphenol
TVR	B	Amphenol
T3	H	Pyle-National
VPT	D	ITT VEAM
VPTE-SE	*	ITT VEAM
ZZW	E	Pyle-National
ZZY	E	Pyle-National
10-214	B	Amphenol
10-475	F	Amphenol
10-72	B	Amphenol
22	W	Glenair
80	M	Glenair
90	G	Glenair
118	A	Amphenol Limited
118	A	Amphenol
118	A	Amphenol-Tuchel
162GB	S	Amphenol Limited
162GB	*	Amphenol-Tuchel
246	*	Amphenol
251	*	Cannon Electric France
348	J	Amphenol Limited

MFG SERIES	CONN. DESIG.	CONNECTOR MANUFACTURER
348	J	Amphenol
348	J	Amphenol-Tuchel
381	A	Deutsch ECD
418-1	F	Amphenol Limited
418-1	F	Amphenol
418-2	F	Amphenol Limited
418-2	F	Amphenol
450	D	Deutsch ECD
460	D	Deutsch ECD
48	E	Amphenol
48	E	TRW Cylidrical Connectors
518	A	Amphenol
602GB	A	Amphenol Limited
602GB	A	Amphenol-Tuchel
62GB	S	Amphenol Limited
62GB	*	Amphenol-Tuchel
650	J	Schaltbau
652	A	Amphenol Limited
652	A	Amphenol-Tuchel
674	*	Schaltbau
675	*	Schaltbau
679	J	Schaltbau
69	B	Amphenol
71	B	Amphenol
80	M	Glenair
837	A	Deutsch ECD
85	D	Souriau
851	S	Souriau
851-50	*	Souriau
8525	A	Souriau
8526	A	Souriau
857	A	Souriau
8D	H	Souriau
8LT	F	Souriau
8ST	L	Souriau
8T	F	Souriau
9-815	J	Cie Deutsch
9-815	J	Compagnie Deutsch
91-483	A	Amphenol
951-50	A	Cie Deutsch
951-50	A	Compagnie Deutsch
97	B	Amphenol
991	A	Cie Deutsch
999.1	F	Cie Deutsch

* Consult factory for backshell part numbers.

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Recommended Torque Values

INSTALLATION TORQUE VALUES FOR CIRCULAR ELECTRICAL CONNECTOR ACCESSORIES			
Shell Sizes	**Column 1** Light and Medium Duty AS50151 (AS31001 Series) MIL-DTL-26482 Series I MIL-DTL-26500, MIL-DTL-27599 MIL-DTL-38999 Series I and II MIL-C-81511 Series I, II, III and IV AS81703 Series I	**Column 2** Heavy Duty AS50151 (AS34001 Series) MIL-DTL-22992, MIL-DTL-28840 MIL-DTL-26482 Series II MIL-DTL-38999 Series III and IV MIL-DTL-83723 Series I, II and III, AS81703 Series III	**Column 3** Composite Material Coupling Threads (See Notes 1 and 2)
	In-Lbs, Min/Max	**In-Lbs, Min/Max**	**In-Lbs, Min/Max**
8, 9, A	30/40	51/61	20/25
3, 10, 10SL, 11, B	30/40	71/81	20/30
7, 12, 12S, 13, C	35/45	103/113	25/35
14, 14S, 15, D	35/45	111/121	25/35
16, 16S, 17, E	35/45	111/121	30/40
18, 19, 27, F	35/45	111/121	30/40
20, 21, 37, G	75/85	131/141	35/45
22, 23, H	75/85	131/141	35/45
24, 25, 61, J	75/85	131/141	35/45
28, 29	115/125	143/153	115/125
32, 33	115/125	143/153	115/125
36	115/125	142/153	112/125
40	155/165	159/169	N/A
44	155/165	159/169	N/A
48	155/165	159/169	N/A

RECOMMENDED JAM NUT TORQUE VALUES			
Series II		**Series I, III, IV**	
Shell Size	**In-Lbs Min/Max**	**Shell Size**	**In-Lbs Min/Max**
8	46/50	9	30/36
10	55/60	11	40/46
12	70/75	13	55/60
14	80/85	15	70/75
16	90/95	17	80/85
18	100/110	19	90/95
20	110/120	21	100/110
22	120/130	23	110/120
24	140/150	25	120/130

TORQUE VALUES FOR CABLE CLAMP SCREWS [5, 6]	
Screw Size	**In-Lbs Min/Max**
2-56	1.5/2.5
4-40	3.5/4.5
6-32	5.0/7.0
8-32	7.0/9.0
10-32	9.0/11.0
.250-20	11.0/13.0

CABLE CLAMP TORQUE VALUES		
	With Grommet [4]	**Without Grommet**
Clamp Size	**In-Lbs Min/Max**	**In-Lbs Min/Max**
3	8/12	30/40
4	10/15	30/40
6	10/15	35/55
8	12/20	35/55
10	12/20	35/55
12	15/30	40/60
16	20/40	40/60
20	20/40	40/60
24	25/45	80/100
28	30/50	80/100
32	30/50	80/100
40	40/60	80/100

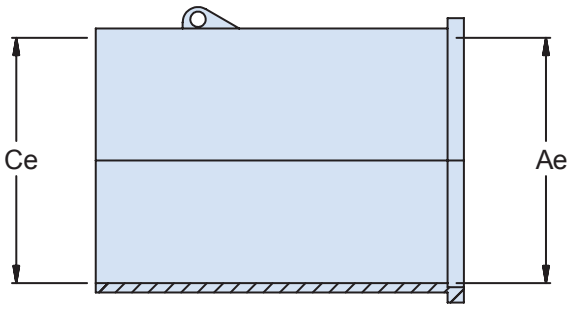
1) Use Glenair 600-091/157 and 600-007 torque tools when tightening hexagonal composite accessory couplings.
2) Metal and composite torque values per SAE AIR 6151. All values provided in Inch-Pounds.
3) For additional guidance or values/conditions not listed, refer to SAE AIR6151.
4) Values are based on lubricated grommets and clamp threads.
5) For stainless-steel or plated steel screws into aluminum or stainless-steel.
6) Not applicable for light-duty saddles unless bottomed on clamp nut.

EMI/RFI shielding terminated with conical metal ferrule(s) should employ a minimum recommended torque of 35 in-lb.

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Shrink Boot Reference Information

As Supplied



After Unrestricted Recovery

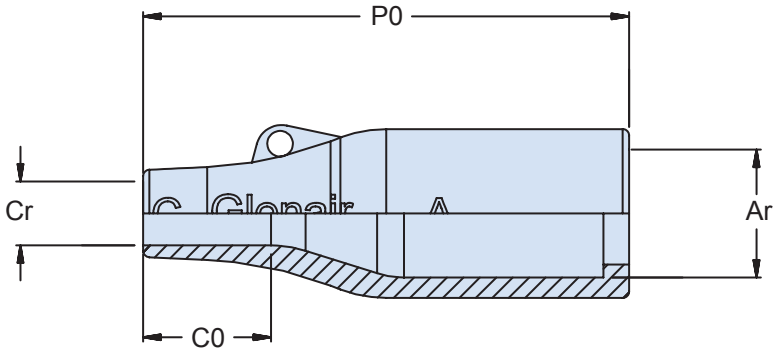


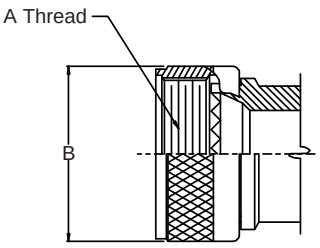
TABLE OF DIMENSIONS

Boot Size	Ae Min	Ar Max	Ce Min	Cr Max	C0 ±20%	P0 ±10%	Glenair Boot Supplied (Ref.)
03	.95 (24.1)	.41 (10.4)	.95 (24.0)	.20 (5.0)	.39 (10.0)	1.50 (38.0)	770-001S103
04	1.18 (30.0)	.55 (14.0)	1.18 (30.0)	.24 (6.0)	.63 (16.0)	2.17 (55.0)	770-001S104
05	1.26 (32.0)	.71 (18.0)	1.26 (32.0)	.28 (7.0)	.75 (19.0)	2.64 (67.0)	770-001S105
06	1.42 (36.1)	.87 (22.0)	1.42 (36.0)	.33 (8.5)	.79 (20.0)	3.15 (80.0)	770-001S106
07	1.69 (42.9)	1.10 (28.0)	1.69 (43.0)	.39 (10.0)	1.14 (29.0)	3.90 (99.0)	770-001S107
08	2.36 (59.9)	1.38 (35.0)	2.36 (60.0)	.59 (15.0)	1.58 (40.0)	5.12 (130.0)	770-001S108
09	2.60 (66.0)	1.75 (44.5)	2.60 (66.0)	.66 (16.8)	2.30 (58.0)	6.69 (170.0)	770-001S109

1. Material: Oil resistant, flame retardant elastomer—Glenair GTS 4025
2. Metric dimensions (mm) are indicated in parentheses.

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Modification Code -445 ("NESTOR") Positive-Lock, Non-Detent Coupling Reference Information



Part Number Development Example:

320 A S 105 NF 16 05 - 445

Product Series

Mod Code
Self-Nesting

Modification Code -445 changes coupling profile for a slight increase in length (see Table I).

TABLE I

CONNECTOR DESIGNATOR											A THREAD REF	B DIA MAX
A	C	D	E	F	G	H	J	K	L	S		
		08	08	08 (9)				08	08	08	7/16-28 UNEF	.688 (17.5)
						09 (A)					M12 X 1 - 6H	.722 (18.3)
08											1/2-20 UNF	.750 (19.1)
							08 (A)	10			1/2-28 UNEF	.750 (19.1)
03		10	10	10 (11)				11	10	10	9/16-24 UNEF	.813 (20.7)
						11 (B)					M15 X 1 - 6H	.841 (21.4)
10								12, 13			5/8-24 UNEF	.875 (22.2)
							10 (B)				5/8-28 UN	.875 (22.2)
		12		12 (13)					12	12	11/16-24 UNEF	.938 (23.8)
						13 (C)					M18 X 1 - 6H	.959 (24.4)
12 (7)	12		12		11 (A)			14, 15			3/4-20 UNEF	1.000 (25.4)
		14	14	14 (15)					14	14	13/16-20 UNEF	1.063 (27.0)
						15 (D)					M22 X 1 - 6H	1.116 (28.3)
14 (12)	14				13 (B)			16, 17			7/8-20 UNEF	1.125 (28.6)
							14 (D)				7/8-28 UN	1.125 (28.6)
		16	16	16 (17)					16	16	15/16-20 UNEF	1.188 (30.2)
						17 (E)					M25 X 1 - 6H	1.234 (31.4)
16 (19)	16				15 (C)			18			1-20 UNEF	1.250 (31.8)
							16 (E)				1-28 UN	1.250 (31.8)
18 (27)		18	18	18 (19)					18	18	1 1/16-18 UNEF	1.313 (33.3)
						19 (F)					M28 X 1 - 6H	1.352 (34.4)
	18				17 (D)			20			1 1/8-18 UNEF	1.375 (34.9)
							18 (F)				1 1/8-28 UN	1.375 (34.9)
20 (37)		20	20	20 (21)					20	20	1 3/16-18 UNEF	1.438 (36.5)
						21 (G)					M31 X 1 - 6H	1.470 (37.4)
	20				19 (E)			22			1 1/4-18 UNEF	1.500 (38.1)
							20 (G)				1 1/4-28 UN	1.500 (38.1)
22		22	22	22 (23)					22	22	1 5/16-18 UNEF	1.563 (39.7)
						23 (H)					M34 X 1 - 6H	1.589 (40.4)
	22							24			1 3/8-18 UNEF	1.625 (41.3)
							22 (H)				1 3/8-28 UN	1.625 (41.3)
24		24	24	24 (25)	23 (F)				24	24	1 7/16-18 UNEF	1.688 (42.9)
						25 (J)					M37 X 1 - 6H	1.707 (43.3)
28											1 3/4-18 UNS	2.000 (50.8)

NOTES:

1. Metric dimensions (mm) are indicated in parentheses.
2. Modification Code to add Self-Nesting Feature *only* as an option on Standard Profile Metal Free-Spinning Rotatable Coupling Backshells.
3. Consult Factory for Envronmental Styles.
4. **Not for use on MIL-DTL-38999 Series II.**
5. Look for the -445 icon throughout this catalog. It indicates the "NESTOR" is available by adding -445 to the end of the backshell part number

-445 Now Available with the "NESTOR"

Glenair's Non-Detent, Spring-Loaded, Self-Locking Coupling.

Add "-445" to Specify This AS85049 Style "N" Coupling Interface.

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Glenair®

Glenair Assembly Tools and Tool Kits for Reliable Installation

Glenair Tools Help Prevent False Tightening and Distortion

Backshell tightening tools are designed by Glenair to provide a full 360° gripping surface on backshell coupling nuts. These innovative tools minimize the possibility of coupling nut distortion and false tightening problems when mating backshells to circular connectors.

Reliable Installation of Glenair Backshells on Circular Connectors

When used with the appropriate connector holders and torque wrenches, Glenair Backshell Assembly Tools provide the user with consistent, repeatable backshell installations. Designed primarily for production assembly use, the tools can also be used equally well for successful field maintenance operations.

Glenair Backshell Assembly Tools may also be utilized effectively with backshell rotatable couplers produced by other manufacturers. Consult the Glenair *Backshell Assembly Tools, Banding Tools and Accessories* catalog for details.

Wide Variety of Glenair Tools for Proper Backshell Installation

Glenair offers a variety of tools to accomplish proper tightening. Our 600 Series pliers with replaceable pads are configured to make maximum circumferential support to each specific size backshell to be tightened, and our TG70 strap wrench is intended for general use on any diameter between .50 to 3.00 inches. Hand-held and bench-mount torque wrenches accommodate our 600-005 plug or receptacle connector holders.

When tightening a backshell onto a connector, it is important to follow Glenair's recommended procedures for each tool being used. Our *Backshell Assembly Tools, Banding Tools and Accessories* catalog shows torque values for each specific connector series the backshell is being fastened onto. The recommended values are based on several factors, primarily the connector and backshell thread strengths. Torque values consider additional factors such as plug-to-receptacle alignment key strength, barrel hoop strength and material strength.

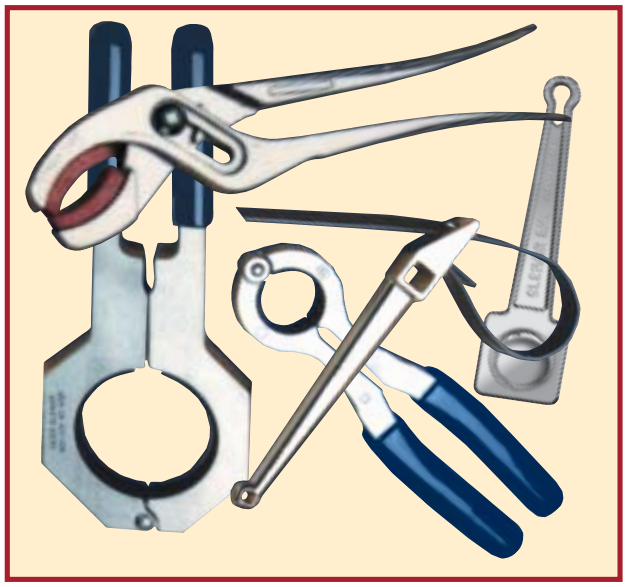


Glenair offers torque wrenches in two configurations. The hand-held torque wrench pictured above (top left), and the bench-mounted version (top center). Both are adjustable to a desired torque level of 20 to 360 inch pounds, and feature a 3/8" drive. A full range of receptacle and plug holders for Mil-Spec connectors and backshells is also offered.

When assembling connectors to backshells with rotatable coupling nuts, Glenair recommends the backshell be hand tightened to engage the connector's interlocking teeth or spline features, making sure the teeth are fully engaged before fully torquing with our tools. We also suggest retorquing by removing the tool and reinstalling the tool approximately 90° away from the initial position and tightening to the recommended value. When applying torque with our TG70 strap wrench, it is necessary to allow for a slight torque variance between the Glenair torque wrench and the offset socket drive on the strap wrench. A variance chart is provided in the *Backshell Assembly Tools, Banding Tools and Accessories* catalog.

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Backshell to Connector Assembly Tools



Glenair's selection of circular backshell assembly wrenches includes round wrenches in all standard sizes that are designed for use with Glenair's hand-held or bench-mounted torque wrenches. The round design assures even distribution of pressure around the backshell, thereby preventing false tightening and distortion problems. A hex design for Glenair composite coupling applications is offered. Strap wrenches, soft-jaw pliers and connector wrenches for a full range of Mil-Spec applications are also available.



Glenair's TG80 Tool Kit is designed for field use with circular electrical connectors. The products included with this kit fit most connectors covered by Military Specifications, and are used for holding during assembly and disassembly of rear clamp and adapter hardware, and to facilitate connector field repairs and servicing.

Contained in a rugged, compact foam-padded metal case, the kit includes two TG70 Strap Wrenches, a pair of TG69 Soft Jaw Pliers, a set of parallel jaw pliers and instructions.

Glenair also offers a selection of tool kits per MIL-T-83507. Details are available by contacting the factory, your local Glenair representative, or your local Glenair sales and engineering office.



Glenair offers a full range of connector backshell assembly tools to serve virtually all Mil-Spec connectors and backshell accessories. The specially-designed round wrenches prevent false tightening and distortion problems by assuring even distribution of forces throughout the circumference of the backshell and connector.



Band-It® Pneumatic Banding Tools are offered in two designs, each of which can be enhanced by Band-It's optional foot pedal kit to free both of the operator's hands to help assure more accurate, reliable and faster shield terminations. The Standard Tie-Dex II® Pneumatic Banding Tool accommodates standard clamping bands in a tension range from 100-180 lbs. The Tie-Dex II® Pneumatic Banding Tool accommodates micro banding clamps in a tension range of 50 to 80 lbs. Each lightweight tool weighs only 2.52 lbs. (1.14 Kg); the control boxes weigh only 2.74 lbs. (1.24 Kg) each.

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BAND-IT® Tools and Tool Kits for Reliable Shield Termination

Fast, Cost-Effective Field and Factory Terminations

The BAND-IT® clamping system provides quick and highly reliable termination of braided metallic shielding or fabric braid. Banding technology was first introduced in our industry in 1985 as a solution to the field repair of magnaformed shield terminations on installed cable assemblies for the B-1 bomber. Banding has been a staple of the industry ever since.



Reliable termination is quickly and easily accomplished in the field with Band-It® precalibrated pocket-sized hand tools. High-speed, mass termination production is afforded by the pneumatic clamping tool.

Reliable RFI/EMI/EMP Terminations

The unique low profile and smooth inside diameter of the one-piece type 304 austenitic stainless steel clamping band virtually eliminates RFI/EMI/EMP leakage paths. The lock maintains constant tension under extreme environmental conditions. *BAND-IT*® has passed severe shock, vibration and thermal cycle testing with negligible deterioration of shell conductivity.

Single Piece Band Construction

No welding, soldering, magna forming, and no crimping! The clamping bands provide quick, easy and cost-effective shielding terminations. (Note: Bands must be double coiled.)

Clamp Small Diameters Easily, Reliably

Double-wrapped, the clamping band is designed to clamp small diameters as easily, quickly and reliably as large diameters.



Band-It® clamping bands are precision constructed of 300 Series SST/Passivate, and designed for use with Band-It® Hand Banding Tool or the Pneumatic Banding Tool.

The bands are offered in the following four configurations to suit a wide range of requirements: Double-wrapped, the Standard Band will accommodate diameters up to approximately 1.8 inches. The Extended Length Standard Band when double-wrapped will accommodate diameters up to approximately 2.5 inches (63.5mm). The Micro Band will accommodate diameters up to approximately .88 inches (22.5mm) when double-wrapped. The Extended Length Micro Band will accommodate diameters to approximately 1.88 inches (47.8mm) when double-wrapped. All Band-It® clamping bands may be ordered flat or precoiled in bagged and tagged quantities from 1 to 100.

Quick, Easy Field Terminations with the Precalibrated Hand Tool

The precalibrated hand tool is lightweight and pocket-sized, affording fast braided RFI/EMI/EMP shield termination in the field.

Pneumatic Banding Tool for High-Speed Mass Production

The pneumatic clamping tool offers the capability to tackle high volume braided shielding terminations quickly and easily.

Glenair Assembly Tools Help Prevent Distortion and False Tightening Problems

Backshell tightening tools are available which provide virtually a full 360° gripping surface on backshell coupling nuts. These innovative tools minimize the possibility of coupling nut distortion and false tightening problems which can be caused by soft-jaw pliers or strap wrenches.

Reliable Installation of Glenair Backshells on Circular Connectors

When used with the appropriate connector holders and torque wrenches, Glenair Backshell Assembly

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Tools provide the user with consistent, repeatable backshell installations. Designed primarily for production assembly use, the tools can also be used equally well for successful field maintenance operations.

Glenair Backshell Assembly Tools may also be utilized effectively with backshell rotatable couplers produced by other manufacturers, providing the "B" reference diameters are consistent with Glenair values.

Recommended Tightening Procedures

Recommended tightening procedures, tools and torque values offered by Glenair are intended as an aid to properly fasten the backshell to the connector interface threads. Glenair offers a variety of tools to accomplish proper tightening; our 600 Series pliers with replaceable pads are configured to make maximum circumferential support to each specific size backshell to be tightened, our TG70 strap wrench (page 6) is intended for general use on any diameter between .50 to 3.00 inches. Hand-held and bench-mount torque wrenches accomodate our 600-005 plug or receptacle connector holders (see *Backshell Assembly Tool* catalog).

When tightening backshell onto connectors, it is important to follow Glenair's recommended procedures for each tool being used.

When tightening backshells with rotatable coupling nuts, Glenair recommends the backshell to be hand tightened to engage the connectors interlocking teeth or spline features, making sure the teeth are fully engaged before fully torquing with our tools. We also suggest retorquing by removing the tool and reinstalling the tool approximately 90° away from the intial position and tightening to the connector manufacturer's recommended value.

Composite backshells should be tightened to the values shown for MIL-C-85049 light and medium duty torque. Secondary components such as: Glenair's cable clamps, gland sealing nuts, sleeves or adapters, not directly fastened to the connector should be tightened 40 to 60 inch pounds to insure proper performance.

Four Easy Steps for Proper Backshell Assembly

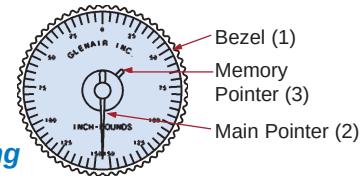
1. Select plug or receptacle holder (most holder series provide "universal polarization", but a few connector series require specific polarization for each alternate keying arrangement).
2. Set desired torque on torque wrench.
3. Mount holder on square drive of torque wrench. Carefully mate with connector, and hand-tighten Glenair backshell coupling. To assure proper mating, anti-rotation teeth must be fully engaged.
4. Tighten rotatable coupler with assembly tool. Do not use excessive grip on handles. When coupler begins to tighten, relax grip and rotate assembly tool back 90°, then resume grip and continue to tighten; repeating this sequence until desired torque level is reached.

CAUTION: ***Do not apply torque in excess of signal setting. Excess torque will cause signal pointer to reset and give erroneous readings.***

Setting Torque Levels

To verify proper backshell installation values, electrical signals are built into bench-mounted (audio) and hand-held (light) torque wrenches. The procedure for setting torque levels is the same for both units.

Setting Desired Torque for Right-Hand Thread Tightening



To set torque, turn Bezel (1) clockwise until signal is on. Continue to turn Bezel until Main Pointer (2) is at desired torque level on scale. You may cover the audio signal during this procedure to minimize noise level when setting the bench-mounted unit.

The Memory Pointer (3) is set by the above procedure. With this accomplished, turn Bezel counter-clockwise until the Main Pointer is aligned with zero on the scale. Your torque wrench is now ready for operation.

Setting Desired Torque for Left-Handed Thread Tightening

Simply reverse the above procedure for setting the desired torque for left-hand thread tightening.

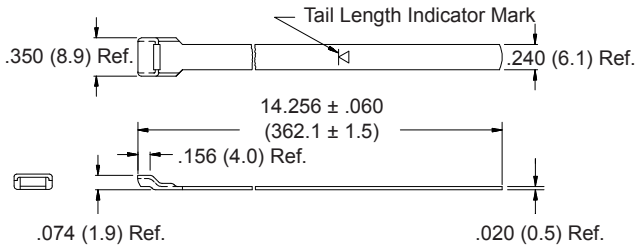
Resetting the Memory Pointer

When you wish to change torque levels, rotate the Bezel counter-clockwise until the signal is on. Continue to rotate Bezel until Memory Pointer is aligned with zero on the scale. Now repeat the above procedure for setting torque.

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Banding System Shield Termination Tools

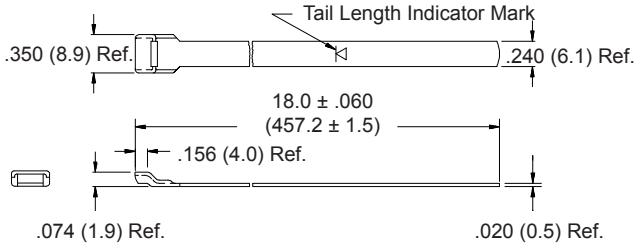
Standard Band 600-052
Precoiled Standard Band 600-052-1



The 600-052 Standard Band is precision constructed of 300 Series SST/Passivate I.A.W AMS 2700 and designed for use with the 600-058 Hand Banding Tool or the 600-067 Pneumatic Banding Tool. Double-wrapped bands will accommodate diameters up to approximately 1.8 inches (45.7). Bands may be ordered flat (600-052) or precoiled (600-052-1). Bands come bagged and tagged in quantities from 1 to 100.

Reference: *BAND-IT*® part number A10086

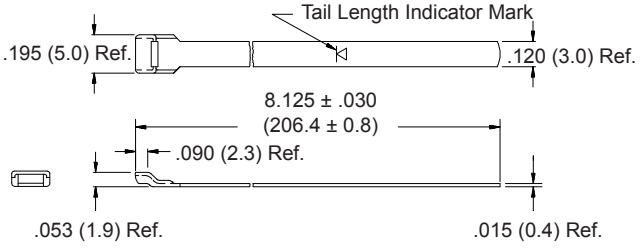
Extended-Length Standard Band 600-090
Precoiled Extended-Length Standard Band 600-090-1



The 600-090 Extended Length Standard Band is precision constructed of 300 Series SST/Passivate I.A.W AMS 2700, and designed for use with the 600-058 Hand Banding Tool or the 600-067 Pneumatic Banding Tool. Double-wrapped bands will accommodate diameters up to approximately 2.5 inches (63.5). Bands may be ordered flat (600-090), or precoiled (600-090-1). Bands come bagged and tagged in quantities from 1 to 100.

Reference: *BAND-IT*® part number A11086

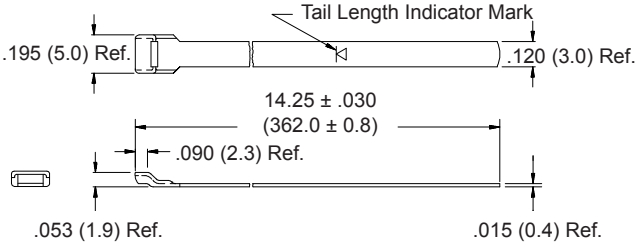
Micro-Band 600-057
Precoiled Micro-Band 600-057-1



The 600-057 Micro Band is precision constructed of 300 Series SST/Passivate I.A.W AMS 2700, and designed for use with the 600-061 Hand Banding Tool or the 600-068 Pneumatic Banding Tool. Double-wrapped bands will accommodate diameters up to approximately .88 inches (22.4). Bands may be ordered flat (600-057), or precoiled (600-057-1). Bands come bagged and tagged in quantities from 1 to 100.

Reference: *BAND-IT*® part number A31186

Extended Length Micro-Band 600-083
Precoiled Micro-Band 600-083-1



The 600-083 Extended Length Micro-Band is precision constructed of 300 Series SST/Passivate I.A.W AMS 2700, and designed for use with the 600-061 Hand Banding Tool or the 600-068 Pneumatic Banding Tool. Double-wrapped bands will accommodate diameters up to approximately 1.88 inches (47.8). Bands may be ordered flat (600-083), or precoiled (600-083-1). Bands come bagged and tagged in quantities from 1 to 100.

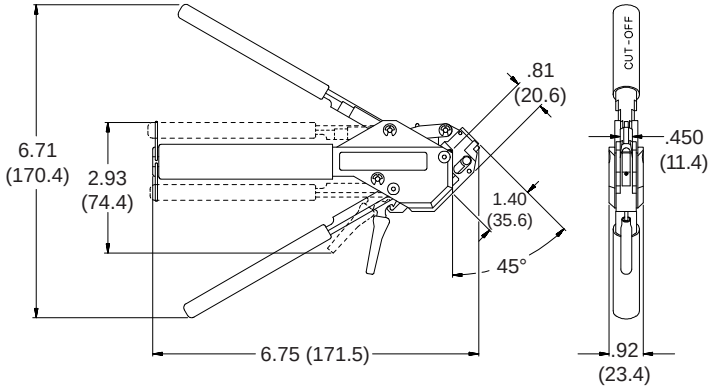
Reference: *BAND-IT*® part number A31086.

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Hand Banding Tool 600-058

The 600-058 Hand Banding Tool weighs 1.18 lbs., and is designed for standard clamping bands 600-052 and 600-090 in a tension range from 100 to 180 lbs. Calibrate at 150 lbs. ± 5 lbs. for most shield terminations. Tool and band should never be lubricated.

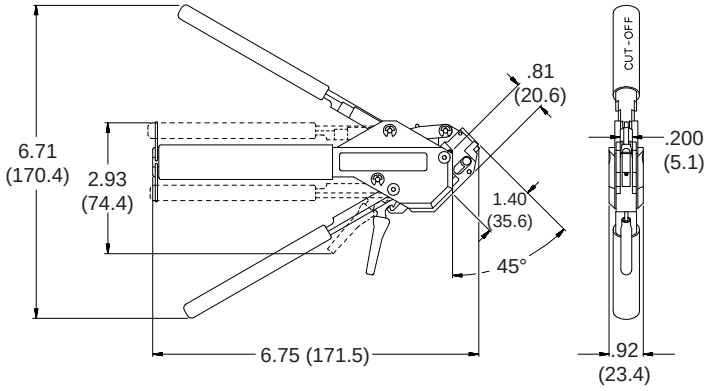
Reference: *BAND-IT*® part number A40199.



Hand Micro Banding Tool 600-061

The 600-061 Hand Micro Banding Tool weighs 1.18 lbs., and is designed for micro clamping bands 600-057 and 600-083 in a tension range from 50 to 85 lbs. Calibrate at 75lbs +2 lbs. -7 lbs. for most shield terminations. Tool and band should never be lubricated.

Reference: *BAND-IT*® part number A30199.



Metric Dimensions (mm) are indicated in parentheses.

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Banding System Shield Termination Tools User Instructions

1. Prepare Cable Braid for termination process (Figure 1).
2. Push Braid forward over Adapter Retention Lip to the Adapter Incline Point (or .4" [10.2mm] minimum braid length). Milk Braid as required to remove slack and insure a snug fit around the shield termination area (Figure 2).
3. Prepare the Band in the following manner:

   ***IMPORTANT:* Due to Connector/Adapter circumference, it may be necessary to prepare the Band around the Cable or Retention Area.**

   A. Roll Band through the Buckle Slot twice. (Bands must be double-coiled.)

   B. Pull on Band until Mark (▷|) is within approximately .250 inch (6.4mm) of Buckle Slot (Figure 3). The Band may be tightened further if desired.

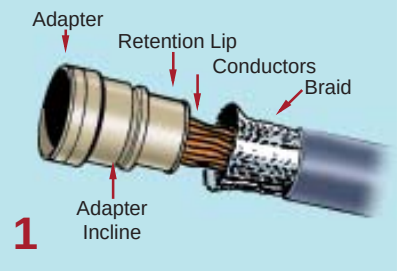
   ***NOTE:* Prepared Band should have (▷|) Mark visible approximately where shown in Figure 3.**

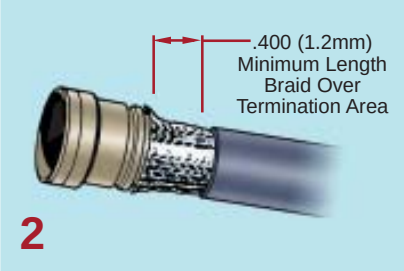
SHIELD TERMINATION CLAMPING PROCESS: (Figures 4 thru 8):

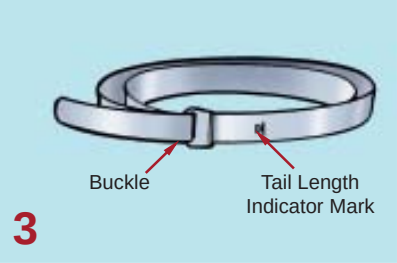
***NOTE:* To free Tool Handles, move Holding Clips to center of Tool.**

4. Squeeze Gripper Release Lever and insert Band into the front end opening of the Tool. (NOTE: Circular portion of looped band must always face downward.)
5. Aligning the Band and Tool with the Shield Termination Area, squeeze Black Pull-Up Handle repeatedly using short strokes until it locks against Tool Body. (This indicates the Band is compressed to the Tool Precalibrated Tension.)

   ***NOTE:* If alignment of band and shield is unsatisfactory, tension on band can be relaxed by pushing on slotted release lever on top of tool. Make adjustments as necessary and again squeeze black pull-up handle..**
6. Complete the Clamping Process by squeezing the Gray Cut-Off Handle.
7. Remove excess Band from Tool.
8. Inspect Shield Termination.











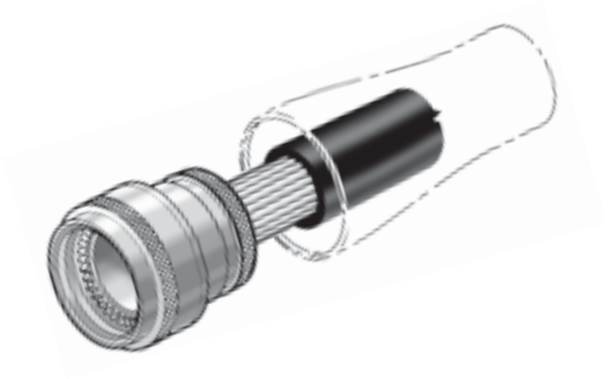






IMPORTANT: Always roll band through the buckle slot twice (see Step 3). Bands must be double-coiled to function correctly. The failure to roll the band through the buckle slot twice is the most common user error in band style terminations.

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PRODUCT FEATURES

- Designed to Accomodate Lipped-Type Shrink Boots Such as MS3109 and MS3117 Designs
- Rotatable and Direct Coupling Styles
- Standard and Low Profile Designs
- Straight, 45° and 90° Configurations
- Optional Shrink Boots Available

Economical environmental sealing and mechanical strain-relief for harsh application environments

The perfect solution for high volume applications which require both environmental protection and cable strain-relief

The shrink boot adapters included in this section all are designed to accommodate lipped-type shrink boots such as those defined on MS3109 and MS3117. Shrink boots are used both for mechanical strain relief and a degree of environmental protection. Standard shrink boot adapters, with either rotatable coupling nuts or direct coupled designs are available for most circular connectors. As an added option, the 310 Series adapters can be ordered with a straight shrink boot.

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310-001
O-Ring Sealed Shrink Boot Adapter
Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-F-D-G*

H-J*-L-S

*** Conn. Desig. G & J - Consult Factory For 45° and 90°**

ROTATABLE COUPLING

310 F S 001 M 16 D T

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Drain Holes (Omit for None)
- Shrink Boot (Table III - Omit for None)

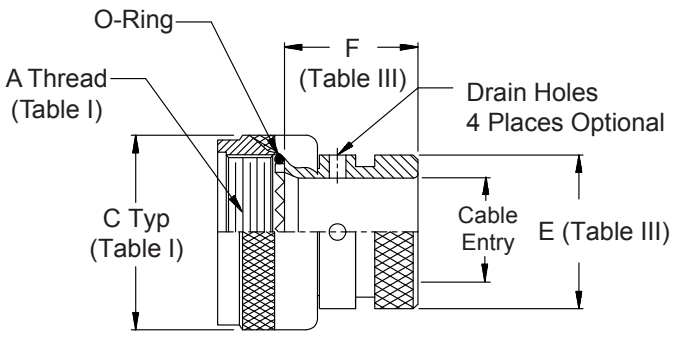
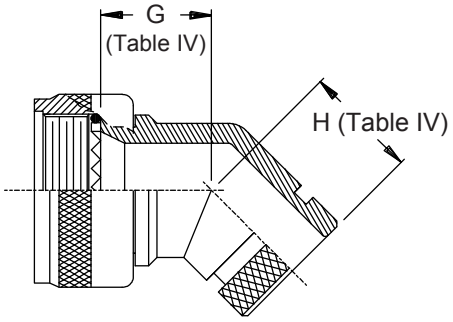
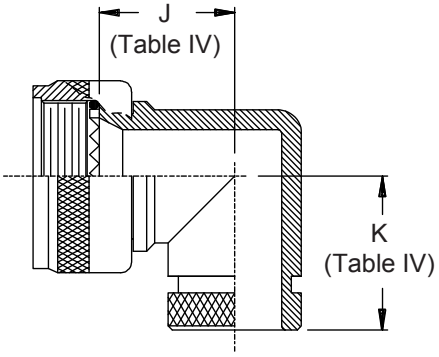


TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options





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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: CABLE ENTRY AND SHRINK BOOT

Shell Size - Conn. Desig. A-F-J-L-S	Shell Size - Conn. Desig. G-H	E Max	F Max	Cable Entry Min.	Shrink Boot *
08	09	.533 (13.5)	.940 (23.9)	.250 (6.4)	770-003S102
10	11	.605 (15.4)	.940 (23.9)	.355 (9.0)	770-001S103
12	13	.774 (19.7)	.940 (23.9)	.491 (12.5)	770-001S103
14	15	.838 (21.3)	.940 (23.9)	.565 (14.4)	770-001S103
16	17	.963 (24.5)	.940 (23.9)	.690 (17.5)	770-001S104
18	19	1.042 (26.5)	.940 (23.9)	.769 (19.5)	770-001S104
20	21	1.217 (30.9)	.940 (23.9)	.894 (22.7)	770-001S106
22	23	1.355 (34.4)	.940 (23.9)	1.019 (25.9)	770-001S107
24	25	1.443 (36.7)	.940 (23.9)	1.134 (28.8)	770-001S107
28	29	1.709 (43.4)	.940 (23.9)	1.369 (34.8)	770-001S108
32	33	1.919 (48.7)	1.005 (25.5)	1.615 (41.0)	770-001S108

* Shrink Boot Supplied with "T" Option
(see Part Number Development)

TABLE IV: DIMENSIONS

Shell Size - Conn. Desig. A-F-L-S	Shell Size - Conn. Desig. H	G Max	H Max	J Max	K Max
08	09	.639 (16.2)	.810 (20.6)	.750 (19.1)	.920 (23.4)
10	11	.664 (16.9)	.840 (21.3)	.810 (20.6)	.980 (24.9)
12	13	.688 (17.5)	.860 (21.8)	.870 (22.1)	1.040 (26.4)
14	15	.705 (17.9)	.890 (22.6)	.920 (23.4)	1.110 (28.2)
16	17	.732 (18.6)	.910 (23.1)	.980 (24.9)	1.170 (29.7)
18	19	.748 (19.0)	.920 (23.4)	1.020 (25.9)	1.190 (30.2)
20	21	.773 (19.6)	.940 (23.9)	1.080 (27.4)	1.250 (31.8)
22	23	.800 (20.3)	.980 (24.9)	1.140 (29.0)	1.330 (33.8)
24	25	.823 (20.9)	1.010 (25.7)	1.200 (30.5)	1.400 (35.6)
28	29	1.041 (26.4)	1.180 (30.0)	1.480 (37.6)	1.640 (41.7)
32	33	1.092 (27.7)	1.370 (34.8)	1.610 (40.9)	1.880 (47.8)

1. See Shrink Boot Reference Information (page 40).
2. Metric dimensions (mm) are indicated in parentheses.
3. O-Rings not supplied with drain hole option.
4. O-Rings not supplied with Connector Designators A and G.

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310-034
O-Ring Sealed Shrink Boot Adapter
Direct Coupling - Standard Profile

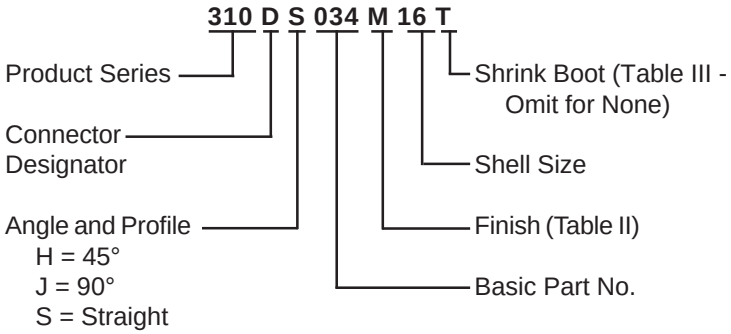
CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

*** Conn. Desig. B See Note 4**

DIRECT COUPLING



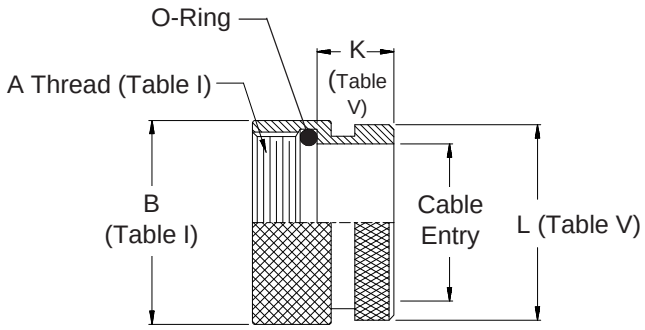
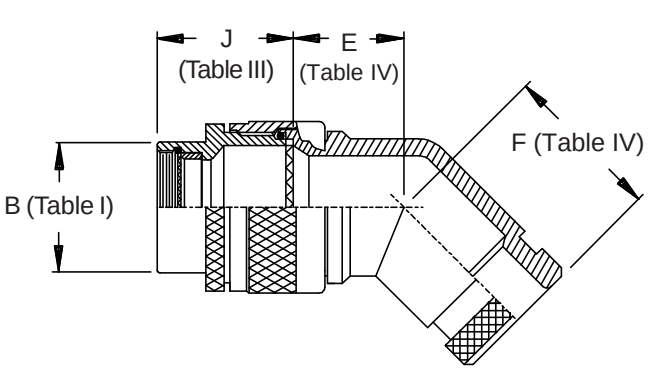
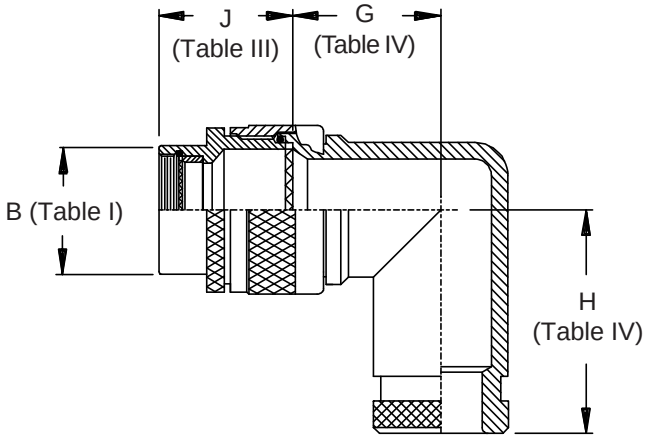


TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options





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310-034
O-Ring Sealed Shrink Boot Adapter
Direct Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max
08/09	.639 (16.2)	.810 (20.6)	.750 (19.1)	.920 (23.4)
10/11	.664 (16.9)	.840 (21.3)	.810 (20.6)	.980 (24.9)
12/13	.688 (17.5)	.860 (21.8)	.870 (22.1)	1.040 (26.4)
14/15	.705 (17.9)	.890 (22.6)	.920 (23.4)	1.110 (28.2)
16/17	.732 (18.6)	.910 (23.1)	.980 (24.9)	1.170 (29.7)
18/19	.748 (19.0)	.920 (23.4)	1.020 (25.9)	1.190 (30.2)
20/21	.773 (19.6)	.940 (23.9)	1.080 (27.4)	1.250 (31.8)
22/23	.800 (20.3)	.980 (24.9)	1.140 (29.0)	1.330 (33.8)
24/25	.823 (20.9)	1.010 (25.7)	1.200 (30.5)	1.400 (35.6)
28	1.041 (26.4)	1.180 (30.0)	1.480 (37.6)	1.640 (41.7)
32	1.092 (27.7)	1.370 (34.8)	1.610 (40.9)	1.880 (47.8)

TABLE V: CABLE ENTRY AND SHRINK BOOT

Shell Size	K Max	L Max	Cable Entry Min	Shrink Boot *
08	.500 (12.7)	.688 (17.5)	.250 (6.4)	770-001S103
10/11	.500 (12.7)	.803 (20.4)	.355 (9.0)	770-001S103
12/13	.500 (12.7)	.938 (23.8)	.491 (12.5)	770-001S104
14/15	.500 (12.7)	1.063 (27.0)	.565 (14.4)	770-001S104
16/17	.500 (12.7)	1.238 (31.4)	.690 (17.5)	770-001S106
18	.500 (12.7)	1.310 (33.3)	.769 (19.5)	770-001S106
20	.500 (12.7)	1.436 (36.5)	.844 (21.4)	770-001S107
22	.500 (12.7)	1.560 (39.6)	1.019 (25.9)	770-001S107
24	.500 (12.7)	1.686 (42.8)	1.134 (28.8)	770-001S108
28	.687 (17.4)	2.062 (52.4)	1.369 (34.8)	770-001S108
32	.687 (17.4)	2.312 (58.7)	1.615 (41.0)	770-001S109
36	.687 (17.4)	2.562 (65.1)	1.830 (46.5)	Consult Factory
40	.687 (17.4)	2.812 (71.4)	2.045 (51.9)	Consult Factory

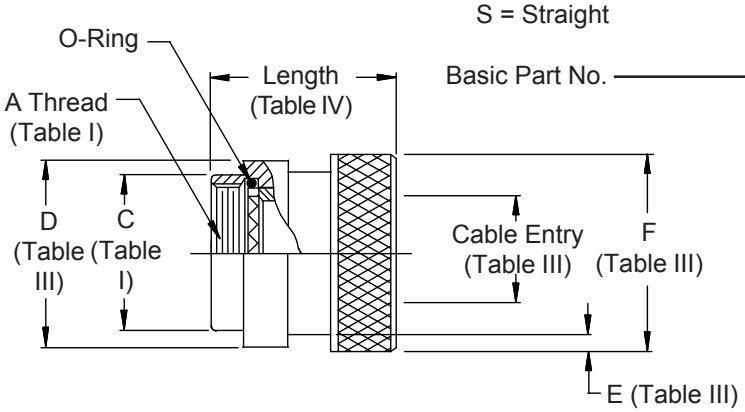
* Equivalent boot may be suppplied in lieu of stated part number.

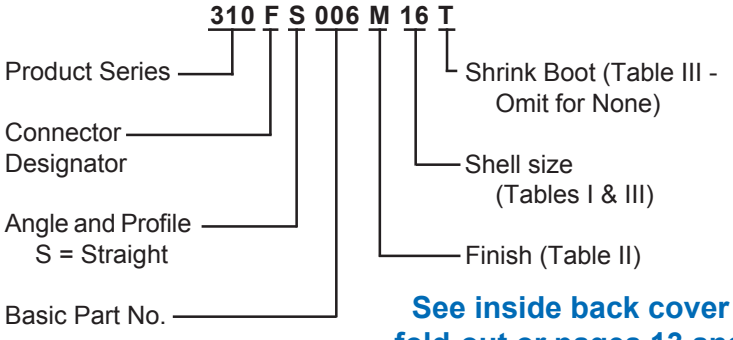
1. Cable Entry is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. When using Connector Designator B refer to pages 18 and 19 for part number development.

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310-006
O-Ring Sealed Shrink Boot Adapter
Straight - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS
A-F-H-L-S
DIRECT COUPLING





See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. See Shrink Boot Reference Information (page 40).
2. Metric dimensions (mm) are indicated in parentheses.

TABLE III: CABLE ENTRY AND SHRINK BOOT

Shell Size	D Max	Cable Entry Min	E Min	F Max	Shrink Boot
08/09	.657 (16.7)	.250 (6.4)	.044 (1.1)	.688 (17.5)	770-001S103
10/11	.774 (19.7)	.355 (9.0)	.044 (1.1)	.803 (20.4)	770-001S103
12/13	.818 (20.8)	.491 (12.5)	.044 (1.1)	.938 (23.8)	770-001S104
14/15	1.024 (26.0)	.565 (14.4)	.044 (1.1)	1.063 (27.0)	770-001S104
16/17	1.152 (29.3)	.690 (17.5)	.069 (1.8)	1.238 (31.4)	770-001S106
18/19	1.243 (31.6)	.769 (19.5)	.069 (1.8)	1.310 (33.3)	770-001S106
20/21	1.370 (34.8)	.844 (21.4)	.069 (1.8)	1.436 (36.5)	770-001S106
22/23	1.443 (36.7)	1.019 (25.9)	.069 (1.8)	1.560 (39.6)	770-001S107
24/25	1.618 (41.1)	1.134 (28.8)	.069 (1.8)	1.686 (42.8)	770-001S108
28/29	1.969 (50.0)	1.369 (34.8)	.086 (2.2)	2.062 (52.4)	770-001S108*
32	2.219 (56.4)	1.615 (41.0)	.086 (2.2)	2.312 (58.7)	770-001S109*
36	2.469 (62.7)	1.830 (46.5)	.086 (2.2)	2.562 (65.1)	Consult Factory
40	2.719 (69.1)	2.045 (51.9)	.086 (2.2)	2.812 (71.4)	Overmolded
44	2.969 (75.4)	2.300 (58.4)	.086 (2.2)	3.062 (77.8)	Overmolded
48	3.219 (81.8)	2.550 (64.8)	.086 (2.2)	3.312 (84.1)	Overmolded

*Equivalent boot may be supplied in lieu of stated part number.

TABLE IV: LENGTH

Shell Sizes	Length Max - Connector Designator A	F	H	L & S
08-25	.540 (13.7)	.625 (15.9)	.688 (17.5)	.750 (19.1)
28-48	.702 (17.8)	---	---	---

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

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Printed in U.S.A.

Series 311
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot



PRODUCT FEATURES

- Simple, Lamp-Base Style Shield Termination
- Shield Wall Thickness Range: 0 to .031 (0.8mm)
- Rotatable, Self-Locking and Direct Coupling
- Standard and Low Profile Designs
- Straight, 45°, 90° and Split Shell Configurations
- Optional Shrink Boots Available
- Optional Strain-Reliefs Available

Simple but effective EMI/RFI and environmental protection

Complete protection solution: grounded backshell, shield termination, environmental sealing and mechanical strain-relief

This series of adapters provides a simplified method of grounding over-all shields. The over-all shield/braid is secured between a male and female lamp-base type thread providing a good bonding joint. Strain relief clamps and shrink boot attachments are available. As an added option, the 311 Series can be provided with a straight shrink boot. Equivalent boot may be supplied in lieu of stated part number.

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311-001
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

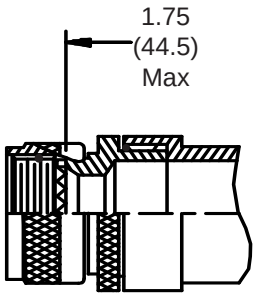
A-F-H

J-L-S

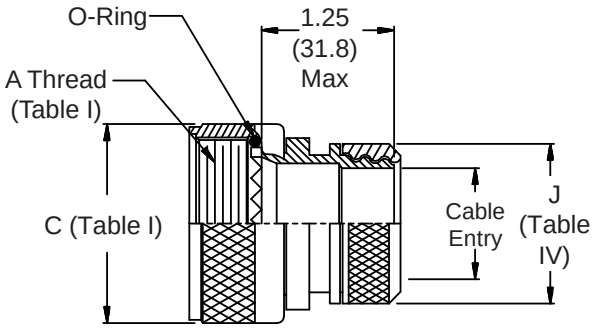
ROTATABLE COUPLING

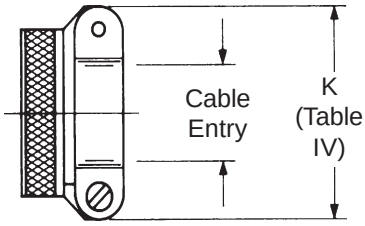
311 F A 001 M 16 03 E T

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- E = Strain Relief (Omit for nut)
- Shrink Boot (Table IV - Omit for none)

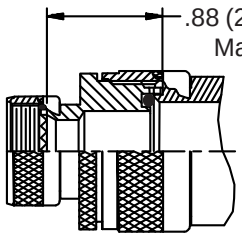


STYLE 2 (STRAIGHT See Note 5)

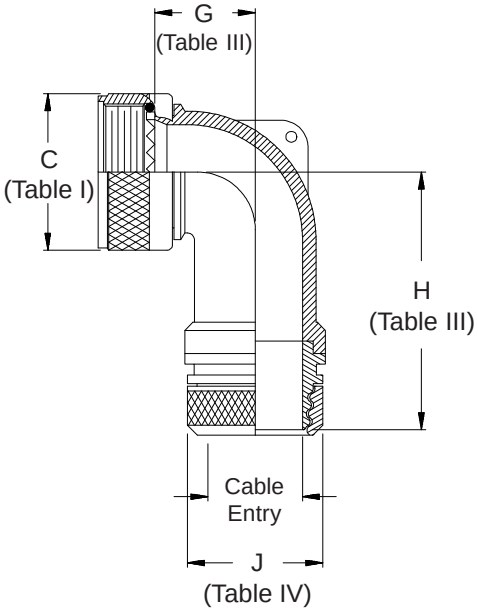




STYLE E STRAIN RELIEF



STYLE 2 (45° & 90° See Note 5)



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311-001
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Rotatable Coupling - Low Profile

See inside back cover fold-out
or pages 13 and 14
for unabridged Tables I and II.

TABLE III: DIMENSIONS

SHELL SIZE A-F-J-L-S	SHELL SIZE H	E Max	F Max	G Max	H Max
08	09	.457 (11.6)	1.630 (41.4)	.500 (12.7)	1.640 (41.7)
10	11	.520 (13.2)	1.690 (42.9)	.595 (15.1)	1.760 (44.7)
12	13	.582 (14.8)	1.750 (44.5)	.610 (15.5)	1.780 (45.2)
14	15	.645 (16.4)	1.840 (46.7)	.700 (17.8)	1.850 (47.0)
16	17	.738 (18.7)	1.950 (49.5)	.885 (22.5)	1.940 (49.3)
18	19	.926 (23.5)	2.140 (54.4)	.975 (24.8)	2.110 (53.6)
20	21	.926 (23.5)	2.140 (54.4)	.975 (24.8)	2.110 (53.6)
22	23	1.020 (25.9)	2.290 (58.2)	1.125 (28.6)	2.220 (56.4)
24	25	1.020 (25.9)	2.290 (58.2)	1.125 (28.6)	2.220 (56.4)
28		1.145 (29.1)	2.340 (59.4)	1.225 (31.1)	2.390 (60.7)
32		1.207 (30.7)	2.440 (62.0)	1.575 (40.0)	2.640 (67.1)
36		1.238 (31.4)	2.530 (64.3)	1.775 (45.1)	2.640 (67.1)

TABLE IV: CABLE ENTRY AND SHRINK BOOT

Dash No.	J Max	K Max	Cable Entry Max	Shrink Boot
01	.448 (11.4)	.781 (19.8)	.125 (3.2)	n/a
02	.515 (13.1)	.968 (24.6)	.250 (6.4)	770-001S103
03	.640 (16.3)	1.046 (26.6)	.375 (9.5)	770-001S103
04	.765 (19.4)	1.156 (29.4)	.500 (12.7)	770-001S104
05	.920 (23.4)	1.219 (31.0)	.625 (15.9)	770-001S104
06	1.015 (25.8)	1.343 (34.1)	.750 (19.1)	770-001S105
07	1.140 (29.0)	1.469 (37.3)	.875 (22.2)	770-001S106
08	1.265 (32.1)	1.594 (40.5)	1.000 (25.4)	770-001S106
09	1.432 (36.4)	1.719 (43.7)	1.125 (28.6)	770-001S107
10	1.515 (38.5)	1.844 (46.8)	1.250 (31.8)	770-001S107
11	1.640 (41.7)	n/a	1.375 (34.9)	770-001S108
12	1.765 (44.8)	n/a	1.500 (38.1)	770-001S108
13	2.015 (51.2)	n/a	1.750 (44.5)	770-001S108

1. Cable Entry is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. O-Rings not supplied with Connector Designator A.
5. When maximum entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G & H will not apply. Please consult factory.

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Complete Finish Information and Additional Finish Options

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311-001
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Rotatable Coupling - Standard Profile

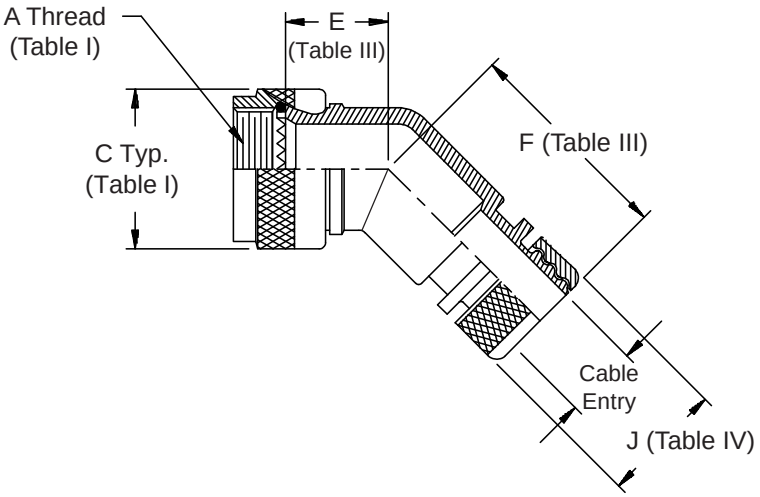
CONNECTOR DESIGNATORS

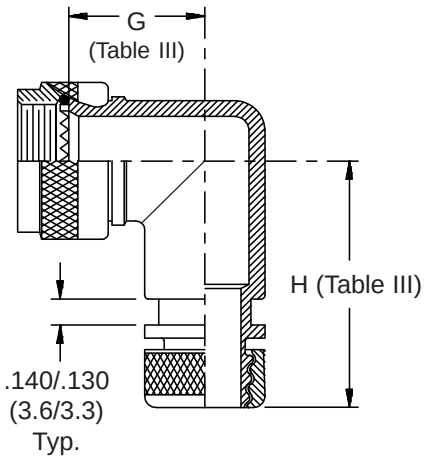
A-F-H-L-S

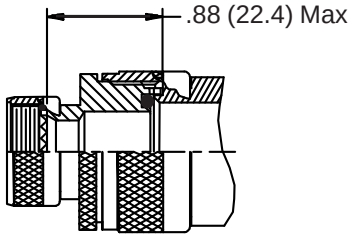
ROTATABLE COUPLING

311 F H 001 M 16 03 E T

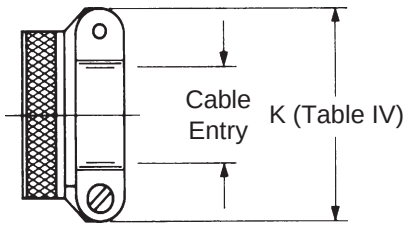
- Product Series
- Connector Designator
- Angle and Profile
  - J = 90°
  - H = 45°
  - See page 311-2 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- E = Strain Relief (Omit for nut)
- Shrink Boot (Table IV - Omit for none)







STYLE 2
(45° & 90°
See Note 5)



STYLE E
STRAIN RELIEF

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311-001
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Rotatable Coupling - Standard Profile

See inside back cover fold-out
or pages 13 and 14
for unabridged Tables I and II.

TABLE III: DIMENSIONS

SHELL SIZE A-F-L-S	SHELL SIZE H	E Max	F Max	G Max	H Max
08	09	.830 (21.1)	1.045 (26.5)	.940 (23.9)	1.155 (29.3)
10	11	.860 (21.8)	1.075 (27.3)	1.010 (25.7)	1.225 (31.1)
12	13	.882 (22.4)	1.097 (27.9)	1.070 (27.2)	1.285 (32.6)
14	15	.900 (22.9)	1.125 (28.6)	1.130 (28.7)	1.345 (34.2)
16	17	.930 (23.6)	1.145 (29.1)	1.190 (30.2)	1.405 (35.7)
18	19	.950 (24.1)	1.165 (29.6)	1.240 (31.5)	1.455 (37.0)
20	21	.980 (24.9)	1.195 (30.4)	1.310 (33.3)	1.525 (38.7)
22	23	1.000 (25.4)	1.215 (30.9)	1.360 (34.5)	1.575 (40.0)
24	25	1.030 (26.2)	1.245 (31.6)	1.430 (36.3)	1.645 (41.8)

TABLE IV: CABLE ENTRY AND SHRINK BOOT

Dash No.	J Max	K Max	Cable Entry Max	Shrink Boot
01	.448 (11.4)	.781 (19.8)	.125 (3.2)	n/a
02	.515 (13.1)	.968 (24.6)	.250 (6.4)	770-001S103
03	.640 (16.3)	1.046 (26.6)	.375 (9.5)	770-001S103
04	.765 (19.4)	1.156 (29.4)	.500 (12.7)	770-001S104
05	.920 (23.4)	1.219 (31.0)	.625 (15.9)	770-001S104
06	1.015 (25.8)	1.343 (34.1)	.750 (19.1)	770-001S105
07	1.140 (29.0)	1.469 (37.3)	.875 (22.2)	770-001S106
08	1.265 (32.1)	1.594 (40.5)	1.000 (25.4)	770-001S106
09	1.432 (36.4)	1.719 (43.7)	1.125 (28.6)	770-001S107

-445 Now Available with the "NESTOR"

Glenair's Non-Detent, Spring-Loaded, Self-Locking Coupling.

Add "-445" to Specify This AS85049 Style "N" Coupling Interface.

1. Cable Entry is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. O-Ring not supplies with Connector Designator A.
5. When maximum entry is exceeded, Style 2 will be supplied. Dimensions E, F, G, & H will not apply. Please consult factory.

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Complete Finish Information and Additional Finish Options

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311-001
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Rotatable Coupling - Split Shell

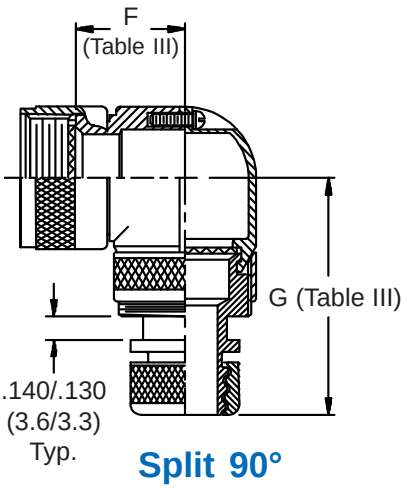
CONNECTOR DESIGNATORS

A-F-H-L-S

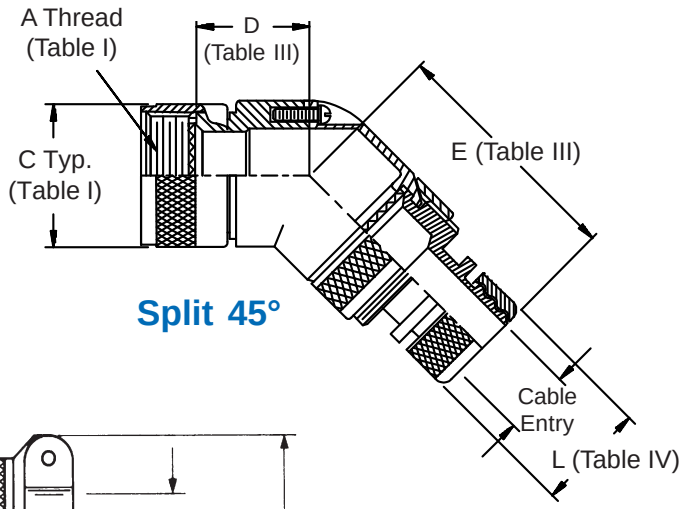
ROTATABLE COUPLING

311 F C 001 M 16 03 E T

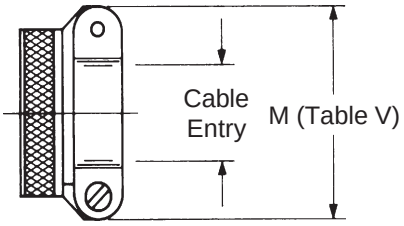
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- E = Strain Relief (Omit for nut)
- Shrink Boot (Table V - Omit for none)



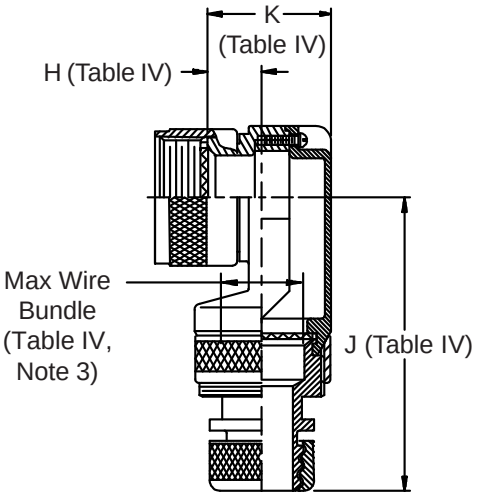
Split 90°



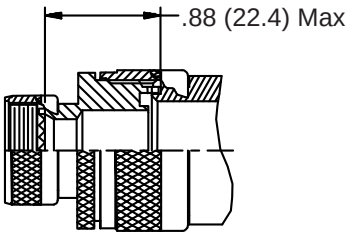
Split 45°



STYLE E
STRAIN RELIEF



Ultra Low-Profile Split 90°



STYLE 2
(See Note 3)

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Complete Finish Information and Additional Finish Options

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311-001
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Rotatable Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: SPLIT 90° and SPLIT 45°

SHELL SIZE A-F-L-S	SHELL SIZE H	D Max	E Max	F Max	G Max
08	09	.440 (11.2)	1.740 (44.2)	.680 (17.3)	1.680 (42.7)
10	11	.500 (12.7)	1.800 (45.7)	.750 (19.1)	1.740 (44.2)
12	13	.560 (14.2)	1.870 (47.5)	.810 (20.6)	1.810 (46.0)
14	15	.620 (15.7)	1.900 (48.3)	.870 (22.1)	1.840 (46.7)
16	17	.680 (17.3)	2.000 (50.8)	.930 (23.6)	1.940 (49.3)
18	19	.750 (19.1)	2.060 (52.3)	1.000 (25.4)	2.000 (50.8)
20	21	.820 (20.8)	2.120 (53.8)	1.060 (26.9)	2.060 (52.3)
22	23	.880 (22.4)	2.180 (55.4)	1.120 (28.4)	2.120 (53.8)
24	25	.940 (23.9)	2.240 (56.9)	1.180 (30.0)	2.340 (59.4)

TABLE IV: ULTRA LOW-PROFILE SPLIT 90°

SHELL SIZE A-F-L-S	SHELL SIZE H	H Ref.	J Max	K Max	Max Wire Bundle
08	09	.340 (8.6)	2.020 (51.3)	.681 (17.3)	.250 (6.4)
10	11	.270 (6.9)	2.180 (55.4)	.731 (18.6)	.375 (9.5)
12	13	.270 (6.9)	2.180 (55.4)	.731 (18.6)	.375 (9.5)
14	15	.280 (7.1)	2.250 (57.2)	.831 (21.1)	.500 (12.7)
16	17	.420 (10.7)	2.300 (58.4)	.981 (24.9)	.625 (15.9)
18	19	.640 (16.3)	2.330 (59.2)	1.181 (30.0)	.625 (15.9)
20	21	.640 (16.3)	2.330 (59.2)	1.181 (30.0)	.625 (15.9)
22	23	.540 (13.7)	2.480 (63.0)	1.181 (30.0)	.750 (19.1)
24	25	.540 (13.7)	2.480 (63.0)	1.181 (30.0)	.750 (19.1)

TABLE V: CABLE ENTRY AND SHRINK BOOT

Dash No.	L Max	M Max	Cable Entry Max	Shrink Boot
01	.448 (11.4)	.781 (19.8)	.125 (3.2)	n/a
02	.515 (13.1)	.968 (24.6)	.250 (6.4)	770-001S103
03	.640 (16.3)	1.046 (26.6)	.375 (9.5)	770-001S103
04	.765 (19.4)	1.156 (29.4)	.500 (12.7)	770-001S104
05	.920 (23.4)	1.219 (31.0)	.625 (15.9)	770-001S104
06	1.015 (25.8)	1.343 (34.1)	.750 (19.1)	770-001S105
07	1.140 (29.0)	1.469 (37.3)	.875 (22.2)	770-001S106
08	1.265 (32.1)	1.594 (40.5)	1.000 (25.4)	770-001S106
09	1.432 (36.4)	1.719 (43.7)	1.125 (28.6)	770-001S107
10	1.515 (38.5)	1.844 (46.8)	1.250 (31.8)	770-001S107

1. Cable Entry is defined as the accommodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.
3. When maximum entry (page 21) is exceeded, Style 2 will be supplied (not available for Function C). Dimensions D, E, F, & G will not apply. Please consult factory.
4. See Shrink Boot Reference Information (pages 40 and 41).
5. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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311-002
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

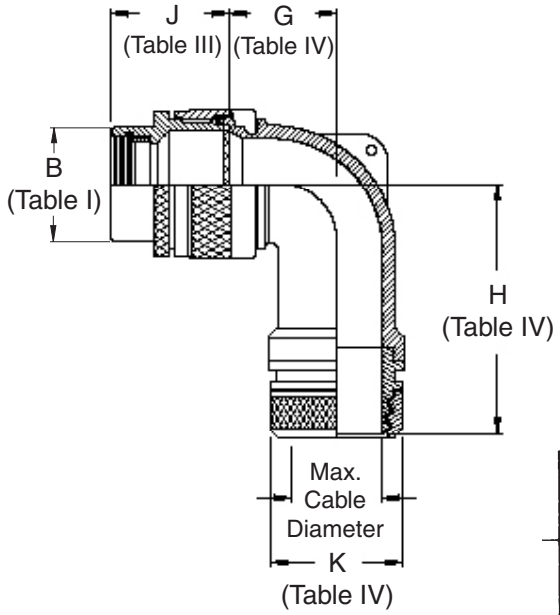
G-H-J-K-L-S

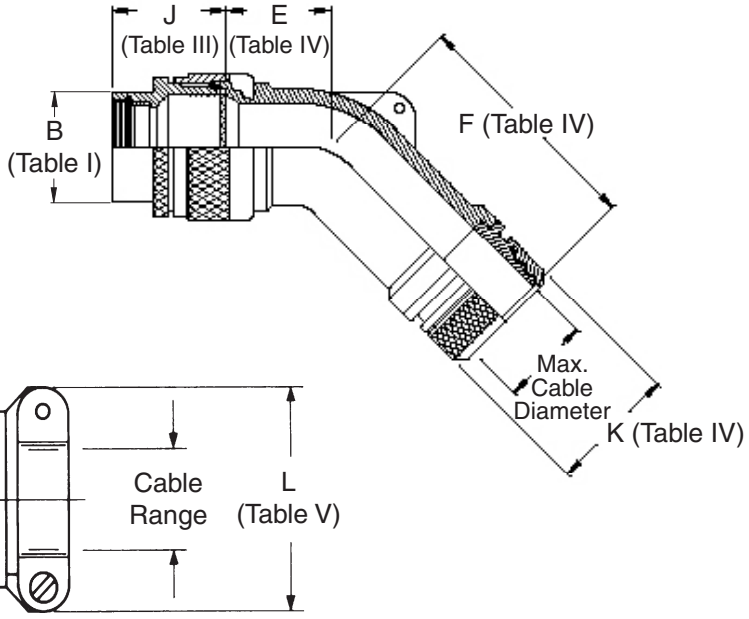
*** Conn. Desig. B See Note 5**

DIRECT COUPLING

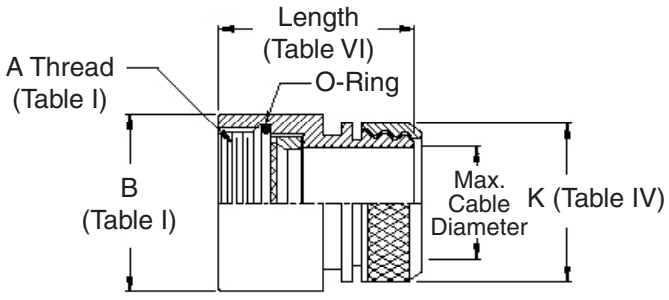
311 F A 002 M 16 03 E T

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- E = Strain Relief (Omit for nut)
- Shrink Boot (Table IV - Omit for none)

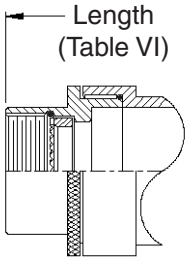




STYLE E
STRAIN RELIEF



STYLE 1



STYLE 2
(STRAIGHT
See Note 4)

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Complete Finish Information and Additional Finish Options

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311-002
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. Cable Entry or range is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. When maximum entry (page 21) is exceeded, Style 2 will be supplied. (Function S only)
5. When using Connector Designator B refer to pages 18 and 19 for part number development.
6. Shrink boot is not applicable for strain relief option. Please consult factory.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735(44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915(48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915(48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915(48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915(48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915(48.6)

TABLE IV: CABLE ENTRY/DIMENSIONS

Dash No.	E Max	F Max	G Max	H Max	K Max	Max Cable Diameter	Shrink Boot
01	.457 (11.6)	1.630 (41.4)	.500 (12.7)	1.640 (41.7)	.448 (11.4)	.125 (3.2)	770-003S111
02	.457 (11.6)	1.630 (41.4)	.500 (12.7)	1.640 (41.7)	.515 (13.1)	.250 (6.4)	770-003S112
03	.520 (13.2)	1.690 (42.9)	.595 (15.1)	1.760 (44.7)	.640 (16.3)	.375 (9.5)	770-001S103
04	.582 (14.8)	1.750 (44.5)	.610 (15.5)	1.780 (45.2)	.765 (19.4)	.500 (12.7)	770-001S103
05	.645 (16.4)	1.840 (46.7)	.700 (17.8)	1.850 (47.0)	.920 (23.4)	.625 (15.9)	770-001S104
06	.738 (18.7)	1.950 (49.5)	.885 (22.5)	1.940 (49.3)	1.015 (25.8)	.750 (19.1)	770-001S104
07	.926 (23.5)	2.140 (54.4)	.975 (24.8)	2.110 (53.6)	1.140 (29.0)	.875 (22.2)	770-001S105
08	.926 (23.5)	2.290 (58.2)	.975 (24.8)	2.220 (56.4)	1.265 (32.1)	1.000 (25.4)	770-001S106
09	1.020 (25.9)	2.290 (58.2)	1.125 (28.6)	2.220 (56.4)	1.432 (36.4)	1.125 (28.6)	770-001S107
10	1.020 (25.9)	2.290 (58.2)	1.125 (28.6)	2.220 (56.4)	1.515 (38.5)	1.250 (31.8)	770-001S107
11	1.145 (29.1)	2.340 (59.4)	1.225 (31.1)	2.390 (60.7)	1.640 (41.7)	1.375 (34.9)	770-001S107
12	1.207 (30.7)	2.440 (62.0)	1.575 (40.0)	2.640 (67.1)	1.765 (44.8)	1.500 (38.1)	770-001S107
13	1.238 (31.4)	2.530 (64.3)	1.775 (45.1)	2.640 (67.1)	2.015 (51.2)	1.750 (44.5)	770-001S108

TABLE V: CABLE ENTRY/DIMENSIONS

Dash No.	L Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.219 (31.0)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.469 (37.3)	.687 (17.4)	.875 (22.2)
08	1.594 (40.5)	.812 (20.6)	1.000 (25.4)
09	1.719 (43.7)	.937 (23.8)	1.125 (28.6)
10	1.844 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE VI: LENGTH

Conn. Desig.	Length (Max) Style 1	Style 2
A	1.750 (44.5)	2.000 (50.8)
B	1.630 (41.4)	1.880 (47.8)
C	2.130 (54.1)	2.380 (60.5)
D	1.630 (41.4)	1.880 (47.8)
E	1.250 (31.8)	1.500 (38.1)
F	1.250 (31.8)	1.500 (38.1)
G	1.750 (44.5)	2.000 (50.8)
H	1.750 (44.5)	2.000 (50.8)
J	1.250 (31.8)	1.500 (38.1)
K	2.130 (54.1)	2.380 (60.5)
L	1.380 (35.1)	1.630 (41.4)
S	1.750 (44.5)	2.000 (50.8)

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311-002
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

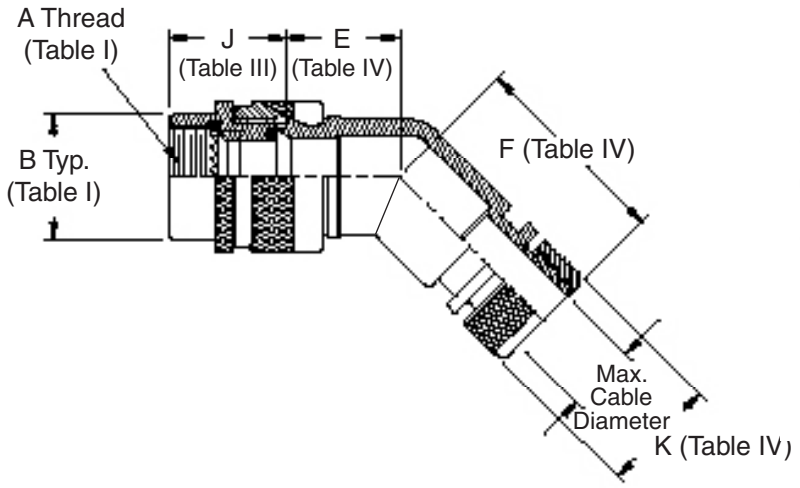
G-H-J-K-L-S

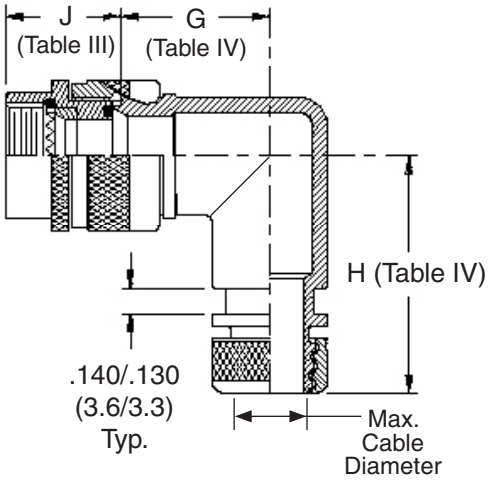
*** Conn. Desig. B See Note 4**

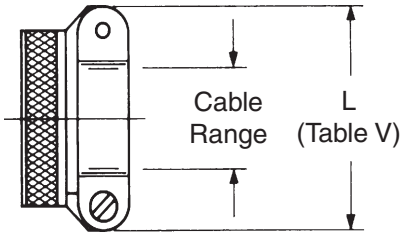
DIRECT COUPLING

311 F J 002 M 16 03 E T

- Product Series
- Connector Designator
- Angle and Profile
  - J = 90°
  - H = 45°
  - See page 311-8 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- E = Strain Relief (Omit for nut)
- Shrink Boot (Table IV - Omit for none)







STYLE E
STRAIN RELIEF

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311-002
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Direct Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. Cable Entry or range is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. When using Connector Designator B refer to pages 18 and 19 for part number development.
5. Shrink boot is not applicable for strain relief option. Please consult factory.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735(44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915(48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915(48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915(48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915(48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915(48.6)

TABLE IV: CABLE ENTRY/DIMENSIONS/SHRINK BOOT

Dash No.	E Max	F Max	G Max	H Max	K Max	Max Cable Diameter	Shrink Boot
01	.639 (16.2)	1.078 (27.4)	.750 (19.1)	1.188 (30.2)	.448 (11.4)	.125 (3.2)	770-003S111
02	.664 (16.9)	1.108 (28.1)	.810 (20.6)	1.248 (31.7)	.515 (13.1)	.250 (6.4)	770-003S112
03	.688 (17.5)	1.128 (28.7)	.870 (22.1)	1.308 (33.2)	.640 (16.3)	.375 (9.5)	770-001S103
04	.705 (17.9)	1.158 (29.4)	.920 (23.4)	1.378 (35.0)	.765 (19.4)	.500 (12.7)	770-001S103
05	.732 (18.6)	1.178 (29.9)	.980 (24.9)	1.438 (36.5)	.920 (23.4)	.625 (15.9)	770-001S104
06	.773 (19.6)	1.208 (30.7)	1.080 (27.4)	1.518 (38.6)	1.015 (25.8)	.750 (19.1)	770-001S104
07	.800 (20.3)	1.248 (31.7)	1.140 (29.0)	1.598 (40.6)	1.140 (29.0)	.875 (22.2)	770-001S105
08	.823 (20.9)	1.278 (32.5)	1.200 (30.5)	1.668 (42.4)	1.265 (32.1)	1.000 (25.4)	770-001S106
09	.823 (20.9)	1.278 (32.5)	1.200 (30.5)	1.668 (42.4)	1.432 (36.4)	1.125 (28.6)	770-001S107
10	1.041 (26.4)	1.448 (36.8)	1.480 (37.6)	1.908 (48.5)	1.515 (38.5)	1.250 (31.8)	770-001S107
11	1.041 (26.4)	1.448 (36.8)	1.480 (37.6)	1.908 (48.5)	1.640 (41.7)	1.375 (34.9)	770-001S107
12	1.092 (27.7)	1.488 (37.8)	1.610 (40.9)	1.998 (50.7)	1.765 (44.8)	1.500 (38.1)	770-001S107
13	1.136 (28.9)	1.538 (39.1)	1.720 (43.7)	2.108 (53.5)	2.015 (51.2)	1.750 (44.5)	770-001S108

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Complete Finish Information and Additional Finish Options

TABLE V: CABLE ENTRY/DIMENSIONS

Dash No.	L Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.219 (31.0)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.469 (37.3)	.687 (17.4)	.875 (22.2)
08	1.594 (40.5)	.812 (20.6)	1.000 (25.4)
09	1.719 (43.7)	.937 (23.8)	1.125 (28.6)
10	1.844 (46.8)	1.062 (27.0)	1.250 (31.8)

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311-039
Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Self-Locking - Rotatable Coupling - Standard Profile

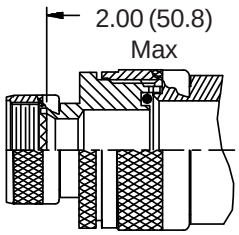
CONNECTOR DESIGNATORS

A-F-H-L-S

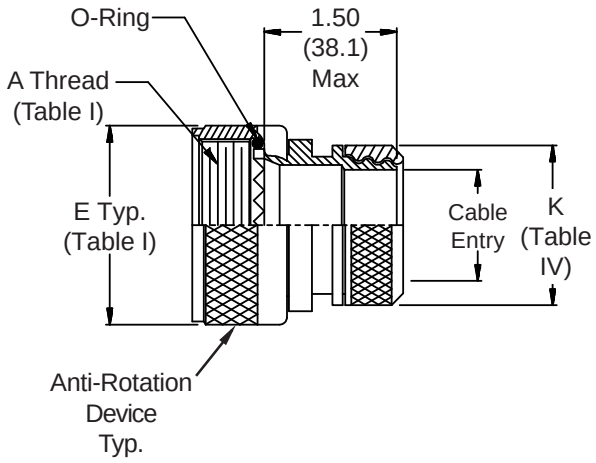
SELF-LOCKING ROTATABLE COUPLING

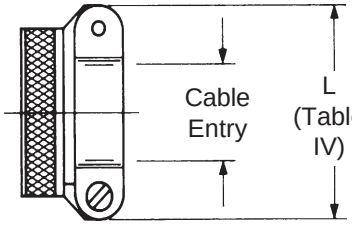
311 F J 039 M 16 03 E T

- Product Series
- Connector Designator
- Angle and Profile
  - J = 90°
  - H = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- E = Strain Relief (Omit for nut)
- Shrink Boot (Table IV - Omit for none)

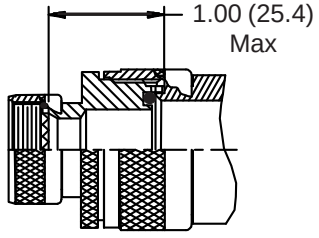


STYLE 2 (STRAIGHT See Note 5)

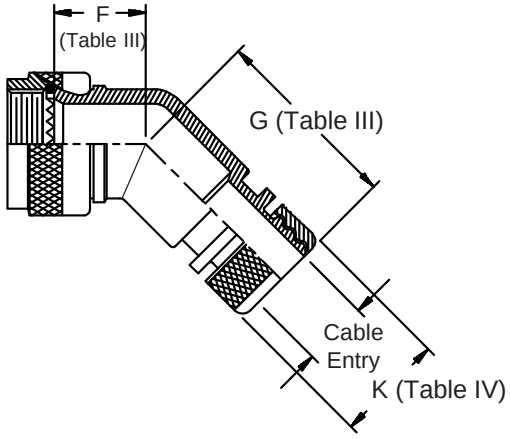


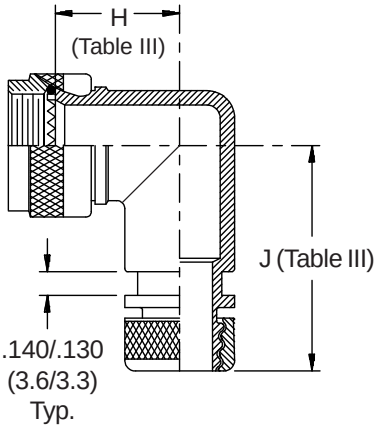


STYLE E STRAIN RELIEF



STYLE 2 (45° & 90° See Note 5)





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Lamp-Base Thread EMI/RFI Shrink Boot Adapter
with Strain Relief and Optional Shrink Boot
Self-Locking - Rotatable Coupling - Standard Profile

See inside back cover fold-out
or pages 13 and 14
for Tables I and II.

TABLE III: DIMENSIONS

SHELL SIZE A-F-L-S	SHELL SIZE H	F Max	G Max	H Max	J Max
08	09	.795 (20.2)	1.045 (26.5)	.906 (23.0)	1.155 (29.3)
10	11	.820 (20.8)	1.075 (27.3)	.966 (24.5)	1.225 (31.1)
12	13	.844 (21.4)	1.097 (27.9)	1.026 (26.1)	1.285 (32.6)
14	15	.861 (21.9)	1.125 (28.6)	1.076 (27.3)	1.345 (34.2)
16	17	.888 (22.6)	1.145 (29.1)	1.136 (28.9)	1.405 (35.7)
18	19	.904 (23.0)	1.165 (29.6)	1.176 (29.9)	1.455 (37.0)
20	21	.929 (23.6)	1.195 (30.4)	1.236 (31.4)	1.525 (38.7)
22	23	.956 (24.3)	1.215 (30.9)	1.296 (32.9)	1.575 (40.0)
24	25	.979 (24.9)	1.245 (31.6)	1.356 (34.4)	1.645 (41.8)

TABLE IV: CABLE ENTRY/DIMENSIONS/SHRINK BOOT

Dash No.	K Max	L Max	Cable Entry Max	Shrink Boot
01	.448 (11.4)	.781 (19.8)	.125 (3.2)	770-003S111
02	.515 (13.1)	.968 (24.6)	.250 (6.4)	770-003S112
03	.640 (16.3)	1.046 (26.6)	.375 (9.5)	770-003S103
04	.765 (19.4)	1.156 (29.4)	.500 (12.7)	770-001S103
05	.920 (23.4)	1.219 (31.0)	.625 (15.9)	770-001S104
06	1.015 (25.8)	1.343 (34.1)	.750 (19.1)	770-001S104
07	1.140 (29.0)	1.469 (37.3)	.875 (22.2)	770-001S105
08	1.265 (32.1)	1.594 (40.5)	1.000 (25.4)	770-001S106
09	1.432 (36.4)	1.719 (43.7)	1.125 (28.6)	770-001S107

1. Cable Entry is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. O-Ring not supplied with Connector Designator A.
5. When maximum entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H & J will not apply. Please consult factory.

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Complete Finish Information and Additional Finish Options

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311-039
Non Environmental Lamp-Base Thread EMI Adapter
with Strain Relief and Optional Shrink Boot
Self-Locking - Rotatable Coupling - Split Shell

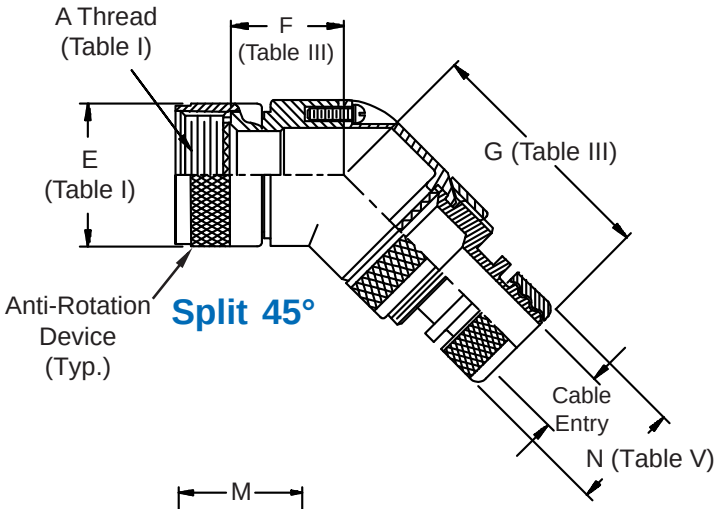
CONNECTOR DESIGNATORS

A-F-H-L-S

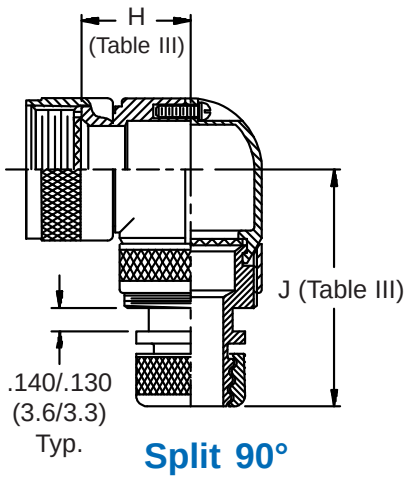
SELF-LOCKING ROTATABLE COUPLING

311 F C 039 M 16 03 E T

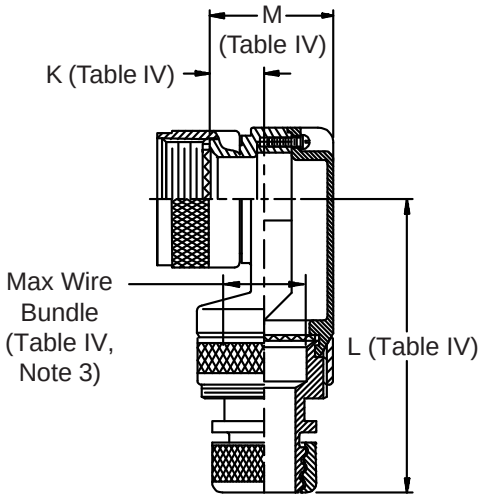
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- E = Strain Relief (Omit for nut)
- Shrink Boot (Table V - Omit for none)



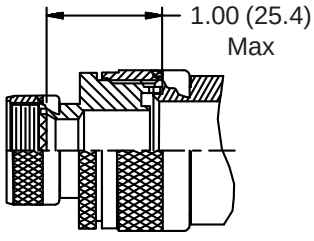
Split 45°



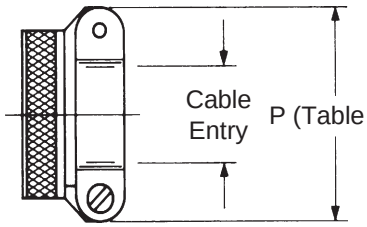
Split 90°



Ultra Low-Profile Split 90°



STYLE 2
(See Note 3)



STYLE E
STRAIN RELIEF

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311-039
Non Environmental Lamp-Base Thread EMI Adapter
with Strain Relief and Optional Shrink Boot
Self-Locking - Rotatable Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: SPLIT 90° and SPLIT 45°

SHELL SIZE A-F-L-S	SHELL SIZE H	F Max	G Max	H Max	J Max
08	09	.596 (15.1)	1.740 (44.2)	.836 (21.2)	1.680 (42.7)
10	11	.656 (16.7)	1.800 (45.7)	.906 (23.0)	1.740 (44.2)
12	13	.716 (18.2)	1.870 (47.5)	.966 (24.5)	1.810 (46.0)
14	15	.776 (19.7)	1.900 (48.3)	1.026 (26.1)	1.840 (46.7)
16	17	.836 (21.2)	2.000 (50.8)	1.086 (27.6)	1.940 (49.3)
18	19	.906 (23.0)	2.060 (52.3)	1.156 (29.4)	2.000 (50.8)
20	21	.976 (24.8)	2.120 (53.8)	1.216 (30.9)	2.060 (52.3)
22	23	1.036 (26.3)	2.180 (55.4)	1.276 (32.4)	2.120 (53.8)
24	25	1.096 (27.8)	2.240 (56.9)	1.336 (33.9)	2.340 (59.4)

TABLE IV: ULTRA LOW-PROFILE SPLIT 90°

SHELL SIZE A-F-L-S	SHELL SIZE H	K Ref.	L Max	M Max	Max Wire Bundle
08	09	.496 (12.6)	2.020 (51.3)	.837 (21.3)	.250 (6.4)
10	11	.426 (10.8)	2.180 (55.4)	.887 (22.5)	.375 (9.5)
12	13	.426 (10.8)	2.180 (55.4)	.887 (22.5)	.375 (9.5)
14	15	.436 (11.1)	2.250 (57.2)	.987 (25.1)	.500 (12.7)
16	17	.576 (14.6)	2.300 (58.4)	1.137 (28.9)	.625 (15.9)
18	19	.796 (20.2)	2.330 (59.2)	1.337 (34.0)	.625 (15.9)
20	21	.796 (20.2)	2.330 (59.2)	1.337 (34.0)	.625 (15.9)
22	23	.696 (17.7)	2.480 (63.0)	1.337 (34.0)	.750 (19.1)
24	25	.696 (17.7)	2.480 (63.0)	1.337 (34.0)	.750 (19.1)

1. Cable Entry is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.
3. When maximum entry (page 21) is exceeded, Style 2 will be supplied (not available for Function C). Dimensions F, G, H, & J will not apply. Please consult factory.
4. See Shrink Boot Reference Information (page 40).
5. Angular function "C", low-profile split elbow, not available with "S" connector designator.

TABLE V: CABLE ENTRY/SHRINK BOOT/DIMENSIONS

Dash No.	N Max	P Max	Cable Entry Max	Shrink Boot
01	.448 (11.4)	.781 (19.8)	.125 (3.2)	n/a
02	.515 (13.1)	.968 (24.6)	.250 (6.4)	770-001S103
03	.640 (16.3)	1.046 (26.6)	.375 (9.5)	770-001S103
04	.765 (19.4)	1.156 (29.4)	.500 (12.7)	770-001S104
05	.920 (23.4)	1.219 (31.0)	.625 (15.9)	770-001S104
06	1.015 (25.8)	1.343 (34.1)	.750 (19.1)	770-001S105
07	1.140 (29.0)	1.469 (37.3)	.875 (22.2)	770-001S106
08	1.265 (32.1)	1.594 (40.5)	1.000 (25.4)	770-001S106
09	1.432 (36.4)	1.719 (43.7)	1.125 (28.6)	770-001S107
10	1.515 (38.5)	1.844 (46.8)	1.250 (31.8)	770-001S107

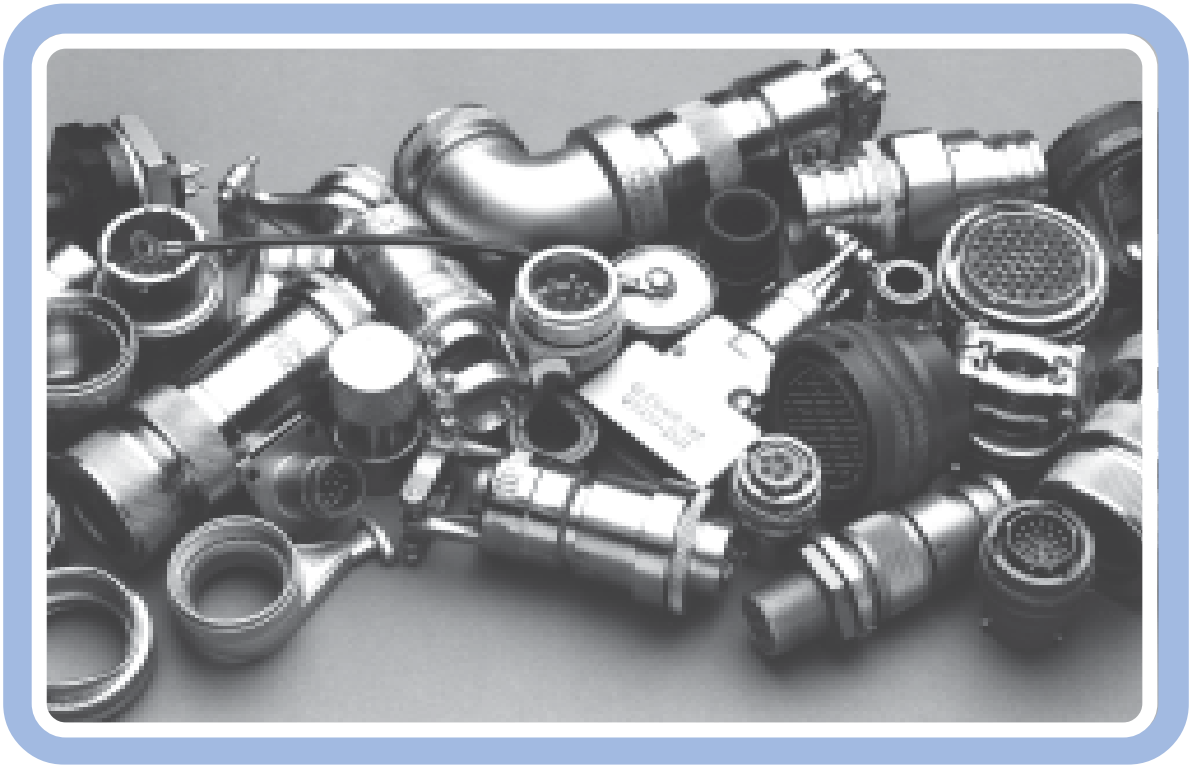
TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Complete Finish Information and Additional Finish Options

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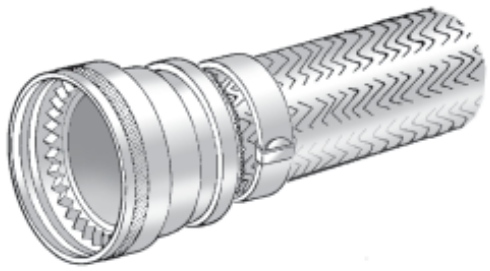

Backshell assembly and termination tools

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PRODUCT FEATURES

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319-001
EMI/RFI Shield Sock Shrink Boot Adapter
with Optional Shrink Boot
Low Profile - Rotatable Coupling

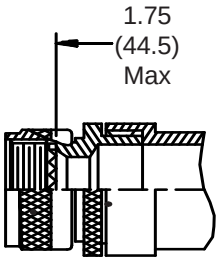
CONNECTOR DESIGNATORS

A-F-H-L-S

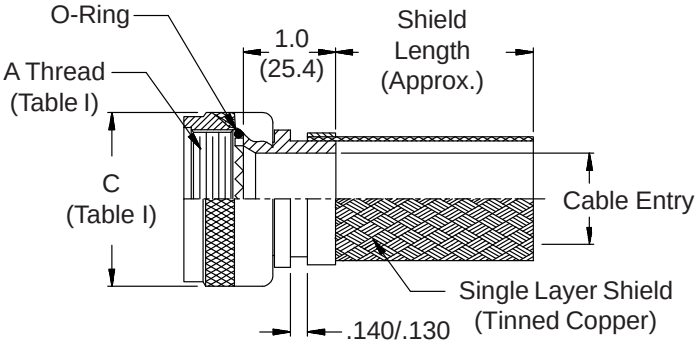
ROTATABLE COUPLING

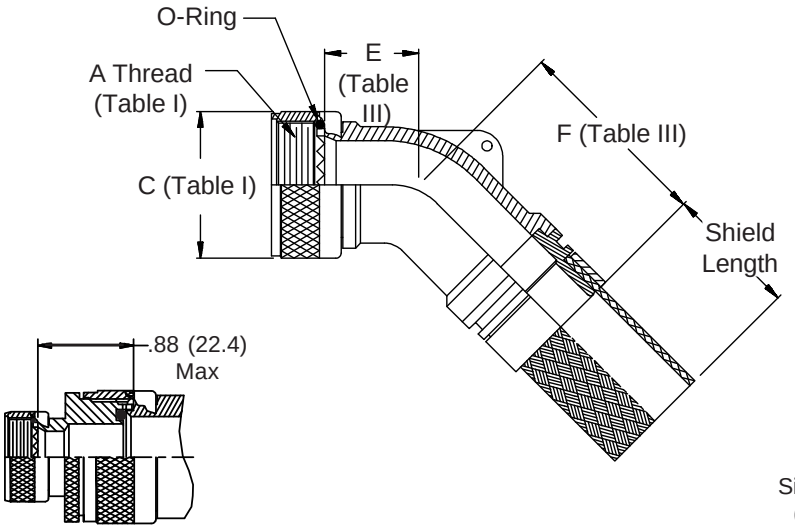
319 F S 001 M 16 06-6 T

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Shield Length (1 inch increments: Minimum 6 inches)
- Shrink Boot (Table IV - Omit for None)

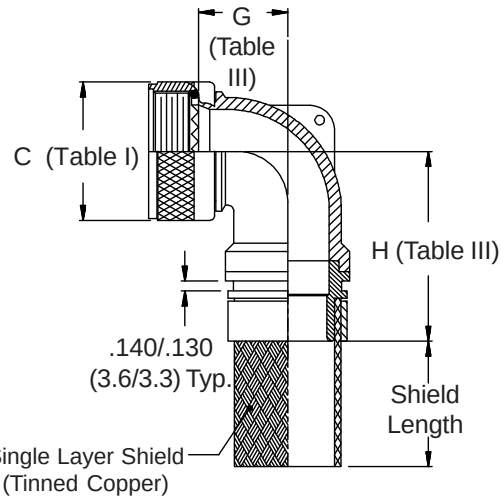


STYLE 2 (STRAIGHT See Note 5)





STYLE 2 (45° & 90° See Note 5)



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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.457 (11.6)	1.710 (43.4)	.500 (12.7)	1.730 (43.9)
10	11	.520 (13.2)	1.770 (45.0)	.595 (15.1)	1.850 (47.0)
12	13	.582 (14.8)	1.830 (46.5)	.610 (15.5)	1.870 (47.5)
14	15	.645 (16.4)	1.920 (48.8)	.700 (17.8)	1.940 (49.3)
16	17	.738 (18.7)	2.030 (51.6)	.885 (22.5)	2.030 (51.6)
18	19	.926 (23.5)	2.220 (56.4)	.975 (24.8)	2.200 (55.9)
20	21	.926 (23.5)	2.220 (56.4)	.975 (24.8)	2.200 (55.9)
22	23	1.020 (25.9)	2.370 (60.2)	1.125 (28.6)	2.310 (58.7)
24	25	1.020 (25.9)	2.370 (60.2)	1.125 (28.6)	2.310 (58.7)
28		1.145 (29.1)	2.420 (61.5)	1.225 (31.1)	2.480 (63.0)
32		1.207 (30.7)	2.520 (64.0)	1.575 (40.0)	2.730 (69.3)
36		1.238 (31.4)	2.610 (66.3)	1.775 (45.1)	2.730 (69.3)

TABLE IV: CABLE ENTRY/SHRINK BOOT

Dash No.	Cable Entry	Shrink Boot *
01	.188 (4.8)	n/a
02	.250 (6.4)	n/a
03	.312 (7.9)	770-001S103
04	.375 (9.5)	770-001S103
05	.438 (11.1)	770-001S103
06	.500 (12.7)	770-001S104
07	.562 (14.3)	770-001S104
08	.625 (15.9)	770-001S104
09	.688 (17.5)	770-001S105
10	.750 (19.1)	770-001S105
11	.812 (20.6)	770-001S105
12	.875 (22.2)	770-001S106
13	.938 (23.8)	770-001S106
14	1.000 (25.4)	770-001S106
15	1.250 (31.8)	770-001S107
16	1.500 (38.1)	770-001S108
17	1.750 (44.5)	n/a
18	2.000 (50.8)	n/a
19	1.125 (28.6)	n/a
20	1.375 (34.9)	n/a
21	1.625 (41.3)	n/a
22	1.062 (27.0)	n/a
23	1.188 (30.2)	n/a
24	1.875 (47.6)	n/a

1. Cable Entry or range is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. O-Ring not supplied with Connector Designator A.
5. When maximum entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, & H will not apply. Please consult factory.

TABLE II - STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

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319-001
EMI/RFI Shield Sock Shrink Boot Adapter
with Optional Shrink Boot
Standard Profile - Rotatable Coupling

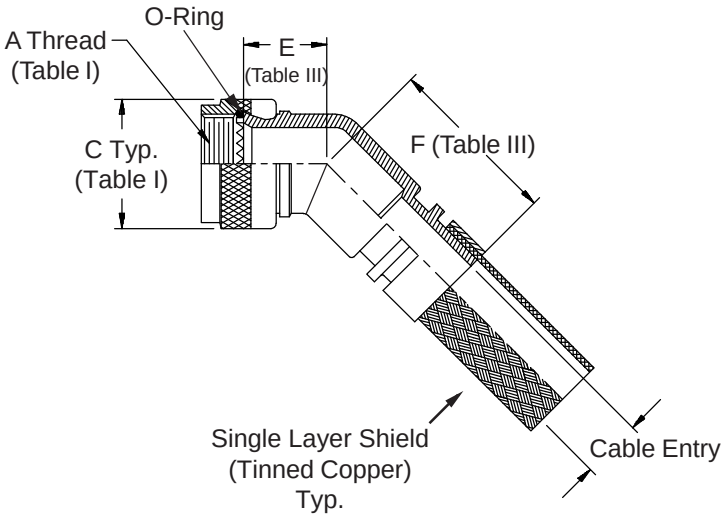
CONNECTOR DESIGNATORS

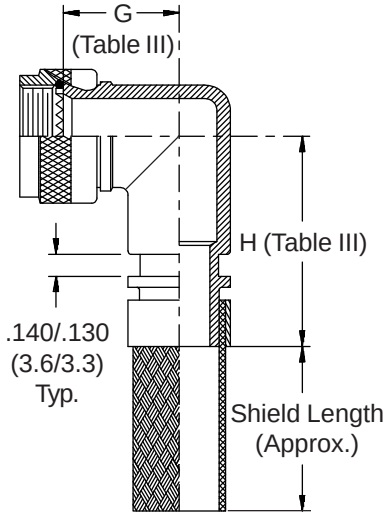
A-F-H-L-S

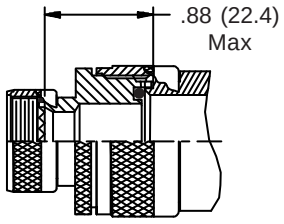
ROTATABLE COUPLING

319 F J 001 M 16 06-6 T

- Product Series
- Connector Designator
- Angle and Profile
  - J = 90°
  - H = 45°
  - See page 319-2 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Shield Length (1 inch increments: Minimum 6 inches)
- Shrink Boot (Table IV - Omit for None)







STYLE 2
(45° & 90°
See Note 5)

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319-001
EMI/RFI Shield Sock Shrink Boot Adapter
with Optional Shrink Boot
Standard Profile - Rotatable Coupling

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.830 (21.1)	1.045 (26.5)	.940 (23.9)	1.155 (29.3)
10	11	.860 (21.8)	1.075 (27.3)	1.010 (25.7)	1.225 (31.1)
12	13	.882 (22.4)	1.097 (27.9)	1.070 (27.2)	1.285 (32.6)
14	15	.900 (22.9)	1.125 (28.6)	1.130 (28.7)	1.345 (34.2)
16	17	.930 (23.6)	1.145 (29.1)	1.190 (30.2)	1.405 (35.7)
18	19	.950 (24.1)	1.165 (29.6)	1.240 (31.5)	1.455 (37.0)
20	21	.980 (24.9)	1.195 (30.4)	1.310 (33.3)	1.525 (38.7)
22	23	1.000 (25.4)	1.215 (30.9)	1.360 (34.5)	1.575 (40.0)
24	25	1.030 (26.2)	1.245 (31.6)	1.430 (36.3)	1.645 (41.8)

1. Cable Entry is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. O-Ring not supplied with Connector Designator A.
5. When maximum entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, & H will not apply. Please consult factory.

TABLE IV: CABLE ENTRY/SHRINK BOOT

Dash No.	Cable Entry	Shrink Boot
01	.188 (4.8)	n/a
02	.250 (6.4)	n/a
03	.312 (7.9)	770-001S103
04	.375 (9.5)	770-001S103
05	.438 (11.1)	770-001S103
06	.500 (12.7)	770-001S104
07	.562 (14.3)	770-001S104
08	.625 (15.9)	770-001S104
09	.688 (17.5)	770-001S105
10	.750 (19.1)	770-001S105
11	.812 (20.6)	770-001S105
12	.875 (22.2)	770-001S106
13	.938 (23.8)	770-001S106
14	1.000 (25.4)	770-001S106
15	1.250 (31.8)	770-001S107
16	1.500 (38.1)	770-001S108
17	1.750 (44.5)	n/a
18	2.000 (50.8)	n/a
19	1.125 (28.6)	n/a
20	1.375 (34.9)	n/a
21	1.625 (41.3)	n/a
22	1.062 (27.0)	n/a
23	1.188 (30.2)	n/a
24	1.875 (47.6)	n/a

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

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319-001
EMI/RFI Shield Sock Shrink Boot Adapter
with Optional Shrink Boot
Split Shell - Rotatable Coupling

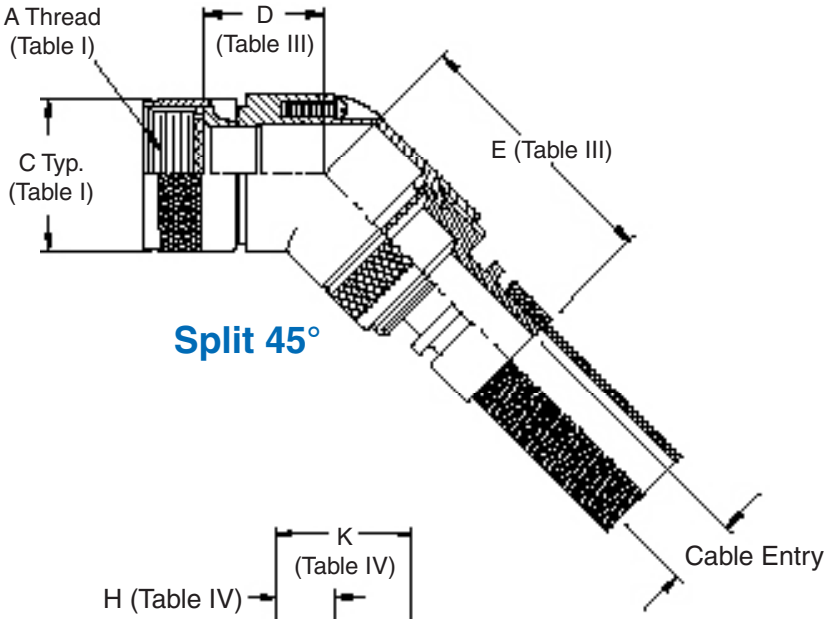
CONNECTOR DESIGNATORS

A-F-H-L-S

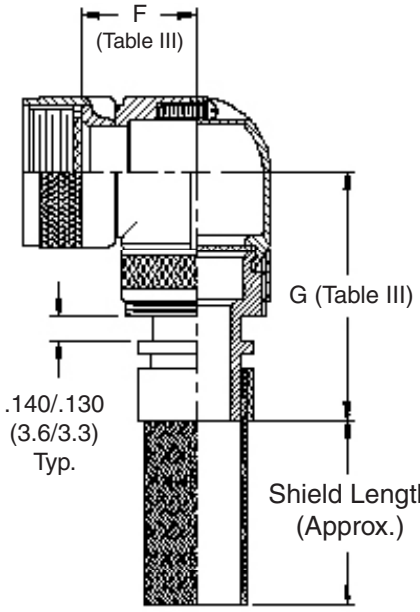
ROTATABLE COUPLING

319 F C 001 M 16 06-6 T

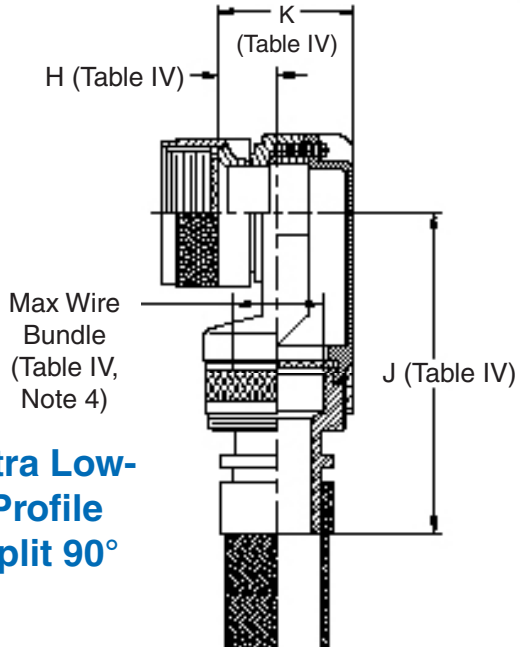
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- Shield Length (1 inch increments: Minimum 4 inches)
- Shrink Boot (Table V - Omit for None)



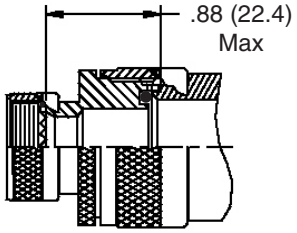
Split 45°



Split 90°



Ultra Low-Profile Split 90°



STYLE 2
(See Note 4)

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EMI/RFI Shield Sock Shrink Boot Adapter
with Optional Shrink Boot
Split Shell - Rotatable Coupling

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: SPLIT 90° and SPLIT 45°

SHELL SIZE A-F-L-S	SHELL SIZE H	D Max	E Max	F Max	G Max
08	09	.440 (11.2)	1.500 (38.1)	.680 (17.3)	1.440 (36.6)
10	11	.500 (12.7)	1.560 (39.6)	.750 (19.1)	1.500 (38.1)
12	13	.560 (14.2)	1.630 (41.4)	.810 (20.6)	1.570 (39.9)
14	15	.620 (15.7)	1.660 (42.2)	.870 (22.1)	1.600 (40.6)
16	17	.680 (17.3)	1.760 (44.7)	.930 (23.6)	1.700 (43.2)
18	19	.750 (19.1)	1.820 (46.2)	1.000 (25.4)	1.760 (44.7)
20	21	.820 (20.8)	1.880 (47.8)	1.060 (26.9)	1.820 (46.2)
22	23	.880 (22.4)	1.940 (49.3)	1.120 (28.4)	1.880 (47.8)
24	25	.940 (23.9)	2.000 (50.8)	1.180 (30.3)	1.940 (49.3)

TABLE IV: ULTRA LOW-PROFILE SPLIT 90°

SHELL SIZE A-F-L-S	SHELL SIZE H	H Ref.	J Max	K Max	Max Wire Bundle
08	09	.340 (8.6)	1.780 (45.2)	.681 (17.3)	.250 (6.4)
10	11	.270 (6.9)	1.940 (49.3)	.731 (18.6)	.375 (9.5)
12	13	.270 (6.9)	1.940 (49.3)	.731 (18.6)	.375 (9.5)
14	15	.280 (7.1)	2.010 (51.1)	.831 (21.1)	.500 (12.7)
16	17	.420 (10.7)	2.060 (52.3)	.981 (24.9)	.625 (15.9)
18	19	.640 (16.3)	2.090 (53.1)	1.181 (30.0)	.625 (15.9)
20	21	.640 (16.3)	2.090 (53.1)	1.181 (30.0)	.625 (15.9)
22	23	.540 (13.7)	2.240 (56.9)	1.181 (30.0)	.750 (19.1)
24	25	.540 (13.7)	2.240 (56.9)	1.181 (30.0)	.750 (19.1)

1. Cable Entry is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information Sheet (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. When maximum entry (page 21) is exceeded, Style 2 will be supplied (not available for Function C). Dimensions D, E, F, & G will not apply. Please consult factory.
5. Angular function "C", low-profile split elbow, not available with "S" connector designator.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

TABLE V: CABLE ENTRY/BOOT

Dash No.	Cable Entry	Shrink Boot *
01	.188 (4.8)	N/A
02	.250 (6.4)	N/A
03	.312 (7.9)	770-0015103
04	.375 (9.5)	770-0015103
05	.438 (11.1)	770-0015103
06	.500 (12.7)	770-0015104
07	.562 (14.3)	770-0015104
08	.625 (15.9)	770-0015104
09	.688 (17.5)	770-0015105
10	.750 (19.1)	770-0015105
11	.812 (20.6)	770-0015105
12	.875 (22.2)	770-0015106
13	.938 (23.8)	770-0015106
14	1.000 (25.4)	770-0015106

* Raychem Shrink Boot Supplied with "T" Option (see Part Number Development)

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319-043
EMI/RFI Shield Sock Shrink Boot Adapter
with Optional Shrink Boot
Standard Profile - Direct Coupling

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

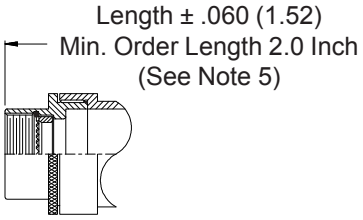
G-H-J-K-L-S

*** Conn. Desig. B See Note 6**

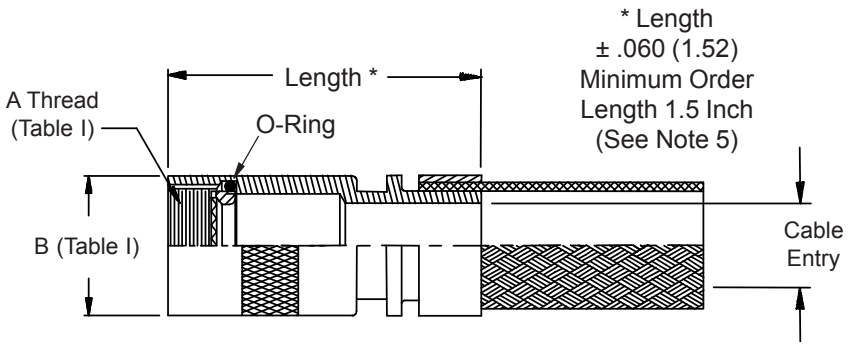
DIRECT COUPLING

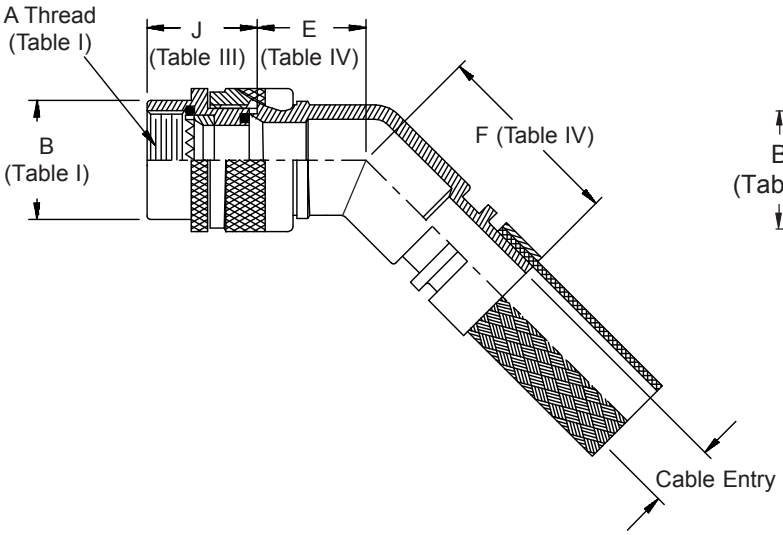
319 F J 043 M 16 06-6-4 T

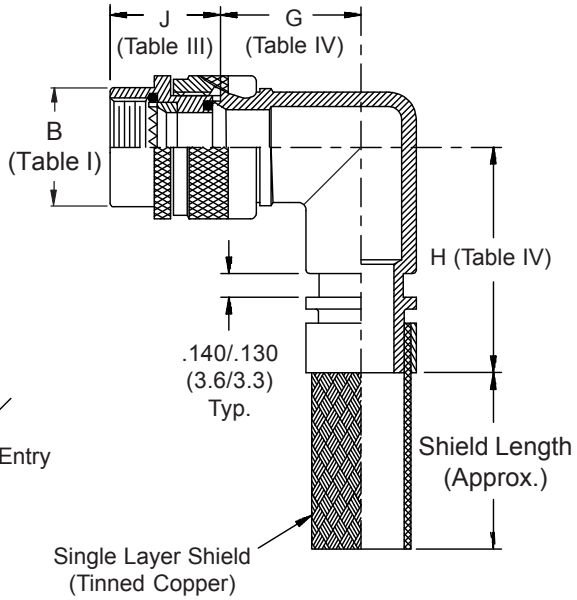
- Product Series
- Connector Designator
- Angle and Profile
  - J = 90°
  - H = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Shield Length (1 inch increments: Minimum 6 inches)
- Length: S only (1/2 inch increments: e.g. 4 = 2 inches)
- Shrink Boot (Table IV - Omit for None)



STYLE 2 (STRAIGHT See Note 7)







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319-043
EMI/RFI Shield Sock Shrink Boot Adapter
with Optional Shrink Boot
Standard Profile - Direct Coupling

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: DIMENSIONS

Dash No.	E Max	F Max	G Max	H Max
01	.639 (16.2)	.952 (24.2)	.750 (19.1)	1.062 (27.0)
02	.664 (16.9)	.982 (24.9)	.810 (20.6)	1.122 (28.5)
03	.688 (17.5)	1.002 (25.5)	.870 (22.1)	1.182 (30.0)
04	.688 (17.5)	1.002 (25.5)	.870 (22.1)	1.182 (30.0)
05	.705 (17.9)	1.032 (26.2)	.920 (23.4)	1.252 (31.8)
06	.705 (17.9)	1.032 (26.2)	.920 (23.4)	1.252 (31.8)
07	.732 (18.6)	1.052 (26.7)	.980 (24.9)	1.312 (33.3)
08	.732 (18.6)	1.052 (26.7)	.980 (24.9)	1.312 (33.3)
09	.748 (19.0)	1.062 (27.0)	1.020 (25.9)	1.332 (33.8)
10	.773 (19.6)	1.082 (27.5)	1.080 (27.4)	1.392 (35.4)
11	.773 (19.6)	1.082 (27.5)	1.080 (27.4)	1.392 (35.4)
12	.800 (20.3)	1.122 (28.5)	1.140 (29.0)	1.472 (37.4)
13	.800 (20.3)	1.122 (28.5)	1.140 (29.0)	1.472 (37.4)
14	.823 (20.9)	1.152 (29.3)	1.200 (30.5)	1.542 (39.2)
15	1.041 (26.4)	1.322 (33.6)	1.480 (37.6)	1.782 (45.3)
16	1.092 (27.7)	1.362 (34.6)	1.610 (40.9)	1.872 (47.5)
17	1.138 (28.9)	1.412 (35.9)	1.720 (43.7)	1.982 (50.3)
18	1.184 (30.1)	1.452 (36.9)	1.830 (46.5)	2.092 (53.1)
19	.823 (20.9)	1.152 (29.3)	1.200 (30.5)	1.542 (39.2)
20	1.041 (26.4)	1.322 (33.6)	1.480 (37.6)	1.780 (45.2)
21	1.092 (27.7)	1.362 (34.6)	1.610 (40.9)	1.872 (47.5)

TABLE V: CABLE ENTRY SHRINK BOOT

Dash No.	Cable Entry	Shrink Boot
01	.188 (4.8)	n/a
02	.250 (6.4)	n/a
03	.312 (7.9)	770-001S103
04	.375 (9.5)	770-001S103
05	.438 (11.1)	770-001S103
06	.500 (12.7)	770-001S104
07	.562 (14.3)	770-001S104
08	.625 (15.9)	770-001S104
09	.688 (17.5)	770-001S105
10	.750 (19.1)	770-001S105
11	.812 (20.6)	770-001S105
12	.875 (22.2)	770-001S106
13	.938 (23.8)	770-001S106
14	1.000 (25.4)	770-001S106
15	1.250 (31.8)	770-001S107
16	1.500 (38.1)	770-001S108
17	1.750 (44.5)	n/a
18	2.000 (50.8)	n/a
19	1.125 (28.6)	n/a
20	1.375 (34.9)	n/a
21	1.625 (41.3)	n/a
22	1.062 (27.0)	n/a
23	1.188 (30.2)	n/a
24	1.875 (47.6)	n/a

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

1. Cable Entry or range is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. O-Ring not supplied with Connector Designator A.
5. Consult factory for shorter lengths on straight backshells.
6. When using Connector Designator B refer to pages 18 and 19 for part number development.
7. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only.)

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319-044
EMI/RFI Shield Sock Shrink Boot Adapter
with Optional Shrink Boot
Standard Profile - Self Locking - Rotatable Coupling

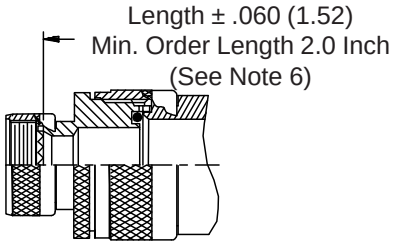
CONNECTOR DESIGNATORS

A-F-H-L-S

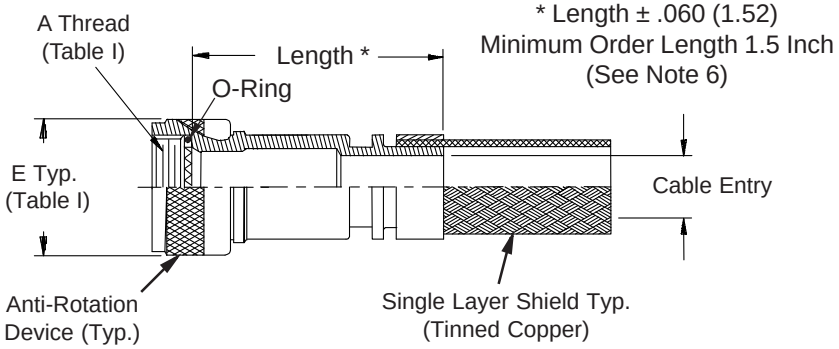
SELF-LOCKING ROTATABLE COUPLING

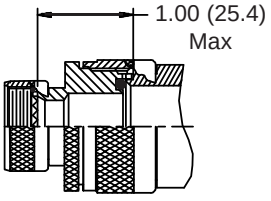
319 F J 044 M 16 06-6-4 T

- Product Series: 319
- Connector Designator: F
- Angle and Profile: J
  - J = 90°
  - H = 45°
  - S = Straight
- Basic Part No.: 044
- Finish (Table II): M
- Shell Size (Table I): 16
- Cable Entry (Table IV): 06
- Shield Length (1 inch increments: Minimum 6 inches): 6
- Length: S only (1/2 inch increments: e.g. 4 = 2 inches): 4
- Shrink Boot (Table IV - Omit for None): T

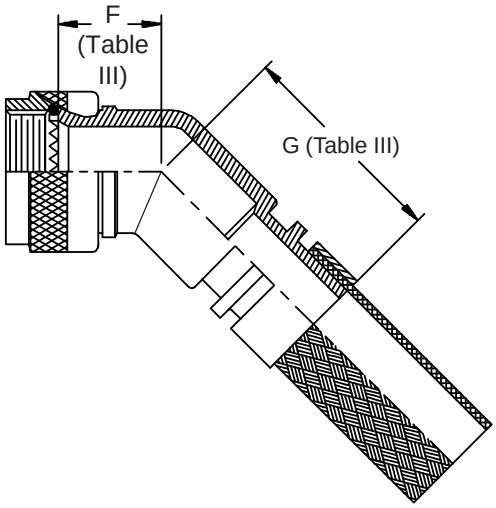


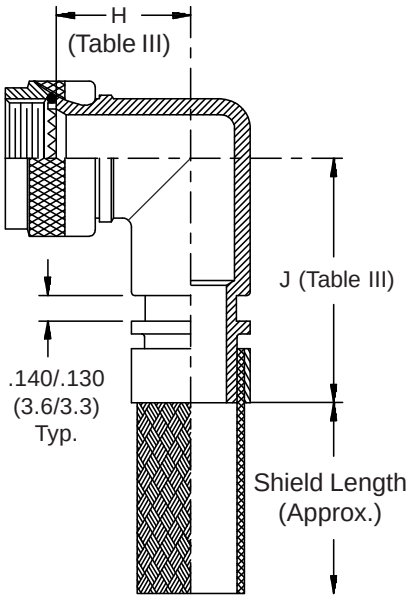
STYLE 2 (STRAIGHT See Note 5)





STYLE 2 (45° & 90° See Note 5)





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319-044
EMI/RFI Shield Sock Shrink Boot Adapter
with Optional Shrink Boot
Standard Profile - Self Locking - Rotatable Coupling

See inside back cover fold-out or
pages 13 and 14 for unabridged Tables I and II.

TABLE III: DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.986	(25.0)	1.045	(26.5)	1.096	(27.8)	1.155	(29.3)
10	11	1.016	(25.8)	1.075	(27.3)	1.166	(29.6)	1.225	(31.1)
12	13	1.038	(26.4)	1.097	(27.9)	1.226	(31.1)	1.285	(32.6)
14	15	1.056	(26.8)	1.125	(28.6)	1.286	(32.7)	1.345	(34.2)
16	17	1.066	(27.1)	1.145	(29.1)	1.346	(34.2)	1.405	(35.7)
18	19	1.106	(28.1)	1.165	(29.6)	1.396	(35.5)	1.455	(37.0)
20	21	1.136	(28.9)	1.195	(30.4)	1.466	(37.2)	1.525	(38.7)
22	23	1.156	(29.4)	1.215	(30.9)	1.516	(38.5)	1.575	(40.0)
24	25	1.186	(30.1)	1.245	(31.6)	1.586	(40.3)	1.645	(41.8)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

TABLE IV: CABLE ENTRY/SHRINK BOOT

Dash No.	Cable Entry		Shrink Boot
01	.188	(4.8)	n/a
02	.250	(6.4)	n/a
03	.312	(7.9)	770-001S103
04	.375	(9.5)	770-001S103
05	.438	(11.1)	770-001S103
06	.500	(12.7)	770-001S104
07	.562	(14.3)	770-001S104
08	.625	(15.9)	770-001S104
09	.688	(17.5)	770-001S105
10	.750	(19.1)	770-001S105
11	.812	(20.6)	770-001S105
12	.875	(22.2)	770-001S106
13	.938	(23.8)	770-001S106
14	1.000	(25.4)	770-001S106
15	1.250	(31.8)	770-001S107
16	1.500	(38.1)	770-001S107
17	1.750	(44.5)	n/a
18	2.000	(50.8)	n/a
19	1.125	(28.6)	n/a
20	1.375	(34.9)	n/a
21	1.625	(41.3)	n/a
22	1.062	(27.0)	n/a
23	1.188	(30.2)	n/a
24	1.875	(47.6)	n/a

1. Cable Entry is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. O-Ring not supplied with Connector Designator A.
5. When maximum entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H & J will not apply. Please consult factory.
6. Consult factory for shorter lengths on straight backshells.

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319-044
Non-Environmental EMI/RFI Shield Sock Adapter
with Optional Shrink Boot
Standard Profile - Self Locking - Split Shell

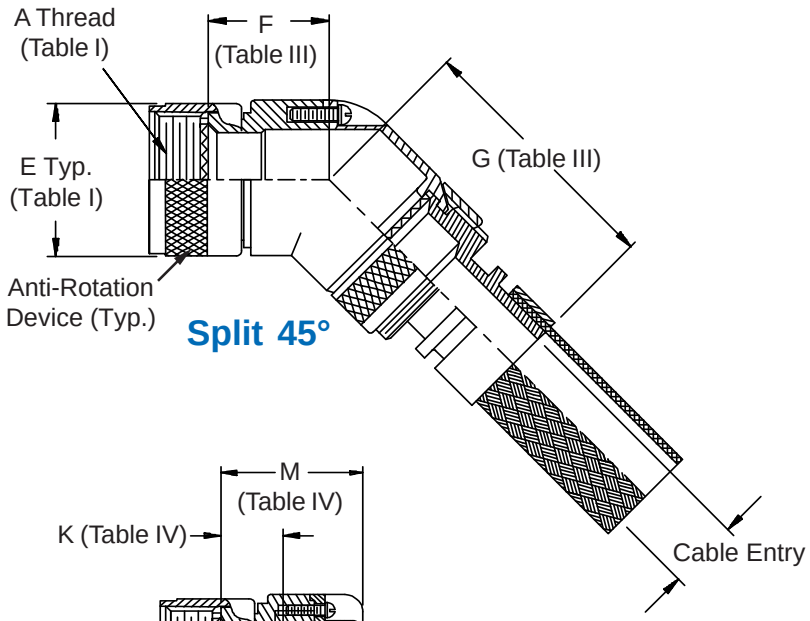
CONNECTOR DESIGNATORS

A-F-H-L-S

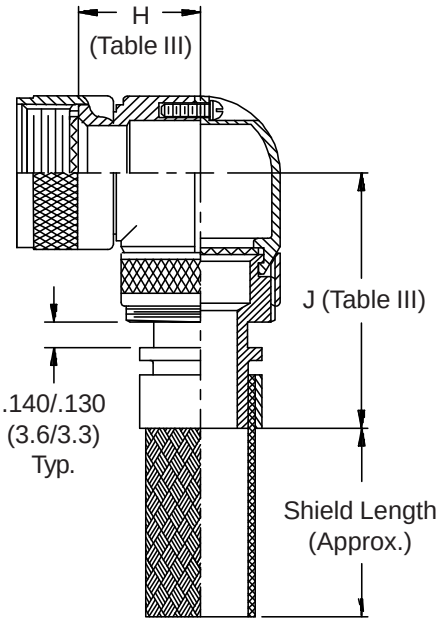
SELF-LOCKING ROTATABLE COUPLING

319 F C 044 M 16 06-6 T

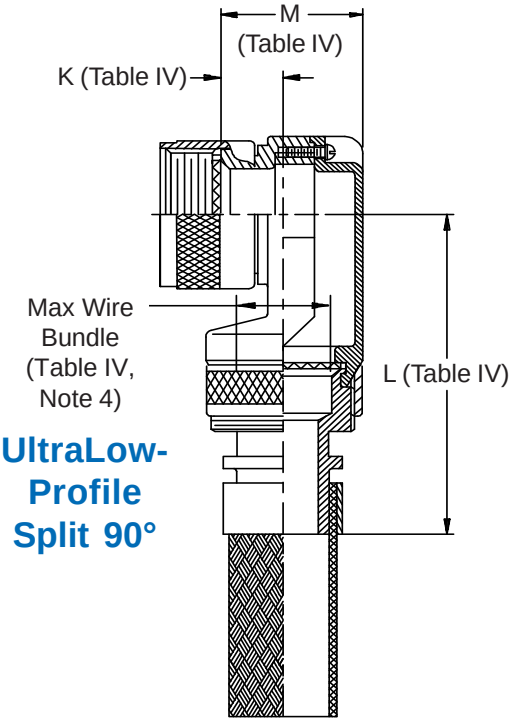
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- Shield Length (1 inch increments: Minimum 6 inches)
- Shrink Boot (Table V - Omit for None)



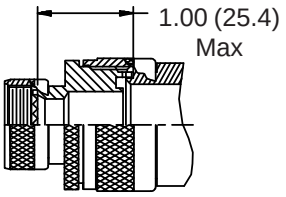
Split 45°



Split 90°



UltraLow-Profile Split 90°



STYLE 2 (See Note 4)

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319-044
Non-Environmental EMI/RFI Shield Sock Adapter
with Optional Shrink Boot
Standard Profile - Self Locking - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: SPLIT 90° and SPLIT 45°

SHELL SIZE A-F-L-S	SHELL SIZE H	F Max	G Max	H Max	J Max
08	09	.596 (15.1)	1.500 (38.1)	.836 (21.2)	1.440 (36.6)
10	11	.656 (16.7)	1.560 (39.6)	.906 (23.0)	1.500 (38.1)
12	13	.716 (18.2)	1.630 (41.4)	.966 (24.5)	1.570 (39.9)
14	15	.776 (19.7)	1.660 (42.2)	1.026 (26.1)	1.600 (40.6)
16	17	.836 (21.2)	1.760 (44.7)	1.086 (27.6)	1.700 (43.2)
18	19	.906 (23.0)	1.820 (46.2)	1.156 (29.4)	1.760 (44.7)
20	21	.976 (24.8)	1.880 (47.8)	1.216 (30.9)	1.820 (46.2)
22	23	1.036 (26.3)	1.940 (49.3)	1.276 (32.4)	1.880 (47.8)
24	25	1.096 (27.8)	2.000 (50.8)	1.336 (33.9)	1.940 (49.3)

TABLE IV: ULTRA LOW-PROFILE SPLIT 90°

SHELL SIZE A-F-L-S	SHELL SIZE H	K Ref.	L Max	M Max	Max Wire Bundle
08	09	.496 (12.6)	1.780 (45.2)	.837 (21.3)	.250 (6.4)
10	11	.426 (10.8)	1.940 (49.3)	.887 (22.5)	.375 (9.5)
12	13	.426 (10.8)	1.940 (49.3)	.887 (22.5)	.375 (9.5)
14	15	.436 (11.1)	2.010 (51.1)	.987 (25.1)	.500 (12.7)
16	17	.576 (14.6)	2.060 (52.3)	1.137 (28.9)	.625 (15.9)
18	19	.796 (20.2)	2.090 (53.1)	1.337 (34.0)	.625 (15.9)
20	21	.796 (20.2)	2.090 (53.1)	1.337 (34.0)	.625 (15.9)
22	23	.696 (17.7)	2.240 (56.9)	1.337 (34.0)	.750 (19.1)
24	25	.696 (17.7)	2.240 (56.9)	1.337 (34.0)	.750 (19.1)

TABLE V: CABLE ENTRY/BOOT

Dash No.	Cable Entry	Shrink Boot
01	.188 (4.8)	N/A
02	.250 (6.4)	N/A
03	.312 (7.9)	770-001S103
04	.375 (9.5)	770-001S103
05	.438 (11.1)	770-001S103
06	.500 (12.7)	770-001S104
07	.562 (14.3)	770-001S104
08	.625 (15.9)	770-001S104
09	.688 (17.5)	770-001S105
10	.750 (19.1)	770-001S105
11	.812 (20.6)	770-001S105
12	.875 (22.2)	770-001S106
13	.938 (23.8)	770-001S106
14	1.000 (25.4)	770-001S106

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

1. Cable Entry is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
2. See Shrink Boot Reference Information (see page 40).
3. Metric dimensions (mm) are indicated in parentheses.
4. When maximum entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions F, G, H & J will not apply. Please consult factory.
5. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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320-001
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Standard Profile - Rotatable Coupling

CONNECTOR DESIGNATORS
A-D-F-H-L-S
ROTATABLE COUPLING

320 F S 001 M 16-3

- Product Series
- Connector Designator
- Angle and Profile
  - L = 90°
  - K = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Length - Straight only (1/2 inch increments: e.g. 3 = 1.5 inches) Minimum order length 1.0 inches

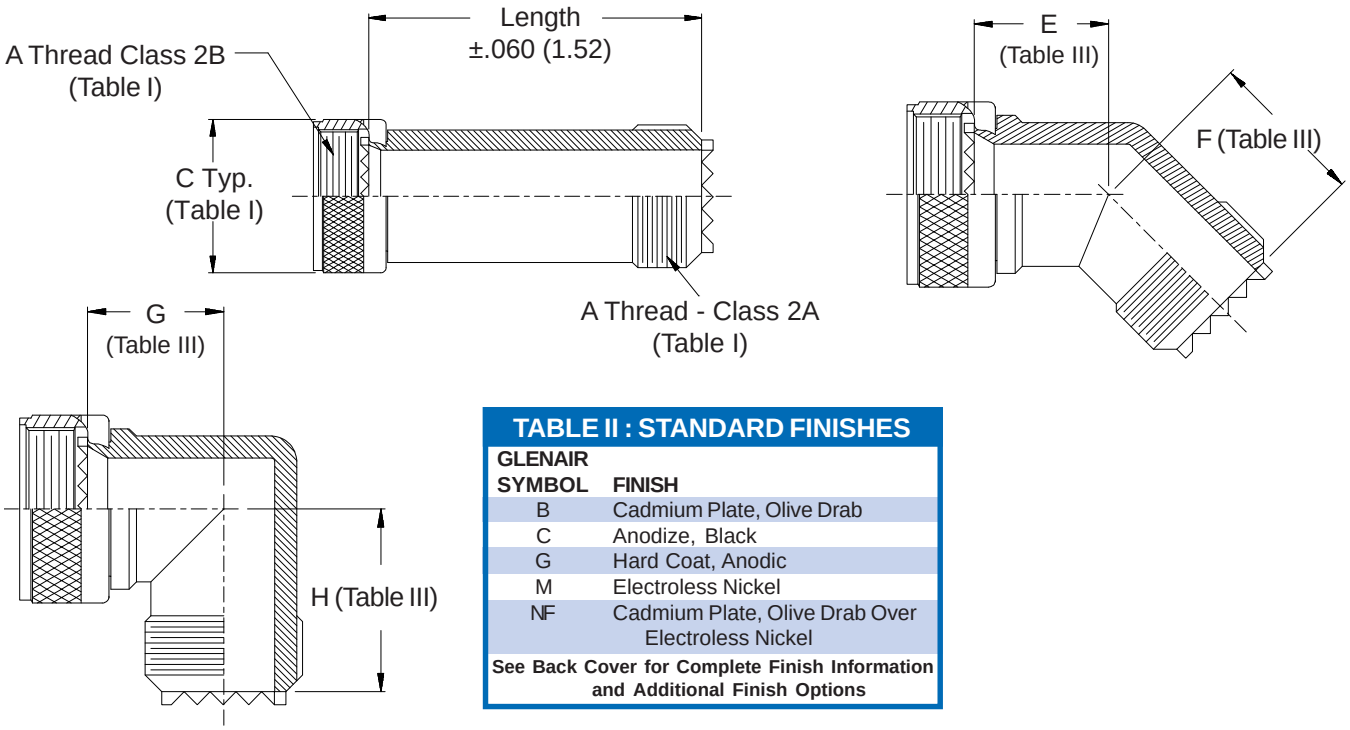


TABLE II : STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

TABLE III: DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	G Max	F Max	E Max	H Max
08	09	.940 (23.9)	.890 (22.6)	.830 (21.1)	1.000 (25.4)
10	11	1.010 (25.7)	.920 (23.4)	.860 (21.8)	1.070 (27.2)
12	13	1.070 (27.2)	.942 (23.9)	.882 (22.4)	1.130 (28.7)
14	15	1.130 (28.7)	.970 (24.6)	.900 (22.9)	1.190 (30.2)
16	17	1.190 (30.2)	.990 (25.1)	.930 (23.6)	1.250 (31.8)
18	19	1.240 (31.5)	1.010 (25.7)	.950 (24.1)	1.300 (33.0)
20	21	1.310 (33.3)	1.040 (26.4)	.980 (24.9)	1.370 (34.8)
22	23	1.360 (34.5)	1.060 (26.9)	1.000 (25.4)	1.420 (36.1)
24	25	1.540 (39.1)	1.090 (27.7)	1.030 (26.2)	1.490 (37.8)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

Metric dimensions (mm) are indicated in parentheses.

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CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

*** Conn. Desig. B See Note 2**

DIRECT COUPLING

320 F S 002 M 16-3

- Product Series
- Connector Designator
- Angle and Profile S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Length (1/2 inch increments: e.g. 3 = 1.5 inches) Minimum order length 1.5 inches

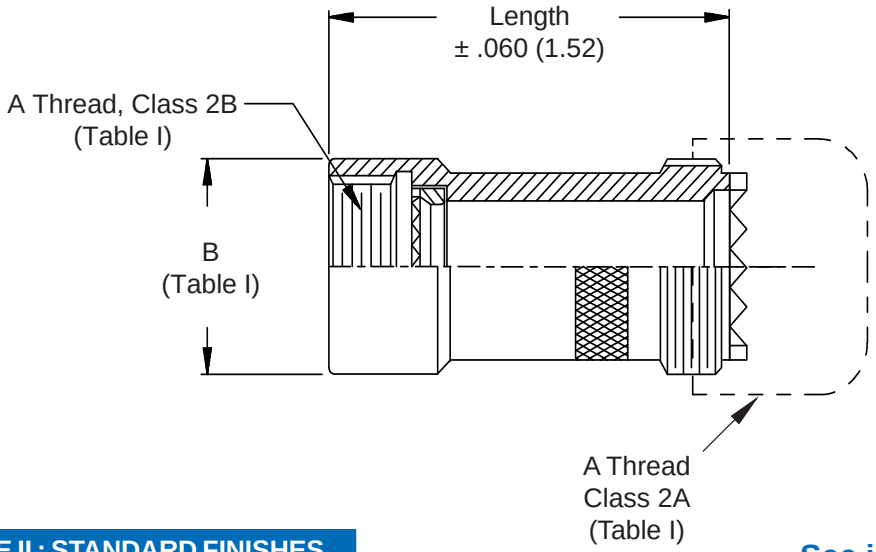


TABLE II : STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

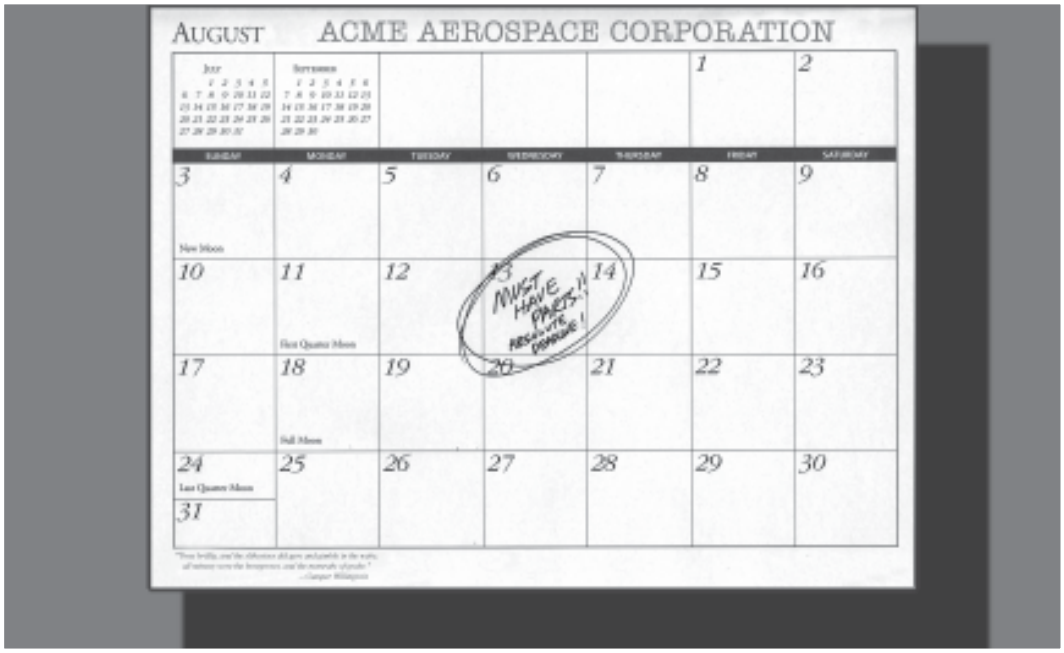
See Back Cover for Complete Finish Information and Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. Metric dimensions (mm) are indicated in parentheses.
2. When using Connector Designator B refer to pages 18 and 19 for part number development.

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Most interconnect accessory suppliers quote several months or more to make a backshell. At Glenair, we not only quote the shortest lead times in our industry—generally 2-3 weeks—we also do the best job by far of getting the work out when we say we will. While it's true we can't promise we'll always make our dates, we're confident we'll be way ahead of whoever's in second place when it comes to on-time delivery. And for those jobs which can't wait even 2-3 weeks, we offer over 40,000 part numbers in stock and ready for same-day shipment.


Commercial and Mil Spec connector accessories


Convoluted tubing and metal-core conduit


Electrical and fiber optic cable assemblies


Composite thermoplastic components


Microminiature connectors and accessories

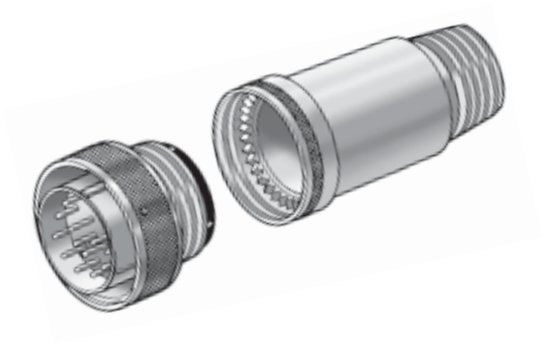

Backshell assembly and termination tools

Glenair®

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Glendale, California 91201-2497
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www.glenair.com



PRODUCT FEATURES

- Internal and External Thread Styles
- Provides Interconnection of NPT Fittings to All Common Circular Connectors
- Straight Configurations Only

Easy integration of NPT conduits in safety-critical interconnect systems

Qualified National Pipe Thread interface dimensions

Glenair Series 33 Pipe Thread Adapters accommodate tapered National Pipe Threads which are usually associated with various forms of conduit or hose end-fittings. The Series 33 adapters are available in compatible material finishes to eliminate dissimilar metal corrosion between NPT conduit and connector hardware.

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330-001 and 330-002
Pipe Thread Adapters
Rotatable Coupling

CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

330 F S 001 M 16 03-5

- Product Series
- Connector Designator
- Angle and Profile
  S = Straight
- Basic Part No.
  001 = External Thread
  002 = Internal Thread
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table III)
- Length Designator (1/2 inch increments: e.g. 5=2.5 inches, Minimum Lengths Table III)

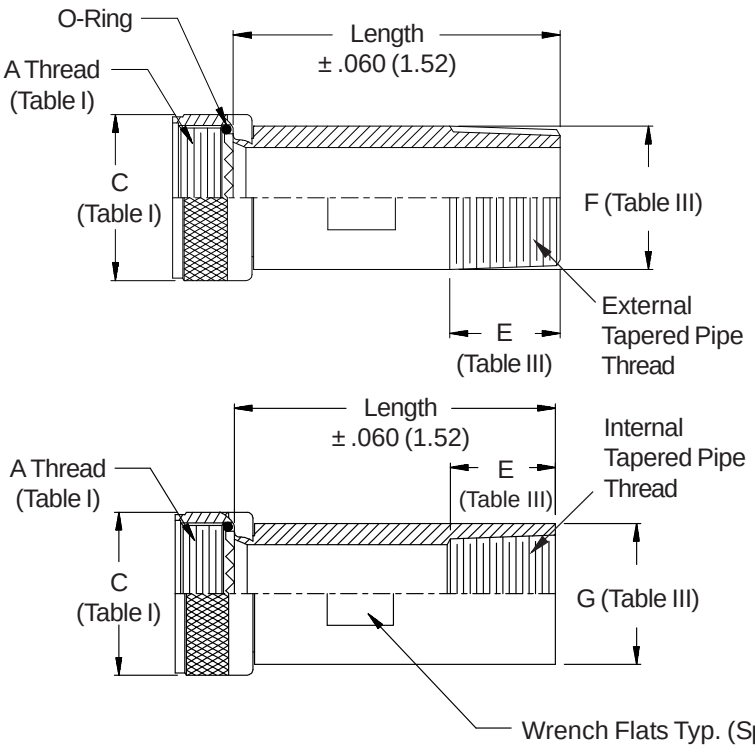


TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: CABLE ENTRY

Dash No.	Pipe Thread	E		F Dia		G Dia		Length Min		Length Desig.
01	1/8	.391	(9.9)	.405	(10.3)	.500	(12.7)	1.5	(38.1)	3
02	1/4	.593	(15.1)	.540	(13.7)	.625	(15.9)	1.5	(38.1)	3
03	3/8	.593	(15.1)	.675	(17.1)	.875	(22.2)	1.5	(38.1)	3
04	1/2	.781	(19.8)	.840	(21.3)	1.000	(25.4)	2.0	(50.8)	4
05	3/4	.812	(20.6)	1.050	(26.7)	1.250	(31.8)	2.0	(50.8)	4
06	1	1.000	(25.4)	1.315	(33.4)	1.500	(38.1)	2.0	(50.8)	4
07	1 1/4	1.031	(26.2)	1.660	(42.2)	1.750	(44.5)	2.5	(63.5)	5
08	1 1/2	1.031	(26.2)	1.900	(48.3)	2.125	(54.0)	2.5	(63.5)	5
09	2	1.062	(27.0)	2.375	(60.3)	2.500	(63.5)	2.5	(63.5)	5
10	2 1/2	1.453	(36.9)	2.875	(73.0)	3.250	(82.6)	2.5	(63.5)	5

1. Pipe threads per American standard taper pipe thread.
2. Metric dimensions (mm) are indicated in parentheses.
3. O-Ring not supplied with Connector Designator A.

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CAGE Code 06324
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330-003 and 330-004
Pipe Thread Adapter
Direct Coupling

330 F S 003 N 16 03-5

- Product Series
- Connector Designator
- Angle and Profile
  S = Straight
- Basic Part No.
  003 = External Thread
  004 = Internal Thread
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table III)
- Length Designator (1/2 inch increments: e.g. 5=2.5 inches, Minimum Lengths Table III)

CONNECTOR DESIGNATORS

A-B*-C-D-E-F
G-H-J-K-L-S

*** Conn. Desig. B See Note 3**

DIRECT COUPLING

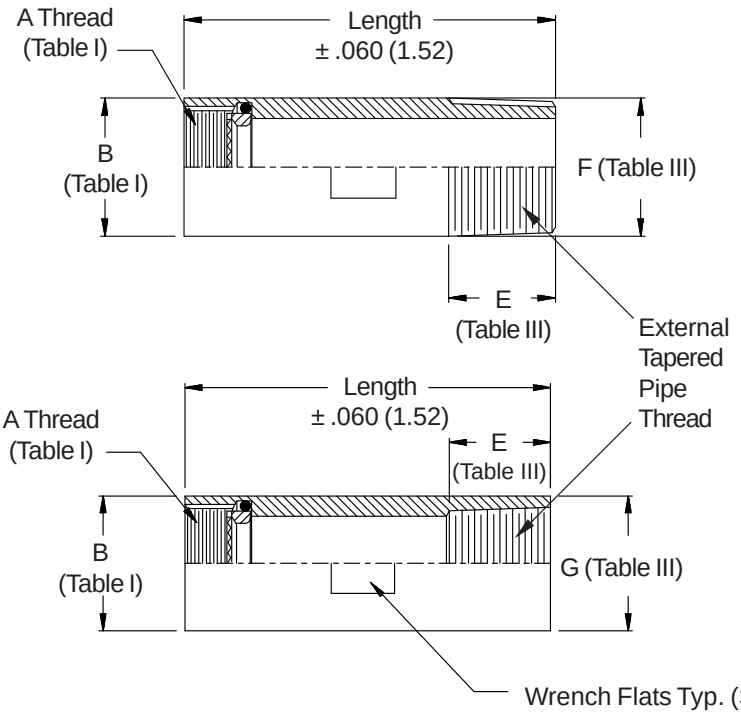


TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

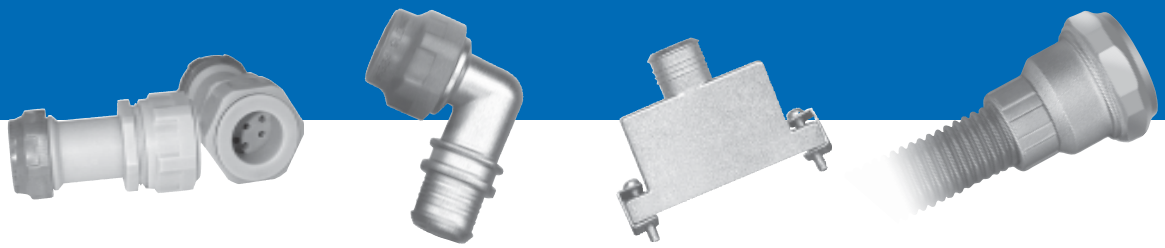
TABLE III: CABLE ENTRY

Dash No.	Pipe Thread	E		F Dia		G Dia		Length Min		Length Desig.
01	1/8	.391	(9.9)	.405	(10.3)	.500	(12.7)	2.0	(50.8)	4
02	1/4	.593	(15.1)	.540	(13.7)	.625	(15.9)	2.0	(50.8)	4
03	3/8	.593	(15.1)	.675	(17.1)	.875	(22.2)	2.0	(50.8)	4
04	1/2	.781	(19.8)	.840	(21.3)	1.000	(25.4)	2.5	(63.5)	5
05	3/4	.812	(20.6)	1.050	(26.7)	1.250	(31.8)	2.5	(63.5)	5
06	1	1.000	(25.4)	1.315	(33.4)	1.500	(38.1)	2.5	(63.5)	5
07	1 1/4	1.031	(26.2)	1.660	(42.2)	1.750	(44.5)	3.0	(76.2)	6
08	1 1/2	1.031	(26.2)	1.900	(48.3)	2.125	(54.0)	3.0	(76.2)	6
09	2	1.062	(27.0)	2.375	(60.3)	2.500	(63.5)	3.0	(76.2)	6
10	2 1/2	1.453	(36.9)	2.875	(73.0)	3.250	(82.6)	3.0	(76.2)	6

1. Pipe threads per American standard taper pipe thread.
2. Metric dimensions (mm) are indicated in parentheses.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

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CAGE Code 06324
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Ten Reasons to Keep Glenair at the Top of Your List of Backshell Suppliers



1. ***We offer the lowest total cost of ownership in the interconnect industry:*** From our cost-saving "no minimum order" policy to our free product samples and application engineering, Glenair provides the best value in connector accessories available today.

2. ***Our full spectrum product lines make for one-stop-shopping:*** We have the most complete selection of rectangular backshells and accessories in the world, including every Mil-Spec slash number and more composite designs than the rest of the industry combined.

3. ***We have the largest capacity, broadest capability factory in the business*** and the knowledge and expertise to handle any production requirement no matter how large or complex.

4. ***We've provided complete convenience in ordering since 1956*** (that's *your* convenience not ours): choose factory direct, your local Glenair office or your favorite distributor.

5. ***We care as much about quality as you do:*** We're BSENISO9001 registered in Europe and MIL-I-45208A and Boeing AQS D1-9000 Certified in North America.

6. ***We have over 40,000 accessory part numbers ready for immediate shipment*** including every Mil-C-85049 accessory and thousands of Glenair's most popular rectangular and circular backshell part numbers.

7. ***Our turnaround on quotes and custom orders is the fastest in the industry:*** We offer 24 hour turnaround on RFQ's and just 2 to 3 weeks delivery on custom orders, including Micro-Ds and other rectangular interconnects.

8. ***We have the largest and most experienced support staff in the business,*** including sales and engineering in every major aerospace market, on-site application engineering and dedicated product managers for every interconnect discipline.

9. ***We understand interconnect systems from the ground up:*** We're the only connector, backshell and accessory supplier to operate a full service harness facility. We even make our own line of assembly tools.

10. ***We're committed:*** Backshells and connector accessories are our life. We've served this market since 1956 and we're committed to meeting the evolving needs of our customers.

Glenair: A World of Interconnect Solutions



PRODUCT FEATURES

- O-ring Sealed
- Rotatable and Direct Coupling Styles
- Range of Attachment Lengths and Styles Including Bead Chain, Link Chain and Wire and Fabric Rope
- Straight Configurations Only

Prevent electrical and environmental damage to uncoupled connectors and electronic systems with Glenair Shorting Caps

Ideal for receptacle connectors in panel and black box applications

Glenair Shorting Cap Backshells provide a total enclosure for the rear of a connector, and are adaptable to the fabrication of shorting plugs, special purpose test connectors, or installation of discrete components. Also provide ideal environment for fiber optic loop backs for circuit testing.

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340-001
O-Ring Sealed Shorting Cap Backshell
Rotatable Coupling

CONNECTOR DESIGNATORS

A-F-G

H-J-L-S

ROTATABLE COUPLING

340 F S 001 M 16-5 H 6 A

- Product Series
- Connector Designator
- Angle and Profile S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Length (1/2 inch increments: e.g. 5 = 2.5 inches, 1.0 inch Minimum Order Length
- Attachment Symbol (Table III)
- Attachment Length (1/2 inch increments: e.g. 6 = 3 inches)
- End Fitting Symbol (Table IV)

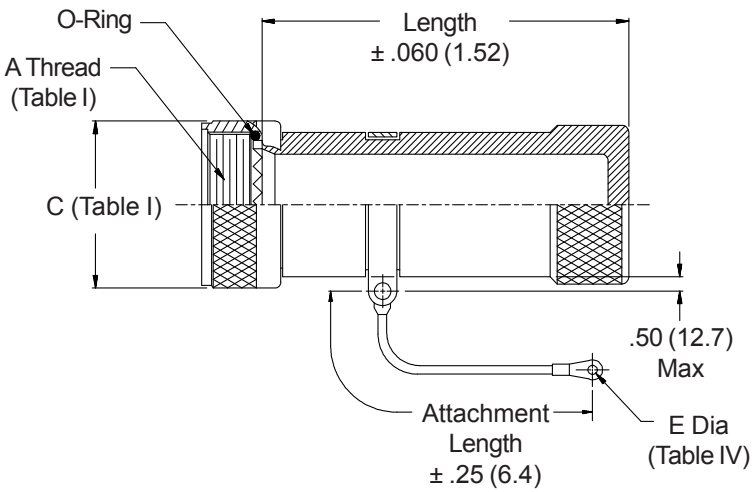


TABLE IV: END FITTING

Symbol	E Dia.	
A	.140	(3.6)
B	.167	(4.2)
C	.182	(4.6)
D	.191	(4.9)
E	.125	(3.2)
F	.218	(5.5)

TABLE III: ATTACHMENT OPTIONS

Symbol	Attachment
C	No attachment, body strap only
D	Bead chain, cres, passivate, with terminal
E	Link chain, cres, passivate, with reverse link
F	Wire rope, nylon jacket, with terminal
G	Nylon rope, with terminal
H	Wire rope, fluoropolymer jacket, with terminal
N	Attachment omitted
R	Wire rope, PVC jacket, with terminal
S	#8 Sash chain, cres, passivate
U	Wire rope, polyurethane jacket, with terminal

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

1. Metric dimensions (mm) are indicated in parentheses.
2. O-Ring not supplied with Connector Designators A and G.
3. Custom engraving available, consult factory.

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

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340-002
O-Ring Sealed Shorting Cap Backshell
Direct Coupling

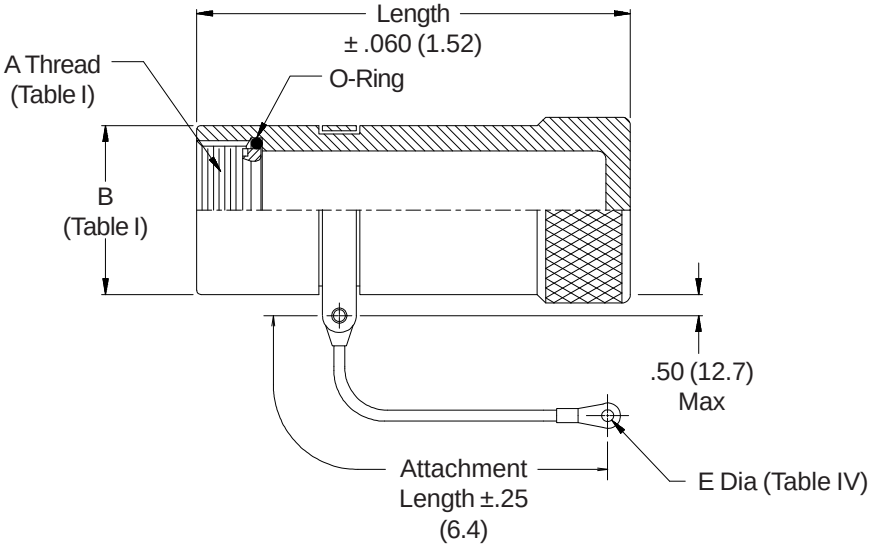
CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

*** Conn. Desig. B See Note 3**

DIRECT COUPLING

340 F S 002 M 16-5 H 6 A

- Product Series
- Connector Designator
- Angle and Profile S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Length (1/2 inch increments: e.g. 5 = 2.5 inches, 1.0 Inch Minimum Order Length)
- Attachment Symbol (Table III)
- Attachment Length (1/2 inch increments: e.g. 6 = 3 inches)
- End Fitting Symbol (Table IV)



See inside back cover fold-out or pages 13 and 14 for unabrdiged Tables I and II.

TABLE IV: END FITTING

Symbol	E Dia.	
A	.140	(3.6)
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C	.182	(4.6)
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Symbol	Attachment
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NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Back Cover for Complete Finish Information and Additional Finish Options

1. Metric dimensions (mm) are indicated in parentheses.
2. Custom engraving available, consult factory.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

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The Space Shuttle Orbiter escapes earth at the speed of 17,000 miles per hour.



But a damaged connector can scratch the mission in the blink of an eye.

Glenair's Sav-Con® Connector Savers are designed to mate with circular and rectangular Mil Spec connectors and test cables which are subject to repetitive mating cycles during manufacture and test. One of the most dramatic applications of our Sav-Con® connectors is on the Space Shuttle Orbiter where they provide protection for the umbilical connectors from lift-off to touch-down on every mission.

Glenair's Sav-Cons® are available in general duty, environmental and high-performance versions, and provide outstanding reliability and protection with only minimal affect on circuit resistance. Visit us at www.glenair.com for order information.



Commercial and Mil Spec connector accessories



Convoluted tubing and metal-core conduit



Electrical and fiber optic cable assemblies



Composite thermoplastic components



Microminiature connectors and accessories



Backshell assembly and termination tools

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PRODUCT FEATURES

- **Basic Backshell Design for Ease of Termination and Assembly**
- **Rotatable, Self-Locking and Direct Coupling Styles**
- **Standard and Low Profile Designs**
- **Straight, 45° and 90° Configurations**
- **Selection of Strain-Relief Styles**

Mechanical strain-relief and working-room for non-environmental applications

Full range of coupling styles, profiles and cable entry configurations

Glenair provides straight and angled backshells with a wide variety of strain reliefs for light, medium, general, and heavy duty applications where environmental protection of cable-to-connector terminations is not required.

Assembly Instructions

The following suggested procedure serves as a guide for proper assembly and installation of Glenair Non-Environmental Backshells. It is recommended that trial samples of appropriate cables or wire bundles be used to determine proper trim dimensions of the individual conductors and cable jackets, if applicable.

a. Temporarily assemble backshell (1) to connector.

b. If cable is jacketed, insert cable into backshell (1) and bottom against connector. Hold cable in position and mark cable jacket at rear end of backshell.

c. Remove backshell from connector and place on cable with strain relief (2).

d. Trim cable jacket at a point 1/2 inch toward connector from mark made in step (b) above.

e. Prepare and terminate cable conductors in accordance with established practices.

f. Assemble backshell (1) to connector and tighten securely.

g. Assemble strain relief (2) to backshell and tighten securely. Tighten strain relief saddles securely on cable or harness.

NOTE: ***As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connectors and backshells, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.***

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360-001
Non-Environmental Backshell
with Strain Relief
Low Profile - Rotatable Coupling

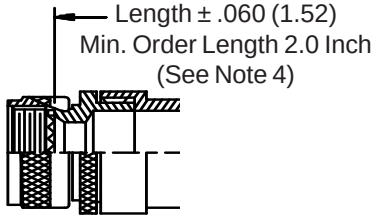
CONNECTOR DESIGNATORS

A-F-H-L-S

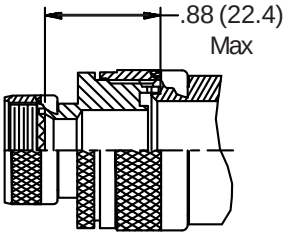
ROTATABLE COUPLING

360 F S 001 M 16 10 M 6

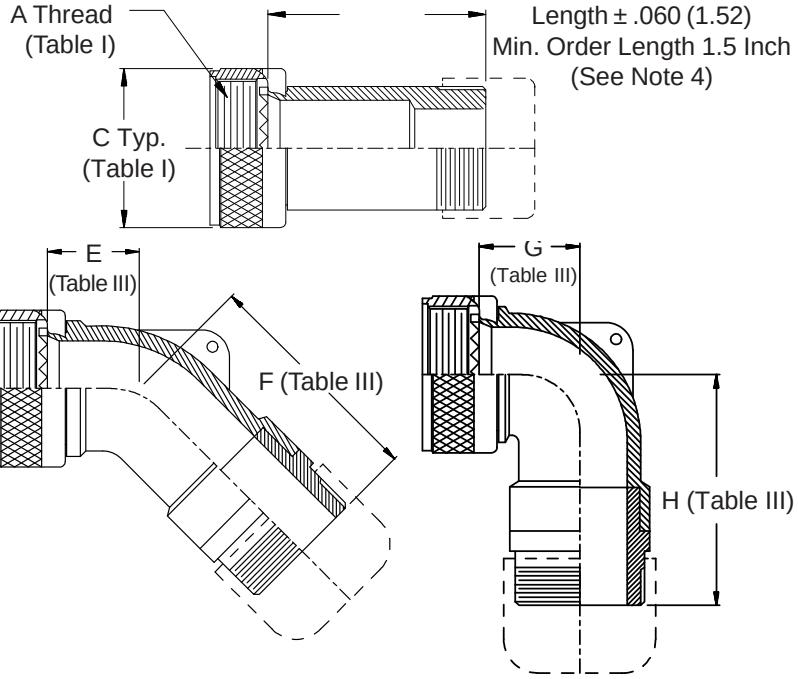
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI, XII)
- Strain Relief Style (H, A, M, F)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



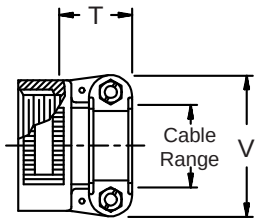
STYLE 2 (STRAIGHT See Note 1)



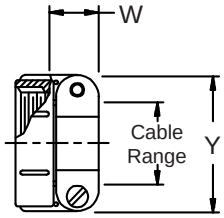
STYLE 2 (45° - 90° See Note 1)



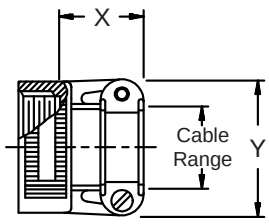
STYLE H
Heavy Duty
(Table X)



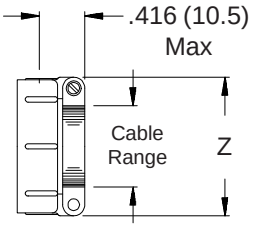
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE F
Light Duty
(Table XII)



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360-001
Non-Environmental Backshell
with Strain Relief
Low Profile - Rotatable Coupling

Glenair®

TABLE III: DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.622	(41.2)	.500	(12.7)	1.632	(41.5)
10	11	.520	(13.2)	1.682	(42.7)	.595	(15.1)	1.752	(44.5)
12	13	.582	(14.8)	1.742	(44.2)	.610	(15.5)	1.772	(45.0)
14	15	.645	(16.4)	2.062	(52.4)	.700	(17.8)	2.072	(52.6)
16	17	.738	(18.7)	2.172	(55.2)	.885	(22.5)	2.162	(54.9)
18	19	.926	(23.5)	2.362	(60.0)	.975	(24.8)	2.332	(59.2)
20	21	.926	(23.5)	2.362	(60.0)	.975	(24.8)	2.332	(59.2)
22	23	1.020	(25.9)	2.512	(63.8)	1.125	(28.6)	2.442	(62.0)
24	25	1.020	(25.9)	2.512	(63.8)	1.125	(28.6)	2.442	(62.0)
28		1.145	(29.1)	2.562	(65.1)	1.225	(31.1)	2.612	(66.3)
32		1.207	(30.7)	2.662	(67.6)	1.575	(40.0)	2.862	(72.7)
36		1.238	(31.4)	2.752	(69.9)	1.775	(45.1)	2.862	(72.7)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

TABLE XII: CABLE ENTRY

Dash No.	Z Max		Cable Range Min		Cable Range Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.312	(7.9)	.500	(12.7)
05	1.218	(30.9)	.437	(11.1)	.625	(15.9)
06	1.343	(34.1)	.562	(14.3)	.750	(19.1)
07	1.468	(37.3)	.687	(17.4)	.875	(22.2)
08	1.593	(40.5)	.812	(20.6)	1.000	(25.4)
10	1.843	(46.8)	1.062	(27.0)	1.250	(31.8)

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

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360-002
Non-Environmental Backshell
with Strain Relief
Low Profile - Direct Coupling

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

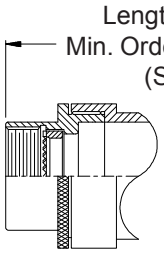
G-H-J-K-L-S

*** Conn. Desig. B See Note 5**

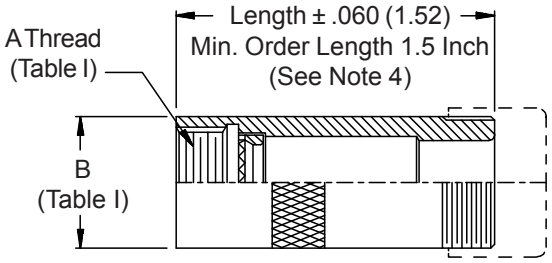
DIRECT COUPLING

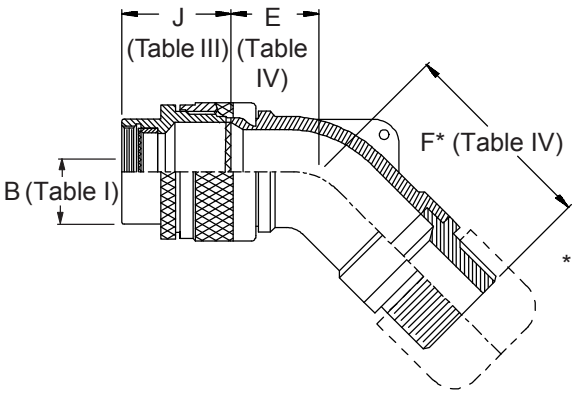
360 F S 002 M 16 10 M 6

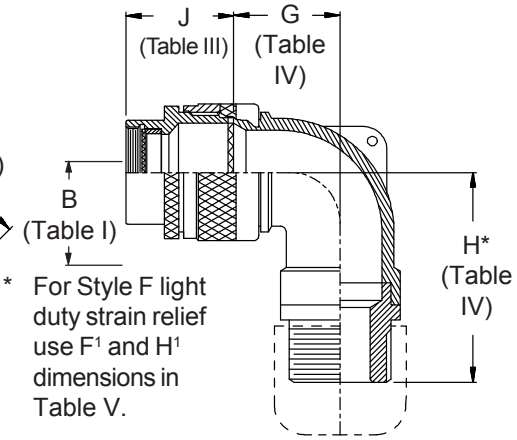
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI, XII)
- Strain Relief Style (H, A, M, F)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



STYLE 2
(STRAIGHT - See Note 1)



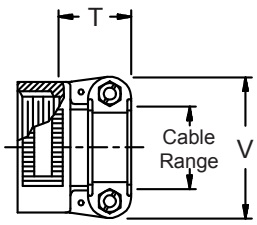




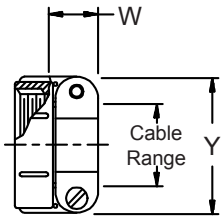
* For Style F light duty strain relief use F[1] and H[1] dimensions in Table V.

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (straight only.)
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

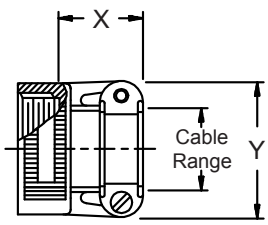
STYLE H
Heavy Duty
(Table X)



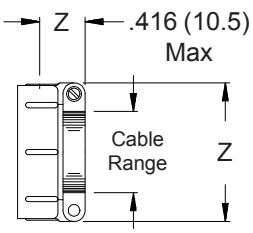
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE F
Light Duty
(Table XII)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
04	.567 (14.4)	1.187 (30.1)	.636 (16.2)	1.200 (30.5)
06	.630 (16.0)	1.250 (31.8)	.710 (18.0)	1.320 (33.5)
08	.692 (17.6)	1.312 (33.3)	.731 (18.6)	1.340 (34.0)
10	.755 (19.2)	1.655 (42.0)	.825 (21.0)	1.660 (42.2)
12	.848 (21.5)	1.765 (44.8)	.988 (25.1)	1.950 (49.5)
16	1.036 (26.3)	1.952 (49.6)	1.087 (27.6)	2.033 (51.6)
20	1.130 (28.7)	2.098 (53.3)	1.325 (33.7)	2.033 (51.6)
24	1.255 (31.9)	2.155 (54.7)	1.337 (34.0)	2.200 (55.9)
28	1.317 (33.5)	2.250 (57.2)	1.827 (46.4)	2.450 (62.2)
32	1.348 (34.2)	2.343 (59.5)	2.027 (51.5)	2.450 (62.2)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE XII: CABLE ENTRY

Dash No.	Z Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.218 (30.9)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.468 (37.3)	.687 (17.4)	.875 (22.2)
08	1.593 (40.5)	.812 (20.6)	1.000 (25.4)
10	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE V: ELBOW

Elbow Size	F[1] Max
04	1.550 (39.4)
06	1.610 (40.9)
08	1.670 (42.4)
10	1.760 (44.7)
12	1.870 (47.5)
16	2.060 (52.3)
20	2.210 (56.1)

Elbow Size	H[1] Max
04	1.560 (39.6)
06	1.680 (42.7)
08	1.700 (43.2)
10	1.770 (45.0)
12	1.860 (47.2)
16	2.030 (51.6)
20	2.140 (54.4)

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

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360-003
Non-Environmental Backshell
with Strain Relief
Standard Profile - Rotatable Coupling

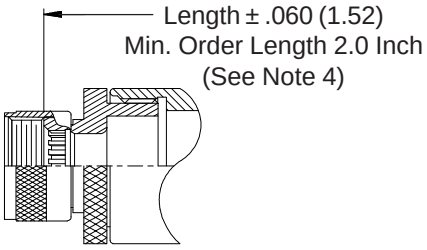
CONNECTOR DESIGNATOR

G

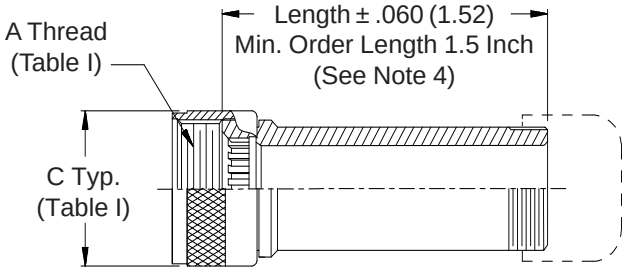
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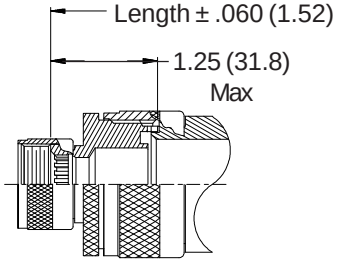
360 G S 003 NF 17 10 M 6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI, XII)
- Strain Relief Style (H, A, M, F)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

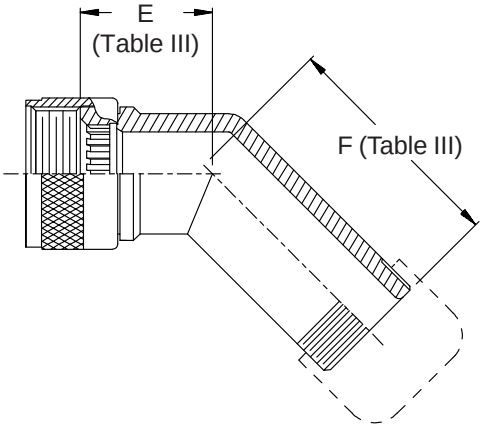


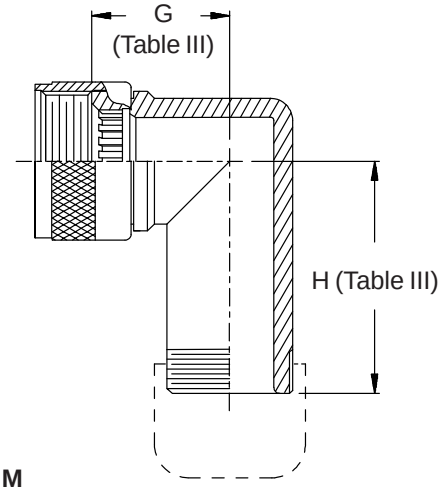
STYLE 2 (STRAIGHT See Note 1)



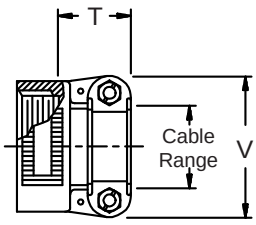


STYLE 2 (45° & 90° See Note 1)

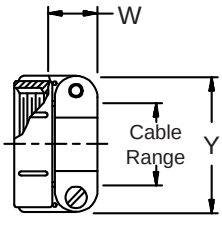




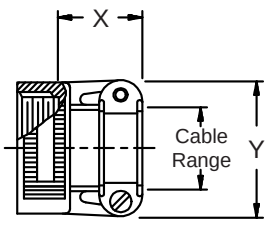
STYLE H
Heavy Duty
(Table X)



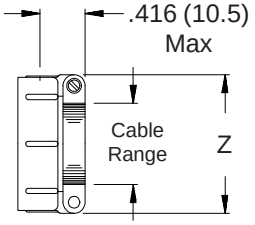
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE F
Light Duty
(Table XII)



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360-003
Non-Environmental Backshell
with Strain Relief
Standard Profile - Rotatable Coupling

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Max		F Max		G Max		H Max	
11	1.240	(31.5)	.920	(23.4)	1.380	(35.1)	1.060	(26.9)
13	1.260	(32.0)	.940	(23.9)	1.440	(36.6)	1.120	(28.4)
15	1.290	(32.8)	.970	(24.6)	1.500	(38.1)	1.190	(30.2)
17	1.310	(33.3)	.990	(25.1)	1.570	(39.9)	1.250	(31.8)
19	1.340	(34.0)	1.020	(25.9)	1.630	(41.4)	1.330	(33.8)
23	1.380	(35.1)	1.060	(26.9)	1.730	(43.9)	1.410	(35.8)
25	1.410	(35.8)	1.090	(27.7)	1.800	(45.7)	1.480	(37.6)
29	1.580	(40.1)	1.260	(32.0)	2.040	(51.8)	1.720	(43.7)
33	1.620	(41.1)	1.300	(33.0)	2.130	(54.1)	1.810	(46.0)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

TABLE XII: CABLE ENTRY

Dash No.	Z Max		Cable Range Min		Cable Range Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.312	(7.9)	.500	(12.7)
05	1.218	(30.9)	.437	(11.1)	.625	(15.9)
06	1.343	(34.1)	.562	(14.3)	.750	(19.1)
07	1.468	(37.3)	.687	(17.4)	.875	(22.2)
08	1.593	(40.5)	.812	(20.6)	1.000	(25.4)
10	1.843	(46.8)	1.062	(27.0)	1.250	(31.8)

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

1. When maximum cable entry (pages 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

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360-017
Non-Environmental Backshell
with QwikClamp® Strain Relief
Standard Profile - Self-Locking - Rotatable Coupling

CONNECTOR DESIGNATORS

A-F-H-L-S

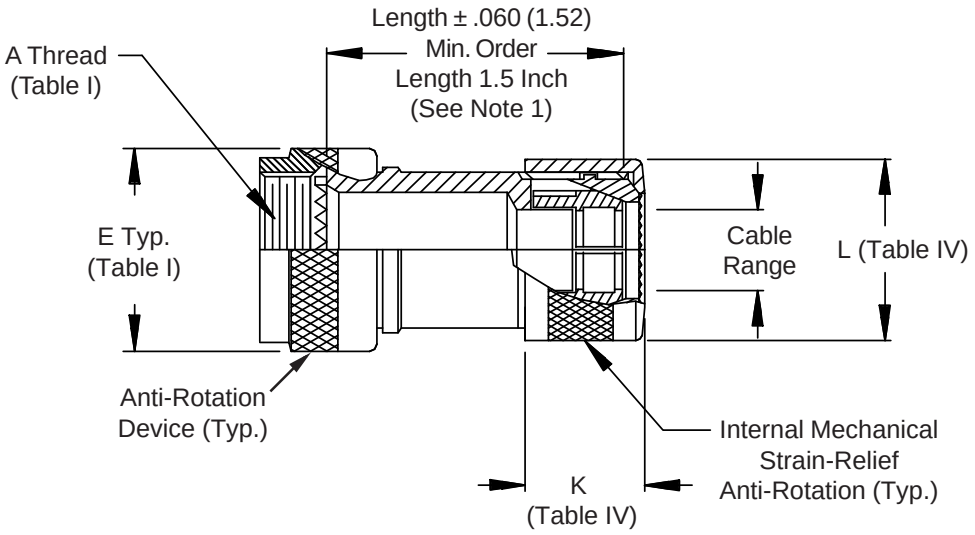
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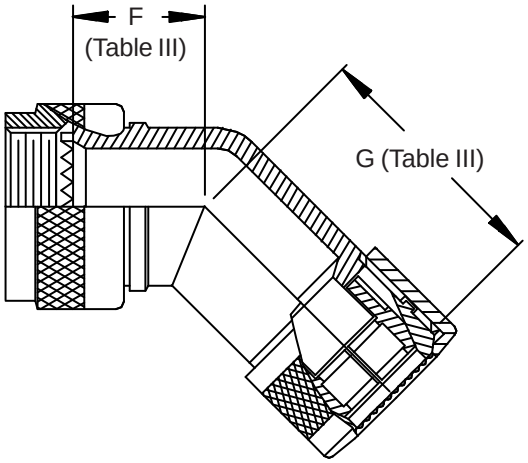
ROTATABLE COUPLING

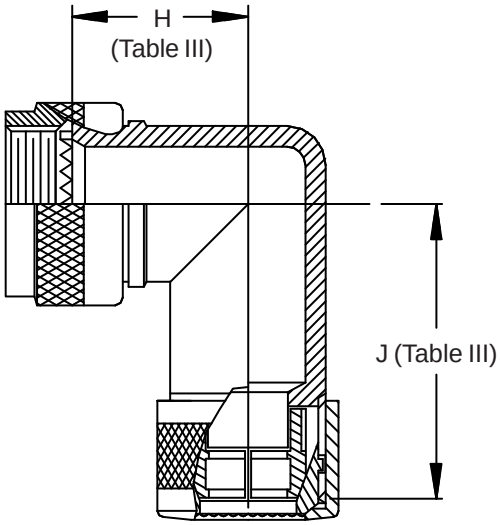
QWIKCLAMP® STRAIN RELIEF

360 F S 017 M 16 10 6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables IV)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)







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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
08	09	.795 (20.2)	1.390 (35.3)	.906 (23.0)	1.500 (38.1)
10	11	.820 (20.8)	1.420 (36.1)	.966 (24.5)	1.560 (39.6)
12	13	.844 (21.4)	1.440 (36.6)	1.026 (26.1)	1.620 (41.1)
14	15	.861 (21.9)	1.470 (37.3)	1.076 (27.3)	1.690 (42.9)
16	17	.888 (22.6)	1.490 (37.8)	1.136 (28.9)	1.750 (44.5)
18	19	.904 (23.0)	1.500 (38.1)	1.176 (29.9)	1.770 (45.0)
20	21	.929 (23.6)	1.520 (38.6)	1.236 (31.4)	1.830 (46.5)
22	23	.956 (24.3)	1.560 (39.6)	1.296 (32.9)	1.910 (48.5)
24	25	.979 (24.9)	1.590 (40.4)	1.356 (34.4)	1.980 (50.3)
28		1.197 (30.4)	1.760 (44.7)	1.636 (41.6)	2.220 (56.4)
32		1.280 (32.5)	1.800 (45.7)	1.780 (45.2)	2.310 (58.7)
36		1.294 (32.9)	1.850 (47.0)	1.876 (47.7)	2.420 (61.5)
40		1.340 (34.0)	1.890 (48.0)	1.986 (50.4)	2.530 (64.3)
44		1.360 (34.5)	1.940 (49.3)	2.235 (56.8)	2.650 (67.3)

TABLE IV: CABLE ENTRY

Dash No.	K Max	L Max	Cable Range Min	Cable Range Max
08	.530 (13.5)	.720 (18.3)	.128 (3.3)	.250 (6.4)
12	.710 (18.0)	.910 (23.1)	.233 (5.9)	.375 (9.5)
16	.720 (18.3)	1.090 (27.7)	.358 (9.1)	.500 (12.7)
20	.720 (18.3)	1.220 (31.0)	.482 (12.2)	.625 (15.9)
24	.660 (16.8)	1.340 (34.0)	.545 (13.8)	.750 (19.1)
28	.790 (20.1)	1.530 (38.9)	.670 (17.0)	.875 (22.2)
32	.870 (22.1)	1.720 (43.7)	.795 (20.2)	1.000 (25.4)
36	.830 (21.1)	1.850 (47.0)	.889 (22.6)	1.125 (28.6)
40	.820 (20.8)	1.970 (50.0)	1.014 (25.8)	1.250 (31.8)
44	.910 (23.1)	2.090 (53.1)	1.155 (29.3)	1.375 (34.9)
48	.900 (22.9)	2.280 (57.9)	1.280 (32.5)	1.500 (38.1)

1. Consult factory for shorter lengths on straight backshells.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable.
   Dimensions shown are not intended for inspection criteria.

TABLE II: STANDARD FINISHES

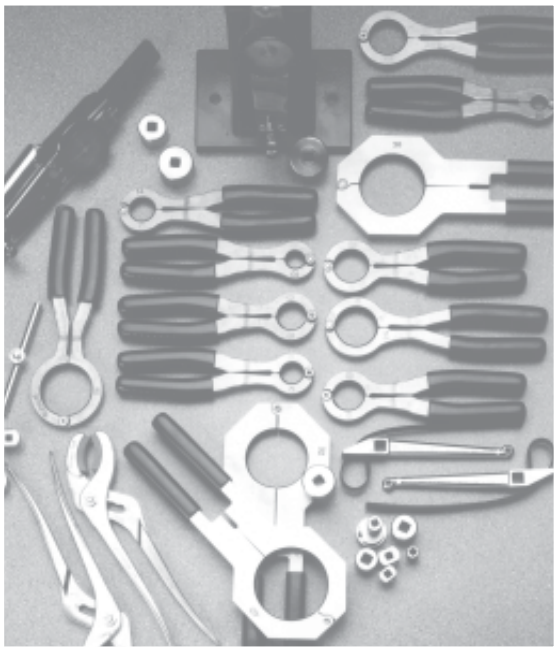
GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

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Stop Toolin' Around





Finding the right tool for the job just got a little bit easier

Nobody can grasp the ins-and-outs of interconnect tool design and manufacturing without a full understanding of cable harness assembly.

At Glenair, we not only manufacture the connectors, backshells, cables and enclosures which go into interconnect cable harnesses, we run a top-flight cable assembly service of our own. And we've drawn on this extensive experience to design and build a complete family of specialized backshell assembly tools for most Mil-Standard circular connectors, as well as connector wrenches, mini-strap wrenches, universal connector holding tools and braid termination tools for production use and field maintenance.

Contact Glenair for more information or for a copy of our complete Glenair *Backshell Assembly Tools, Banding Tools and Accessories* Catalog.

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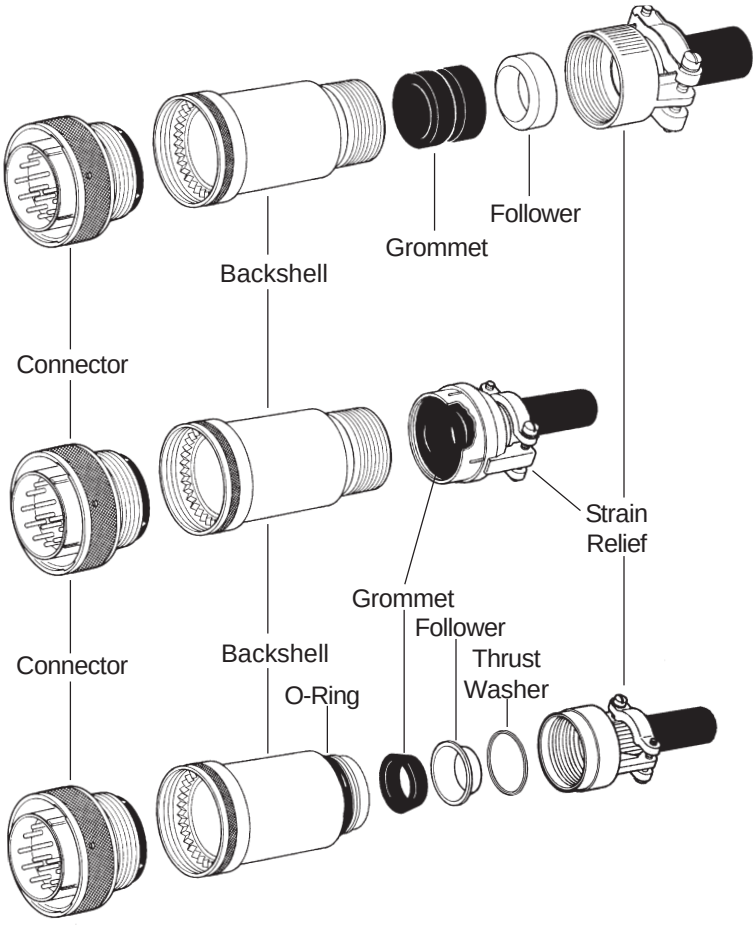


PRODUCT FEATURES

- **Basic Backshell Design Facilitates Termination and Assembly**
- **Rotatable, Self-Locking and Direct Coupling Styles**
- **Standard, Low Profile, Full Radius and Split Shell Designs**
- **Straight, 45° and 90° Configurations**
- **Selection of Strain-Relief Styles**

Full immersion, water-tight and splash proof designs

The right level of cable sealing for every application



Submersible: Glenair Cable Sealing Backshells offer excellent immersion capability when used with impervious jacketed cables. A resilient grommet which fits into a counterbore in the backshell compresses and seals against the cable jacket when the strain relief is tightened. This design of cable sealing backshell is described as "submersible" throughout this catalog. It is also available in split-shell configurations.

Water-Tight: Glenair offers an economy version, too. This Cable Sealing Backshell provides a resilient grommet as an integral part of the cable strain relief; it is described as "water-tight" throughout this catalog.

Splash-Proof: For applications requiring only moisture resistance and sealing against dust, Glenair offers Environmental Resisting Backshells. An effective sealing barrier is created by a resilient grommet at the backshell cable entry. This backshell design is described as "splash-proof" throughout this catalog.

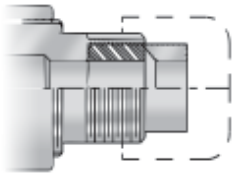
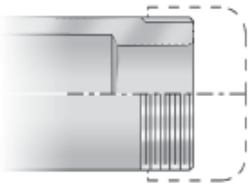
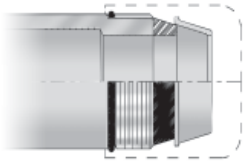
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Series 37
Cable Sealing Backshells
Quick Reference Guide

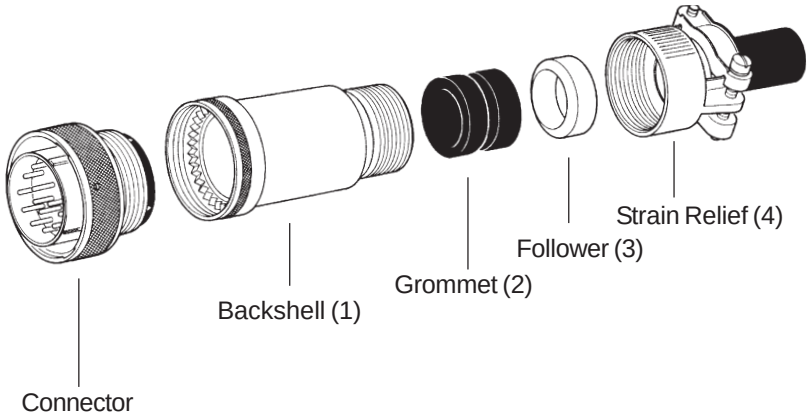
Quick Page Number Reference Guide

Consult factory for any designs not included within this catalog.

Cable Entry Design	Coupling Type	Connector Designators	Page Number				
			Straight	Low-Profile Elbows	Full-Radius Elbows	Standard Profile Elbows	Split Shell Elbows
 Submersible	Rotatable 370-001	A F H L S	37-4	37-4	37-6		37-24
	Rotatable 370-007	G	37-8			37-8	
	Direct 370-002	All	37-10	37-10	37-12		
	Self-Locking Rotatable 370-024	AFHLS					37-26
 Water-Tight	Rotatable 370-003	A F H L S	37-14	37-14			
	Rotatable 370-008	G	37-16			37-16	
	Direct 370-004	All	37-18	37-18			
 Splash-Proof	Rotatable 370-005	A F H L S	37-20	37-20			
	Direct 370-006	All	37-22	37-22			

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Assembly Instructions - Series 37



The following suggested procedure serves as a guide for proper assembly and installation of straight Glenair Cable Sealing Backshells for use with jacketed cables. It is recommended that trial samples of appropriate cables be used to determine proper trim dimensions of the cable jacket and individual conductors.

a. Temporarily assemble backshell (1) to connector.

b. Place grommet (2), follower (3), and strain relief (4) on cable in sequence shown. Keep these components at a convenient distance from the end of the cable so they will not interfere with subsequent assembly steps.

c. Insert fiber into backshell (1) and bottom against connector. Hold cable in position and mark cable jacket at rear end of backshell.

d. Remove backshell from connector and place on cable with components in step (b) above.

e. Prepare and terminate fibers in accordance with established practices.

f. Assemble backshell (1) to connector and tighten securely. Slide grommet (2) into backshell and position follower (3) against grommet.

g. Attach gland nut(4) to backshell and tighten securely. If provided, tighten strain relief saddles securely on cable jacket.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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370-001
Submersible Cable Sealing Backshell
with Strain Relief
Low Profile - Rotatable Coupling

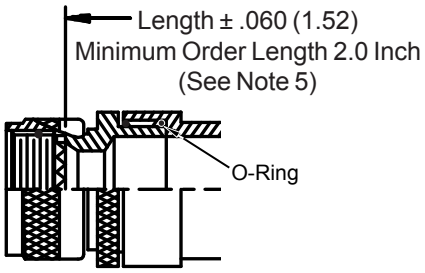
CONNECTOR DESIGNATORS

A-F-H-L-S

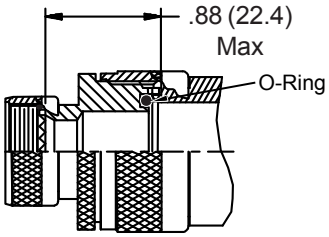
ROTATABLE COUPLING

370 F S 001 M 16 10 M 6

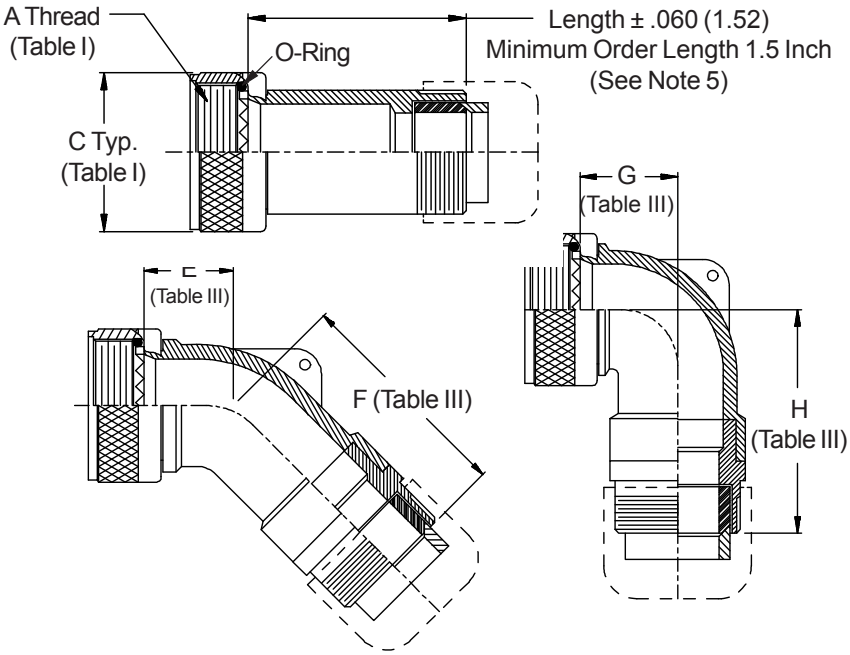
- Product Series: 370
- Connector Designator: F
- Angle and Profile: S
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.: 001
- Finish (Table II): M
- Shell Size (Table I): 16
- Cable Entry (Tables X, XI): 10
- Strain Relief Style (H, A, M, D): M
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches): 6



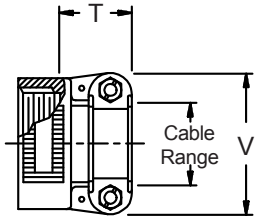
STYLE 2 (STRAIGHT See Note 1)



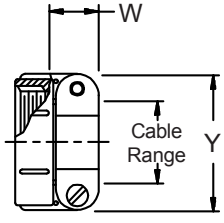
STYLE 2 (45° & 90° See Note 1)



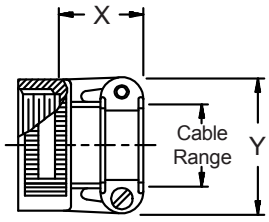
STYLE H
Heavy Duty
(Table X)



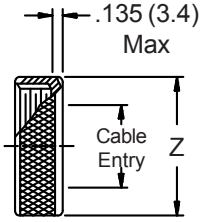
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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370-001
Submersible Cable Sealing Backshell
with Strain Relief
Low Profile - Rotatable Coupling

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.810	(46.0)	.500	(12.7)	1.820	(46.2)
10	11	.520	(13.2)	1.869	(47.5)	.595	(15.1)	1.940	(49.3)
12	13	.582	(14.8)	1.929	(49.0)	.610	(15.5)	1.960	(49.8)
14	15	.645	(16.4)	2.359	(59.9)	.700	(17.8)	2.369	(60.2)
16	17	.738	(18.7)	2.469	(62.7)	.885	(22.5)	2.459	(62.5)
18	19	.926	(23.5)	2.659	(67.5)	.975	(24.8)	2.629	(66.8)
20	21	.926	(23.5)	2.659	(67.5)	.975	(24.8)	2.629	(66.8)
22	23	1.020	(25.9)	2.872	(72.9)	1.125	(28.6)	2.802	(71.2)
24	25	1.020	(25.9)	2.872	(72.9)	1.125	(28.6)	2.802	(71.2)
28		1.145	(29.1)	2.905	(73.8)	1.225	(31.1)	2.955	(75.1)
32		1.207	(30.7)	3.005	(76.3)	1.575	(40.0)	3.205	(81.4)
36		1.238	(31.4)	3.315	(84.2)	1.775	(45.1)	3.255	(82.7)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Interface O-Ring not supplied with connector designator A.
5. Consult factory for shorter lengths on straight backshells.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

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370-001
Submersible Cable Sealing Backshell
with Strain Relief
Full-Radius Profile - Rotatable Coupling

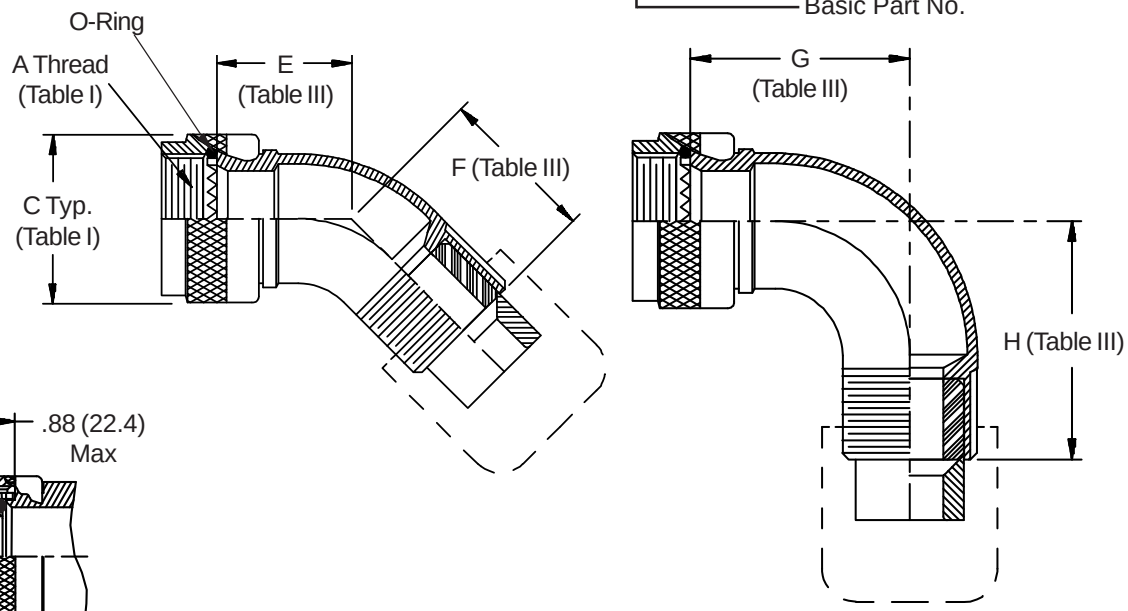
CONNECTOR DESIGNATORS

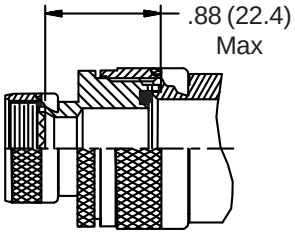
A-F-H-L-S

ROTATABLE COUPLING

370 F N 001 M 16 10 M

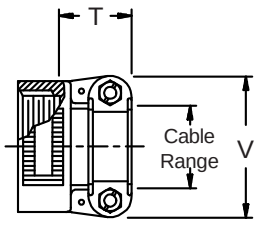
- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 37-4 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)



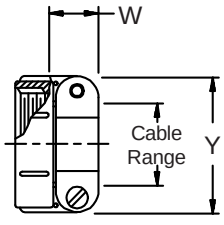


STYLE 2
(45° & 90°
See Note 1)

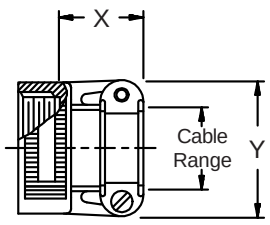
STYLE H
Heavy Duty
(Table X)



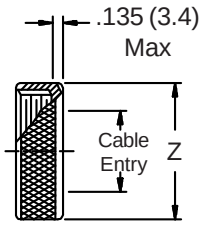
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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370-001
Submersible Cable Sealing Backshell
with Strain Relief
Full-Radius Profile - Rotatable Coupling

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.817	(20.8)	1.127	(28.6)	1.125	(28.6)	1.445	(36.7)
10	11	.861	(21.9)	1.181	(30.0)	1.250	(31.8)	1.570	(39.9)
12	13	.911	(23.1)	1.231	(31.3)	1.375	(34.9)	1.695	(43.1)
14	15	.965	(24.5)	1.285	(32.6)	1.500	(38.1)	1.820	(46.2)
16	17	1.014	(25.8)	1.334	(33.9)	1.625	(41.3)	1.945	(49.4)
18	19	1.064	(27.0)	1.384	(35.2)	1.750	(44.5)	2.070	(52.6)
20	21	1.118	(28.4)	1.438	(36.5)	1.875	(47.6)	2.195	(55.8)
22	23	1.172	(29.8)	1.492	(37.9)	2.000	(50.8)	2.320	(58.9)
24	25	1.221	(31.0)	1.541	(39.1)	2.125	(54.0)	2.445	(62.1)
28		1.325	(33.7)	1.645	(41.8)	2.375	(60.3)	2.695	(68.5)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Interface O-Ring not supplied with connector designator A.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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370-007
Submersible Cable Sealing Backshell
with Strain Relief
Standard Profile - Rotatable Coupling

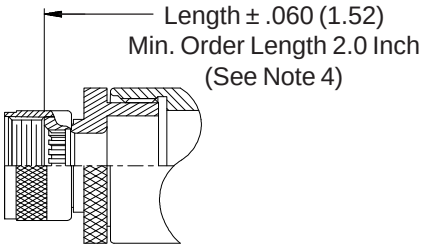
CONNECTOR DESIGNATOR

G

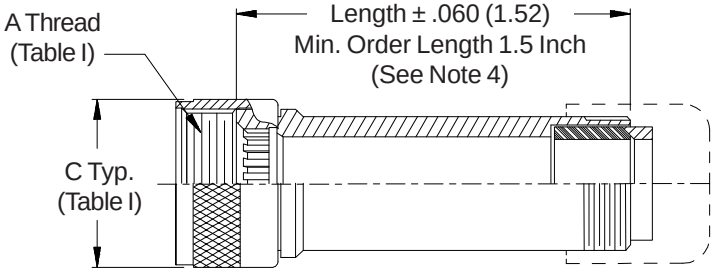
ROTATABLE COUPLING

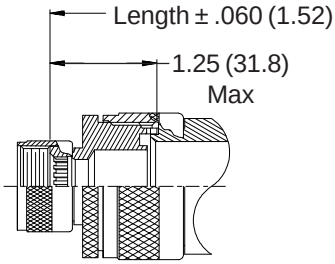
370 G S 007 NF 17 10 M 6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

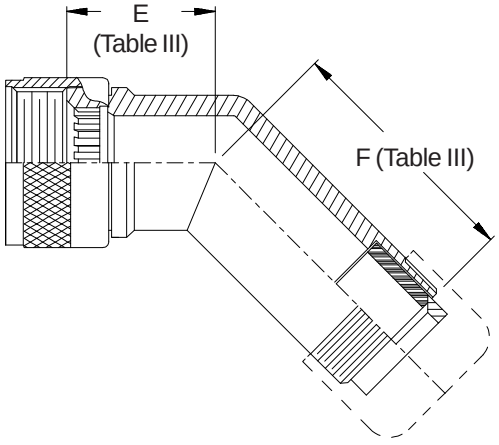


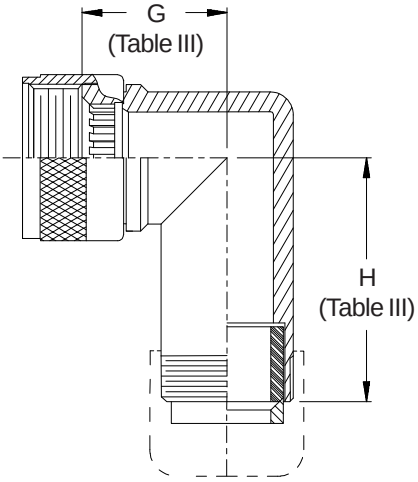
STYLE 2 (STRAIGHT See Note 1)



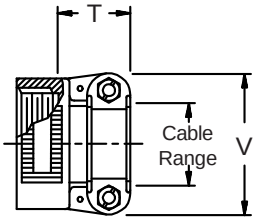


STYLE 2 (45° & 90° See Note 1)

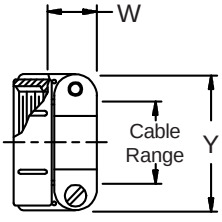




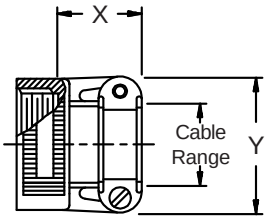
STYLE H
Heavy Duty
(Table X)



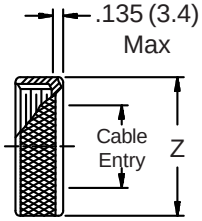
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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370-007
Submersible Cable Sealing Backshell
with Strain Relief
Standard Profile - Rotatable Coupling

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max		F Max		G Max		H Max	
11	1.240	(31.5)	1.050	(26.7)	1.380	(35.1)	1.190	(30.2)
13	1.260	(32.0)	1.070	(27.2)	1.440	(36.6)	1.250	(31.8)
15	1.290	(32.8)	1.100	(27.9)	1.500	(38.1)	1.320	(33.5)
17	1.310	(33.3)	1.120	(28.4)	1.570	(39.9)	1.380	(35.1)
19	1.340	(34.0)	1.150	(29.2)	1.630	(41.4)	1.460	(37.1)
23	1.380	(35.1)	1.190	(30.2)	1.730	(43.9)	1.540	(39.1)
25	1.410	(35.8)	1.220	(31.0)	1.800	(45.7)	1.610	(40.9)
29	1.580	(40.1)	1.390	(35.3)	2.040	(51.8)	1.850	(47.0)
33	1.620	(41.1)	1.430	(36.3)	2.130	(54.1)	1.940	(49.3)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G & H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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370-002
Submersible Cable Sealing Backshell
with Strain Relief
Low Profile - Direct Coupling

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

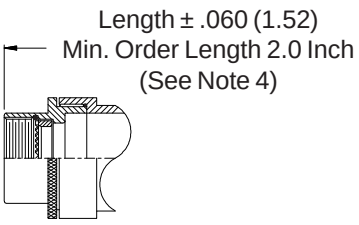
G-H-J-K-L-S

*** Conn. Desig. B See Note 5**

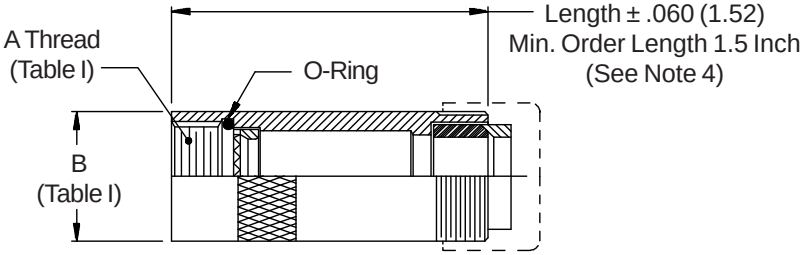
DIRECT COUPLING

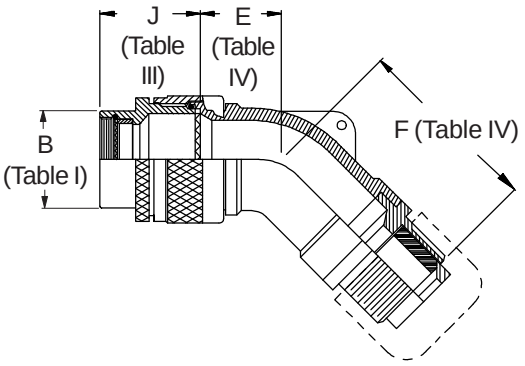
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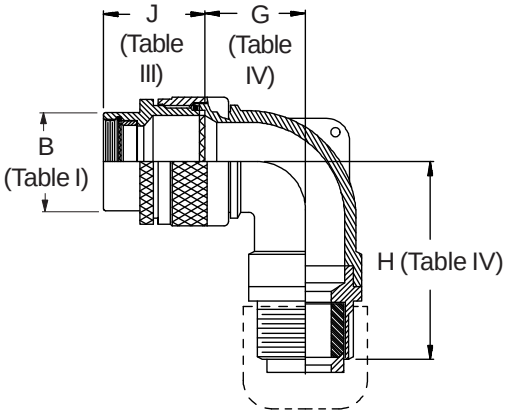
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



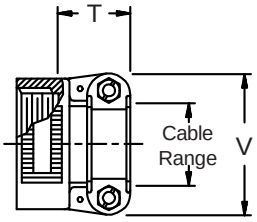
STYLE 2 (STRAIGHT See Note 1)



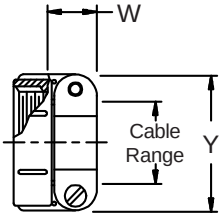




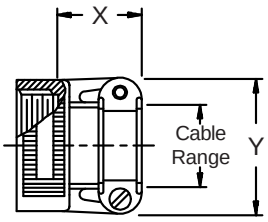
STYLE H
Heavy Duty
(Table X)



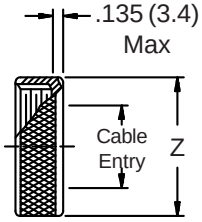
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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370-002
Submersible Cable Sealing Backshell
with Strain Relief
Low Profile - Direct Coupling

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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
04	.567	(14.4)	1.399	(35.5)	.636	(16.2)	1.412	(35.9)
06	.630	(16.0)	1.462	(37.1)	.710	(18.0)	1.532	(38.9)
08	.692	(17.6)	1.524	(38.7)	.731	(18.6)	1.552	(39.4)
10	.755	(19.2)	1.957	(49.7)	.825	(21.0)	1.962	(49.8)
12	.848	(21.5)	2.067	(52.5)	.988	(25.1)	2.052	(52.1)
16	1.036	(26.3)	2.254	(57.3)	1.087	(27.6)	2.227	(56.6)
20	1.130	(28.7)	2.463	(62.6)	1.325	(33.7)	2.395	(60.8)
24	1.255	(31.9)	2.503	(63.6)	1.337	(34.0)	2.548	(64.7)
28	1.317	(33.5)	2.598	(66.0)	1.827	(46.4)	2.798	(71.1)
32	1.348	(34.2)	2.813	(71.5)	2.027	(51.5)	2.818	(71.6)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only.)
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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370-002
Submersible Cable Sealing Backshell
with Strain Relief
Full Radius Profile - Direct Coupling

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

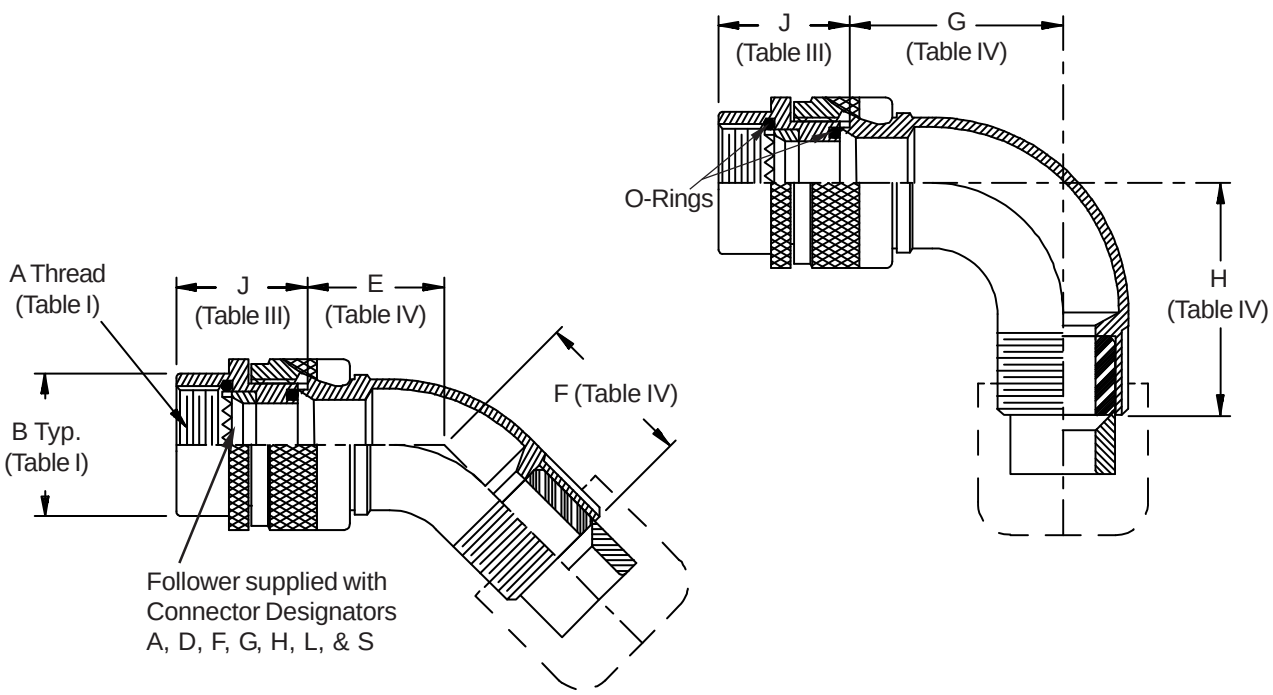
G-H-J-K-L-S

*** Conn. Desig. B See Note 3**

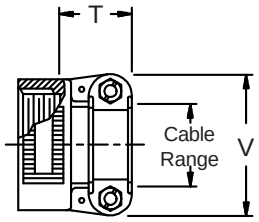
DIRECT COUPLING

370 F N 002 M 16 10 H

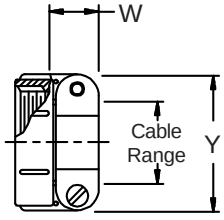
- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 37-10 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)



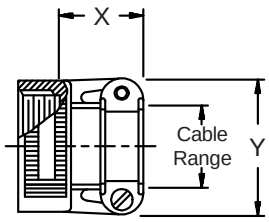
STYLE H
Heavy Duty
(Table X)



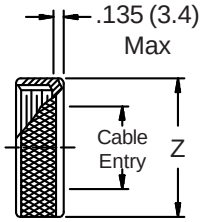
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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Submersible Cable Sealing Backshell
with Strain Relief
Full Radius Profile - Direct Coupling

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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.817 (20.8)	1.127 (28.6)	1.125 (28.6)	1.445 (36.7)
04	.861 (21.9)	1.181 (30.0)	1.250 (31.8)	1.570 (39.9)
06	.911 (23.1)	1.231 (31.3)	1.375 (34.9)	1.695 (43.1)
08	.965 (24.5)	1.285 (32.6)	1.500 (38.1)	1.820 (46.2)
10	1.014 (25.8)	1.334 (33.9)	1.625 (41.3)	1.945 (49.4)
12	1.064 (27.0)	1.384 (35.2)	1.750 (44.5)	2.070 (52.6)
16	1.172 (29.8)	1.492 (37.9)	2.000 (50.8)	2.320 (58.9)
20	1.325 (33.7)	1.645 (41.8)	2.375 (60.3)	2.695 (68.5)
24	1.325 (33.7)	1.645 (41.8)	2.375 (60.3)	2.695 (68.5)
28	1.428 (36.3)	1.748 (44.4)	2.625 (66.7)	2.945 (74.8)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accomodation range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.875 (47.6)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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370-003
Water-Tight Cable Sealing Backshell
with Strain Relief
Low Profile - Rotatable Coupling

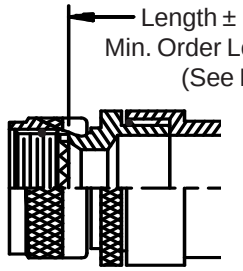
CONNECTOR DESIGNATORS

A-F-H-L-S

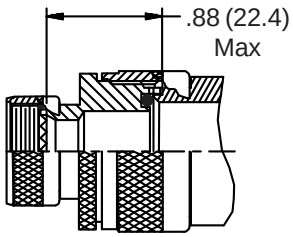
ROTATABLE COUPLING

370 F S 003 M 16 10 C 6

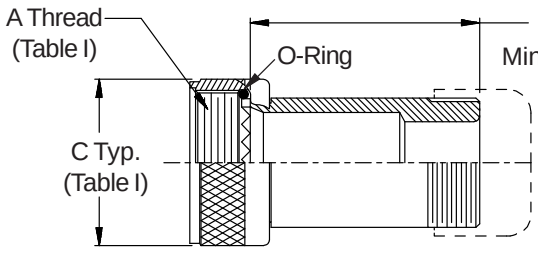
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables IV, V)
- Strain Relief Style (B, C, E)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

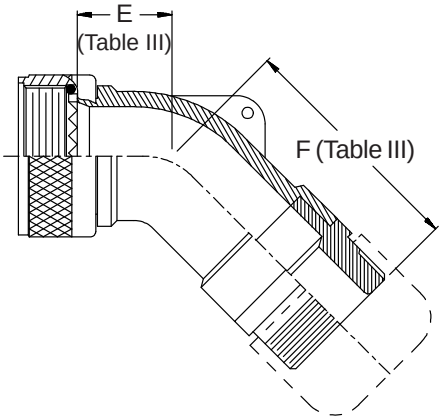


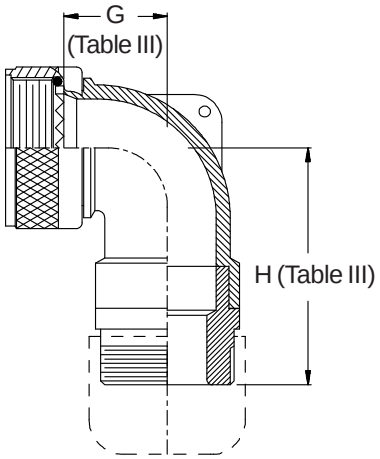
STYLE 2 (STRAIGHT See Note 1)



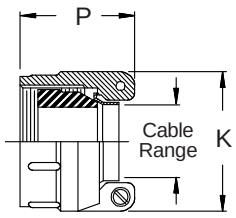
STYLE 2 (45° & 90° See Note 1)



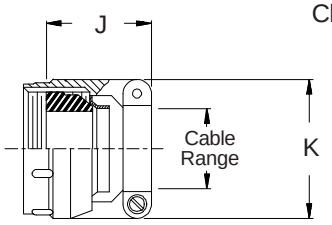


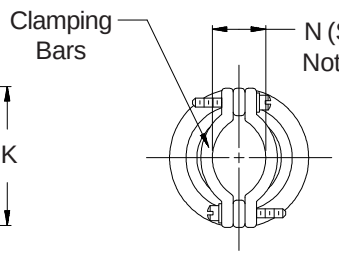


STYLE B (Table IV)

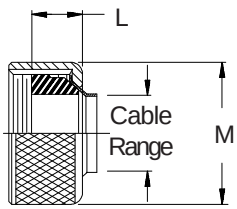


STYLE C Medium Duty (Table IV)





STYLE E Medium Duty (Table V)



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Low Profile - Rotatable Coupling

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE iV: CABLE ENTRY

Dash No.	J Max		K Max		N Ref		Cable Range Min		Cable Range Max		P Max	
03	1.219	(31.0)	.812	(20.6)	.135	(3.4)	.156	(4.0)	.219	(5.6)	1.031	(26.2)
04	1.219	(31.0)	.937	(23.8)	.203	(5.2)	.188	(4.8)	.312	(7.9)	1.031	(26.2)
06	1.219	(31.0)	1.062	(27.0)	.285	(7.2)	.281	(7.1)	.438	(11.1)	1.031	(26.2)
08	1.219	(31.0)	1.188	(30.2)	.350	(8.9)	.312	(7.9)	.531	(13.5)	1.031	(26.2)
10	1.281	(32.5)	1.312	(33.3)	.390	(9.9)	.375	(9.5)	.625	(15.9)	1.094	(27.8)
12	1.281	(32.5)	1.562	(39.7)	.460	(11.7)	.500	(12.7)	.750	(19.1)	1.219	(31.0)
16	1.406	(35.7)	1.750	(44.5)	.510	(13.0)	.625	(15.9)	.938	(23.8)	1.219	(31.0)
20	1.656	(42.1)	2.250	(57.2)	.695	(17.7)	.938	(23.8)	1.250	(31.8)	1.344	(34.1)
24	1.906	(48.4)	2.375	(60.3)	.715	(18.2)	1.000	(25.4)	1.375	(34.9)	1.547	(39.3)
28	1.906	(48.4)	2.625	(66.7)	.915	(23.2)	1.250	(31.8)	1.625	(41.3)	1.547	(39.3)
32	2.000	(50.8)	2.812	(71.4)	1.070	(27.2)	1.500	(38.1)	1.875	(47.6)	1.734	(44.0)

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.810	(46.0)	.500	(12.7)	1.820	(46.2)
10	11	.520	(13.2)	1.869	(47.5)	.595	(15.1)	1.940	(49.3)
12	13	.582	(14.8)	1.929	(49.0)	.610	(15.5)	1.960	(49.8)
14	15	.645	(16.4)	2.359	(59.9)	.700	(17.8)	2.369	(60.2)
16	17	.738	(18.7)	2.469	(62.7)	.885	(22.5)	2.459	(62.5)
18	19	.926	(23.5)	2.659	(67.5)	.975	(24.8)	2.629	(66.8)
20	21	.926	(23.5)	2.659	(67.5)	.975	(24.8)	2.629	(66.8)
22	23	1.020	(25.9)	2.872	(72.9)	1.125	(28.6)	2.802	(71.2)
24	25	1.020	(25.9)	2.872	(72.9)	1.125	(28.6)	2.802	(71.2)
28		1.145	(29.1)	2.905	(73.8)	1.225	(31.1)	2.955	(75.1)
32		1.207	(30.7)	3.005	(76.3)	1.575	(40.0)	3.205	(81.4)
36		1.238	(31.4)	3.315	(84.2)	1.775	(45.1)	3.255	(82.7)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE V: CABLE ENTRY

Dash No.	L Max		M Max		Cable Range Min		Cable Range Max	
03	.739	(18.8)	.812	(20.6)	.156	(4.0)	.219	(5.6)
04	.739	(18.8)	.937	(23.8)	.188	(4.8)	.312	(7.9)
06	.739	(18.8)	1.062	(27.0)	.281	(7.1)	.438	(11.1)
08	.739	(18.8)	1.188	(30.2)	.312	(7.9)	.531	(13.5)
10	.791	(20.1)	1.312	(33.3)	.375	(9.5)	.625	(15.9)
12	.880	(22.4)	1.562	(39.7)	.500	(12.7)	.750	(19.1)
16	.901	(22.9)	1.750	(44.5)	.625	(15.9)	.938	(23.8)
20	1.031	(26.2)	2.250	(57.2)	.938	(23.8)	1.250	(31.8)
24	1.250	(31.8)	2.375	(60.3)	1.000	(25.4)	1.375	(34.9)
28	1.250	(31.8)	2.625	(66.7)	1.250	(31.8)	1.625	(41.3)
32	1.312	(33.3)	2.812	(71.4)	1.500	(38.1)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Saddles are bottomed on Clamp Ears.
5. Interface O-Ring not supplied with Connector Designator A.
6. Consult factory for shorter lengths on straight backshells.

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370-008
Water-Tight Cable Sealing Backshell
with Strain Relief
Standard Profile - Rotatable Coupling

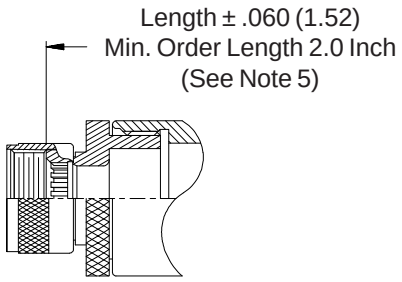
CONNECTOR DESIGNATOR

G

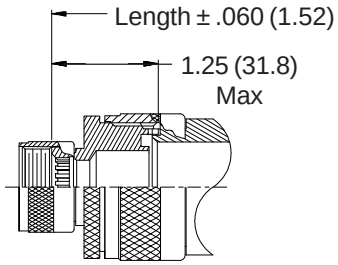
ROTATABLE COUPLING

370 G S 008 M 17 10 C 6

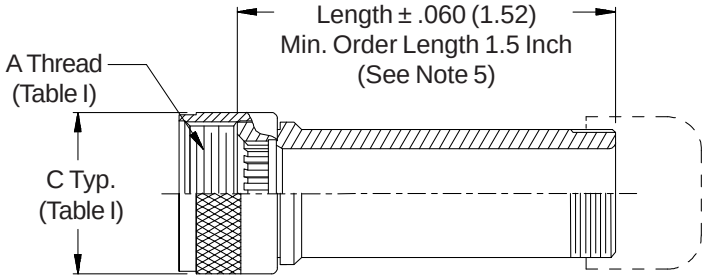
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables IV, V)
- Strain Relief Style (C, E)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

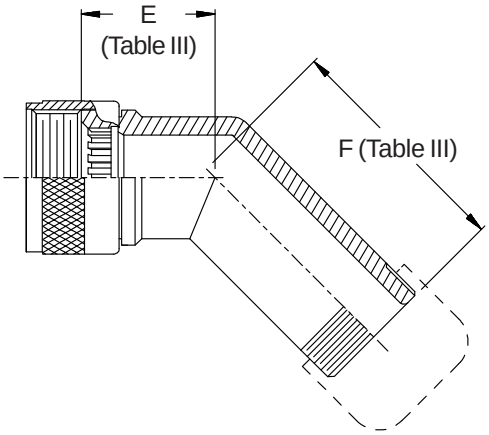


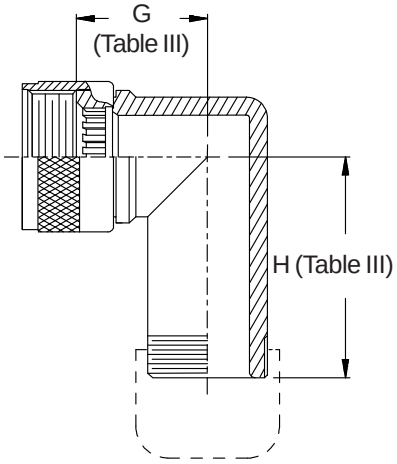
STYLE 2 (STRAIGHT See Note 1)



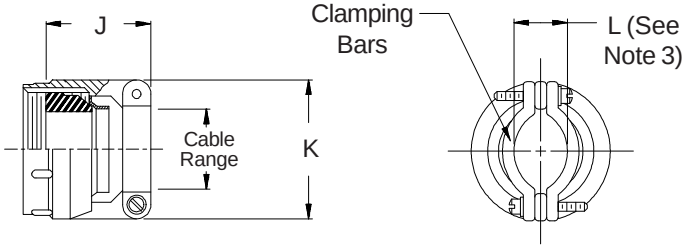
STYLE 2 (45° & 90° See Note 1)



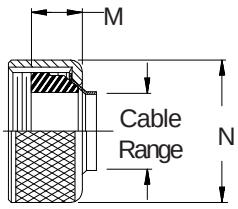




STYLE C
Medium Duty
(Table IV)



STYLE E
Medium Duty
(Table V)



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370-008
Water-Tight Cable Sealing Backshell
with Strain Relief
Standard Profile - Rotatable Coupling

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max		F Max		G Max		H Max	
11	1.240	(31.5)	.920	(23.4)	1.380	(35.1)	1.060	(26.9)
13	1.260	(32.0)	.940	(23.9)	1.440	(36.6)	1.120	(28.4)
15	1.290	(32.8)	.970	(24.6)	1.500	(38.1)	1.190	(30.2)
17	1.310	(33.3)	.990	(25.1)	1.570	(39.9)	1.250	(31.8)
19	1.340	(34.0)	1.020	(25.9)	1.630	(41.4)	1.330	(33.8)
23	1.380	(35.1)	1.060	(26.9)	1.730	(43.9)	1.410	(35.8)
25	1.410	(35.8)	1.090	(27.7)	1.800	(45.7)	1.480	(37.6)
29	1.580	(40.1)	1.260	(32.0)	2.040	(51.8)	1.720	(43.7)
33	1.620	(41.1)	1.300	(33.0)	2.130	(54.1)	1.810	(46.0)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	J Max		K Max		L Ref		Cable Range Min		Cable Range Max	
03	1.219	(31.0)	.812	(20.6)	.135	(3.4)	.156	(4.0)	.219	(5.6)
04	1.219	(31.0)	.937	(23.8)	.203	(5.2)	.188	(4.8)	.312	(7.9)
06	1.219	(31.0)	1.062	(27.0)	.285	(7.2)	.281	(7.1)	.438	(11.1)
08	1.219	(31.0)	1.188	(30.2)	.350	(8.9)	.312	(7.9)	.531	(13.5)
10	1.281	(32.5)	1.312	(33.3)	.390	(9.9)	.375	(9.5)	.625	(15.9)
12	1.281	(32.5)	1.562	(39.7)	.460	(11.7)	.500	(12.7)	.750	(19.1)
16	1.406	(35.7)	1.750	(44.5)	.510	(13.0)	.625	(15.9)	.938	(23.8)
20	1.656	(42.1)	2.250	(57.2)	.695	(17.7)	.938	(23.8)	1.250	(31.8)
24	1.906	(48.4)	2.375	(60.3)	.715	(18.2)	1.000	(25.4)	1.375	(34.9)
28	1.906	(48.4)	2.625	(66.7)	.915	(23.2)	1.250	(31.8)	1.625	(41.3)
32	2.000	(50.8)	2.812	(71.4)	1.070	(27.2)	1.500	(38.1)	1.875	(47.6)

TABLE V: CABLE ENTRY

Dash No.	M Max		N Max		Cable Range Min		Cable Range Max	
03	.739	(18.8)	.812	(20.6)	.156	(4.0)	.219	(5.6)
04	.739	(18.8)	.937	(23.8)	.188	(4.8)	.312	(7.9)
06	.739	(18.8)	1.062	(27.0)	.281	(7.1)	.438	(11.1)
08	.739	(18.8)	1.188	(30.2)	.312	(7.9)	.531	(13.5)
10	.791	(20.1)	1.312	(33.3)	.375	(9.5)	.625	(15.9)
12	.880	(22.4)	1.562	(39.7)	.500	(12.7)	.750	(19.1)
16	.901	(22.9)	1.750	(44.5)	.625	(15.9)	.938	(23.8)
20	1.031	(26.2)	2.250	(57.2)	.938	(23.8)	1.250	(31.8)
24	1.250	(31.8)	2.375	(60.3)	1.000	(25.4)	1.375	(34.9)
28	1.250	(31.8)	2.625	(66.7)	1.250	(31.8)	1.625	(41.3)
32	1.312	(33.3)	2.812	(71.4)	1.500	(38.1)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G & H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Saddles are bottomed on Clamp Ears.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Consult factory for shorter lengths on straight backshells.

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370-004
Water-Tight Cable Sealing Backshell
with Strain Relief
Low Profile - Direct Coupling

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

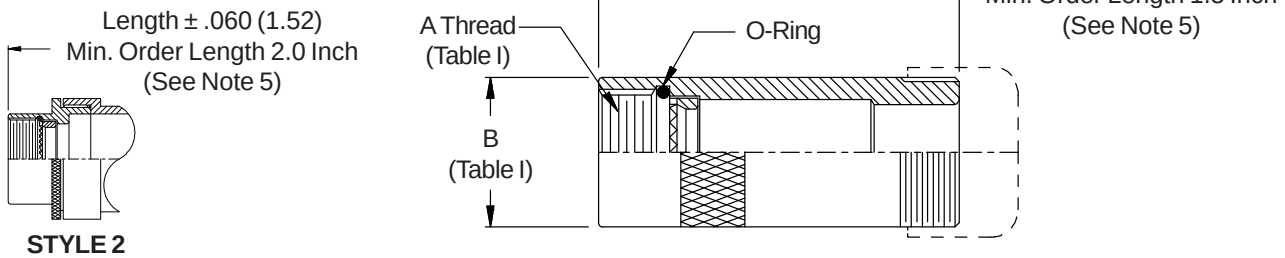
G-H-J-K-L-S

*** Conn. Desig. B See Note 6**

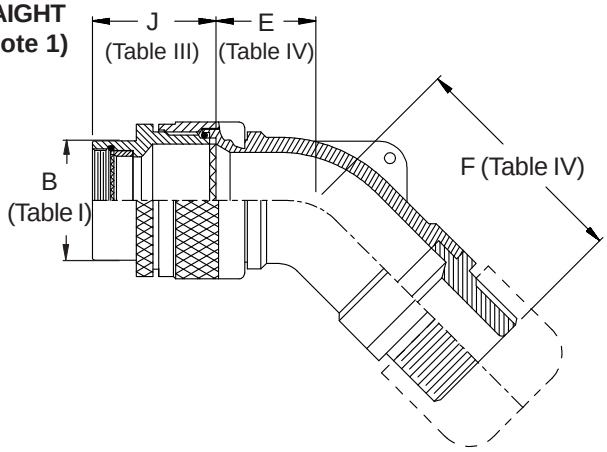
DIRECT COUPLING

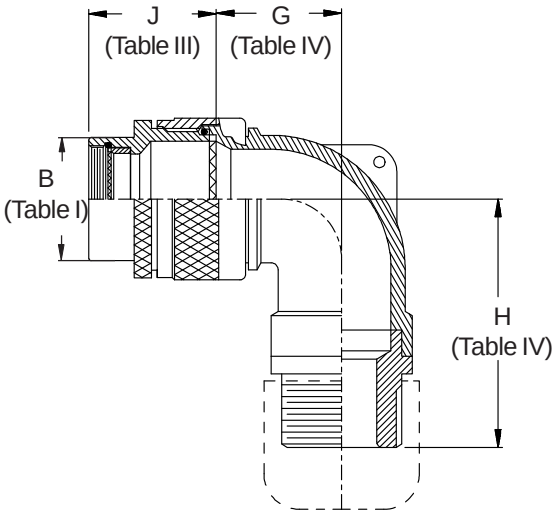
370 F S 004 M 16 10 C 6

- Product Series: 370
- Connector Designator: F
- Angle and Profile: S
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.: 004
- Finish (Table II): M
- Shell Size (Table I): 16
- Cable Entry (Tables V, VI): 10
- Strain Relief Style (B, C, E): C
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches): 6

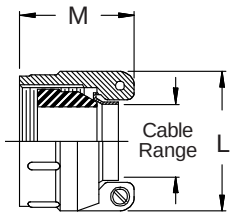


STYLE 2
(STRAIGHT
See Note 1)

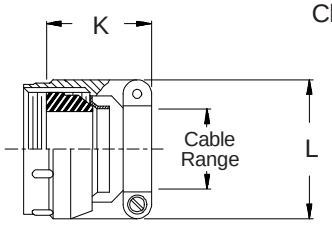


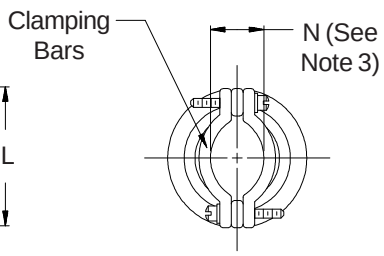


STYLE B
(Table V)

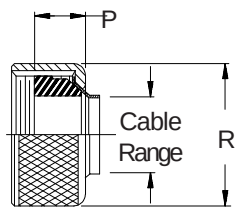


STYLE C
Medium Duty
(Table V)





STYLE E
Medium Duty
(Table VI)



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370-004
Water-Tight Cable Sealing Backshell
with Strain Relief
Low Profile - Direct Coupling

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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
04	.567 (14.4)	1.187 (30.1)	.636 (16.2)	1.200 (30.5)
06	.630 (16.0)	1.250 (31.8)	.710 (18.0)	1.320 (33.5)
08	.692 (17.6)	1.312 (33.3)	.731 (18.6)	1.340 (34.0)
10	.755 (19.2)	1.655 (42.0)	.825 (21.0)	1.660 (42.2)
12	.848 (21.5)	1.765 (44.8)	.988 (25.1)	1.750 (44.5)
16	1.036 (26.3)	1.952 (49.6)	1.087 (27.6)	1.925 (48.9)
20	1.130 (28.7)	2.098 (53.3)	1.325 (33.7)	2.033 (51.6)
24	1.255 (31.9)	2.155 (54.7)	1.337 (34.0)	2.200 (55.9)
28	1.317 (33.5)	2.250 (57.2)	1.827 (46.4)	2.450 (62.2)
32	1.348 (34.2)	2.343 (59.5)	2.027 (51.5)	2.450 (62.2)

TABLE V: CABLE ENTRY

Dash No.	K Max	L Max	N Ref	Cable Range Min	Cable Range Max	M Max
03	1.219 (31.0)	.812 (20.6)	.135 (3.4)	.156 (4.0)	.219 (5.6)	1.031 (26.2)
04	1.219 (31.0)	.937 (23.8)	.203 (5.2)	.188 (4.8)	.312 (7.9)	1.031 (26.2)
06	1.219 (31.0)	1.062 (27.0)	.285 (7.2)	.281 (7.1)	.438 (11.1)	1.031 (26.2)
08	1.219 (31.0)	1.188 (30.2)	.350 (8.9)	.312 (7.9)	.531 (13.5)	1.031 (26.2)
10	1.281 (32.5)	1.312 (33.3)	.390 (9.9)	.375 (9.5)	.625 (15.9)	1.094 (27.8)
12	1.281 (32.5)	1.562 (39.7)	.460 (11.7)	.500 (12.7)	.750 (19.1)	1.219 (31.0)
16	1.406 (35.7)	1.750 (44.5)	.510 (13.0)	.625 (15.9)	.938 (23.8)	1.219 (31.0)
20	1.656 (42.1)	2.250 (57.2)	.695 (17.7)	.938 (23.8)	1.250 (31.8)	1.344 (34.1)
24	1.906 (48.4)	2.375 (60.3)	.715 (18.2)	1.000 (25.4)	1.375 (34.9)	1.547 (39.3)
28	1.906 (48.4)	2.625 (66.7)	.915 (23.2)	1.250 (31.8)	1.625 (41.3)	1.547 (39.3)
32	2.000 (50.8)	2.812 (71.4)	1.070 (27.2)	1.500 (38.1)	1.875 (47.6)	1.734 (44.0)

TABLE VI: CABLE ENTRY

Dash No.	P Max	R Max	Cable Range Min	Cable Range Max
03	.739 (18.8)	.812 (20.6)	.156 (4.0)	.219 (5.6)
04	.739 (18.8)	.937 (23.8)	.188 (4.8)	.312 (7.9)
06	.739 (18.8)	1.062 (27.0)	.281 (7.1)	.438 (11.1)
08	.739 (18.8)	1.188 (30.2)	.312 (7.9)	.531 (13.5)
10	.791 (20.1)	1.312 (33.3)	.375 (9.5)	.625 (15.9)
12	.880 (22.4)	1.562 (39.7)	.500 (12.7)	.750 (19.1)
16	.901 (22.9)	1.750 (44.5)	.625 (15.9)	.938 (23.8)
20	1.031 (26.2)	2.250 (57.2)	.938 (23.8)	1.250 (31.8)
24	1.250 (31.8)	2.375 (60.3)	1.000 (25.4)	1.375 (34.9)
28	1.250 (31.8)	2.625 (66.7)	1.250 (31.8)	1.625 (41.3)
32	1.312 (33.3)	2.812 (71.4)	1.500 (38.1)	1.875 (47.6)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. Function S only.
2. Metric dimensions (mm) are indicated in parentheses.
3. Saddles are bottomed on Clamp Ears.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Consult factory for shorter lengths on straight backshells.
6. When using Connector Designator B refer to pages 18 and 19 for part number development.

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370-005
Splash-Proof Cable Sealing Backshell
with Strain Relief
Low Profile - Rotatable Coupling

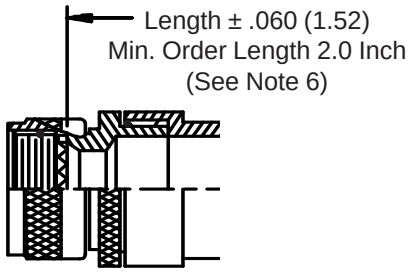
CONNECTOR DESIGNATORS

A-F-H-L-S

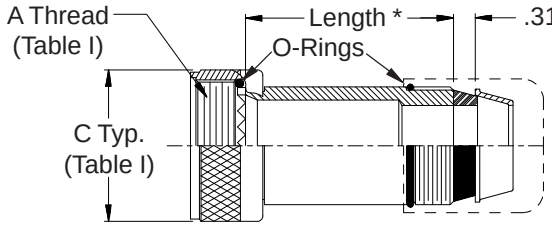
ROTATABLE COUPLING

370 F S 005 M 16 10 L 6

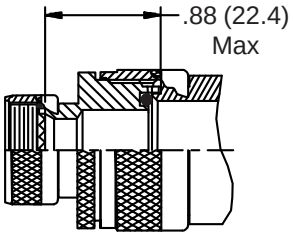
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)
- Cable Entry (Tables IV, V)
- Strain Relief Style (L,G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



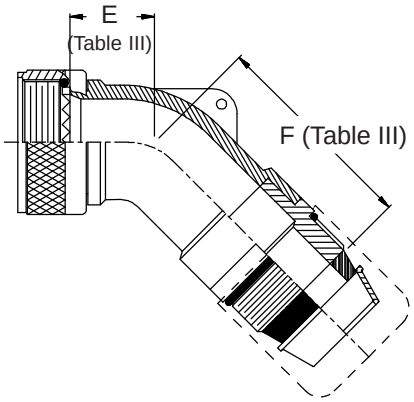
STYLE 2 (STRAIGHT See Note 1)

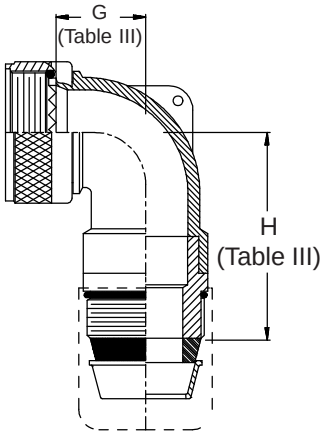


* Length ± .060 (1.52) Min. Order Length 1.5 Inch (See Note 6)

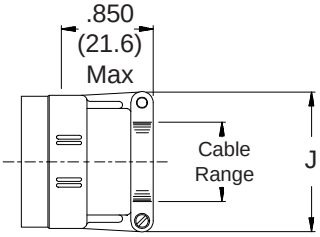


STYLE 2 (45° & 90° See Note 1)

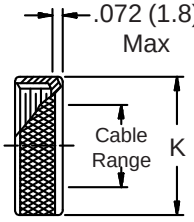




STYLE L
Light Duty (Table IV)



STYLE G
Light Duty (Table V)



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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.457 (11.6)	2.030 (51.6)	.500 (12.7)	2.040 (51.8)
10	11	.520 (13.2)	2.030 (51.6)	.595 (15.1)	2.040 (51.8)
12	13	.582 (14.8)	2.090 (53.1)	.610 (15.5)	2.160 (54.9)
14	15	.645 (16.4)	2.150 (54.6)	.700 (17.8)	2.180 (55.4)
16	17	.738 (18.7)	2.240 (56.9)	.885 (22.5)	2.250 (57.2)
18	19	.926 (23.5)	2.340 (59.4)	.975 (24.8)	2.340 (59.4)
20	21	.926 (23.5)	2.340 (59.4)	.975 (24.8)	2.340 (59.4)
22	23	1.020 (25.9)	2.540 (64.5)	1.125 (28.6)	2.510 (63.8)
24	25	1.020 (25.9)	2.540 (64.5)	1.125 (28.6)	2.510 (63.8)
28		1.145 (29.1)	2.680 (68.1)	1.225 (31.1)	2.620 (66.5)
32		1.207 (30.7)	2.680 (68.1)	1.575 (40.0)	2.620 (66.5)
36		1.238 (31.4)	2.680 (68.1)	1.775 (45.1)	2.620 (66.5)

TABLE IV: CABLE ENTRY

Dash No.	J Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Range Min	Cable Range Max
01	.593 (15.1)	.062 (1.6)	.125 (3.2)
02	.718 (18.2)	.125 (3.2)	.250 (6.4)
03	.873 (22.2)	.250 (6.4)	.375 (9.5)
04	.968 (24.6)	.375 (9.5)	.500 (12.7)
05	1.109 (28.2)	.500 (12.7)	.625 (15.9)
06	1.218 (30.9)	.625 (15.9)	.750 (19.1)
07	1.343 (34.1)	.750 (19.1)	.875 (22.2)
08	1.468 (37.3)	.875 (22.2)	1.000 (25.4)
09	1.593 (40.5)	1.000 (25.4)	1.125 (28.6)
10	1.718 (43.6)	1.125 (28.6)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied.
   Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable.
   Dimensions shown are not intended for inspection criteria.
4. Interface O-Ring not supplied with connector designator A.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

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370-006
Splash-Proof Cable Sealing Backshell
with Strain Relief
Low Profile - Direct Coupling

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

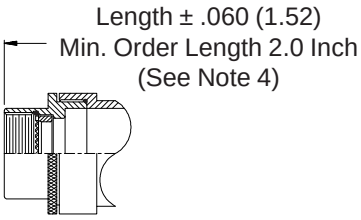
G-H-J-K-L-S

*** Conn. Desig. B See Note 5**

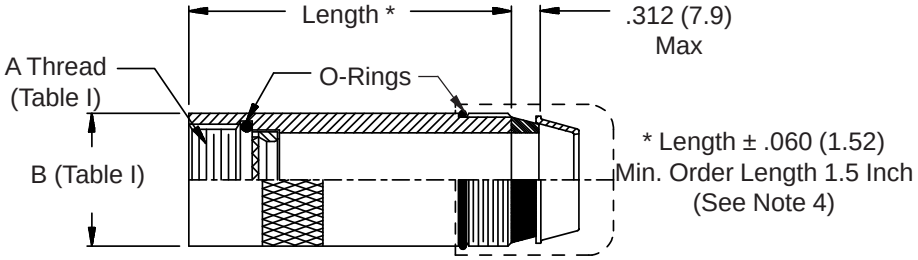
DIRECT COUPLING

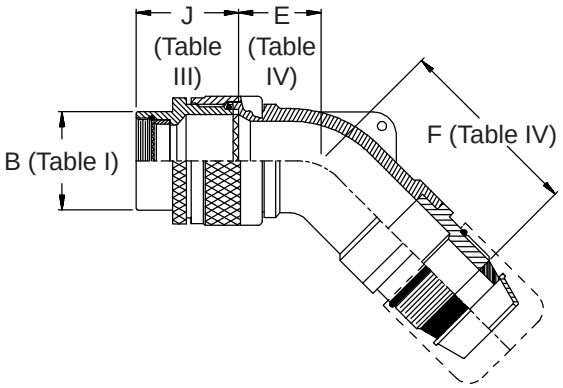
370 F S 006 M 16 10 L 6

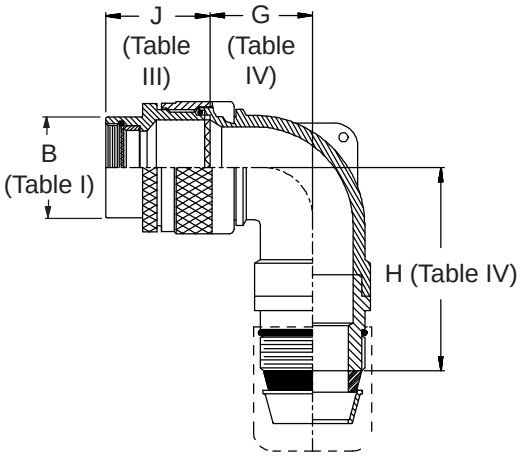
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)
- Strain Relief Style (L,G)
- Cable Entry (Tables V, VI)
- Shell Size (Table I)
- Finish (Table II)



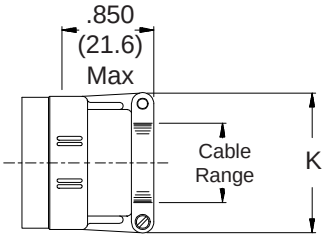
STYLE 2 (STRAIGHT See Note 1)



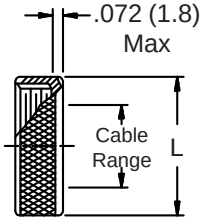




STYLE L
Light Duty (Table V)



STYLE G
Light Duty (Table VI)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. Function S only.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
01	.567 (14.4)	2.030 (51.6)	.636 (16.2)	2.040 (51.8)
02	.567 (14.4)	2.030 (51.6)	.636 (16.2)	2.040 (51.8)
03	.630 (16.0)	2.090 (53.1)	.710 (18.0)	2.160 (54.9)
04	.692 (17.6)	2.150 (54.6)	.731 (18.6)	2.180 (55.4)
05	.755 (19.2)	2.240 (56.9)	.825 (21.0)	2.250 (57.2)
06	.848 (21.5)	2.340 (59.4)	.988 (25.1)	2.340 (59.4)
07	1.036 (26.3)	2.540 (64.5)	1.087 (27.6)	2.510 (63.8)
08	1.130 (28.7)	2.680 (68.1)	1.325 (33.7)	2.620 (66.5)
09	1.130 (28.7)	2.680 (68.1)	1.325 (33.7)	2.620 (66.5)
10	1.130 (28.7)	2.680 (68.1)	1.325 (33.7)	2.620 (66.5)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

TABLE VI: CABLE ENTRY

Dash No.	L Max	Cable Range Min	Cable Range Max
01	.593 (15.1)	.062 (1.6)	.125 (3.2)
02	.718 (18.2)	.125 (3.2)	.250 (6.4)
03	.843 (21.4)	.250 (6.4)	.375 (9.5)
04	.968 (24.6)	.375 (9.5)	.500 (12.7)
05	1.109 (28.2)	.500 (12.7)	.625 (15.9)
06	1.218 (30.9)	.625 (15.9)	.750 (19.1)
07	1.343 (34.1)	.750 (19.1)	.875 (22.2)
08	1.468 (37.3)	.875 (22.2)	1.000 (25.4)
09	1.593 (40.5)	1.000 (25.4)	1.125 (28.6)
10	1.718 (43.6)	1.125 (28.6)	1.250 (31.8)

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370-023
Submersible Split Shell Cable Sealing Backshell
with Strain Relief
Low Profile - Rotatable Coupling

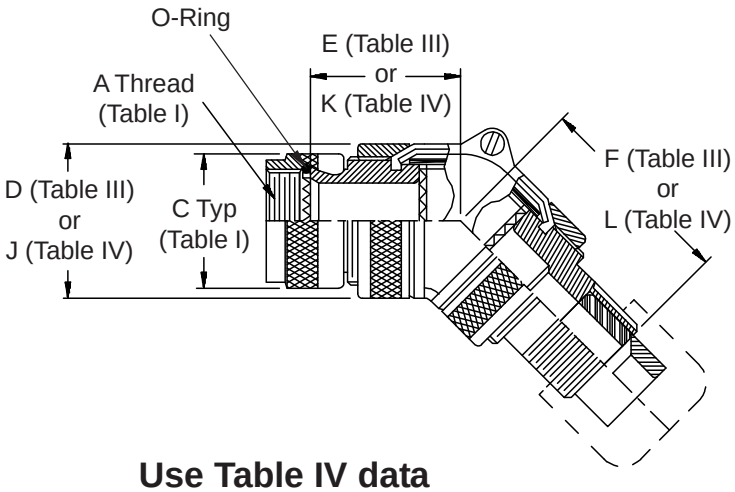
CONNECTOR DESIGNATORS

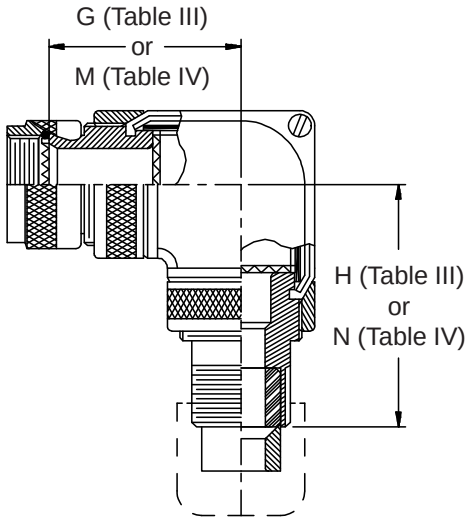
A-F-H-L-S

ROTATABLE COUPLING

370 F P 023 M 16 10 H

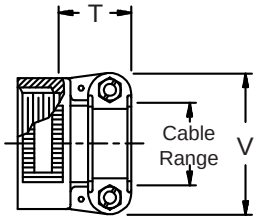
- Product Series
- Connector Designator
- Angle and Profile
  - P = 45°
  - R = 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)



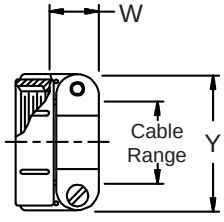


Use Table IV data when C diameter exceeds D diameter.

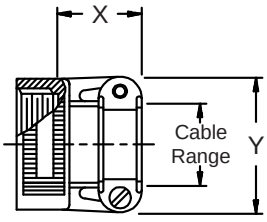
STYLE H
Heavy Duty
(Table X)



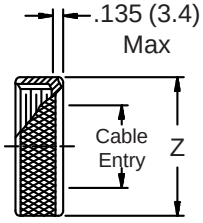
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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370-023
Submersible Split Shell Cable Sealing Backshell
with Strain Relief
Low Profile - Rotatable Coupling

Glenair®

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	D Max	E Max	F Max	G Max	H Max
08	09	1.188 (30.2)	1.781 (45.2)	2.156 (54.8)	1.781 (45.2)	2.156 (54.8)
10	11	1.188 (30.2)	1.781 (45.2)	2.156 (54.8)	1.781 (45.2)	2.156 (54.8)
12	13	1.188 (30.2)	1.781 (45.2)	2.156 (54.8)	1.781 (45.2)	2.156 (54.8)
14	15	1.188 (30.2)	1.781 (45.2)	2.156 (54.8)	1.781 (45.2)	2.156 (54.8)
16	17	1.438 (36.5)	1.906 (48.4)	2.281 (57.9)	1.906 (48.4)	2.281 (57.9)
18	19	1.438 (36.5)	1.906 (48.4)	2.281 (57.9)	1.906 (48.4)	2.281 (57.9)
20	21	1.438 (36.5)	1.906 (48.4)	2.281 (57.9)	1.906 (48.4)	2.281 (57.9)
22	23	1.688 (42.9)	2.031 (51.6)	2.406 (61.1)	2.031 (51.6)	2.406 (61.1)
24	25	1.688 (42.9)	2.031 (51.6)	2.406 (61.1)	2.031 (51.6)	2.406 (61.1)

TABLE IV: DIMENSIONS

Dash No.	J Max	K Max	L Max	M Max	N Max
08	1.438 (36.5)	1.906 (48.4)	2.281 (57.9)	1.906 (48.4)	2.281 (57.9)
10	1.688 (42.9)	2.031 (51.6)	2.406 (61.1)	2.031 (51.6)	2.406 (61.1)
12	1.688 (42.9)	2.031 (51.6)	2.406 (61.1)	2.031 (51.6)	2.406 (61.1)
16	1.688 (42.9)	2.031 (51.6)	2.406 (61.1)	2.031 (51.6)	2.406 (61.1)
20	2.188 (55.6)	2.281 (57.9)	2.656 (67.5)	2.281 (57.9)	2.656 (67.5)
24	2.188 (55.6)	2.281 (57.9)	2.656 (67.5)	2.281 (57.9)	2.656 (67.5)
28	2.688 (68.3)	2.531 (64.3)	2.906 (73.8)	2.531 (64.3)	2.906 (73.8)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Interface O-Ring not supplied with connector designator A.

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)

* Not available in Style M clamp.

** Not Applicable Style D

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370-024
Submersible Split Shell Cable Sealing Backshell
with Strain Relief
Low Profile - Self-Locking - Rotatable Coupling

CONNECTOR DESIGNATORS

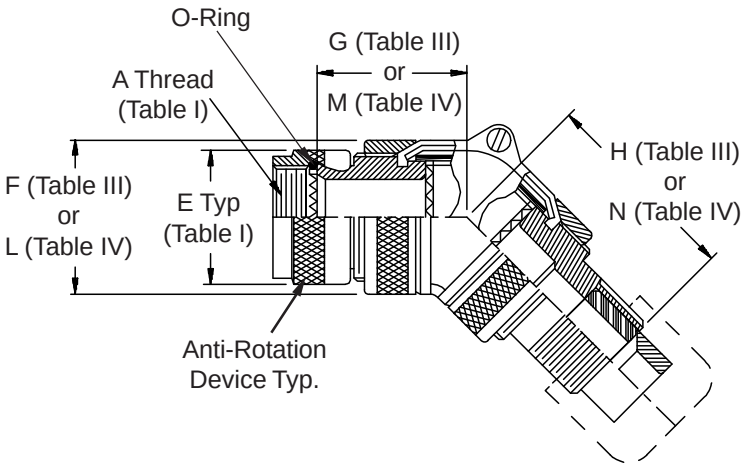
A-F-H-L-S

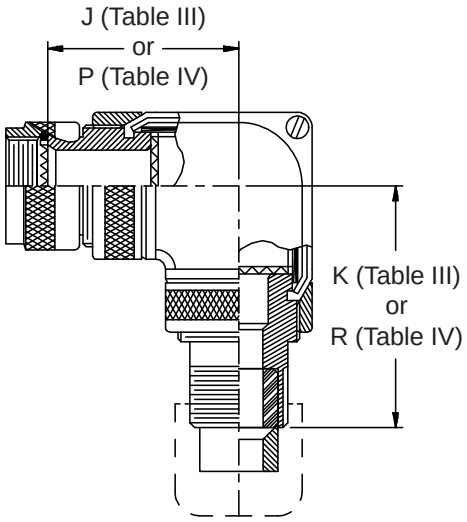
SELF-LOCKING

ROTATABLE COUPLING

370 F P 024 M 16 10 H

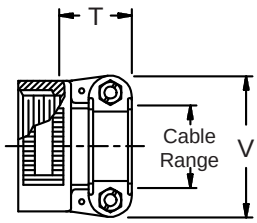
- Product Series
- Connector Designator
- Angle and Profile
  - P = 45°
  - R = 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)



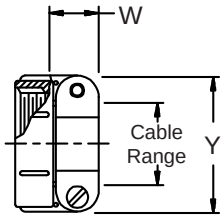


Use Table IV data when E diameter exceeds F diameter.

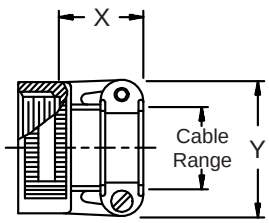
STYLE H
Heavy Duty
(Table X)



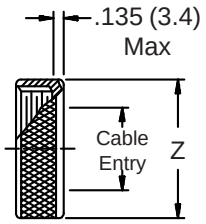
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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370-024
Submersible Split Shell Cable Sealing Backshell
with Strain Relief
Low Profile - Self-Locking - Rotatable Coupling

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TABLE III: DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max		K Max	
08	09	1.188	(30.2)	1.938	(49.2)	2.156	(54.8)	1.938	(49.2)	2.156	(54.8)
10	11	1.188	(30.2)	1.938	(49.2)	2.156	(54.8)	1.938	(49.2)	2.156	(54.8)
12	13	1.188	(30.2)	1.938	(49.2)	2.156	(54.8)	1.938	(49.2)	2.156	(54.8)
14	15	1.188	(30.2)	1.938	(49.2)	2.156	(54.8)	1.938	(49.2)	2.156	(54.8)
16	17	1.438	(36.5)	2.062	(52.4)	2.281	(57.9)	2.062	(52.4)	2.281	(57.9)
18	19	1.438	(36.5)	2.062	(52.4)	2.281	(57.9)	2.062	(52.4)	2.281	(57.9)
20	21	1.438	(36.5)	2.062	(52.4)	2.281	(57.9)	2.062	(52.4)	2.281	(57.9)
22	23	1.688	(42.9)	2.188	(55.6)	2.406	(61.1)	2.188	(55.6)	2.406	(61.1)
24	25	1.688	(42.9)	2.188	(55.6)	2.406	(61.1)	2.188	(55.6)	2.406	(61.1)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE IV: DIMENSIONS

Dash No.	L Max		M Max		N Max		P Max		R Max	
08	1.438	(36.5)	2.062	(52.4)	2.281	(57.9)	2.062	(52.4)	2.281	(57.9)
10	1.688	(42.9)	2.188	(55.6)	2.406	(61.1)	2.188	(55.6)	2.406	(61.1)
12	1.688	(42.9)	2.188	(55.6)	2.406	(61.1)	2.188	(55.6)	2.406	(61.1)
16	1.688	(42.9)	2.188	(55.6)	2.406	(61.1)	2.188	(55.6)	2.406	(61.1)
20	2.188	(55.6)	2.438	(61.9)	2.656	(67.5)	2.438	(61.9)	2.656	(67.5)
24	2.188	(55.6)	2.438	(61.9)	2.656	(67.5)	2.438	(61.9)	2.656	(67.5)
28	2.688	(68.3)	2.688	(68.3)	2.906	(73.8)	2.688	(68.3)	2.906	(73.8)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Interface O-Ring not supplied with connector designator A.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
C	Anodize, Black
G	Hard Coat, Anodic
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)

* Not available in Style M clamp.

** Not Applicable Style D

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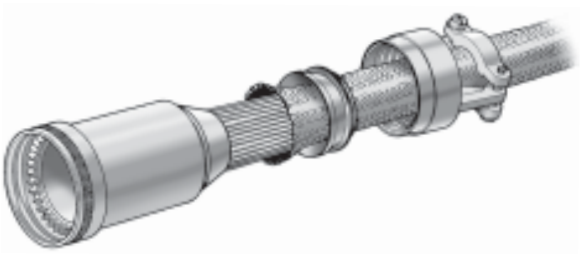


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PRODUCT FEATURES

- EMI/RFI Backshell Design Features Seven Styles of Ring Type Shield Terminations for Both Overall and Individual Shields
- Rotatable, Self-Locking and Direct Coupling Styles
- Standard, Low Profile, Full Radius and Split Shell Designs
- Straight, 45° and 90° Configurations
- Selection of Strain-Relief Styles
- Non-Environmental

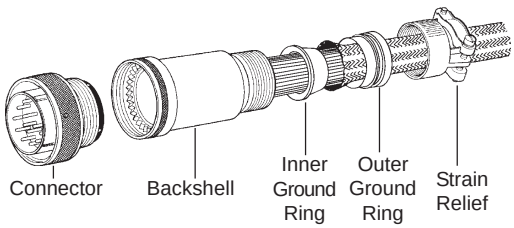
Seven styles of non-environmental conical shield ring type EMI/RFI backshells

The right style of shield termination for every EMI/RFI application

A choice of 360° shield/screen terminations are offered in straight and angled backshells, including designs to accommodate combinations of individual or overall shields or screens. All designs included in this section provide low dc resistance across the termination area. Selection is based primarily on cable construction—what type of shield is being terminated, where the shield or combination of shields is located within the cable and the type of outer jacketing are key variables.

For assistance in selecting the right style of conical shield ring backshell for your application please review the following type descriptions and assembly instructions, or call our factory for assistance.

TYPE A SHIELD TERMINATION



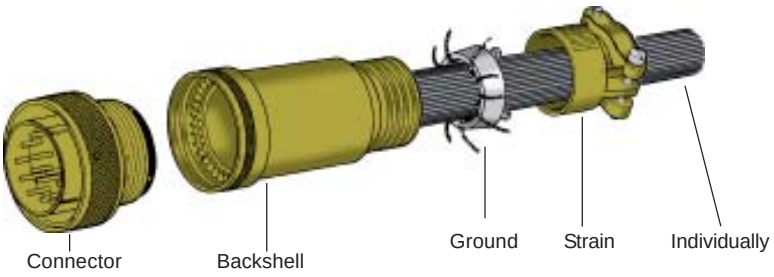
For heavy and medium duty applications, an EMI/RFI backshell which features two tapered conical rings which capture the overall cable/harness shield inside a counterbore in the backshell body. Shield "WALL" thickness range: 0 to .062 (1.6mm).

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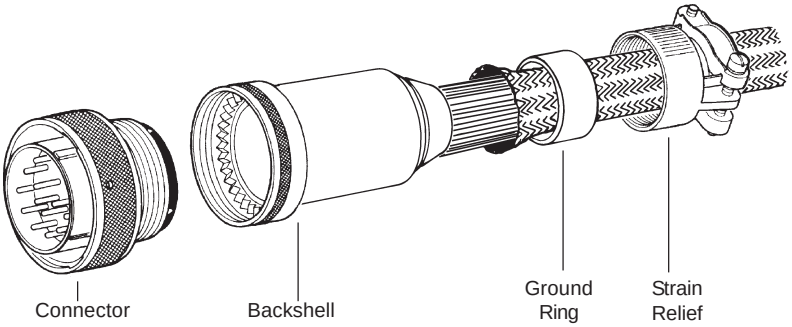
Series 38
EMI/RFI Non-Environmental Backshells
with Strain Relief

TYPE B SHIELD TERMINATION



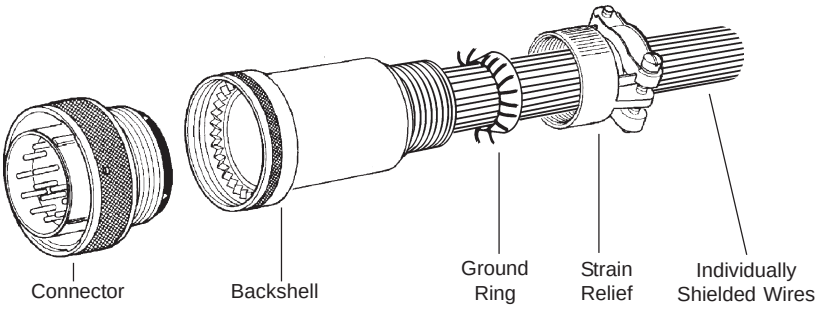
A medium or general duty design which accommodates either an overall cable/harness shield, or shields or ground wires from individually shielded complexes, or both simultaneously. A tapered ground ring which seats into a corresponding tapered surface in the backshell affords full peripheral termination. Shield "WALL" thickness range: .031 (0.8mm) to .188 (4.8mm).

TYPE C SHIELD TERMINATION



Two versions: medium and light duty shield termination designs which have a tapered grounding ring mating to a tapered surface on the rear of the backshell for 360° shield termination of an overall braided shield. Light duty termination designs are specifically configured for weight-sensitive applications. Shield "WALL" thickness range to max of .062 (1.6mm).

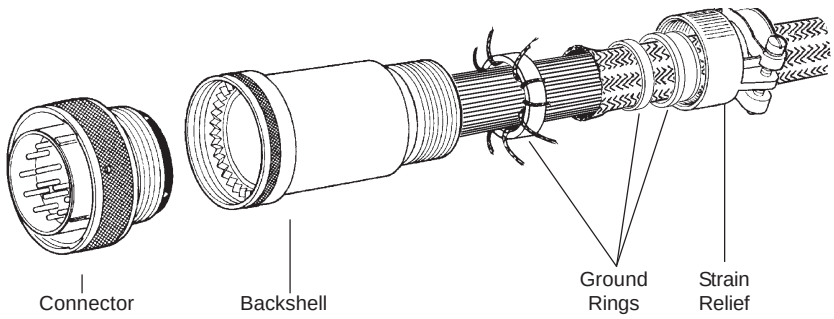
TYPE D SHIELD TERMINATION



A light duty termination design for either overall or individual shield temination. A tapered grounding ring mates with a corresponding tapered surface in the backshell cable entry area. Shield "WALL" thickness range 0 to .062 (1.6mm).

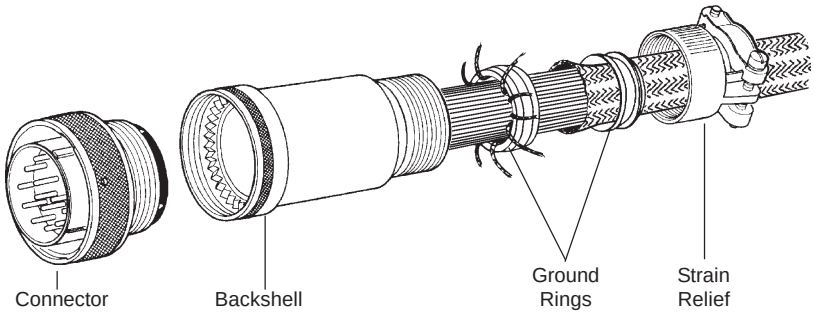
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TYPE E SHIELD TERMINATION



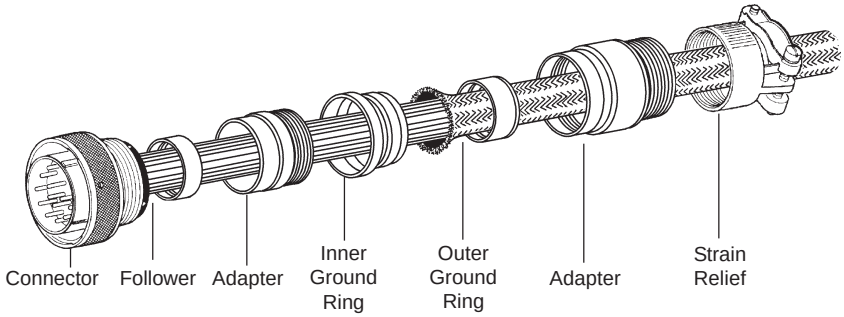
This is a light duty termination for either overall or individual shield termination or both. Two or three ground rings are utilized, the two ring style can be used for grounding either individual or overall shields. For grounding both individual and overall, the three rings style is used.

TYPE F SHIELD TERMINATION



A medium duty termination that also provides for grounding individual, overall, or both shields together. The forward ground ring has an angled surface on both sides, providing an area to fold back and fold forward the individual or overall braids, it will also facilitate both braids together.

TYPE G SHIELD TERMINATION

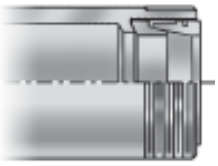
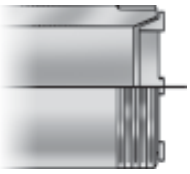
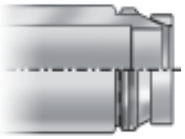


Type G provides a heavy duty method for grounding individual and/or over-all braid. This is a dual ring method, that allows full access to the termination area.

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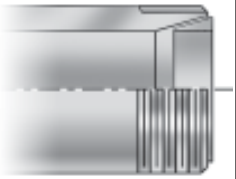
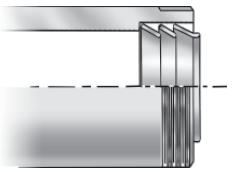
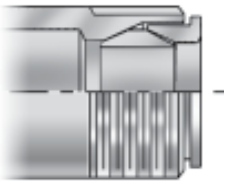
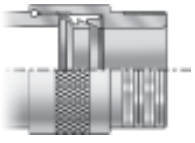
Consult factory for any designs not included within this catalog.

Shield Termination Design	Coupling Type	Connector Designators	Page Number: Straight	Low Profile	Full Radius Profile	Standard Profile	Split Shell
Type A Shield Terminations							
 Type A	Rotatable 380-001	A F H L S	38-14	38-14			
	Rotatable 380-011	G	38-16			38-16	
	Direct 380-002	All	38-18	38-18			
Type B Shield Terminations							
 Type B	Rotatable 380-115	A F H L S	38-20	38-20			
	Rotatable 380-116	G	38-22			38-22	
	Direct 380-117	All	38-24	38-24			
Type C Shield Terminations							
 Type C- Heavy-Duty	Rotatable 380-005	A F H L S	38-26	38-26			
	Direct 380-006	All	38-28	38-28			
 Type C- Light-Duty	Rotatable 380-007	A F H L S	38-30	38-30	38-32	38-32	38-36
	Direct 380-008	All	38-38	38-38		38-40	38-42
	Self-Locking Rotatable 380-106	A F H L S	38-44		38-44	38-46	38-48

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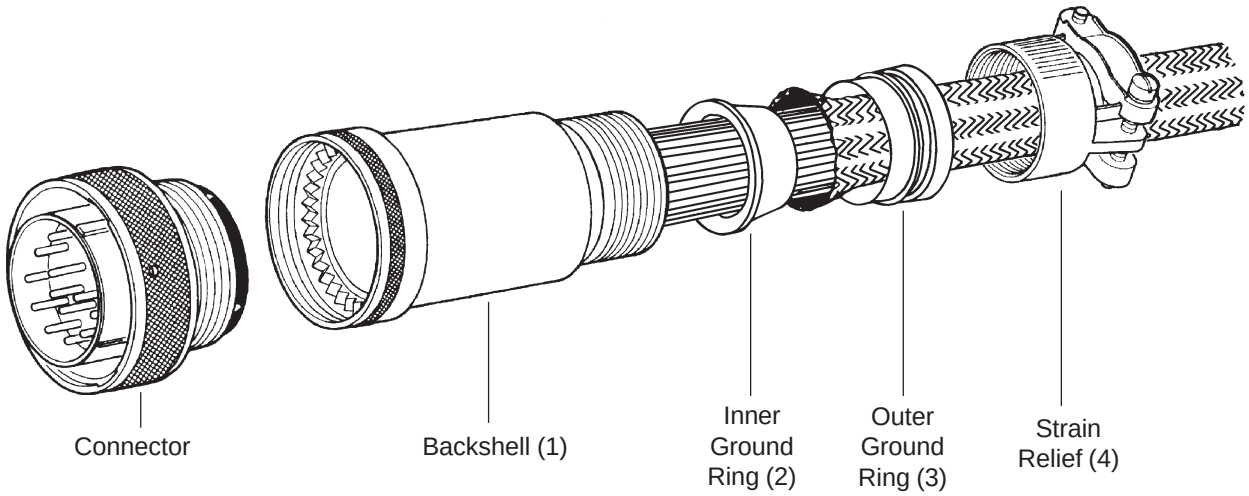
Shield Termination Design	Coupling Type	Connector Designators	Page Number: Straight	Low Profile	Full Radius Profile	Standard Profile	Split Shell
Type D Shield Terminations							
 Type D	Rotatable 380-009 380-013	A F H L S	38-50 38-70	38-50 38-70	38-52	38-54 38-72	38-56 38-74
	Direct 380-010 380-014	All	38-58 38-76	38-58 38-76		38-60	38-62 38-78
	Self-Locking Rotatable 380-107 380-111	A F H L S	38-64 38-80		38-64	38-66 38-80	38-68 38-82
Type E Shield Terminations							
 Type E	Rotatable 380-018	A F H L S	38-84	38-84	38-86	38-88	38-90
	Direct 380-019	All	38-92	38-92		38-94	38-96
	Self-Locking Rotatable 380-109	A F H L S	38-98		38-98	38-100	38-102
Type F Shield Terminations							
 Type F	Rotatable 380-103	A F H L S	38-104	38-104	38-106	38-108	38-110
	Direct 380-104	All	38-112	38-112		38-114	38-116
	Self-Locking Rotatable 380-105	A F H L S	38-118		38-118	38-120	38-122
Type G Shield Terminations							
 Type G	Rotatable 380-071	A F H L S	38-124	38-124			

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Type A Assembly Instructions
Series 38 EMI/RFI Non-Environmental Backshells
with Strain Relief

ASSEMBLY INSTRUCTIONS
TYPE A SHIELD TERMINATIONS



The following suggested procedure serves as a guide for proper assembly and installation of Glenair EMI/RFI Non-Environmental Backshells (Type A shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the cable or harness, overall shield and individual conductors.

a. Temporarily assemble backshell (1) to connector.

b. Place ground rings (2,3) and strain relief (4) on cable in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert shielded cable or harness into backshell (1) and bottom against connector. Hold cable in position and mark cable shield at rear end of adapter.

d. Remove backshell from connector and place on cable with components in step (b) above.

e. Trim cable shield at mark made in step (c) above.

f. Prepare and terminate cable conductors in accordance with established practices.

g. Assemble backshell (1) to connector and tighten securely. Slide inner ground ring (2) into backshell (1) and bottom out.

h. Flare shield over tapered end of inner ground ring (2) and gently force cable toward connector until shield covers taper of ring.

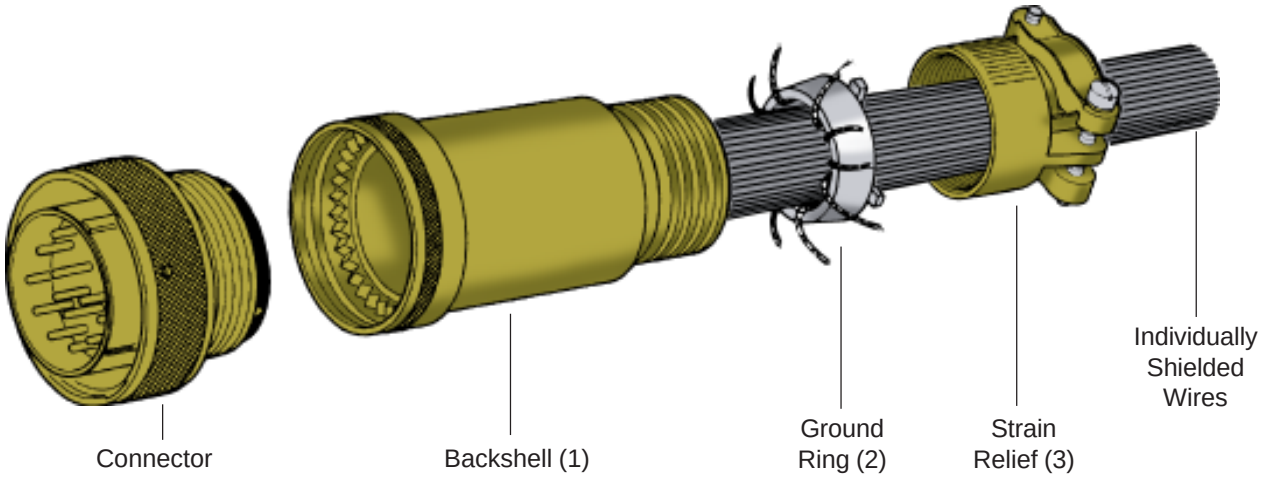
i. Insert outer ground ring (3) into backshell (1) over shield.

j. Attach strain relief (4) to backshell and tighten securely. If provided, tighten strain relief saddles securely on cable.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS
TYPE B SHIELD TERMINATIONS



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Non-Environmental Backshells (Type B shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors.

a. Temporarily assemble backshell to connector.

b. Place ground ring, and strain relief on cable or harness in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable or harness into backshell and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell adapter.

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above. This procedure is for individually shielded conductors.

f. Extract shield pigtail from individual conductor's. Tape or tie pigtails to the bundle.

g. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

h. Slide backshell forward to connector, and tighten securely.

i. Move the four footed ground ring forward near the rear of the backshell. Untie individual pigtails, and flare back over ground ring so as to evenly disperse pigtails through the (4) quadrants of the ring. Tie or tape pigtails back to bundle, allowing for approx. 1/2 inch of slack, for subsequent step.

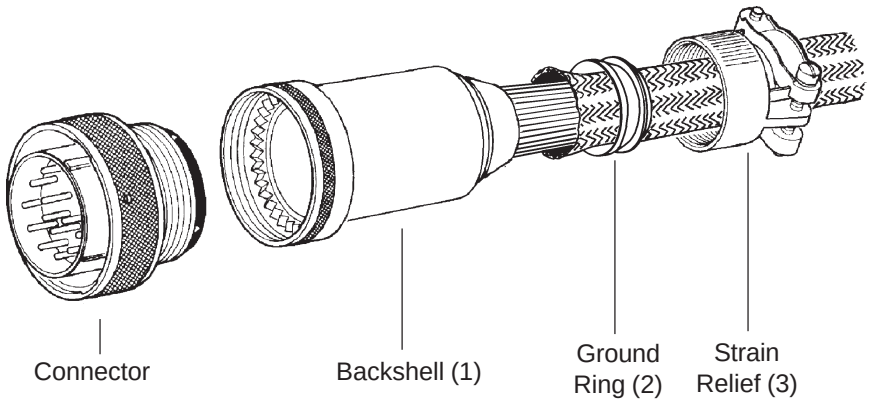
j. Push ground ring forward and into the angled area at the rear of the backshell.

k. Engage strain relief with backshell and tighten securely. Tighten strain relief saddles securely on cable or harness, this will then provide good shielding bonding to the adapter shell. (This same procedure can also be utilized for overall shield.)

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS
TYPE C1 HEAVY-DUTY SHIELD TERMINATIONS



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Non-Environmental Backshells (Type C shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors.

a. Temporarily assemble backshell (1) to connector.

b. Place ground ring (2) and strain relief (3) on cable or harness in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable or harness into backshell (1) and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell (1).

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above.

f. Prepare and terminate individual conductors in accordance with established practices.

g. Assemble backshell (1) to connector and tighten securely.

h. Flare shield over tapered end of backshell (1) and slide ground ring (2) into place over shield. Hold ring in position and trim any exposed shield strands adjacent to rear threads on backshell.

i. Engage strain relief (3) with backshell and tighten securely. Tighten strain relief saddles securely on cable or harness.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS
TYPE C2 LIGHT-DUTY SHIELD TERMINATIONS

The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Non-Environmental Split Backshell Assemblies (Type C shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors.

a. Temporarily assemble backshell (1) to connector.

b. Place adapter (3), ground ring (4) and strain relief (5) on cable or harness in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable or harness into backshell (1) and bottom against connector. Form cable into angled position and mark outer shield at rear end of backshell (1).

d. Remove backshell from connector and place on cable with components in step (b) above.

e. Trim outer shield 1 inch below mark made in step (c) above.

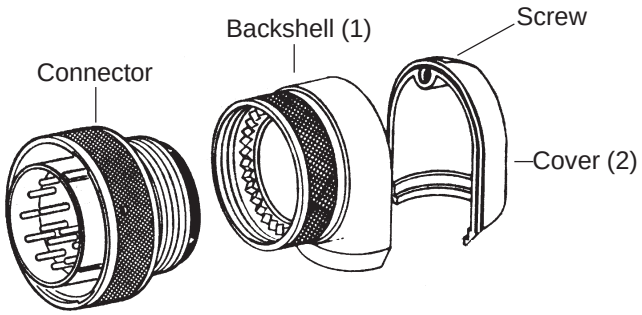
f. Prepare and terminate individual conductors in accordance with established practices.

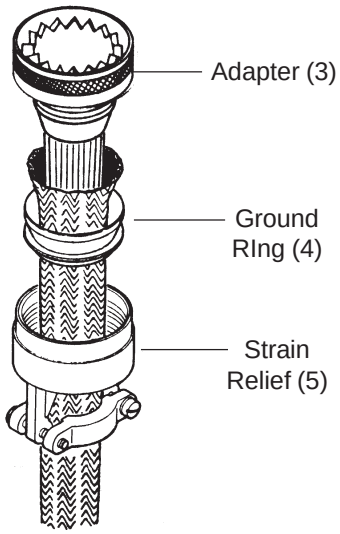
g. Assemble backshell (1) to connector and tighten securely, in desired orientation.

h. Install cover (2) on backshell (1) making sure cover is aligned properly with backshell surface. Tighten captivated screw in cover (2) securely.

i. Install adapter (3) on backshell and tighten securely.

j. Flare shield over tapered end of adapter (3) and slide ground ring (4) into place over shield. Hold ring in position and trim any exposed shield strands adjacent to rear threads on backshell.



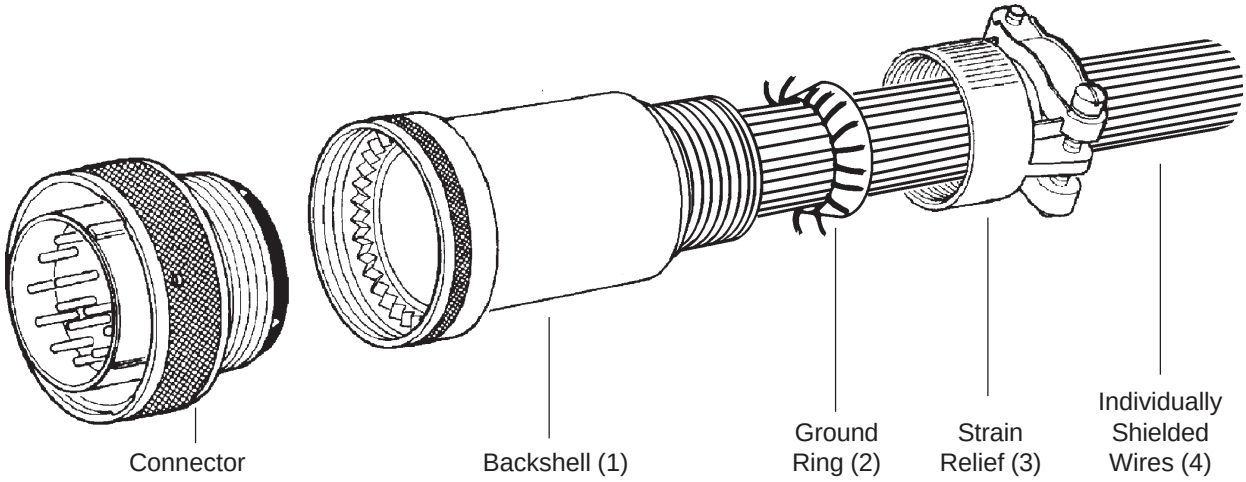


i. Engage strain relief (5) with backshell and tighten securely. Tighten strain relief saddles securely on cable or harness.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS
TYPE D SHIELD TERMINATIONS



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Non-Environmental Backshells (Type D shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors.

a. Temporarily assemble backshell (1) to connector.

b. Place ground ring, adapter, and strain relief on cable or harness in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable or harness into front adapter, and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell adapter.

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above. This procedure is for individually shielded conductors.

f. Extract shield pigtail from individual conductor's. Tape or tie pigtails to the bundle.

g. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

h. Slide adapter forward to connector, and tighten securely.

i. Move the tapered ground ring forward near the rear of the adapter. Untie individual pigtails, and flare back over ground ring as to evenly disperse pigtails around the circumference of the ring. Tie or tape pigtails back to bundle allowing for approx. 1/2 inch of slack, for subsequent step.

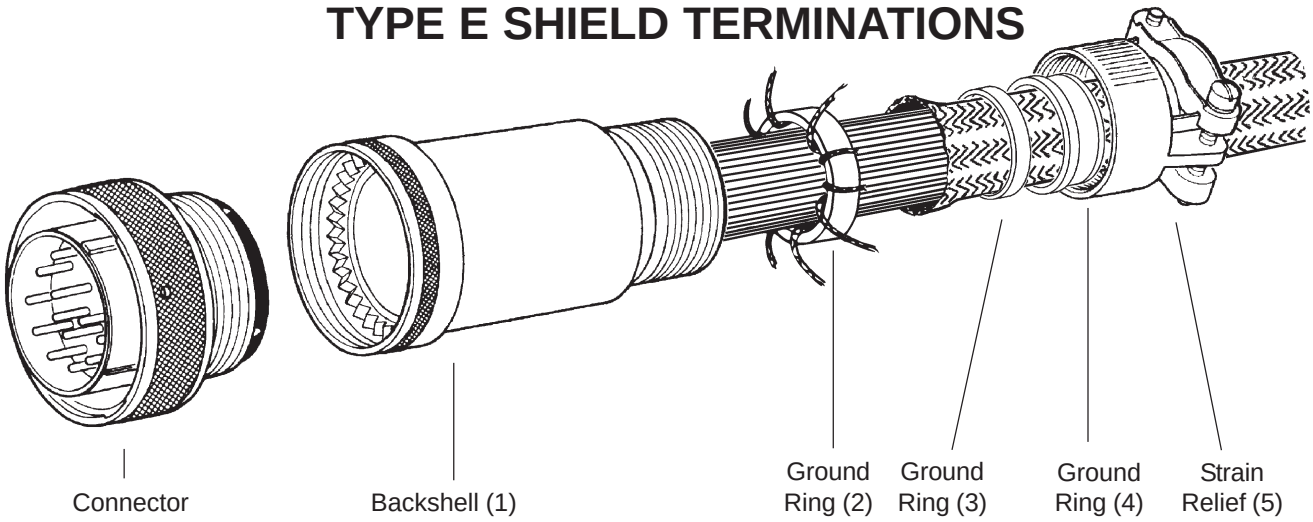
j. Push ground ring forward and into the angled area at the rear of the backshell adapter.

k. Engage strain relief with adapter and tighten securely. Tighten strain relief saddles securely on cable or harness, this will then provide good shielding bonding to the adapter shell. (This same procedure can also be utilized for overall shield.)

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS
TYPE E SHIELD TERMINATIONS



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Non-Environmental Backshells (Type E shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors. This procedure is for the three ring style.

A. Temporarily assemble backshell (1) to connector.

B. Place ground rings (2), (3), (4), and strain relief (5) on cable or harness in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

C. Insert cable or harness into backshell (1) and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell (1).

D. Remove backshell from connector and place on cable with items in step (b) above.

E. Trim outer shield at mark made in step (c) above.

F. Extract shield pigtail from individual conductor's. Tape or tie pigtails to the bundle.

G. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

H. Slide backshell (1) forward to connector, and tighten securely.

I. Remove tape or untie pigtails from bundle. Slide ground ring (2) forward to flared-out pigtails. Fold pigtails back over ground ring (2) tie back to bundle leaving about 1/2" to 1" slack.

J. Bring ground ring (3) forward to overall braid, fold braid back over ring (3), push forward onto ring (2). Slide ground ring (4) onto overall braid and onto ring (3). . . push all three rings forward into the counter bore at the rear of backshell (1).

K. Engage strain relief (5) with backshell and tighten securely. Tighten relief saddles securely on cable or harness. This will then provide a good ground or bonding joint for both the individual and over-all shields. (For the (2) ring style, ground ring (3) is omitted, and above steps I or J is utilized with either overall or individual braid(s).)

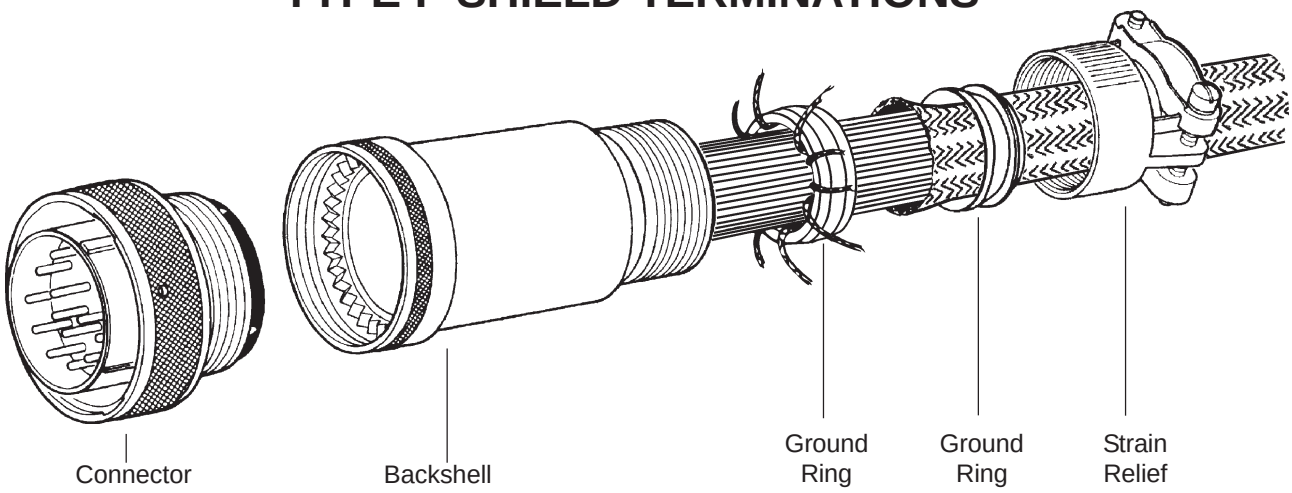
NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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Type F Assembly Instructions
Series 38 EMI/RFI Non-Environmental Backshells
with Strain Relief

ASSEMBLY INSTRUCTIONS
TYPE F SHIELD TERMINATIONS



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Non-Environmental Backshells (Type F shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors.

a. Temporarily assemble backshell to connector.

b. Place ground rings and strain relief on cable or harness in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable or harness into backshell and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell adapter.

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above.

f. Extract shield pigtail from individual conductor's. Tape or tie pigtails to the bundle.

g. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

h. Slide adapter forward to connector, and tighten securely.

i. Move double beveled ground ring forward to pigtail shield area, fold back individual pigtails evenly over the beveled ring, tie or tape pigtails back onto wire bundle. (Note: Leave approximately 1/2" inch of slack for subsequent step.)

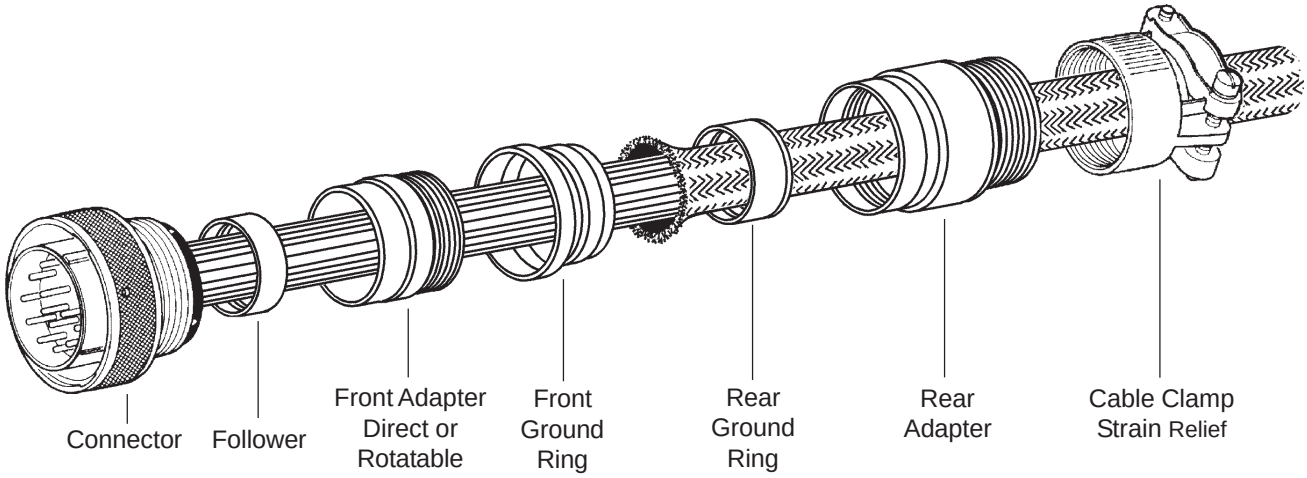
j. Pull back over-all braid and push forward over beveled ring and individual pigtails. Slide rear ground ring forward into the angled counter bore at the rear of the adapter.

k. Engage strain relief with adapter and tighten securely. Tighten strain relief saddles securely on cable or harness, this will then provide good shielding bonding to the adapter shell.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS
TYPE G SHIELD TERMINATIONS



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Non-Environmental Backshells (Type G shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and/or individual conductors.

a. Temporarily assemble backshell to connector.

b. Place ground rings, adapters, and strain relief on cable or harness in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interface with subsequent assembly steps.

c. Insert cable or harness into front adapter, and bottom against connector. Hold cable in position and mark outer shield at rear end of this adapter.

d. Remove adapter from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above.

f. Extract shield pigtail from individual conductor's. Tape or tie pigtails, or overall braid to the bundle.

g. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place).

h. Slide front adapter forward to connector, and tighten securely.

i. Bring front ground ring forward to the front adapter (A) for individual termination untie or remove tape from step (f) and disperse evenly the individual pigtails over the tapered angle of the front ground ring (Note: pigtails may be spot-tied onto groove in ground ring). (B) for overall braid termination, slide braid forward over the tapered end of front ground ring, allow braid to bottom on ground ring shoulder.

j. Slide rear ground ring forward to seat on matching angle of front ground ring.

k. Move rear adapter forward, thread onto front adapter, this step will then provide the shield bonding captured between the two ground rings.

l. Engage strain relief clamp with backshell and tighten securely. Tighten strain relief saddles securely on cable or harness.

NOTE: As with any electrical connector assembly procedure, be sure to use proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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380-001
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type A - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATOR

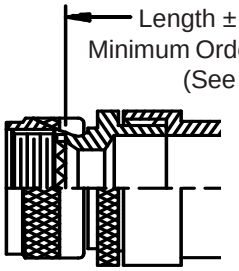
A-F-H-L-S

ROTATABLE COUPLING

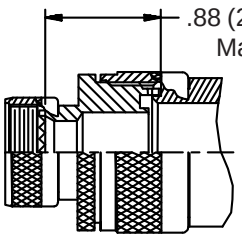
TYPE A OVERALL SHIELD TERMINATION

380 F S 001 M 16 10 M 6

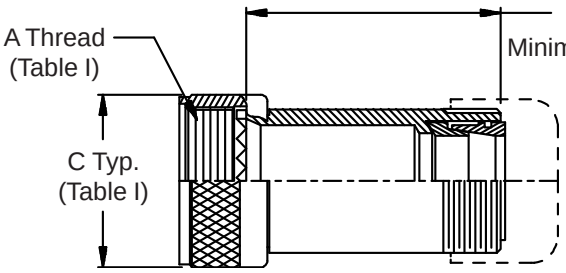
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

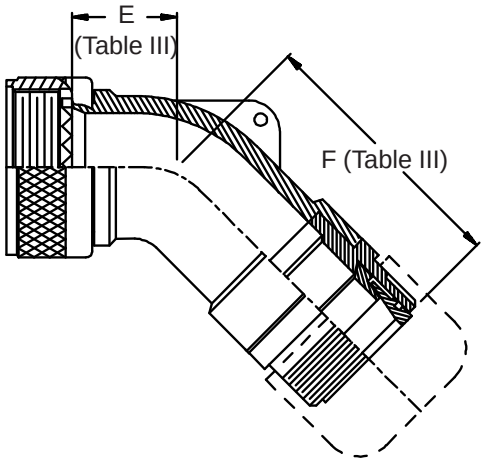


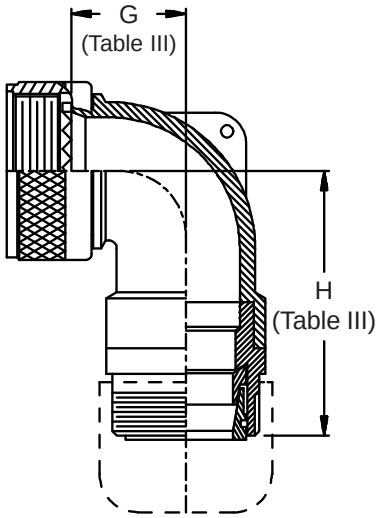
STYLE 2 (STRAIGHT See Note 1)



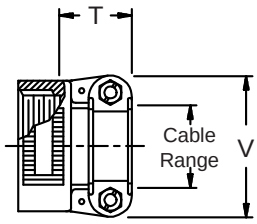
STYLE 2 (45° & 90° See Note 1)



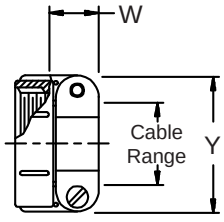




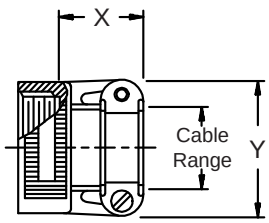
STYLE H
Heavy Duty
(Table X)



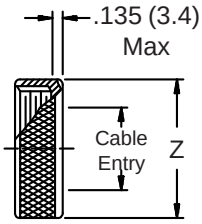
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-001
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type A - Rotatable Coupling - Low Profile

Glenair®

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.602	(40.7)	.500	(12.7)	1.612	(40.9)
10	11	.520	(13.2)	1.662	(42.2)	.595	(15.1)	1.732	(44.0)
12	13	.582	(14.8)	1.722	(43.7)	.610	(15.5)	1.752	(44.5)
14	15	.645	(16.4)	2.062	(52.4)	.700	(17.8)	2.072	(52.6)
16	17	.738	(18.7)	2.172	(55.2)	.885	(22.5)	2.162	(54.9)
18	19	.926	(23.5)	2.362	(60.0)	.975	(24.8)	2.332	(59.2)
20	21	.926	(23.5)	2.362	(60.0)	.975	(24.8)	2.332	(59.2)
22	23	1.020	(25.9)	2.512	(63.8)	1.125	(28.6)	2.442	(62.0)
24	25	1.020	(25.9)	2.512	(63.8)	1.125	(28.6)	2.442	(62.0)
28		1.145	(29.1)	2.562	(65.1)	1.225	(31.1)	2.612	(66.3)
32		1.207	(30.7)	2.662	(67.6)	1.575	(40.0)	2.862	(72.7)
36		1.238	(31.4)	2.752	(69.9)	1.775	(45.1)	2.862	(72.7)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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CAGE Code 06324

Printed in U.S.A.

380-011
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type A - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATOR

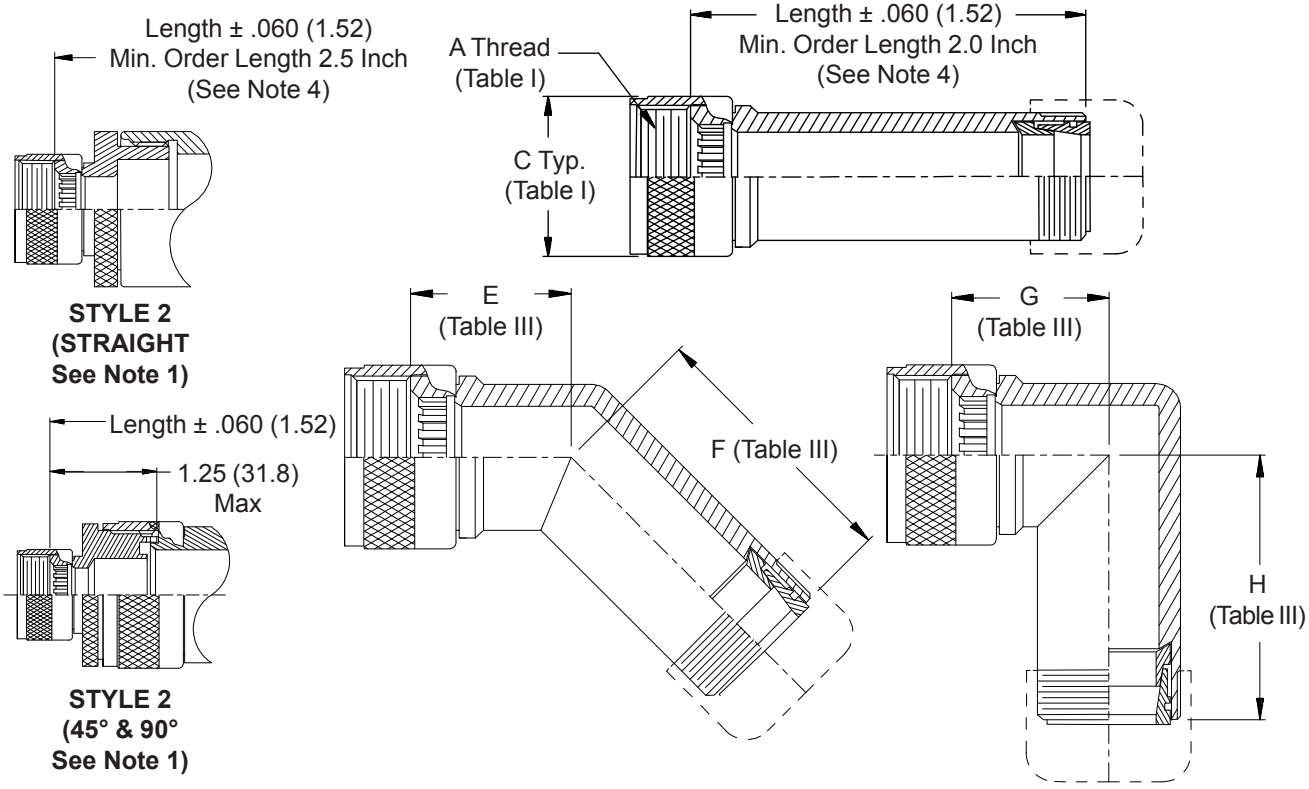
G

ROTATABLE COUPLING

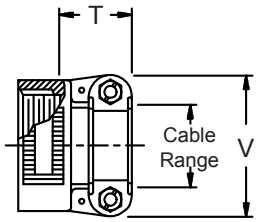
TYPE A OVERALL SHIELD TERMINATION

380 G S 011 M 17 10 H 6

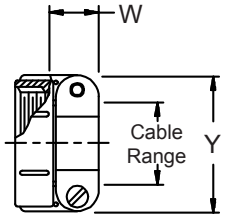
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



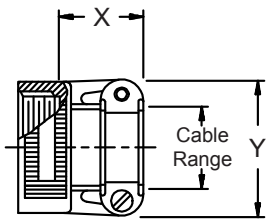
STYLE H
Heavy Duty
(Table X)



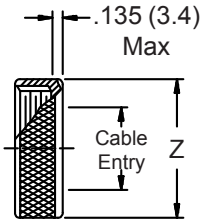
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-011
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type A - Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max		F Max		G Max		H Max	
11	1.240	(31.5)	1.050	(26.7)	1.380	(35.1)	1.190	(30.2)
13	1.260	(32.0)	1.070	(27.2)	1.440	(36.6)	1.250	(31.8)
15	1.290	(32.8)	1.100	(27.9)	1.500	(38.1)	1.320	(33.5)
17	1.310	(33.3)	1.120	(28.4)	1.570	(39.9)	1.380	(35.1)
19	1.340	(34.0)	1.150	(29.2)	1.630	(41.4)	1.460	(37.1)
23	1.380	(35.1)	1.190	(30.2)	1.730	(43.9)	1.540	(39.1)
25	1.410	(35.8)	1.220	(31.0)	1.800	(45.7)	1.610	(40.9)
29	1.580	(40.1)	1.390	(35.3)	2.040	(51.8)	1.850	(47.0)
33	1.620	(41.1)	1.430	(36.3)	2.130	(54.1)	1.940	(49.3)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G & H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-002
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type A - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

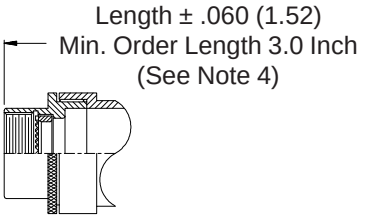
*** Conn. Desig. B See Note 5**

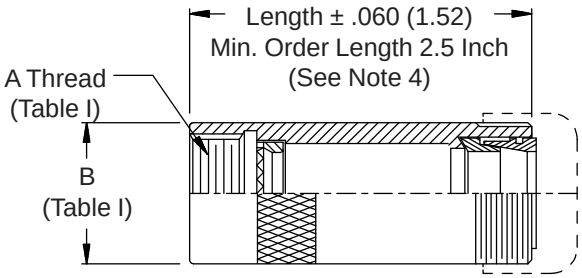
DIRECT COUPLING

380 F S 002 M 16 10 H 6

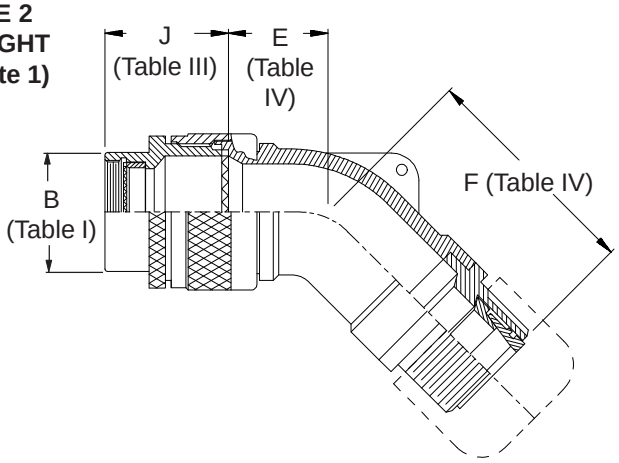
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

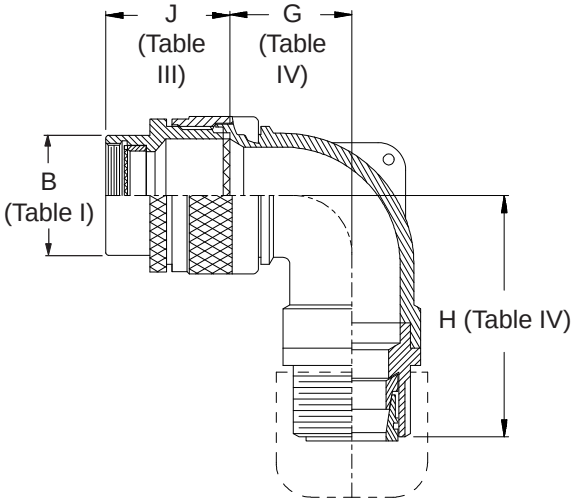
TYPE A OVERALL SHIELD TERMINATION



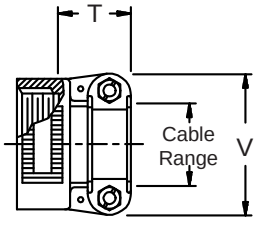


STYLE 2 (STRAIGHT See Note 1)

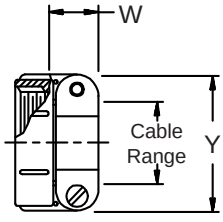




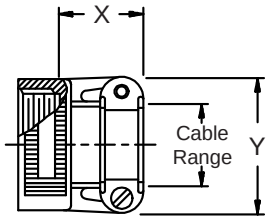
STYLE H
Heavy Duty
(Table X)



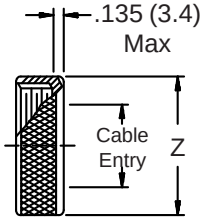
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-002
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type A - Direct Coupling - Low Profile

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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
04	.567 (14.4)	1.187 (30.1)	.636 (16.2)	1.200 (30.5)
06	.630 (16.0)	1.250 (31.8)	.710 (18.0)	1.320 (33.5)
08	.692 (17.6)	1.312 (33.3)	.731 (18.6)	1.340 (34.0)
10	.755 (19.2)	1.655 (42.0)	.825 (21.0)	1.660 (42.2)
12	.848 (21.5)	1.765 (44.8)	.988 (25.1)	1.750 (44.5)
16	1.036 (26.3)	1.952 (49.6)	1.087 (27.6)	1.925 (48.9)
20	1.130 (28.7)	2.098 (53.3)	1.325 (33.7)	2.033 (51.6)
24	1.255 (31.9)	2.155 (54.7)	1.337 (34.0)	2.200 (55.9)
28	1.317 (33.5)	2.250 (57.2)	1.827 (46.4)	2.450 (62.2)
32	1.348 (34.2)	2.343 (59.5)	2.027 (51.5)	2.450 (62.2)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only.)
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Refer to pages 18 and 19 for connector designator B part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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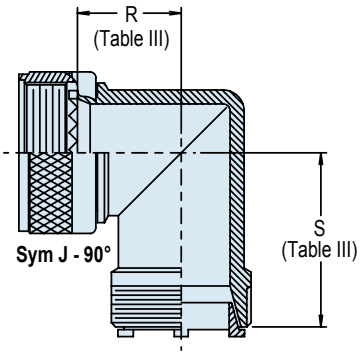
380-115
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type B - Rotatable Coupling - Low Profile

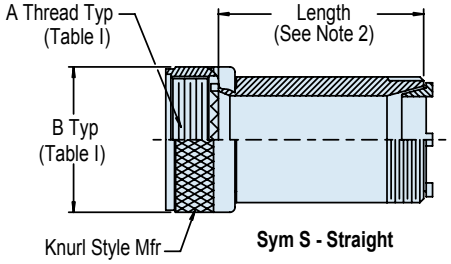
CONNECTOR DESIGNATORS
MIL-DTL-38999 Series I, II (F)
MIL-DTL-38999 Series III and IV (H)

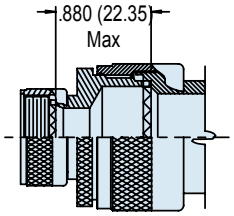
A-F-H-L-S
ROTATABLE COUPLING

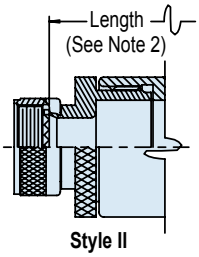
TYPE B INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

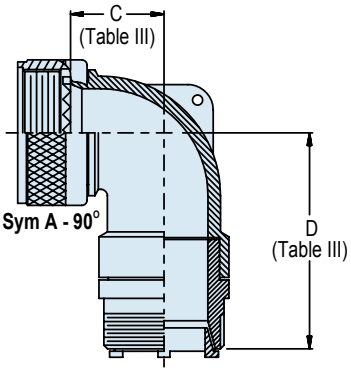
Product Series	Angle and Profile		Strain Relief Style					
	A - 90° B - 45° H - 45° J - 90° S - Straight		*(H, A, M, D)*	Dash No.				
380	H	S	115	NF	15	08	M	6
Connector Designator		Basic Number		Finish	Shell Size		Length: S Only *(1/2 inch increments e.g. 6 = 3 inches)*	

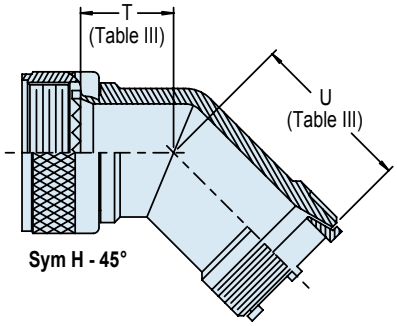


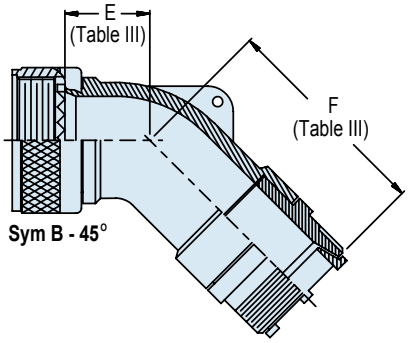




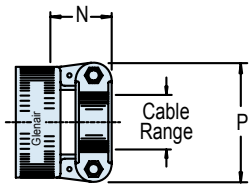




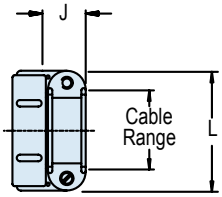




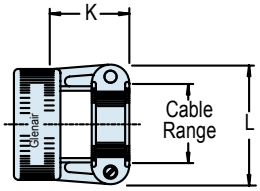
STYLE H
Heavy Duty
(Table VI)



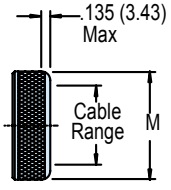
STYLE A
Medium Duty
(Table V)



STYLE M
Medium Duty
(Table V)



STYLE D
Medium Duty
(Table V)



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380-115
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with Strain Relief
Type B - Rotatable Coupling - Low Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size A	Shell Size F,L,S	Shell Size H	C Max	D Max	E Max	F Max	R Max	S Max	T Max	U Max
08	08	09	.500 (12.7)	1.684 (42.8)	457 (11.6)	1.674 (42.5)	.910 (23.11)	1.910 (48.77)	.780 (19.81)	1.780 (45.21)
10	10	11	.595 (15.1)	1.804 (45.8)	.520 (13.2)	1.734 (44.0)	.970 (24.64)	1.970 (50.04)	.810 (20.57)	1.810 (45.97)
12	12	13	.610 (15.5)	1.824 (46.3)	.582 (14.8)	1.794 (45.6)	1.030 (26.16)	2.030 (50.56)	.830 (21.08)	1.830 (46.48)
14	14	15	.700 (17.8)	1.894 (48.1)	.645 (16.4)	1.884 (47.9)	1.090 (27.68)	2.090 (53.09)	.850 (21.59)	1.850 (46.99)
16	16	17	.885 (22.5)	1.984 (50.4)	.738 (18.7)	1.994 (50.6)	1.150 (29.21	2.150 (54.61)	.880 (22.35)	1.880 (47.75)
18	18	19	.975 (24.8)	2.154 (54.7)	.926 (23.5)	2.184 (55.5)	1.200 (30.48)	2.200 (55.88)	.900 (22.86)	1.900 (48.26)
20	20	21	.975 (24.8)	2.154 (54.7)	.926 (23.5)	2.184 (55.5)	1.270 (32.26)	2.270 (57.66)	.930 (23.62)	1.930 (49.02)
22	22	23	1.125 (28.6)	2.264 (57.5)	1.020 (25.9)	2.334 (59.3)	1.330 (33.78)	2.330 (59.18)	.950 (24.13)	1.950 (49.53)
24	24	25	1.125 (28.6)	2.264 (57.5)	1.020 (25.9)	2.334 (59.3)	1.390 (35.31)	2.390 (60.71)	.980 (24.13)	1.980 (50.29)
28			1.225 (31.1)	2.434 (61.8)	1.145 (29.1)	2.384 (60.6)	1.460 (37.08)	2.460 (62.48)	1.150 (29.21)	2.150 (54.61)
32			1.575 (40.0)	2.684 (68.2)	1.207 (30.7)	2.484 (63.1)	1.590 (40.38)	2.590 (65.79)	1.210 (30.73)	2.210 (56.13)
36			1.775 (45.1)	2.684 (68.2)	1.238 (31.4)	2.574 (65.4)	1.690 (42.93)	2.690 (68.33)	1.240 (31.50)	2.240 (56.90)
40			N/A	N/A	N/A	N/A	1.900 (48.26)	2.200 (55.88)	1.250 (31.75)	1.590 (40.38)
44			N/A	N/A	N/A	N/A	2.030 (51.56)	2.360 (59.94)	1.300 (33.02)	1.640 (41.65)
48			N/A	N/A	N/A	N/A	2.180 (53.37)	2.530 (64.26)	1.370 (34.79)	1.720 (43.68)
61			N/A	N/A	N/A	N/A	1.290 (32.76)	1.490 (37.85)	.880 (22.35)	1.100 (27.94)

TABLE IV: CABLE CLAMP CABLE RANGE

Dash No.	N Max	P Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 Shell A-E-F for unabridged Tables I and II.

CABLE V: CABLE CLAMP CABLE RANGE

Dash No.	J Max	K Max	L Max	M Max	Cable Range Min**	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

APPLICATION NOTES

1. Assembly identified with manufacturer's name and part number, space permitting.
2. Standard minimum length for Style I is 1.500 inches, Style II standard length is 2.000 inches.For shorter lengths consult factory. Appklies to Symbol S only.
3. When cable range exceeds Max Entry shown in Table IV, Style II will be supplied. Note: C, D, E, F, R, S, T and U dimensions do not apply to Style II.
4. Metric dimensions are in parentheses.
5. For effective grounding, connector with conductive finish should be used.
6. Glenair Series 600 Backshell Assembly Tools are recommended for assembly and installation.
7. Material/Finish:
   Elbow, adapter, coupling nut, ferrules and clamp - Aluminim alloy or SST/Table II.
   Hardware - CRES/Passivate
8. Angular functions A and B are currently not available in shell sizes 40, 44 and 61. Consult factory for suitable alternatives.

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380-116
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type B - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATOR

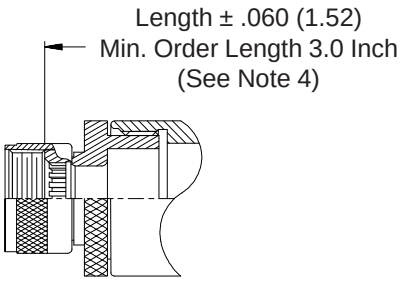
G

ROTATABLE COUPLING

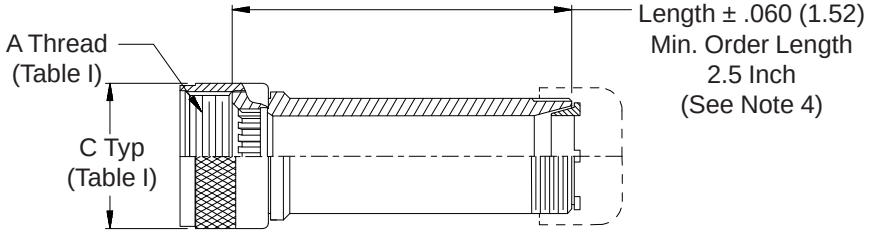
TYPE B INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

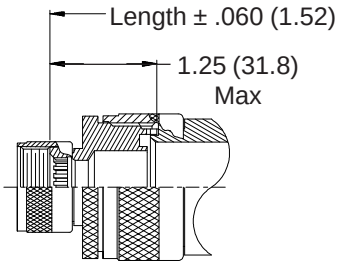
380 G S 116 M 17 10 A 6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

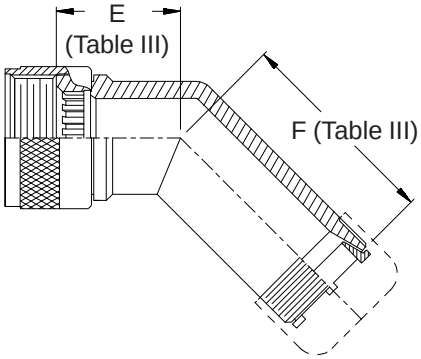


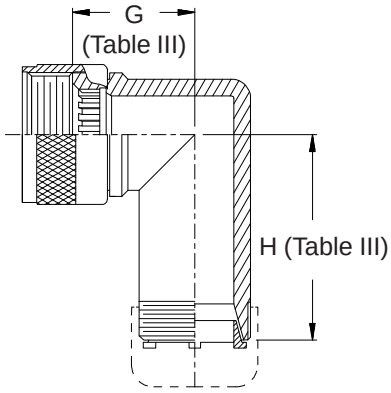
STYLE 2 (STRAIGHT See Note 1)



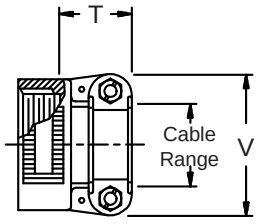


STYLE 2 (45° & 90° See Note 1)

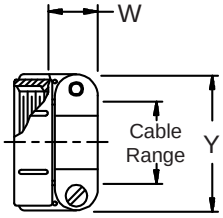




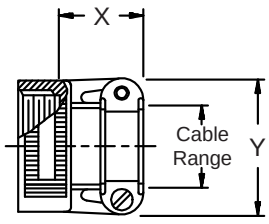
STYLE H
Heavy Duty
(Table X)



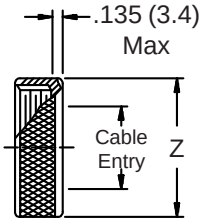
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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EMI/RFI Non-Environmental Backshell
with Strain Relief
Type B - Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max
11	1.240 (31.5)	.980 (24.9)	1.380 (35.1)	1.120 (28.4)
13	1.260 (32.0)	1.000 (25.4)	1.440 (36.6)	1.180 (30.0)
15	1.290 (32.8)	1.030 (26.2)	1.500 (38.1)	1.250 (31.8)
17	1.310 (33.3)	1.050 (26.7)	1.570 (39.9)	1.310 (33.3)
19	1.340 (34.0)	1.080 (27.4)	1.630 (41.4)	1.390 (35.3)
23	1.380 (35.1)	1.120 (28.4)	1.730 (43.9)	1.470 (37.3)
25	1.410 (35.8)	1.150 (29.2)	1.800 (45.7)	1.540 (39.1)
29	1.580 (40.1)	1.320 (33.5)	2.040 (51.8)	1.780 (45.2)
33	1.620 (41.1)	1.360 (34.5)	2.130 (54.1)	1.870 (47.5)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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EMI/RFI Non-Environmental Backshell
with Strain Relief
Type B - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

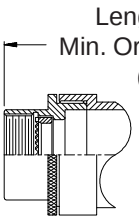
*** Conn. Desig. B See Note 5**

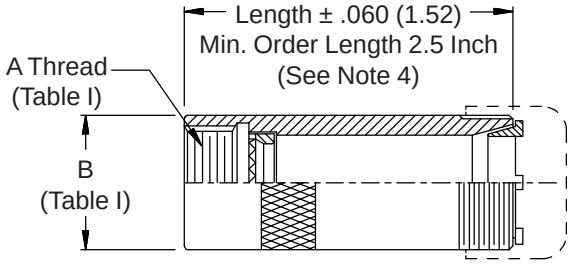
DIRECT COUPLING

TYPE B INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

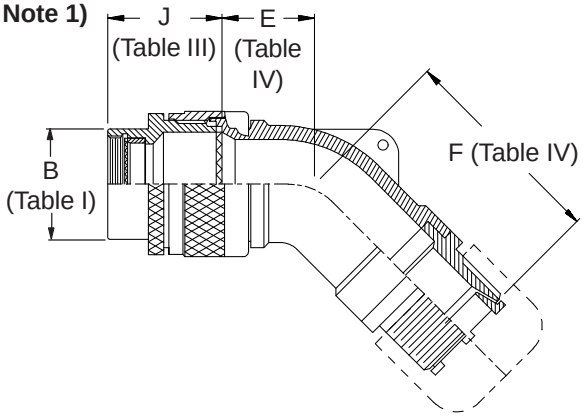
380 F S 117 M 16 10 A 6

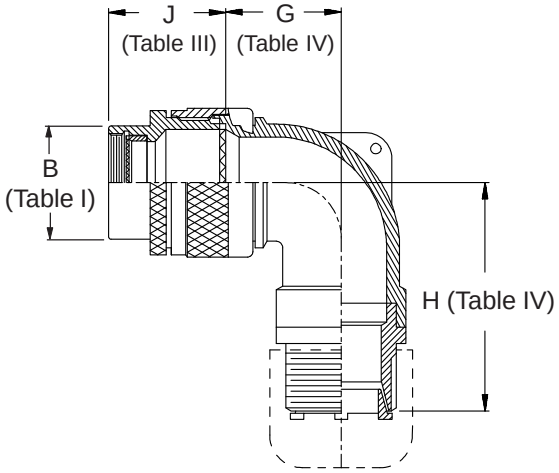
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



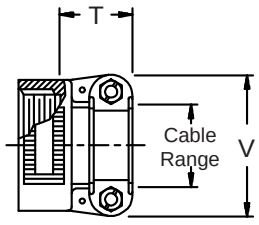


STYLE 2 (STRAIGHT See Note 1)

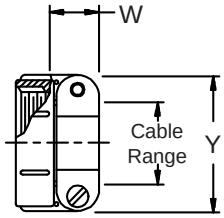




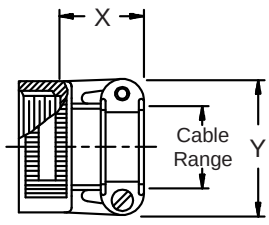
STYLE H
Heavy Duty
(Table X)



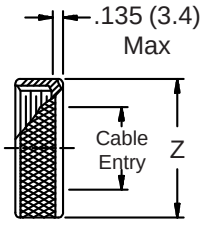
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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with Strain Relief
Type B - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
04	.567 (14.4)	1.674 (42.5)	.636 (16.2)	1.684 (42.8)
06	.630 (16.0)	1.734 (44.0)	.710 (18.0)	1.804 (45.8)
08	.692 (17.6)	1.794 (45.6)	.731 (18.6)	1.824 (46.3)
10	.755 (19.2)	1.884 (47.9)	.825 (21.0)	1.894 (48.1)
12	.848 (21.5)	1.994 (50.6)	.988 (25.1)	1.984 (50.4)
16	1.036 (26.3)	2.184 (55.5)	1.087 (27.6)	2.154 (54.7)
20	1.130 (28.7)	2.334 (59.3)	1.325 (33.7)	2.264 (57.5)
24	1.255 (31.9)	2.384 (60.6)	1.337 (34.0)	2.434 (61.8)
28	1.317 (33.5)	2.484 (63.1)	1.827 (46.4)	2.684 (68.2)
32	1.348 (34.2)	2.574 (65.4)	2.027 (51.5)	2.684 (68.2)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only.)
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

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380-005
EMI/RFI Non-Environmental Backshell
Heavy-Duty with Strain Relief
Type C - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

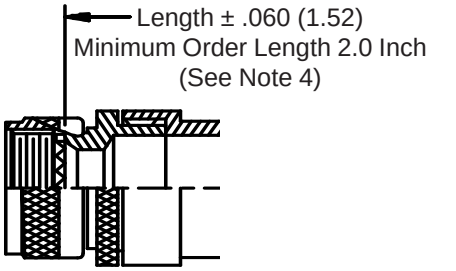
A-F-H-L-S

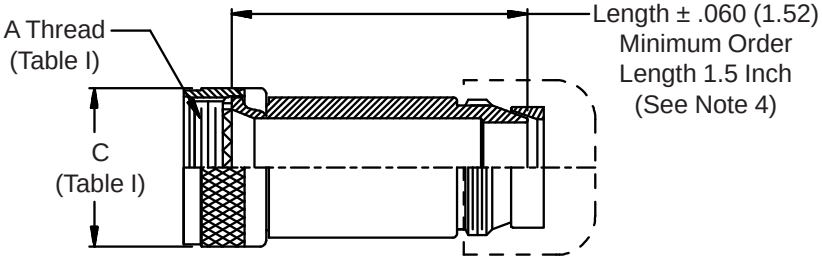
ROTATABLE COUPLING

TYPE C OVERALL SHIELD TERMINATION

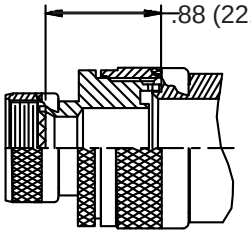
380 F S 005 M 16 10 M 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X)
- Strain Relief Style (M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

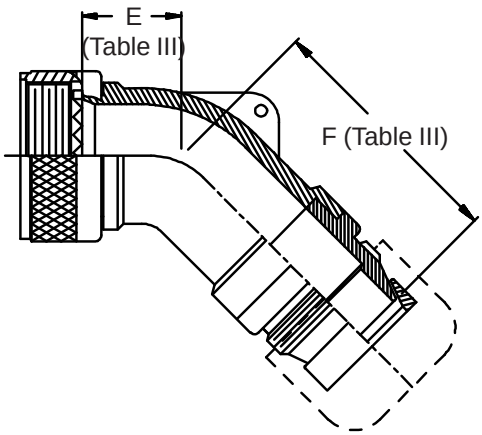


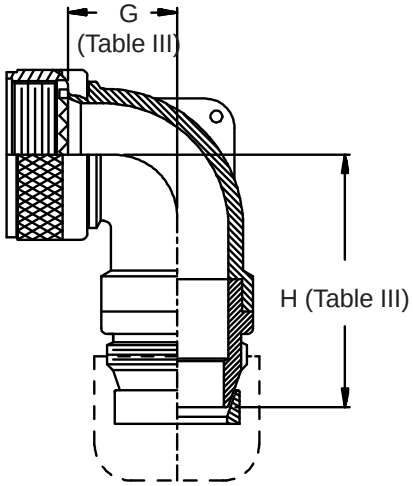


STYLE 2
(STRAIGHT
See Note 1)

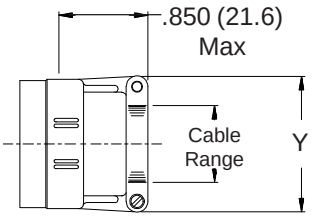


STYLE 2
(45° & 90°
See Note 1)

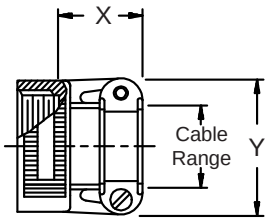




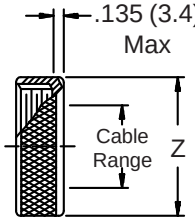
STYLE M
Medium Duty - Dash No. 01-04
(Table X)



STYLE M
Medium Duty - Dash No. 10-28
(Table X)



STYLE D
Medium Duty
(Table X)



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See inside back cover fold-out or pages 13 and 14 for Unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.457 (11.6)	1.848 (46.9)	.500 (12.7)	1.858 (47.2)
10	11	.520 (13.2)	1.908 (48.5)	.595 (15.1)	1.978 (50.2)
12	13	.582 (14.8)	1.968 (50.0)	.610 (15.5)	1.998 (50.7)
14	15	.645 (16.4)	2.347 (59.6)	.700 (17.8)	2.357 (59.9)
16	17	.738 (18.7)	2.457 (62.4)	.885 (22.5)	2.447 (62.2)
18	19	.926 (23.5)	2.647 (67.2)	.975 (24.8)	2.617 (66.5)
20	21	.926 (23.5)	2.647 (67.2)	.975 (24.8)	2.617 (66.5)
22	23	1.020 (25.9)	2.922 (74.2)	1.125 (28.6)	2.852 (72.4)
24	25	1.020 (25.9)	2.922 (74.2)	1.125 (28.6)	2.852 (72.4)
28		1.145 (29.1)	2.972 (75.5)	1.225 (31.1)	3.022 (76.8)
32		1.207 (30.7)	3.072 (78.0)	1.575 (40.0)	3.272 (83.1)
36		1.238 (31.4)	3.162 (80.3)	1.775 (45.1)	3.272 (83.1)

TABLE X: CABLE ENTRY

Dash No.	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
01	.850 (21.6)	.781 (19.8)	.593 (15.1)	.062 (1.6)	.125 (3.2)
02	.850 (21.6)	.968 (24.6)	.718 (18.2)	.125 (3.2)	.250 (6.4)
03	.850 (21.6)	1.046 (26.6)	.843 (21.4)	.250 (6.4)	.375 (9.5)
04	.850 (21.6)	1.156 (29.4)	.968 (24.6)	.375 (9.5)	.500 (12.7)
10	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.875 (22.2)	1.375 (34.9)
28	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.125 (28.6)	1.625 (41.3)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied.
   Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable.
   Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

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380-006
EMI/RFI Non-Environmental Backshell
Heavy-Duty with Strain Relief
Type C - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

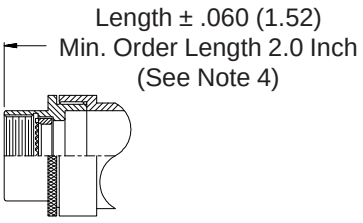
*** Conn. Desig. B See Note 5**

DIRECT COUPLING

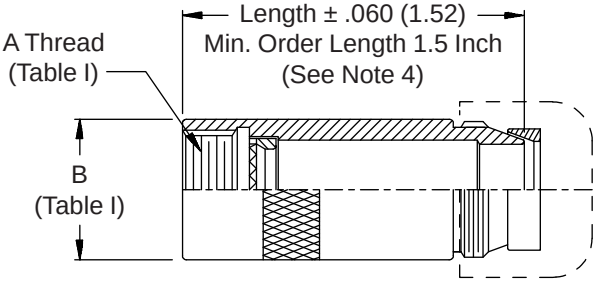
TYPE C OVERALL SHIELD TERMINATION

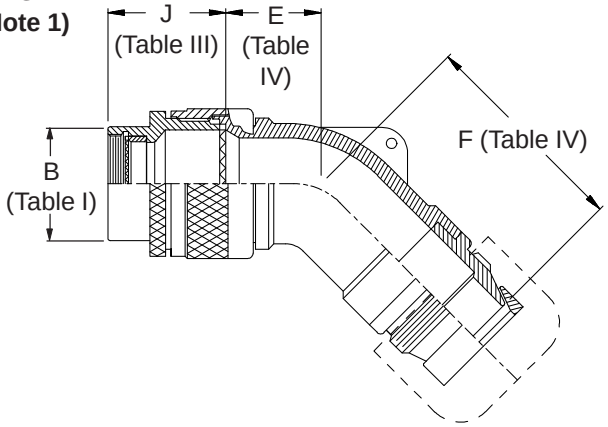
380 F S 006 M 16 10 D 6

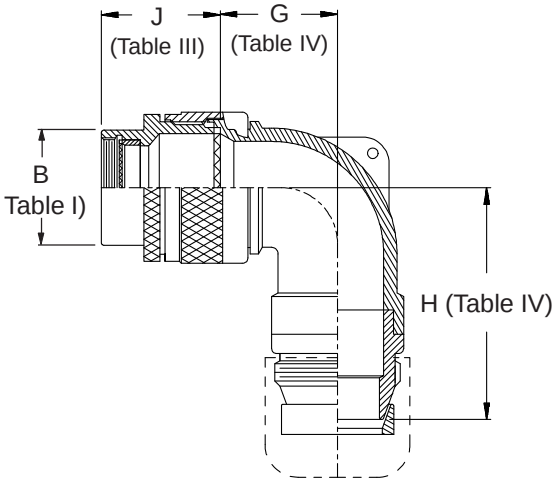
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X)
- Strain Relief Style (M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



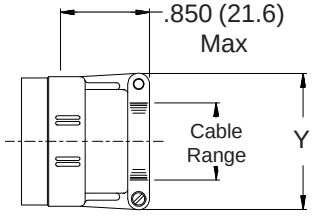
STYLE 2 (STRAIGHT See Note 1)



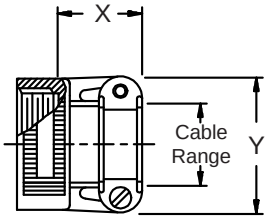




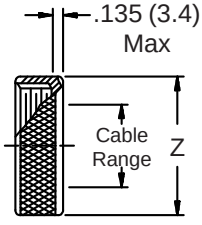
STYLE M
Medium Duty - Dash No. 01-04
(Table X)



STYLE M
Medium Duty - Dash No. 10-28
(Table X)



STYLE D
Medium Duty
(Table X)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only.)
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight back-shells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
01	.567 (14.4)	1.848 (46.9)	.636 (16.2)	1.858 (47.2)
02	.567 (14.4)	1.848 (46.9)	.636 (16.2)	1.858 (47.2)
03	.630 (16.0)	1.908 (48.5)	.710 (18.0)	1.978 (50.2)
04	.692 (17.6)	1.968 (50.0)	.731 (18.6)	1.998 (50.7)
10	.755 (19.2)	2.347 (59.6)	.825 (21.0)	2.357 (59.9)
12	.848 (21.5)	2.457 (62.4)	.988 (25.1)	2.447 (62.2)
16	1.036 (26.3)	2.647 (67.2)	1.087 (27.6)	2.617 (66.5)
20	1.130 (28.7)	2.922 (74.2)	1.325 (33.7)	2.852 (72.4)
24	1.255 (31.9)	2.972 (75.5)	1.337 (34.0)	3.022 (76.8)
28	1.317 (33.5)	3.072 (78.0)	1.827 (46.4)	3.272 (83.1)
32	1.348 (34.2)	3.162 (80.3)	2.027 (51.5)	3.272 (83.1)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
01	.850 (21.6)	.781 (19.8)	.593 (15.1)	.062 (1.6)	.125 (3.2)
02	.850 (21.6)	.968 (24.6)	.718 (18.2)	.125 (3.2)	.250 (6.4)
03	.850 (21.6)	1.046 (26.6)	.843 (21.4)	.250 (6.4)	.375 (9.5)
04	.850 (21.6)	1.156 (29.4)	.968 (24.6)	.375 (9.5)	.500 (12.7)
10	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.875 (22.2)	1.375 (34.9)
28	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.125 (28.6)	1.625 (41.3)

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380-007
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

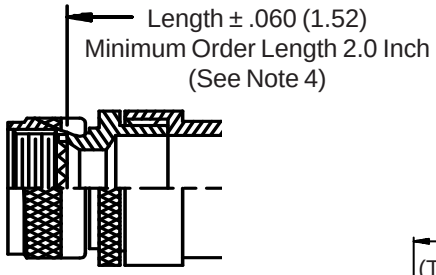
A-F-H-L-S

ROTATABLE COUPLING

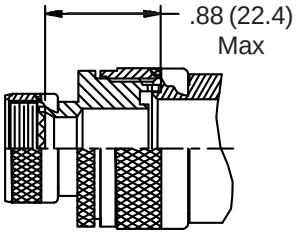
TYPE C OVERALL SHIELD TERMINATION

380 F S 007 M 16 05 L 6

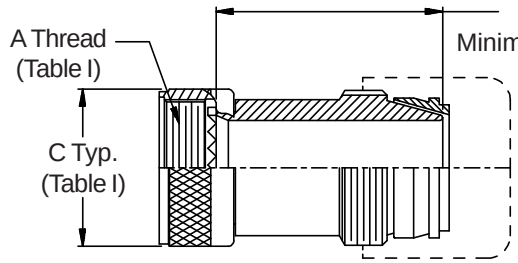
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables IV, V)
- Strain Relief Style (L, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

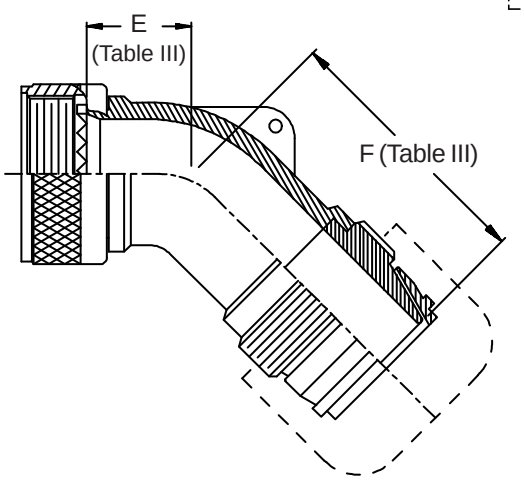


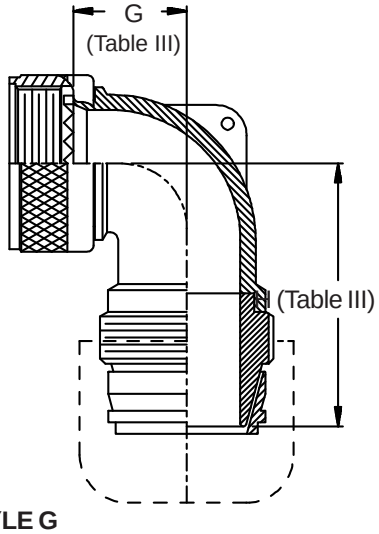
STYLE 2 (STRAIGHT See Note 1)



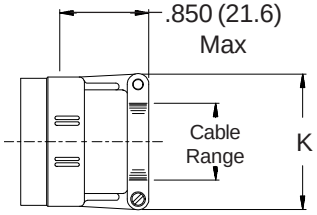
STYLE 2 (45° & 90° See Note 1)



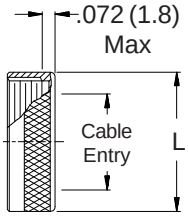




STYLE L
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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380-007
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Rotatable Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.680	(42.7)	.500	(12.7)	1.781	(45.2)
10	11	.520	(13.2)	1.740	(44.2)	.595	(15.1)	1.901	(48.3)
12	13	.582	(14.8)	1.800	(45.7)	.610	(15.5)	1.921	(48.8)
14	15	.645	(16.4)	1.890	(48.0)	.700	(17.8)	1.991	(50.6)
16	17	.738	(18.7)	2.000	(50.8)	.885	(22.5)	2.081	(52.9)
18	19	.926	(23.5)	2.190	(55.6)	.975	(24.8)	2.251	(57.2)
20	21	.926	(23.5)	2.190	(55.6)	.975	(24.8)	2.251	(57.2)
22	23	1.020	(25.9)	2.340	(59.4)	1.125	(28.6)	2.361	(60.0)
24	25	1.020	(25.9)	2.340	(59.4)	1.125	(28.6)	2.361	(60.0)
28		1.145	(29.1)	2.390	(60.7)	1.225	(31.1)	2.531	(64.3)
36		1.207	(30.7)	2.490	(63.2)	1.575	(40.0)	2.781	(70.6)
40		1.238	(31.4)	2.580	(65.5)	1.775	(45.1)	2.781	(70.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	K Max		Cable Range Min		Cable Range Max	
01	.781	(19.8)	.062	(1.6)	.125	(3.2)
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	L Max		Cable Entry Max	
01	.593	(15.1)	.125	(3.2)
02	.718	(18.2)	.250	(6.4)
03	.843	(21.4)	.375	(9.5)
04	.968	(24.6)	.500	(12.7)
05	1.109	(28.2)	.625	(15.9)
06	1.218	(30.9)	.750	(19.1)
07	1.343	(34.1)	.875	(22.2)
08	1.468	(37.3)	1.000	(25.4)
09	1.593	(40.5)	1.125	(28.6)
10	1.718	(43.6)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

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380-007
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Rotatable Coupling - Full Radius Profile

CONNECTOR DESIGNATORS

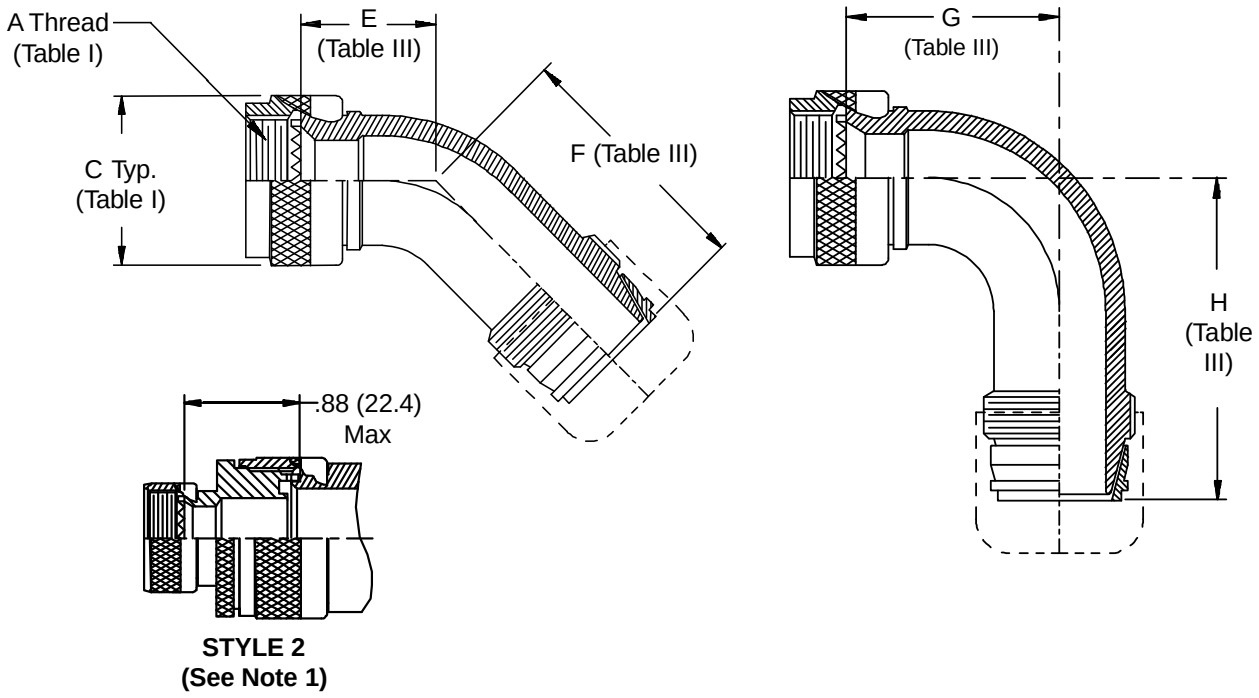
A-F-H-L-S

ROTATABLE COUPLING

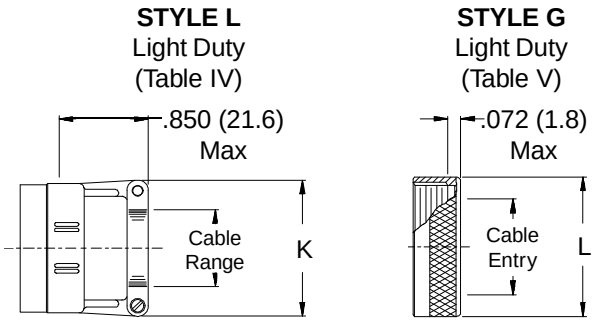
TYPE C OVERALL SHIELD TERMINATION

380 F N 007 M 16 05 L

- 380 — Product Series
- F — Connector Designator
- N — Angle and Profile
  - M = 45°
  - N = 90°
  - See page 38-30 for straight
- 007 — Basic Part No.
- M — Finish (Table II)
- 16 — Shell Size (Table I)
- 05 — Cable Entry (Tables IV, V)
- L — Strain Relief Style (L, G)



STYLE 2
(See Note 1)



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380-007
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Rotatable Coupling - Full Radius Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.807	(20.5)	1.177	(29.9)	1.125	(28.6)	1.495	(38.0)
10	11	.861	(21.9)	1.231	(31.3)	1.250	(31.8)	1.620	(41.1)
12	13	.911	(23.1)	1.281	(32.5)	1.375	(34.9)	1.745	(44.3)
14	15	.965	(24.5)	1.335	(33.9)	1.500	(38.1)	1.870	(47.5)
16	17	1.014	(25.8)	1.384	(35.2)	1.625	(41.3)	1.995	(50.7)
18	19	1.064	(27.0)	1.434	(36.4)	1.750	(44.5)	2.120	(53.8)
20	21	1.118	(28.4)	1.488	(37.8)	1.875	(47.6)	2.245	(57.0)
22	23	1.172	(29.8)	1.542	(39.2)	2.000	(50.8)	2.370	(60.2)
24	25	1.221	(31.0)	1.591	(40.4)	2.125	(54.0)	2.495	(63.4)
28		1.325	(33.7)	1.695	(43.1)	2.375	(60.3)	2.745	(69.7)
32		1.428	(36.3)	1.798	(45.7)	2.625	(66.7)	2.865	(72.8)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	K Max		Cable Range Min		Cable Range Max	
01	.781	(19.8)	.062	(1.6)	.125	(3.2)
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	L Max		Cable Entry Max	
01	.593	(15.1)	.125	(3.2)
02	.718	(18.2)	.250	(6.4)
03	.843	(21.4)	.375	(9.5)
04	.968	(24.6)	.500	(12.7)
05	1.109	(28.2)	.625	(15.9)
06	1.218	(30.9)	.750	(19.1)
07	1.343	(34.1)	.875	(22.2)
08	1.468	(37.3)	1.000	(25.4)
09	1.593	(40.5)	1.125	(28.6)
10	1.718	(43.6)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

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380-007
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

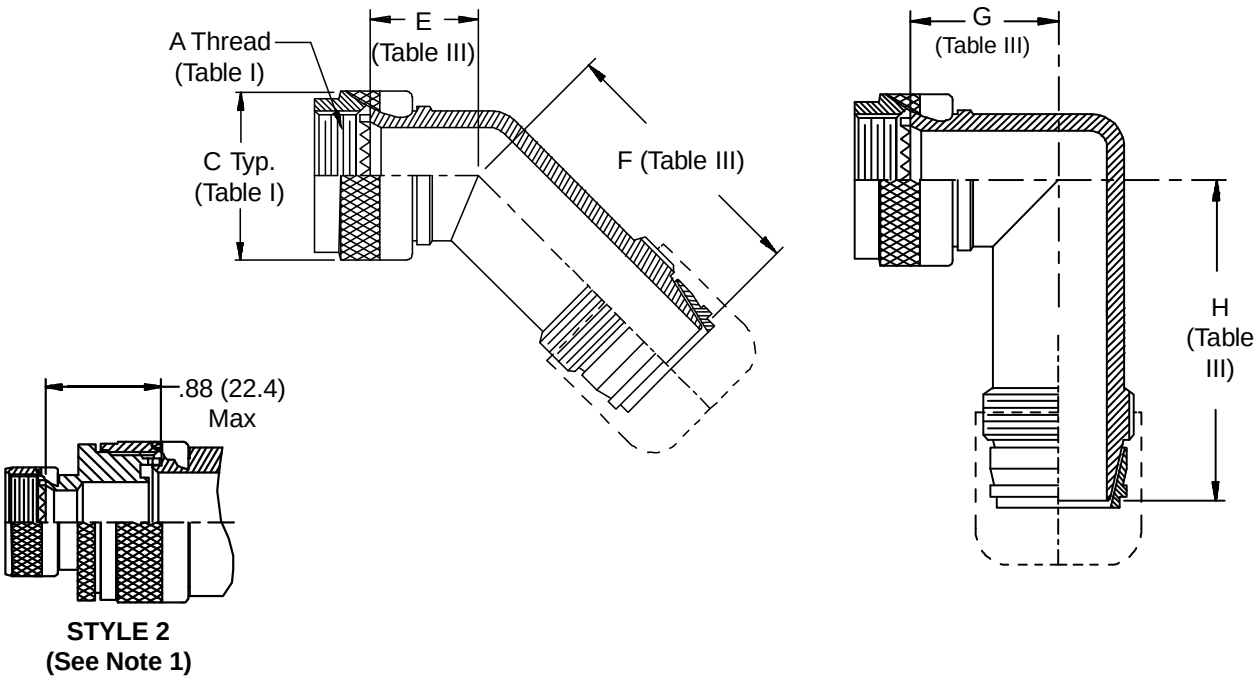
A-F-H-L-S

ROTATABLE COUPLING

TYPE C OVERALL SHIELD TERMINATION

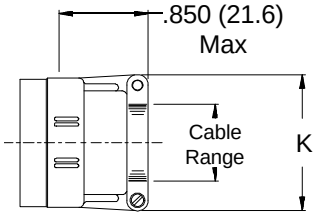
380 F H 007 M 16 05 L

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-30 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables IV, V)
- Strain Relief Style (L, G)

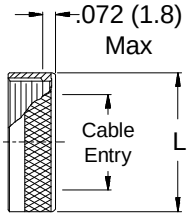


STYLE 2
(See Note 1)

STYLE L
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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380-007
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	1.100	(27.9)	.750	(19.1)	1.210	(30.7)
10	11	.664	(16.9)	1.130	(28.7)	.810	(20.6)	1.270	(32.3)
12	13	.688	(17.5)	1.150	(29.2)	.870	(22.1)	1.330	(33.8)
14	15	.705	(17.9)	1.180	(30.0)	.920	(23.4)	1.400	(35.6)
16	17	.732	(18.6)	1.200	(30.5)	.980	(24.9)	1.460	(37.1)
18	19	.748	(19.0)	1.210	(30.7)	1.020	(25.9)	1.480	(37.6)
20	21	.773	(19.6)	1.230	(31.2)	1.080	(27.4)	1.540	(39.1)
22	23	.800	(20.3)	1.270	(32.3)	1.140	(29.0)	1.620	(41.1)
24	25	.823	(20.9)	1.300	(33.0)	1.200	(30.5)	1.690	(42.9)
28		1.041	(26.4)	1.470	(37.3)	1.480	(37.6)	1.930	(49.0)
36		1.138	(28.9)	1.560	(39.6)	1.720	(43.7)	2.130	(54.1)
40		1.184	(30.1)	1.600	(40.6)	1.830	(46.5)	2.240	(56.9)
61		.917	(23.3)	1.330	(33.8)	1.320	(33.6)	1.690	(42.9)

TABLE: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	K Max		Cable Range Min		Cable Range Max	
01	.781	(19.8)	.062	(1.6)	.125	(3.2)
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	L Max		Cable Entry Max	
01	.593	(15.1)	.125	(3.2)
02	.718	(18.2)	.250	(6.4)
03	.843	(21.4)	.375	(9.5)
04	.968	(24.6)	.500	(12.7)
05	1.109	(28.2)	.625	(15.9)
06	1.218	(30.9)	.750	(19.1)
07	1.343	(34.1)	.875	(22.2)
08	1.468	(37.3)	1.000	(25.4)
09	1.593	(40.5)	1.125	(28.6)
10	1.718	(43.6)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

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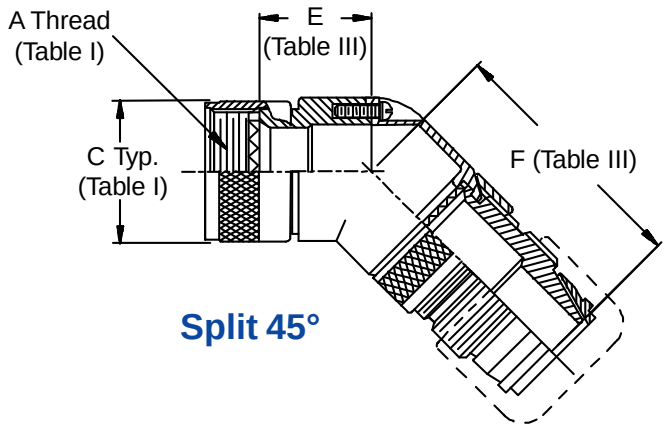
380-007
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

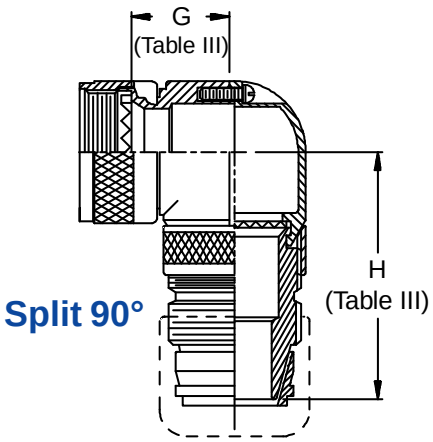
TYPE C OVERALL SHIELD TERMINATION

380 F D 007 M 16 05 L

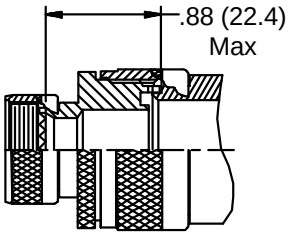
- 380 — Product Series
- F — Connector Designator
- D — Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- 007 — Basic Part No.
- M — Finish (Table II)
- 16 — Shell Size (Table I)
- 05 — Cable Entry (Tables IV, V)
- L — Strain Relief Style (L, G)



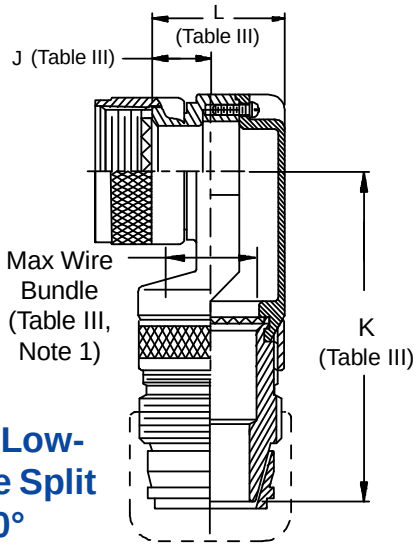
Split 45°



Split 90°

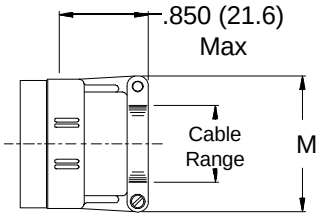


STYLE 2
(See Note 1)

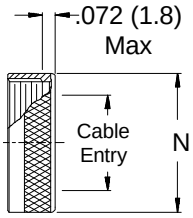


Ultra Low-Profile Split 90°

STYLE L
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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See inside back cover fold-out or pages
13 and 14 for unabridged Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max	J Ref	K Max	L Max	Function C Max Wire Bundle
08/09	.440 (11.2)	1.782 (45.3)	.680 (17.3)	1.722 (43.7)	.340 (8.6)	2.062 (52.4)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	1.845 (46.9)	.750 (19.1)	1.785 (45.3)	.270 (6.9)	2.225 (56.5)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	1.908 (48.5)	.810 (20.6)	1.848 (46.9)	.270 (6.9)	2.218 (56.3)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	1.935 (49.1)	.870 (22.1)	1.875 (47.6)	.280 (7.1)	2.285 (58.0)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	2.040 (51.8)	.930 (23.6)	1.980 (50.3)	.420 (10.7)	2.340 (59.4)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	2.095 (53.2)	1.000 (25.4)	2.035 (51.7)	.640 (16.3)	2.365 (60.1)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	2.160 (54.9)	1.060 (26.9)	2.100 (53.3)	.640 (16.3)	2.370 (60.2)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	2.220 (56.4)	1.120 (28.4)	2.160 (54.9)	.540 (13.7)	2.520 (64.0)	1.181 (30.0)	.750 (19.1)
24/25	.940 (23.9)	2.280 (57.9)	1.180 (30.0)	2.220 (56.4)	.540 (13.7)	2.360 (59.9)	1.181 (30.0)	.750 (19.1)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover
for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	M Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	N Max	Cable Entry Max
01	.593 (15.1)	.125 (3.2)
02	.718 (18.2)	.250 (6.4)
03	.843 (21.4)	.375 (9.5)
04	.968 (24.6)	.500 (12.7)
05	1.109 (28.2)	.625 (15.9)
06	1.218 (30.9)	.750 (19.1)
07	1.343 (34.1)	.875 (22.2)
08	1.468 (37.3)	1.000 (25.4)
09	1.593 (40.5)	1.125 (28.6)
10	1.718 (43.6)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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380-008
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

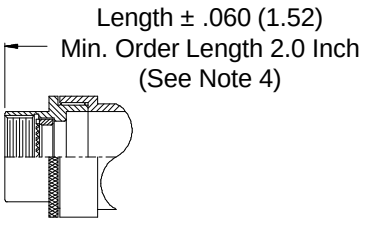
*** Conn. Desig. B See Note 5**

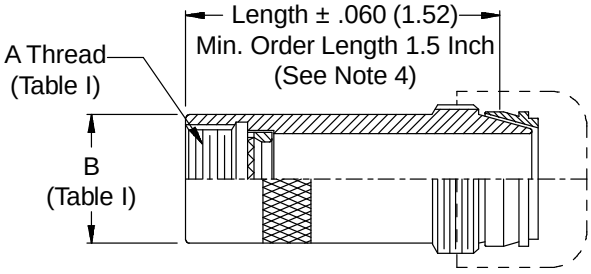
DIRECT COUPLING

380 F S 008 M 16 05 L 6

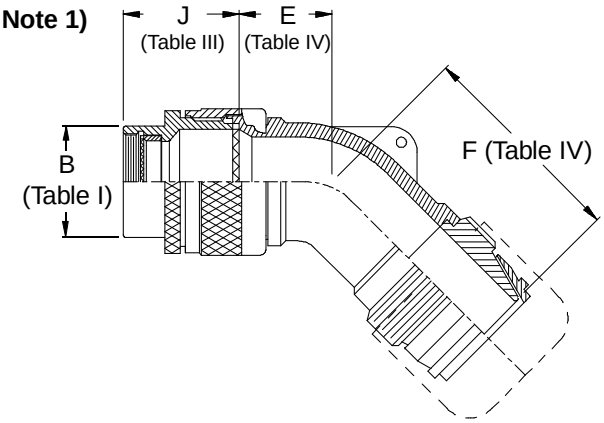
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)
- Strain Relief Style (L, G)
- Cable Entry (Tables V, VI)
- Shell Size (Table I)
- Finish (Table II)

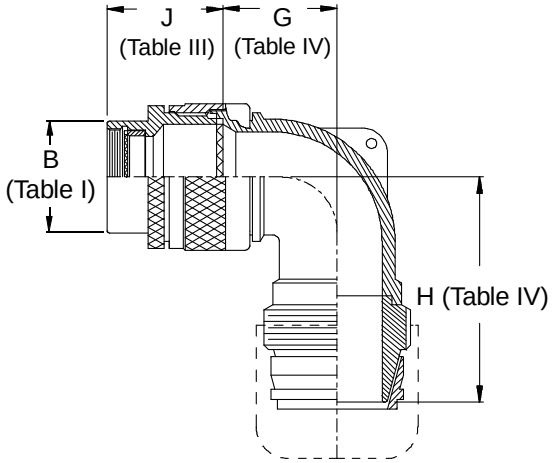
TYPE C OVERALL SHIELD TERMINATION



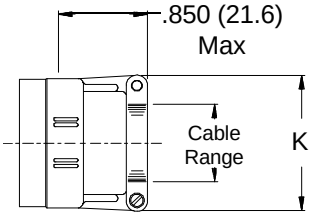


STYLE 2 (STRAIGHT See Note 1)

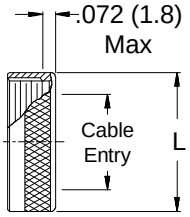




STYLE L
Light Duty
(Table V)



STYLE G
Light Duty
(Table VI)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for un-abridged Tables I and II.

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
01	.457 (11.6)	1.680 (42.7)	.636 (16.2)	1.781 (45.2)
02	.457 (11.6)	1.680 (42.7)	.636 (16.2)	1.781 (45.2)
03	.520 (13.2)	1.740 (44.2)	.709 (18.0)	1.901 (48.3)
04	.582 (14.8)	1.800 (45.7)	.734 (18.6)	1.921 (48.8)
05	.738 (18.7)	2.000 (50.8)	.825 (21.0)	1.991 (50.6)
06	.926 (23.5)	2.190 (55.6)	.990 (25.1)	2.081 (52.9)
07	.926 (23.5)	2.190 (55.6)	1.090 (27.7)	2.251 (57.2)
08	1.020 (25.9)	2.340 (59.4)	1.325 (33.7)	2.361 (60.0)
09	1.020 (25.9)	2.340 (59.4)	1.325 (33.7)	2.361 (60.0)
10	1.145 (29.1)	2.390 (60.7)	1.325 (33.7)	2.361 (60.0)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

TABLE VI: CABLE ENTRY

Dash No.	L Max	Cable Entry Max
01	.593 (15.1)	.125 (3.2)
02	.718 (18.2)	.250 (6.4)
03	.843 (21.4)	.375 (9.5)
04	.968 (24.6)	.500 (12.7)
05	1.109 (28.2)	.625 (15.9)
06	1.218 (30.9)	.750 (19.1)
07	1.343 (34.1)	.875 (22.2)
08	1.468 (37.3)	1.000 (25.4)
09	1.593 (40.5)	1.125 (28.6)
10	1.718 (43.6)	1.250 (31.8)

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380-008
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

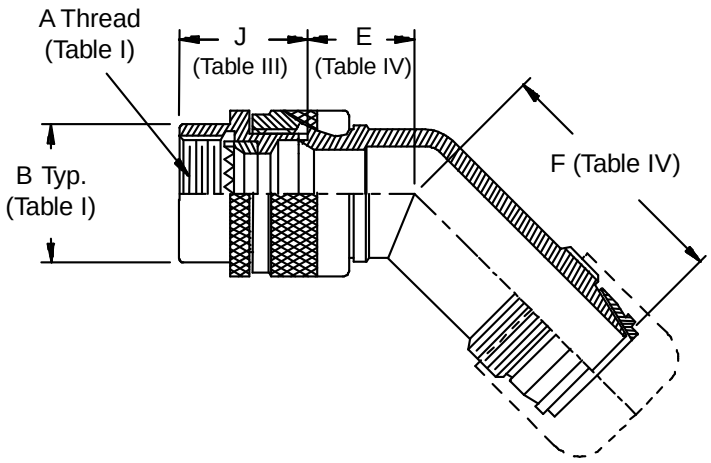
*** Conn. Desig. B See Note 3**

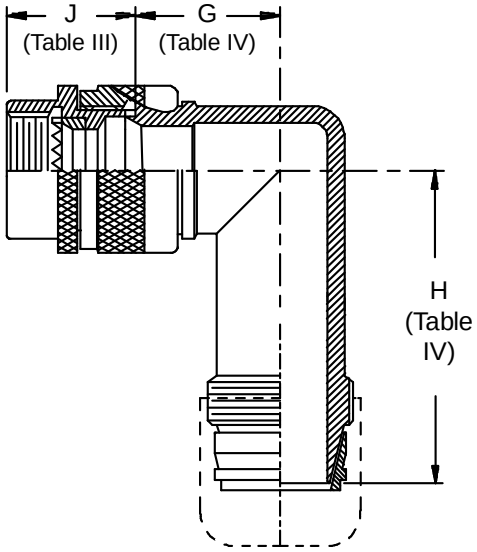
DIRECT COUPLING

380 F H 008 M 16 05 L

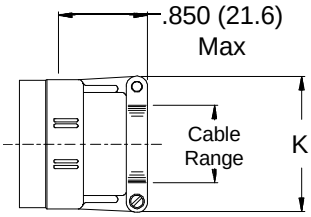
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-38 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables V, VI)
- Strain Relief Style (L, G)

TYPE C OVERALL SHIELD TERMINATION

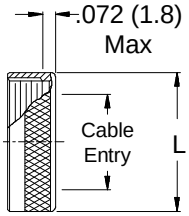




STYLE L
Light Duty
(Table V)



STYLE G
Light Duty
(Table VI)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
01	.639 (16.2)	1.100 (27.9)	.750 (19.1)	1.210 (30.7)
02	.639 (16.2)	1.100 (27.9)	.750 (19.1)	1.210 (30.7)
03	.664 (16.9)	1.130 (28.7)	.810 (20.6)	1.270 (32.3)
04	.688 (17.5)	1.150 (29.2)	.870 (22.1)	1.330 (33.8)
05	.705 (17.9)	1.180 (30.0)	.920 (23.4)	1.400 (35.6)
06	.732 (18.6)	1.200 (30.5)	.980 (24.9)	1.460 (37.1)
07	.748 (19.0)	1.210 (30.7)	1.020 (25.9)	1.480 (37.6)
08	.800 (20.3)	1.270 (32.3)	1.140 (29.0)	1.620 (41.1)
09	.823 (20.9)	1.300 (33.0)	1.200 (30.5)	1.690 (42.9)
10	1.041 (26.4)	1.470 (37.3)	1.480 (37.6)	1.930 (49.0)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

TABLE VI: CABLE ENTRY

Dash No.	L Max	Cable Entry Max
01	.593 (15.1)	.125 (3.2)
02	.718 (18.2)	.250 (6.4)
03	.843 (21.4)	.375 (9.5)
04	.968 (24.6)	.500 (12.7)
05	1.109 (28.2)	.625 (15.9)
06	1.218 (30.9)	.750 (19.1)
07	1.343 (34.1)	.875 (22.2)
08	1.468 (37.3)	1.000 (25.4)
09	1.593 (40.5)	1.125 (28.6)
10	1.718 (43.6)	1.250 (31.8)

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380-008
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Direct Coupling - Split Shell

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

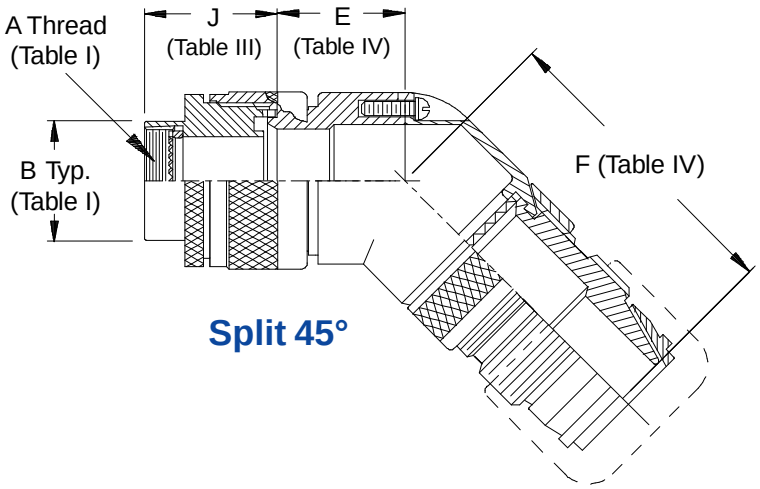
*** Conn. Desig. B See Note 3**

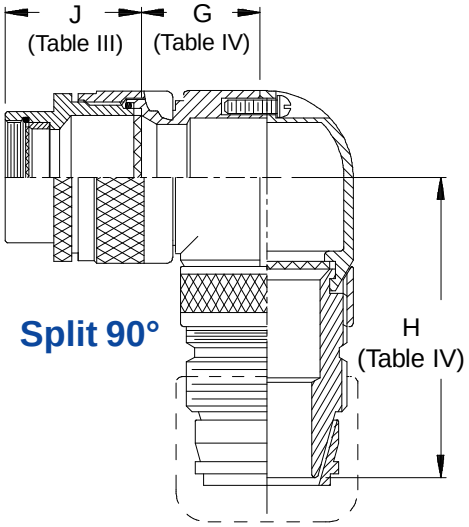
DIRECT COUPLING

380 F D 008 M 16 05 L

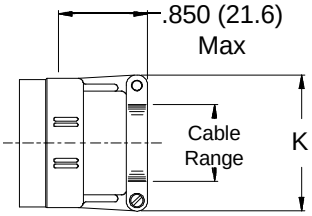
- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables V, VI)
- Strain Relief Style (L, G)

TYPE C OVERALL SHIELD TERMINATION

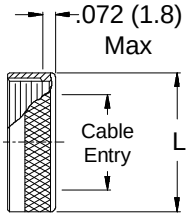




STYLE L
Light Duty
(Table V)



STYLE G
Light Duty
(Table VI)



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380-008
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Direct Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
01	.440 (11.2)	1.782 (45.3)	.680 (17.3)	1.722 (43.7)
02	.440 (11.2)	1.782 (45.3)	.680 (17.3)	1.722 (43.7)
03	.500 (12.7)	1.845 (46.9)	.750 (19.1)	1.785 (45.3)
04	.560 (14.2)	1.908 (48.5)	.810 (20.6)	1.848 (46.9)
05	.680 (17.3)	2.040 (51.8)	.870 (22.1)	1.980 (50.3)
06	.750 (19.1)	2.095 (53.2)	.930 (23.6)	2.035 (51.7)
07	.820 (20.8)	2.160 (54.9)	1.000 (25.4)	2.100 (53.3)
08	.880 (22.4)	2.220 (56.4)	1.060 (26.9)	2.160 (54.9)
09	.940 (23.9)	2.280 (57.9)	1.120 (28.4)	2.220 (56.4)
10	1.000 (25.4)	2.435 (61.8)	1.180 (30.0)	2.375 (60.3)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

TABLE VI: CABLE ENTRY

Dash No.	L Max	Cable Entry Max
01	.593 (15.1)	.125 (3.2)
02	.718 (18.2)	.250 (6.4)
03	.843 (21.4)	.375 (9.5)
04	.968 (24.6)	.500 (12.7)
05	1.109 (28.2)	.625 (15.9)
06	1.218 (30.9)	.750 (19.1)
07	1.343 (34.1)	.875 (22.2)
08	1.468 (37.3)	1.000 (25.4)
09	1.593 (40.5)	1.125 (28.6)
10	1.718 (43.6)	1.250 (31.8)

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380-106
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Self-Locking - Rotatable Coupling - Full Radius

CONNECTOR DESIGNATORS

A-F-H-L-S

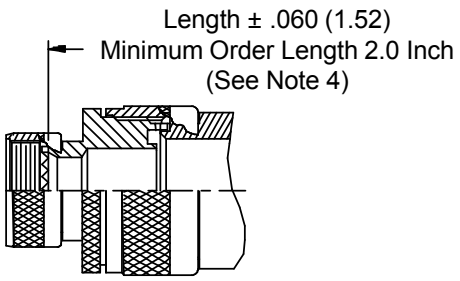
SELF-LOCKING

ROTATABLE COUPLING

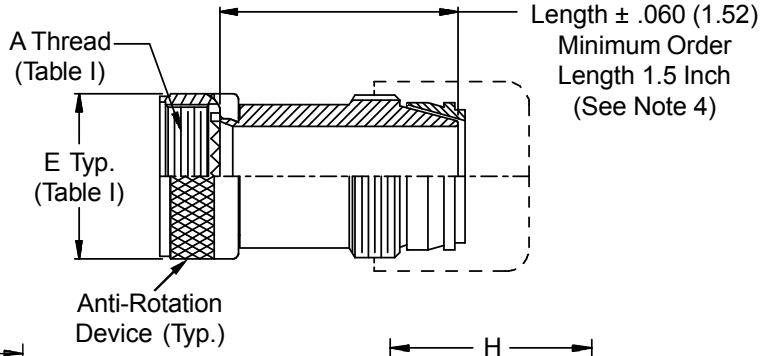
TYPE C OVERALL SHIELD TERMINATION

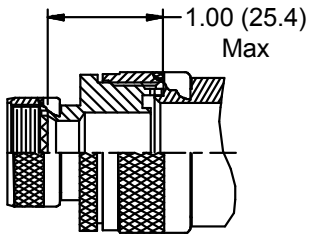
380 F S 106 M 16 05 L 6

- Product Series
- Connector Designator
- Angular Function
  - M = 45∞
  - N = 90∞
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables IV, V)
- Strain Relief Style (L, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

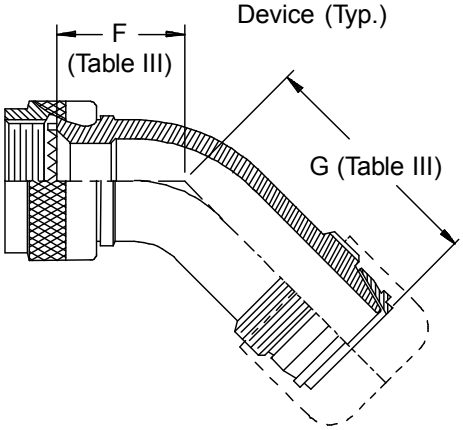


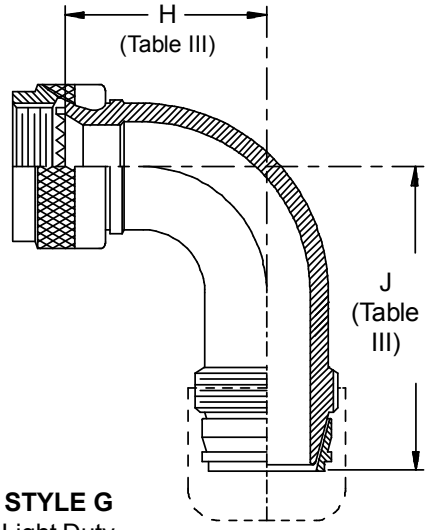
STYLE 2 (STRAIGHT See Note 1)



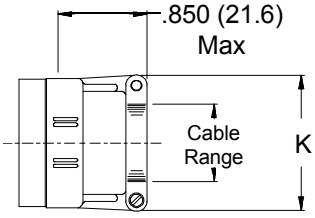


STYLE 2 (45° & 90° See Note 1)

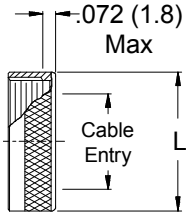




STYLE L
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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380-106
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Self-Locking - Rotatable Coupling - Full Radius

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
08	09	.963 (24.5)	1.177 (29.9)	1.281 (32.5)	1.495 (38.0)
10	11	1.017 (25.8)	1.231 (31.3)	1.406 (35.7)	1.620 (41.1)
12	13	1.067 (27.1)	1.281 (32.5)	1.531 (38.9)	1.745 (44.3)
14	15	1.121 (28.5)	1.335 (33.9)	1.656 (42.1)	1.870 (47.5)
16	17	1.170 (29.7)	1.384 (35.2)	1.781 (45.2)	1.995 (50.7)
18	19	1.220 (31.0)	1.434 (36.4)	1.906 (48.4)	2.120 (53.8)
20	21	1.274 (32.4)	1.488 (37.8)	2.031 (51.6)	2.245 (57.0)
22	23	1.328 (33.7)	1.542 (39.2)	2.156 (54.8)	2.370 (60.2)
24	25	1.377 (35.0)	1.591 (40.4)	2.281 (57.9)	2.495 (63.4)
28		1.481 (37.6)	1.695 (43.1)	2.531 (64.3)	2.745 (69.7)
32		1.584 (40.2)	1.798 (45.7)	2.625 (70.6)	2.865 (72.8)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE RANGE

Dash No.	K Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

TABLE V: CABLE RANGE

Dash No.	L Max	Cable Entry Max
01	.593 (15.1)	.125 (3.2)
02	.718 (18.2)	.250 (6.4)
03	.843 (21.4)	.375 (9.5)
04	.968 (24.6)	.500 (12.7)
05	1.109 (28.2)	.625 (15.9)
06	1.218 (30.9)	.750 (19.1)
07	1.343 (34.1)	.875 (22.2)
08	1.468 (37.3)	1.000 (25.4)
09	1.593 (40.5)	1.125 (28.6)
10	1.718 (43.6)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

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380-106
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Self-Locking - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-F-H-L-S

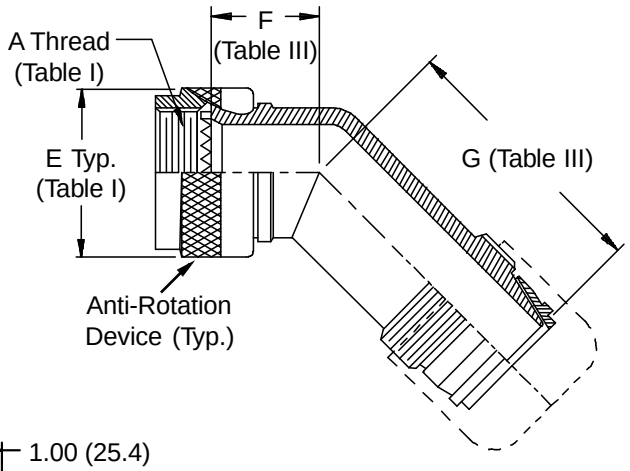
SELF-LOCKING

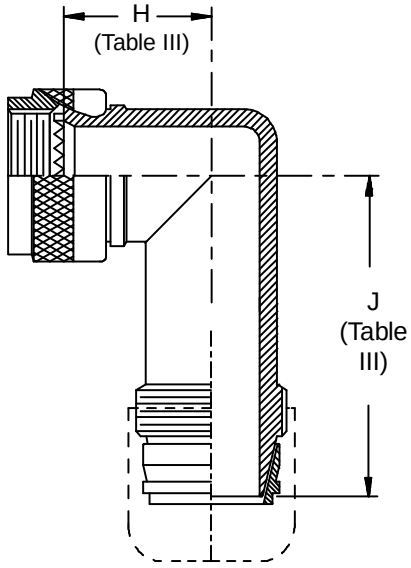
ROTATABLE COUPLING

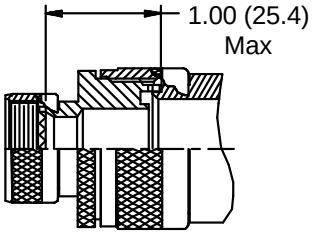
TYPE C OVERALL SHIELD TERMINATION

380 F H 106 M 16 05 L

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-44 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables IV, V)
- Strain Relief Style (L, G)

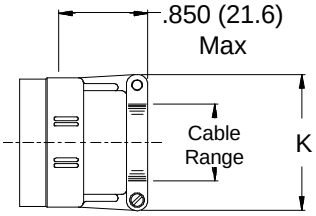




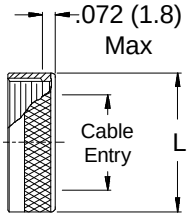


STYLE 2
(See Note 1)

STYLE L
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	1.100	(27.9)	.906	(23.0)	1.210	(30.7)
10	11	.820	(20.8)	1.130	(28.7)	.966	(24.5)	1.270	(32.3)
12	13	.844	(21.4)	1.150	(29.2)	1.026	(26.1)	1.330	(33.8)
14	15	.861	(21.9)	1.180	(30.0)	1.076	(27.3)	1.400	(35.6)
16	17	.888	(22.6)	1.200	(30.5)	1.136	(28.9)	1.460	(37.1)
18	19	.904	(23.0)	1.210	(30.7)	1.176	(29.9)	1.480	(37.6)
20	21	.929	(23.6)	1.230	(31.2)	1.236	(31.4)	1.540	(39.1)
22	23	.956	(24.3)	1.270	(32.3)	1.296	(32.9)	1.620	(41.1)
24	25	.979	(24.9)	1.300	(33.0)	1.356	(34.4)	1.690	(42.9)
28		1.197	(30.4)	1.470	(37.3)	1.636	(41.6)	1.930	(49.0)
36		1.294	(32.9)	1.560	(39.6)	1.876	(47.7)	2.130	(54.1)
40		1.340	(34.0)	1.600	(40.6)	1.986	(50.4)	2.240	(56.9)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	K Max		Cable Range Min		Cable Range Max	
01	.781	(19.8)	.062	(1.6)	.125	(3.2)
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	L Max		Cable Entry Max	
01	.593	(15.1)	.125	(3.2)
02	.718	(18.2)	.250	(6.4)
03	.843	(21.4)	.375	(9.5)
04	.968	(24.6)	.500	(12.7)
05	1.109	(28.2)	.625	(15.9)
06	1.218	(30.9)	.750	(19.1)
07	1.343	(34.1)	.875	(22.2)
08	1.468	(37.3)	1.000	(25.4)
09	1.593	(40.5)	1.125	(28.6)
10	1.718	(43.6)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

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380-106
EMI/RFI Non-Environmental Backshell
Light-Duty with Strain Relief
Type C - Self-Locking - Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS

A-F-H-L-S

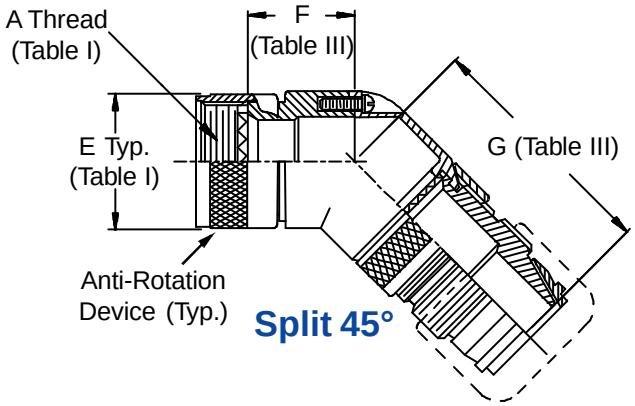
SELF-LOCKING

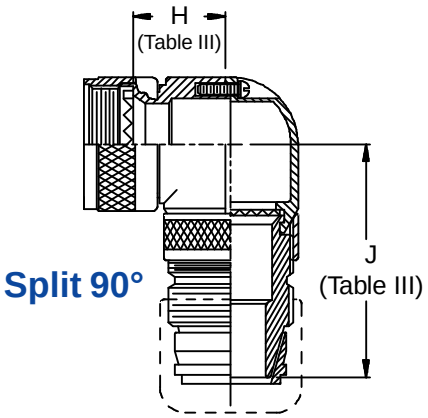
ROTATABLE COUPLING

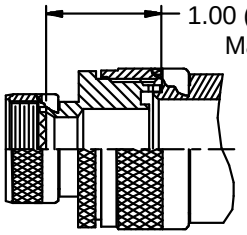
380 F D 106 M 16 05 L

- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables IV, V)
- Strain Relief Style (L, G)

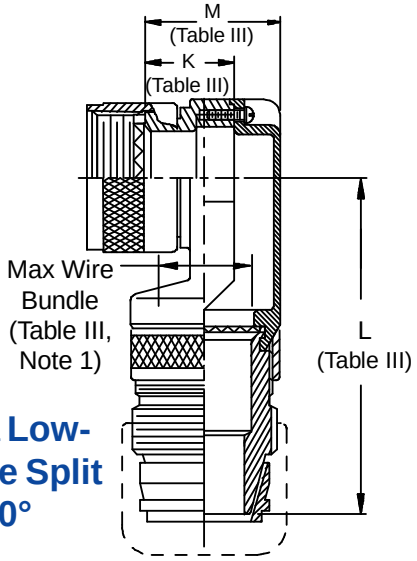
TYPE C OVERALL SHIELD TERMINATION



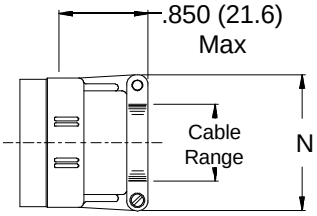




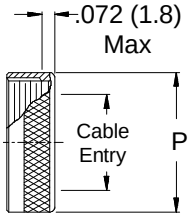
STYLE 2
(See Note 1)



STYLE L
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: DIMENSIONS

Shell Size	F Max	G Max	H Max	J Max	K Max	L Max	M Max	Function C Max Wire Bundle
08/09	.596 (15.1)	1.782 (45.3)	.836 (21.2)	1.722 (43.7)	.496 (12.6)	2.062 (52.4)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	1.845 (46.9)	.906 (23.0)	1.785 (45.3)	.426 (10.8)	2.225 (56.5)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	1.908 (48.5)	.966 (24.5)	1.848 (46.9)	.426 (10.8)	2.218 (56.3)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	1.935 (49.1)	1.026 (26.1)	1.875 (47.6)	.436 (11.1)	2.285 (58.0)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	2.040 (51.8)	1.086 (27.6)	1.980 (50.3)	.576 (14.6)	2.340 (59.4)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	2.095 (53.2)	1.156 (29.4)	2.035 (51.7)	.796 (20.2)	2.365 (60.1)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	2.160 (54.9)	1.216 (30.9)	2.100 (53.3)	.796 (20.2)	2.370 (60.2)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	2.220 (56.4)	1.276 (32.4)	2.160 (54.9)	.696 (17.7)	2.520 (64.0)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.280 (57.9)	1.336 (33.9)	2.220 (56.4)	.696 (17.7)	2.360 (59.9)	1.337 (34.0)	.750 (19.1)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	N Max	Cable Range Min	Cable Range Max
01	.781 (19.8)	.062 (1.6)	.125 (3.2)
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	P Max	Cable Entry Max
01	.593 (15.1)	.125 (3.2)
02	.718 (18.2)	.250 (6.4)
03	.843 (21.4)	.375 (9.5)
04	.968 (24.6)	.500 (12.7)
05	1.109 (28.2)	.625 (15.9)
06	1.218 (30.9)	.750 (19.1)
07	1.343 (34.1)	.875 (22.2)
08	1.468 (37.3)	1.000 (25.4)
09	1.593 (40.5)	1.125 (28.6)
10	1.718 (43.6)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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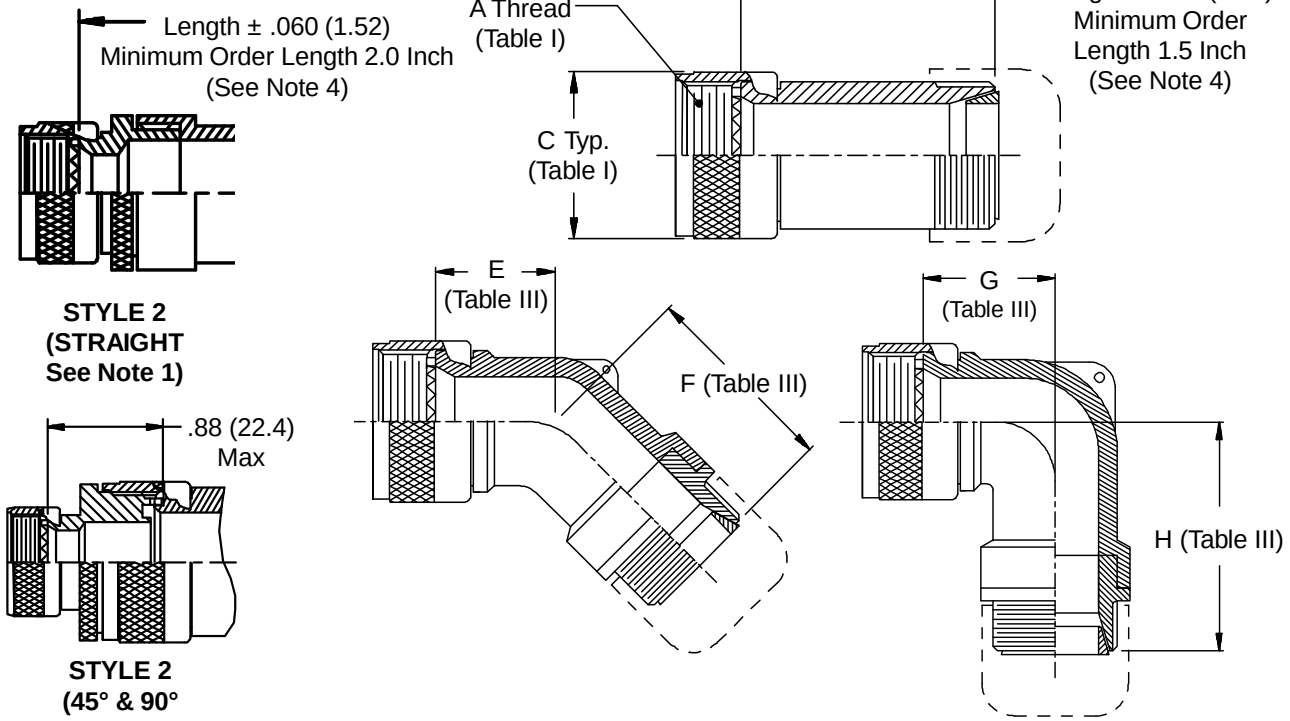
380-009
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

380 F S 009 M 16 05 F 6

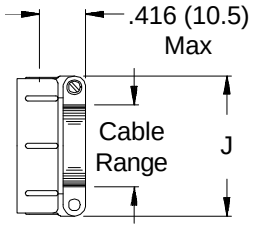
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



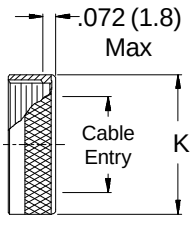
STYLE 2 (STRAIGHT See Note 1)

STYLE 2 (45° & 90° See Note 1)

STYLE F
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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380-009
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.457 (11.6)	1.500 (38.1)	.500 (12.7)	1.445 (36.7)
10	11	.520 (13.2)	1.510 (38.4)	.595 (15.1)	1.565 (39.8)
12	13	.582 (14.8)	1.580 (40.1)	.610 (15.5)	1.585 (40.3)
14	15	.645 (16.4)	1.660 (42.2)	.700 (17.8)	1.655 (42.0)
16	17	.738 (18.7)	1.770 (45.0)	.885 (22.5)	1.725 (43.8)
18	19	.926 (23.5)	1.960 (49.8)	.975 (24.8)	1.915 (48.6)
20	21	.926 (23.5)	1.960 (49.8)	.975 (24.8)	1.915 (48.6)
22	23	1.020 (25.9)	2.110 (53.6)	1.125 (28.6)	2.025 (51.4)
24	25	1.020 (25.9)	2.110 (53.6)	1.125 (28.6)	2.025 (51.4)
28		1.145 (29.1)	2.160 (54.9)	1.225 (31.1)	2.195 (55.8)
32		1.207 (30.7)	2.260 (57.4)	1.575 (40.0)	2.445 (62.1)
36		1.238 (31.4)	2.360 (59.9)	1.775 (45.1)	2.445 (62.1)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	J Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.218 (30.9)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.468 (37.3)	.687 (17.4)	.875 (22.2)
08	1.593 (40.5)	.812 (20.6)	1.000 (25.4)
10	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Entry Max
01	.656 (16.7)	.125 (3.2)
02	.781 (19.8)	.250 (6.4)
03	.906 (23.0)	.375 (9.5)
04	1.031 (26.2)	.500 (12.7)
05	1.156 (29.4)	.625 (15.9)
06	1.281 (32.5)	.750 (19.1)
07	1.406 (35.7)	.875 (22.2)
08	1.531 (38.9)	1.000 (25.4)
09	1.656 (42.1)	1.125 (28.6)
10	1.781 (45.2)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

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380-009
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Full Radius Profile

CONNECTOR DESIGNATORS

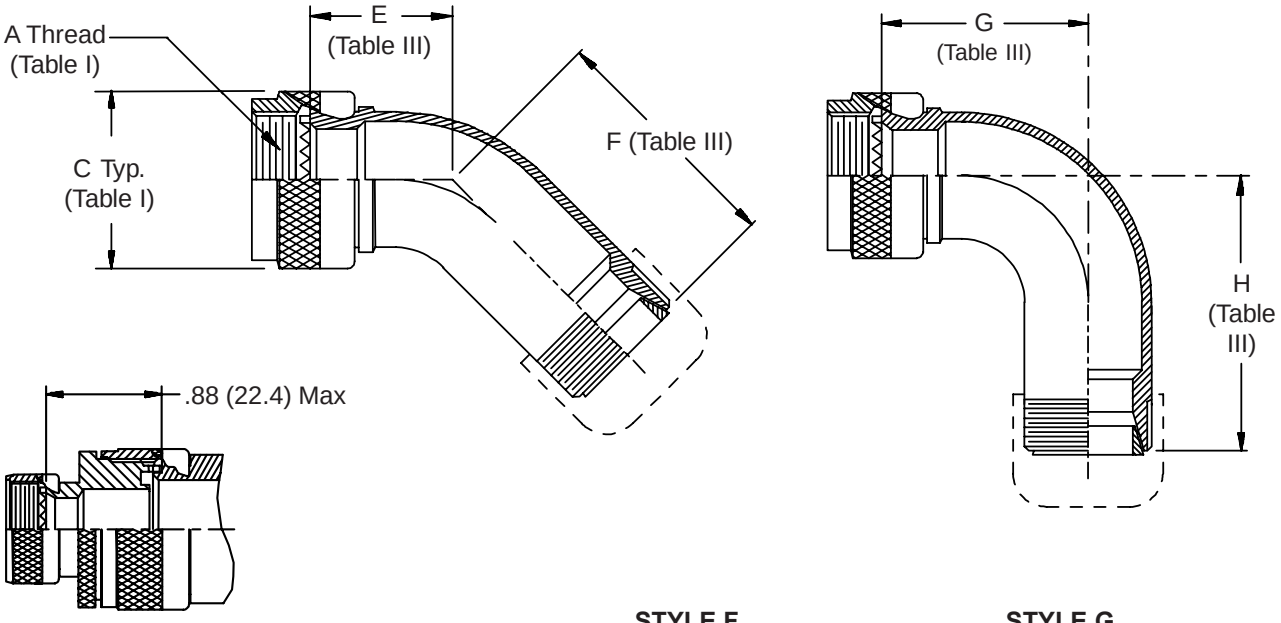
A-F-H-L-S

ROTATABLE COUPLING

TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

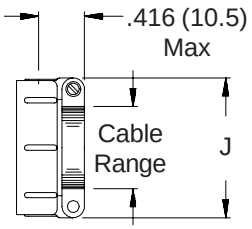
380 F N 009 M 16 05 F

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 38-50 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G)

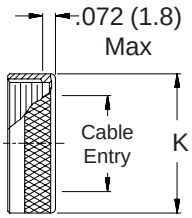


STYLE 2
(See Note 1)

STYLE F
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.807	(20.5)	.857	(21.8)	1.125	(28.6)	1.175	(29.8)
10	11	.861	(21.9)	.911	(23.1)	1.250	(31.8)	1.300	(33.0)
12	13	.911	(23.1)	.961	(24.4)	1.375	(34.9)	1.425	(36.2)
14	15	.965	(24.5)	1.015	(25.8)	1.500	(38.1)	1.550	(39.4)
16	17	1.014	(25.8)	1.064	(27.0)	1.625	(41.3)	1.675	(42.5)
18	19	1.064	(27.0)	1.114	(28.3)	1.750	(44.5)	1.800	(45.7)
20	21	1.118	(28.4)	1.168	(29.7)	1.875	(47.6)	1.925	(48.9)
22	23	1.172	(29.8)	1.222	(31.0)	2.000	(50.8)	2.050	(52.1)
24	25	1.221	(31.0)	1.271	(32.3)	2.125	(54.0)	2.175	(55.2)
28		1.325	(33.7)	1.375	(34.9)	2.375	(60.3)	2.425	(61.6)
32		1.428	(36.3)	1.478	(37.5)	2.625	(66.7)	2.675	(67.9)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	J Max		Cable Range Min		Cable Range Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.312	(7.9)	.500	(12.7)
05	1.218	(30.9)	.437	(11.1)	.625	(15.9)
06	1.343	(34.1)	.562	(14.3)	.750	(19.1)
07	1.468	(37.3)	.687	(17.4)	.875	(22.2)
08	1.593	(40.5)	.812	(20.6)	1.000	(25.4)
10	1.843	(46.8)	1.062	(27.0)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	K Max		Cable Entry Max	
01	.656	(16.7)	.125	(3.2)
02	.781	(19.8)	.250	(6.4)
03	.906	(23.0)	.375	(9.5)
04	1.031	(26.2)	.500	(12.7)
05	1.156	(29.4)	.625	(15.9)
06	1.281	(32.5)	.750	(19.1)
07	1.406	(35.7)	.875	(22.2)
08	1.531	(38.9)	1.000	(25.4)
09	1.656	(42.1)	1.125	(28.6)
10	1.781	(45.2)	1.250	(31.8)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.

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380-009
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

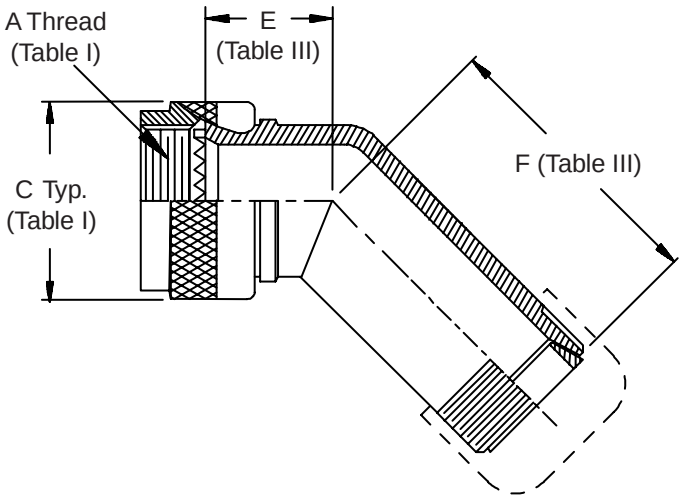
A-F-H-L-S

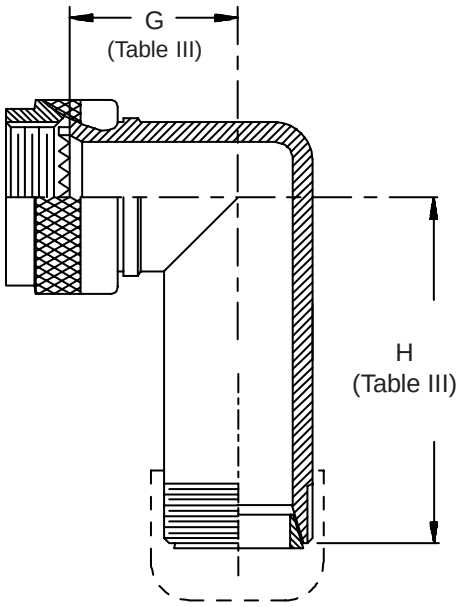
ROTATABLE COUPLING

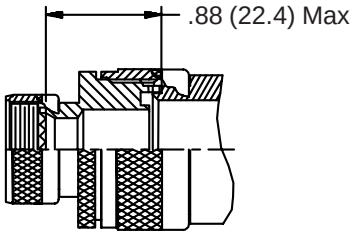
TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

380 F J 009 M 16 05 F

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-50 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G)

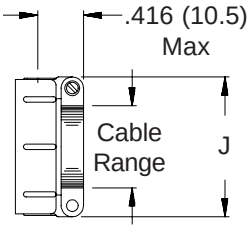




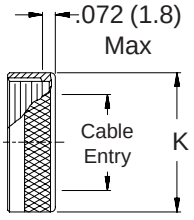


STYLE 2
(See Note 1)

STYLE F
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.639 (16.2)	.760 (19.3)	.750 (19.1)	.860 (21.8)
10	11	.664 (16.9)	.790 (20.1)	.810 (20.6)	.930 (23.6)
12	13	.688 (17.5)	.810 (20.6)	.870 (22.1)	.990 (25.1)
14	15	.705 (17.9)	.840 (21.3)	.920 (23.4)	1.050 (26.7)
16	17	.732 (18.6)	.860 (21.8)	.980 (24.9)	1.110 (28.2)
18	19	.748 (19.0)	.870 (22.1)	1.020 (25.9)	1.160 (29.5)
20	21	.773 (19.6)	.890 (22.6)	1.080 (27.4)	1.230 (31.2)
22	23	.800 (20.3)	.930 (23.6)	1.140 (29.0)	1.280 (32.5)
24	25	.823 (20.9)	.960 (24.4)	1.200 (30.5)	1.350 (34.3)
28		1.041 (26.4)	1.130 (28.7)	1.480 (37.6)	1.590 (40.4)
32		1.092 (27.7)	1.170 (29.7)	1.610 (40.9)	1.680 (42.7)
36		1.138 (28.9)	1.220 (31.0)	1.720 (43.7)	1.790 (45.5)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	J Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.218 (30.9)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.468 (37.3)	.687 (17.4)	.875 (22.2)
08	1.593 (40.5)	.812 (20.6)	1.000 (25.4)
10	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Entry Max
01	.656 (16.7)	.125 (3.2)
02	.781 (19.8)	.250 (6.4)
03	.906 (23.0)	.375 (9.5)
04	1.031 (26.2)	.500 (12.7)
05	1.156 (29.4)	.625 (15.9)
06	1.281 (32.5)	.750 (19.1)
07	1.406 (35.7)	.875 (22.2)
08	1.531 (38.9)	1.000 (25.4)
09	1.656 (42.1)	1.125 (28.6)
10	1.781 (45.2)	1.250 (31.8)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.

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380-009
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS

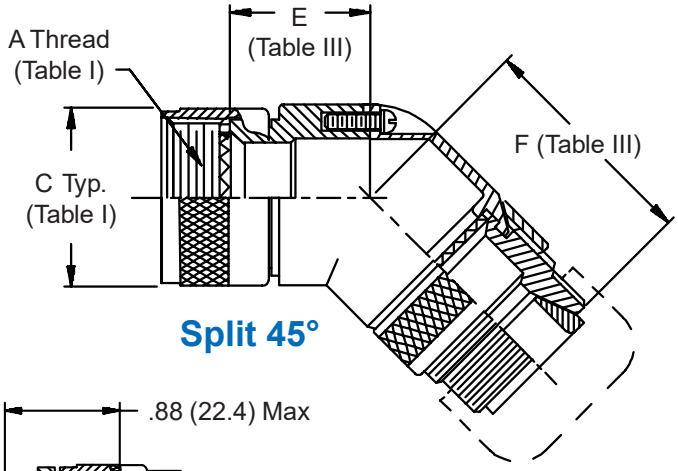
A-F-H-L-S

ROTATABLE COUPLING

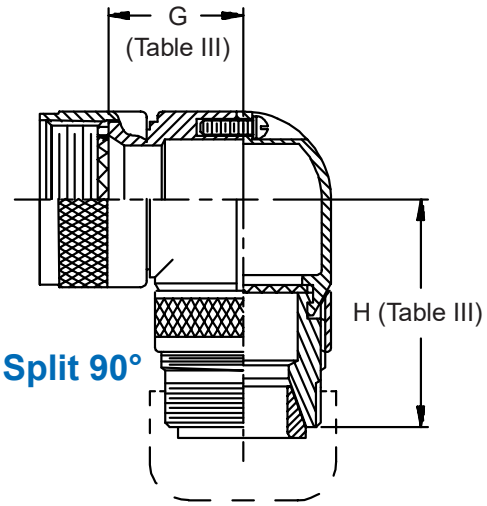
TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

380 F D 009 M 16 05 F

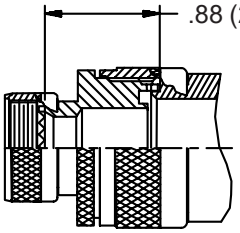
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G)



Split 45°

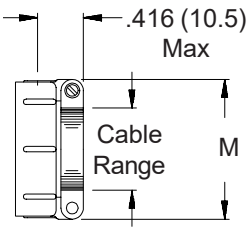


Split 90°

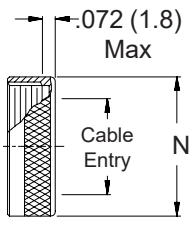


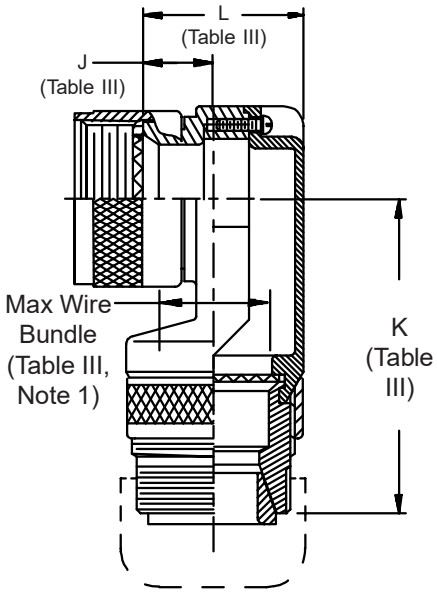
STYLE 2
(See Note 1)

STYLE F
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)





Ultra Low-Profile
Split 90°

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380-009
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE III: DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max	J Ref	K Max	L Max	Funtion C Max Wire Bundle
08/09	.440 (11.2)	1.730 (43.9)	.680 (17.3)	1.670 (42.4)	.340 (8.6)	1.920 (48.8)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	1.785 (45.3)	.750 (19.1)	1.725 (43.8)	.270 (6.9)	2.080 (52.8)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	1.855 (47.1)	.810 (20.6)	1.795 (45.6)	.270 (6.9)	2.080 (52.8)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	1.887 (47.9)	.870 (22.1)	1.827 (46.4)	.280 (7.1)	2.150 (54.6)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	1.987 (50.5)	.930 (23.6)	1.927 (48.9)	.420 (10.7)	2.200 (55.9)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	2.045 (51.9)	1.000 (25.4)	1.985 (50.4)	.640 (16.3)	2.230 (56.6)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	2.106 (53.5)	1.060 (26.9)	2.046 (52.0)	.640 (16.3)	2.230 (56.6)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	2.167 (55.0)	1.120 (28.4)	2.107 (53.5)	.540 (13.7)	2.380 (60.5)	1.181 (30.0)	.750 (19.1)
24/25	.940 (23.9)	2.225 (56.5)	1.180 (30.0)	2.165 (55.0)	.540 (13.7)	2.380 (60.5)	1.181 (30.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	M Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.218 (30.9)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.468 (37.3)	.687 (17.4)	.875 (22.2)
08	1.593 (40.5)	.812 (20.6)	1.000 (25.4)
10	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	N Max	Cable Entry Max
01	.656 (16.7)	.125 (3.2)
02	.781 (19.8)	.250 (6.4)
03	.906 (23.0)	.375 (9.5)
04	1.031 (26.2)	.500 (12.7)
05	1.156 (29.4)	.625 (15.9)
06	1.281 (32.5)	.750 (19.1)
07	1.406 (35.7)	.875 (22.2)
08	1.531 (38.9)	1.000 (25.4)
09	1.656 (42.1)	1.125 (28.6)
10	1.781 (45.2)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded (not available in Symbol C), Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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380-010
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

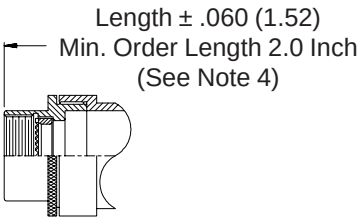
* Conn. Desig. B See Note 5

DIRECT COUPLING

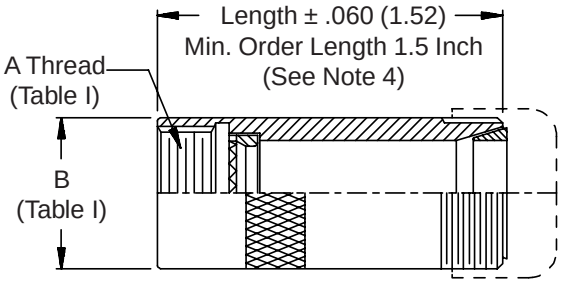
TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

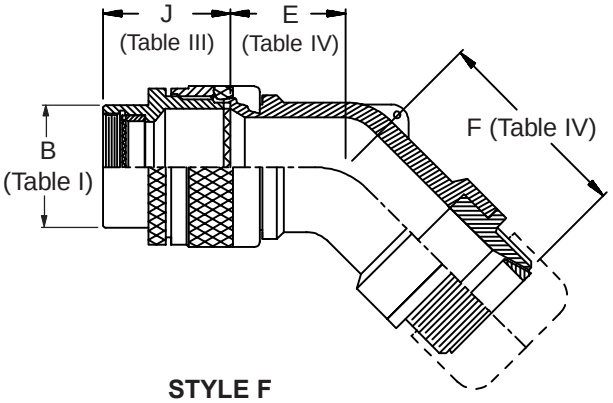
380 F S 010 M 16 05 F 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables V, VI)
- Strain Relief Style (F, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

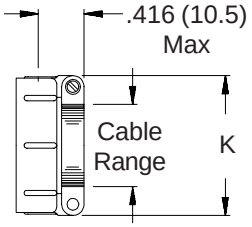


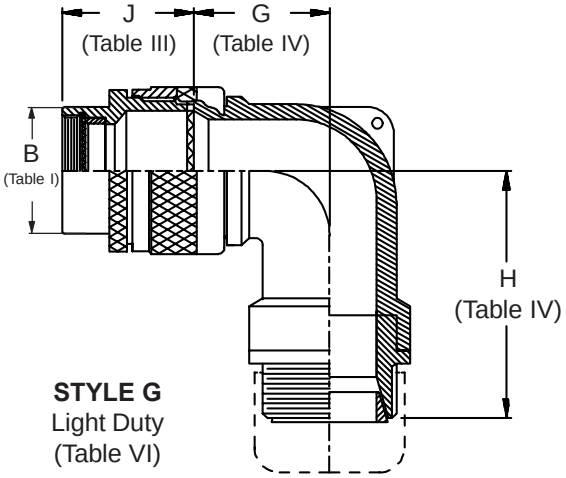
STYLE 2 (STRAIGHT See Note 1)



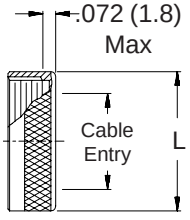


STYLE F
Light Duty
(Table V)





STYLE G
Light Duty
(Table VI)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
01	.457 (11.6)	1.500 (38.1)	.500 (12.7)	1.445 (36.7)
02	.457 (11.6)	1.500 (38.1)	.500 (12.7)	1.445 (36.7)
03	.520 (13.2)	1.510 (38.4)	.595 (15.1)	1.565 (39.8)
04	.582 (14.8)	1.580 (40.1)	.610 (15.5)	1.585 (40.3)
05	.738 (18.7)	1.770 (45.0)	.885 (22.5)	1.725 (43.8)
06	.926 (23.5)	1.960 (49.8)	.975 (24.8)	1.915 (48.6)
07	.926 (23.5)	1.960 (49.8)	.975 (24.8)	1.915 (48.6)
08	1.020 (25.9)	2.110 (53.6)	1.125 (28.6)	2.025 (51.4)
09	1.020 (25.9)	2.110 (53.6)	1.125 (28.6)	2.025 (51.4)
10	1.145 (29.1)	2.160 (54.9)	1.225 (31.1)	2.195 (55.8)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.218 (30.9)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.468 (37.3)	.687 (17.4)	.875 (22.2)
08	1.593 (40.5)	.812 (20.6)	1.000 (25.4)
10	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE VI: CABLE ENTRY

Dash No.	L Max	Cable Entry Max
01	.656 (16.7)	.125 (3.2)
02	.781 (19.8)	.250 (6.4)
03	.906 (23.0)	.375 (9.5)
04	1.031 (26.2)	.500 (12.7)
05	1.156 (29.4)	.625 (15.9)
06	1.281 (32.5)	.750 (19.1)
07	1.406 (35.7)	.875 (22.2)
08	1.531 (38.9)	1.000 (25.4)
09	1.656 (42.1)	1.125 (28.6)
10	1.781 (45.2)	1.250 (31.8)

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380-010
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

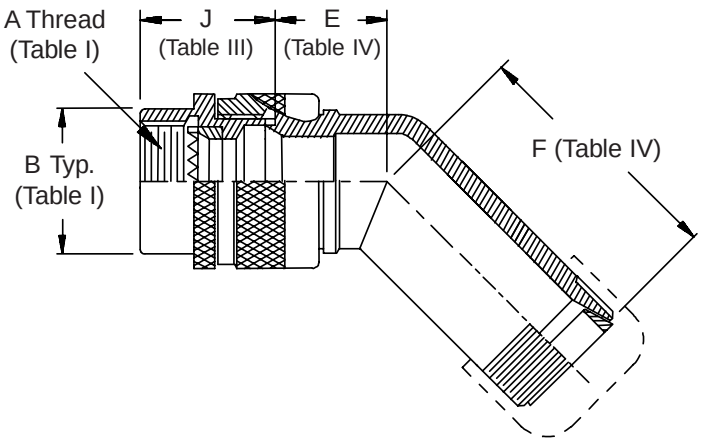
*** Conn. Desig. B See Note 3**

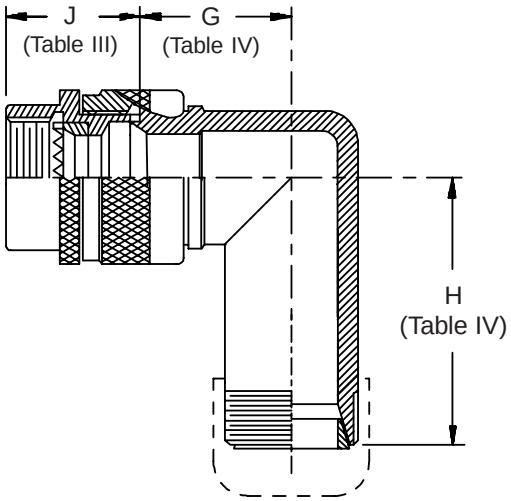
DIRECT COUPLING

TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

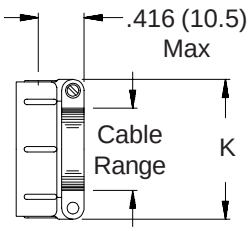
380 F J 010 M 16 05 F

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-58 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V, VI)
- Strain Relief Style (F, G)

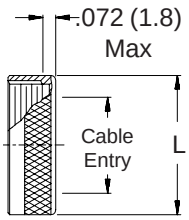




STYLE F
Light Duty
(Table V)



STYLE G
Light Duty
(Table VI)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
01	.639 (16.2)	.940 (23.9)	.750 (19.1)	1.050 (26.7)
02	.639 (16.2)	.940 (23.9)	.750 (19.1)	1.050 (26.7)
03	.664 (16.9)	.970 (24.6)	.810 (20.6)	1.110 (28.2)
04	.688 (17.5)	.990 (25.1)	.870 (22.1)	1.170 (29.7)
05	.732 (18.6)	1.040 (26.4)	.980 (24.9)	1.300 (33.0)
06	.748 (19.0)	1.050 (26.7)	1.020 (25.9)	1.320 (33.5)
07	.773 (19.6)	1.070 (27.2)	1.080 (27.4)	1.380 (35.1)
08	.800 (20.3)	1.110 (28.2)	1.140 (29.0)	1.460 (37.1)
09	.823 (20.9)	1.140 (29.0)	1.200 (30.5)	1.530 (38.9)
10	1.041 (26.4)	1.310 (33.3)	1.480 (37.6)	1.770 (45.0)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.218 (30.9)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.468 (37.3)	.687 (17.4)	.875 (22.2)
08	1.593 (40.5)	.812 (20.6)	1.000 (25.4)
10	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE VI: CABLE ENTRY

Dash No.	L Max	Cable Entry Max
01	.656 (16.7)	.125 (3.2)
02	.781 (19.8)	.250 (6.4)
03	.906 (23.0)	.375 (9.5)
04	1.031 (26.2)	.500 (12.7)
05	1.156 (29.4)	.625 (15.9)
06	1.281 (32.5)	.750 (19.1)
07	1.406 (35.7)	.875 (22.2)
08	1.531 (38.9)	1.000 (25.4)
09	1.656 (42.1)	1.125 (28.6)
10	1.781 (45.2)	1.250 (31.8)

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380-010
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Direct Coupling - Split Shell

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

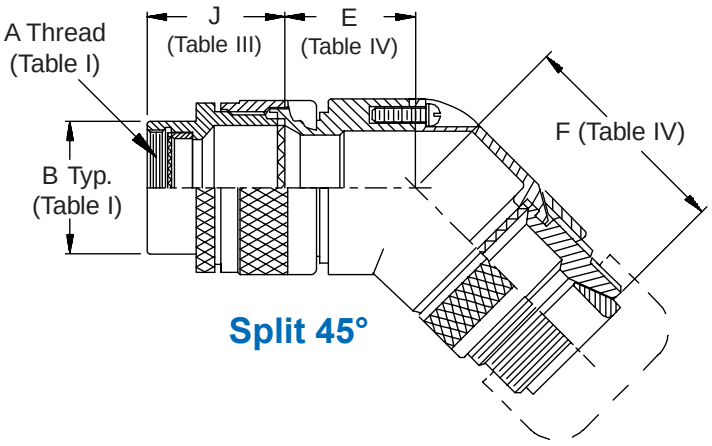
*** Conn. Desig. B See Note 3**

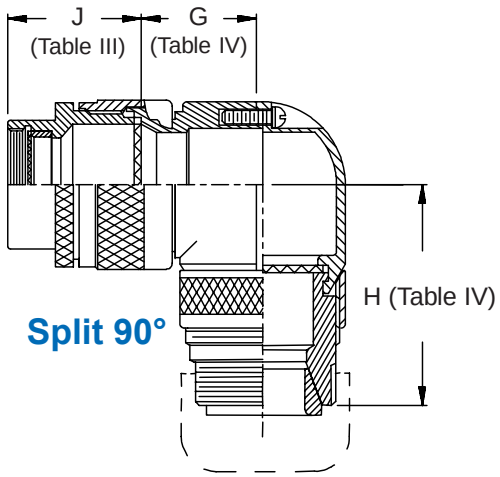
DIRECT COUPLING

TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

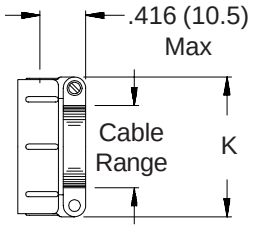
380 F D 010 M 16 05 F

- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables V, VI)
- Strain Relief Style (F, G)

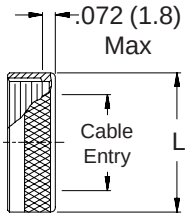




STYLE F
Light Duty
(Table V)



STYLE G
Light Duty
(Table VI)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for unabridge Tables I and II.

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
01	.440 (11.2)	1.730 (43.9)	.680 (17.3)	1.670 (42.4)
02	.440 (11.2)	1.730 (43.9)	.680 (17.3)	1.670 (42.4)
03	.500 (12.7)	1.785 (45.3)	.750 (19.1)	1.725 (43.8)
04	.560 (14.2)	1.855 (47.1)	.810 (20.6)	1.795 (45.6)
05	.680 (17.3)	1.987 (50.5)	.870 (22.1)	1.827 (46.4)
06	.750 (19.1)	2.045 (51.9)	.930 (23.6)	1.927 (48.9)
07	.820 (20.8)	2.106 (53.5)	1.000 (25.4)	1.985 (50.4)
08	.880 (22.4)	2.167 (55.0)	1.060 (26.9)	2.046 (52.0)
09	.940 (23.9)	2.225 (56.5)	1.120 (28.4)	2.107 (53.5)
10	1.000 (25.4)	2.285 (58.0)	1.180 (30.0)	2.165 (55.0)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE V: CABLE ENTRY

Dash No.	K Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.218 (30.9)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.468 (37.3)	.687 (17.4)	.875 (22.2)
08	1.593 (40.5)	.812 (20.6)	1.000 (25.4)
10	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE VI: CABLE ENTRY

Dash No.	L Max	Cable Entry Max
01	.656 (16.7)	.125 (3.2)
02	.781 (19.8)	.250 (6.4)
03	.906 (23.0)	.375 (9.5)
04	1.031 (26.2)	.500 (12.7)
05	1.156 (29.4)	.625 (15.9)
06	1.281 (32.5)	.750 (19.1)
07	1.406 (35.7)	.875 (22.2)
08	1.531 (38.9)	1.000 (25.4)
09	1.656 (42.1)	1.125 (28.6)
10	1.781 (45.2)	1.250 (31.8)

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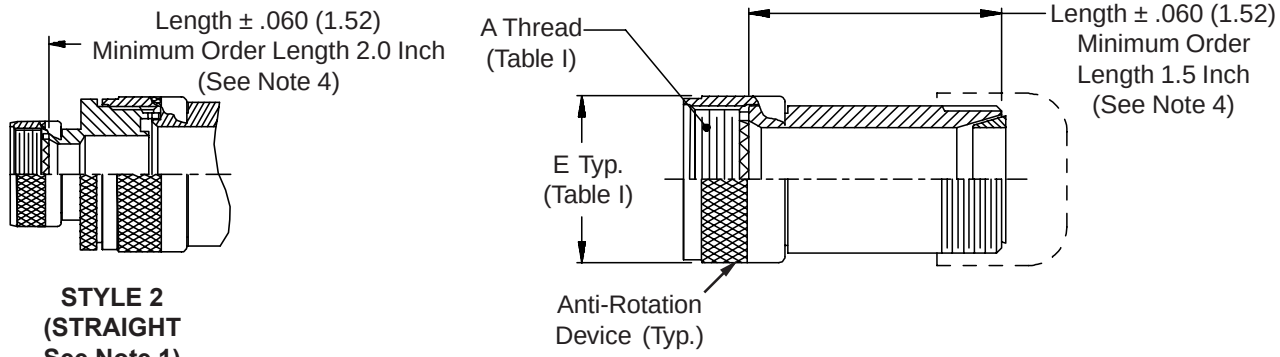
380-107
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Self-Locking - Rotatable Coupling - Full Radius

CONNECTOR DESIGNATORS
A-F-H-L-S
SELF-LOCKING
ROTATABLE COUPLING

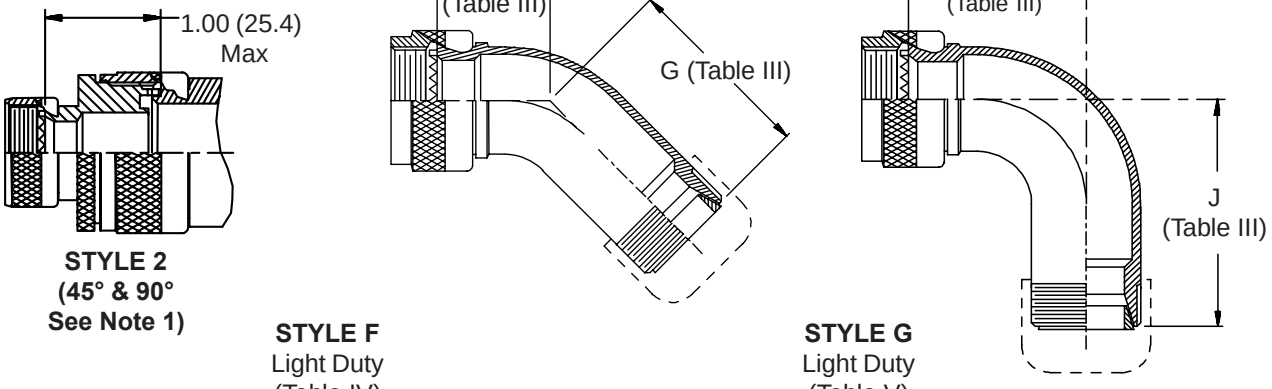
TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

380 F S 107 M 16 05 F 6

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

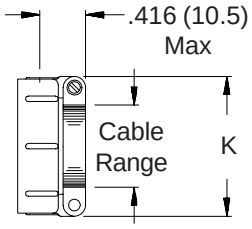


STYLE 2
(STRAIGHT
See Note 1)

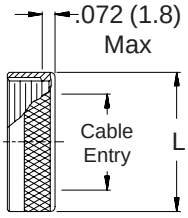


STYLE 2
(45° & 90°
See Note 1)

STYLE F
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
08	09	.963 (24.5)	.857 (21.8)	1.281 (32.5)	1.175 (29.8)
10	11	1.017 (25.8)	.911 (23.1)	1.406 (35.7)	1.300 (33.0)
12	13	1.067 (27.1)	.961 (24.4)	1.531 (38.9)	1.425 (36.2)
14	15	1.121 (28.5)	1.015 (25.8)	1.656 (42.1)	1.550 (39.4)
16	17	1.170 (29.7)	1.064 (27.0)	1.781 (45.2)	1.675 (42.5)
18	19	1.220 (31.0)	1.114 (28.3)	1.906 (48.4)	1.800 (45.7)
20	21	1.274 (32.4)	1.168 (29.7)	2.031 (51.6)	1.925 (48.9)
22	23	1.328 (33.7)	1.222 (31.0)	2.156 (54.8)	2.050 (52.1)
24	25	1.377 (35.0)	1.271 (32.3)	2.281 (57.9)	2.175 (55.2)
28		1.481 (37.6)	1.375 (34.9)	2.531 (64.3)	2.425 (61.6)
32		1.584 (40.2)	1.478 (37.5)	2.781 (70.6)	2.675 (67.9)

TABLE IV: CABLE ENTRY

Dash No.	K Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.218 (30.9)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.468 (37.3)	.687 (17.4)	.875 (22.2)
08	1.593 (40.5)	.812 (20.6)	1.000 (25.4)
10	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	L Max	Cable Entry Max
01	.656 (16.7)	.125 (3.2)
02	.781 (19.8)	.250 (6.4)
03	.906 (23.0)	.375 (9.5)
04	1.031 (26.2)	.500 (12.7)
05	1.156 (29.4)	.625 (15.9)
06	1.281 (32.5)	.750 (19.1)
07	1.406 (35.7)	.875 (22.2)
08	1.531 (38.9)	1.000 (25.4)
09	1.656 (42.1)	1.125 (28.6)
10	1.781 (45.2)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

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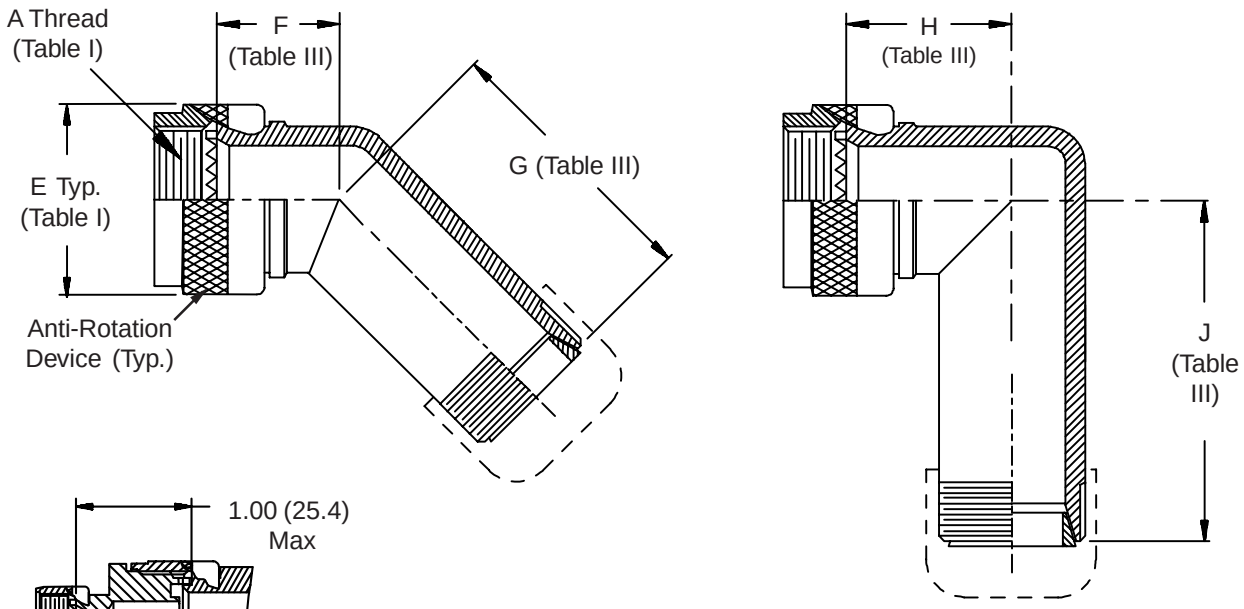
380-107
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Self-Locking - Rotatable Coupling - Standard Profile

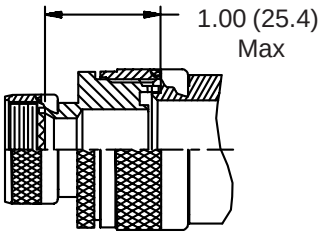
CONNECTOR DESIGNATORS
A-F-H-L-S
SELF-LOCKING
ROTATABLE COUPLING

TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

380 F J 107 M 16 05 F

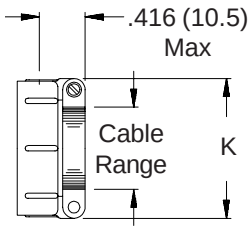
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-58 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G)



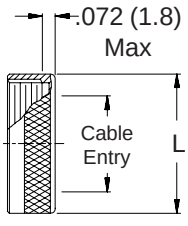


STYLE 2
(See Note 1)

STYLE F
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)



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See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	.760	(19.3)	.906	(23.0)	.860	(21.8)
10	11	.820	(20.8)	.790	(20.1)	.966	(24.5)	.930	(23.6)
12	13	.844	(21.4)	.810	(20.6)	1.026	(26.1)	.990	(25.1)
14	15	.861	(21.9)	.840	(21.3)	1.076	(27.3)	1.050	(26.7)
16	17	.888	(22.6)	.860	(21.8)	1.136	(28.9)	1.110	(28.2)
18	19	.904	(23.0)	.870	(22.1)	1.176	(29.9)	1.160	(29.5)
20	21	.929	(23.6)	.890	(22.6)	1.236	(31.4)	1.230	(31.2)
22	23	.956	(24.3)	.930	(23.6)	1.296	(32.9)	1.280	(32.5)
24	25	.979	(24.9)	.960	(24.4)	1.356	(34.4)	1.350	(34.3)
28		1.197	(30.4)	1.130	(28.7)	1.636	(41.6)	1.590	(40.4)
32		1.248	(31.7)	1.170	(29.7)	1.766	(44.9)	1.680	(42.7)
36		1.294	(32.9)	1.220	(31.0)	1.876	(47.7)	1.790	(45.5)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE IV: CABLE ENTRY

Dash No.	K Max		Cable Range Min		Cable Range Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.312	(7.9)	.500	(12.7)
05	1.218	(30.9)	.437	(11.1)	.625	(15.9)
06	1.343	(34.1)	.562	(14.3)	.750	(19.1)
07	1.468	(37.3)	.687	(17.4)	.875	(22.2)
08	1.593	(40.5)	.812	(20.6)	1.000	(25.4)
10	1.843	(46.8)	1.062	(27.0)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	L Max		Cable Entry Max	
01	.656	(16.7)	.125	(3.2)
02	.781	(19.8)	.250	(6.4)
03	.906	(23.0)	.375	(9.5)
04	1.031	(26.2)	.500	(12.7)
05	1.156	(29.4)	.625	(15.9)
06	1.281	(32.5)	.750	(19.1)
07	1.406	(35.7)	.875	(22.2)
08	1.531	(38.9)	1.000	(25.4)
09	1.656	(42.1)	1.125	(28.6)
10	1.781	(45.2)	1.250	(31.8)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.

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380-107
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Self-Locking - Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS

A-F-H-L-S

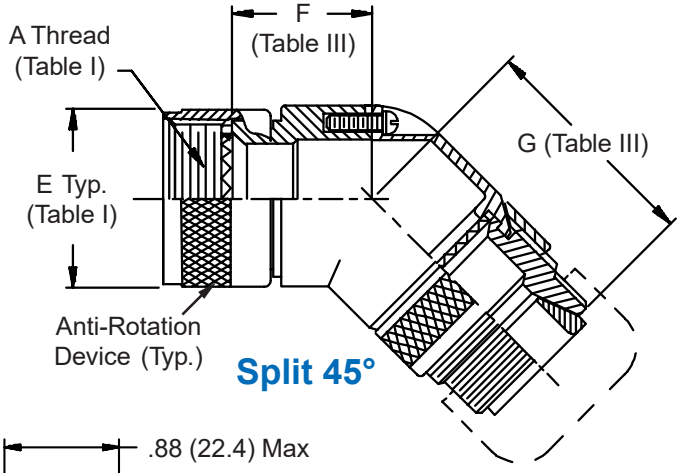
SELF-LOCKING

ROTATABLE COUPLING

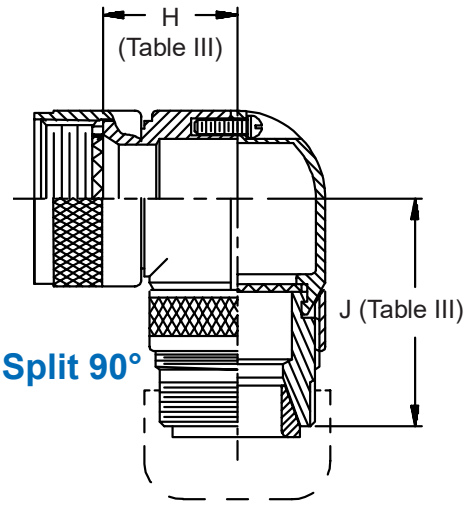
380 F D 107 M 16 05 F

- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G)

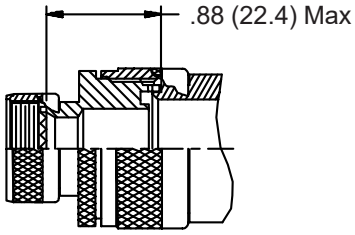
TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION



Split 45°

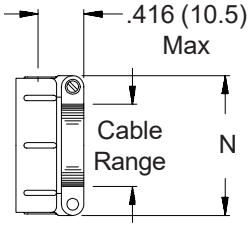


Split 90°

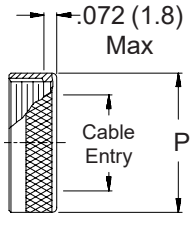


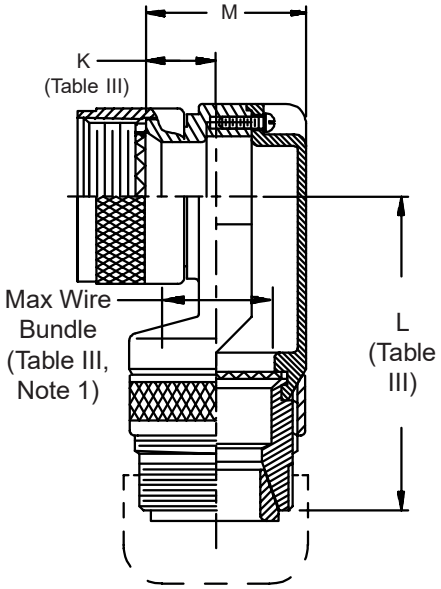
STYLE 2
(See Note 1)

STYLE F
Light Duty
(Table IV)



STYLE G
Light Duty
(Table V)





Ultra Low-Profile Split 90°

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380-107
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Self-Locking - Rotatable Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE III: DIMENSIONS

Shell Size	F Max	G Max	H Max	J Ref	K Max	L Max	M Max	Function C Max Wire Bundle
08/09	.596 (15.1)	1.730 (43.9)	.836 (21.2)	1.670 (42.4)	.496 (12.6)	1.920 (48.8)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	1.785 (45.3)	.906 (23.0)	1.725 (43.8)	.426 (10.8)	2.080 (52.8)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	1.855 (47.1)	.966 (24.5)	1.795 (45.6)	.426 (10.8)	2.080 (52.8)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	1.887 (47.9)	1.026 (26.1)	1.827 (46.4)	.436 (11.1)	2.150 (54.6)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	1.987 (50.5)	1.086 (27.6)	1.927 (48.9)	.576 (14.6)	2.200 (55.9)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	2.045 (51.9)	1.156 (29.4)	1.985 (50.4)	.796 (20.2)	2.230 (56.6)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	2.106 (53.5)	1.216 (30.9)	2.046 (52.0)	.796 (20.2)	2.230 (56.6)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	2.167 (55.0)	1.276 (32.4)	2.107 (53.5)	.696 (17.7)	2.380 (60.5)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.225 (56.5)	1.336 (33.9)	2.165 (55.0)	.696 (17.7)	2.380 (60.5)	1.337 (34.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	N Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.312 (7.9)	.500 (12.7)
05	1.218 (30.9)	.437 (11.1)	.625 (15.9)
06	1.343 (34.1)	.562 (14.3)	.750 (19.1)
07	1.468 (37.3)	.687 (17.4)	.875 (22.2)
08	1.593 (40.5)	.812 (20.6)	1.000 (25.4)
10	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	P Max	Cable Entry Max
01	.656 (16.7)	.125 (3.2)
02	.781 (19.8)	.250 (6.4)
03	.906 (23.0)	.375 (9.5)
04	1.031 (26.2)	.500 (12.7)
05	1.156 (29.4)	.625 (15.9)
06	1.281 (32.5)	.750 (19.1)
07	1.406 (35.7)	.875 (22.2)
08	1.531 (38.9)	1.000 (25.4)
09	1.656 (42.1)	1.125 (28.6)
10	1.781 (45.2)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded (not available in Function C), Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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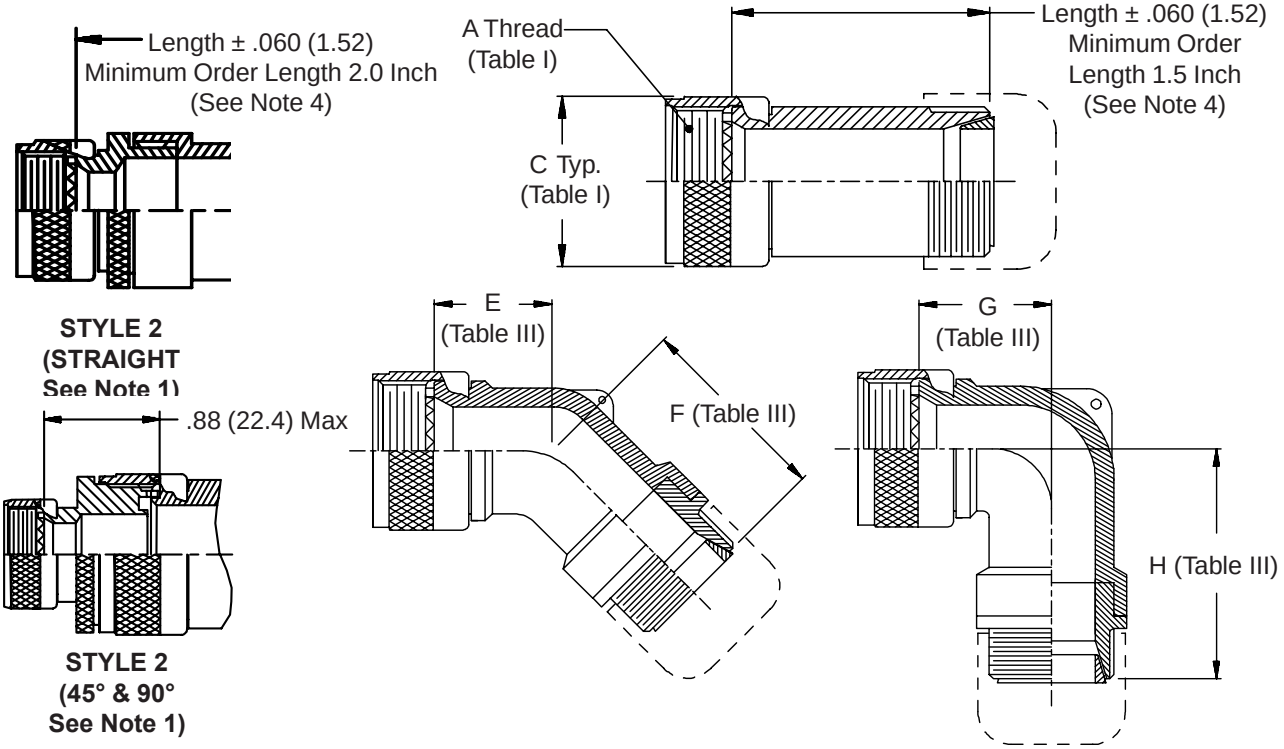
380-013
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Low Profile

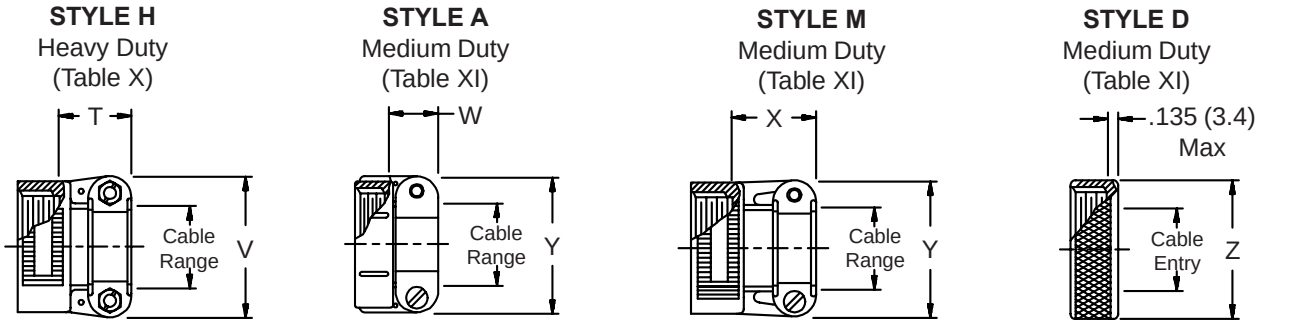
CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

380 F S 013 M 16 10 A 6

- Product Series
- Connector Designator
- Angular Function
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)





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EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Low Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.730	(43.9)	.560	(14.2)	1.680	(42.7)
10	11	.520	(13.2)	1.730	(43.9)	.660	(16.8)	1.800	(45.7)
12	13	.582	(14.8)	1.790	(45.5)	.670	(17.0)	1.820	(46.2)
14	15	.645	(16.4)	1.880	(47.8)	.760	(19.3)	1.890	(48.0)
16	17	.738	(18.7)	1.990	(50.5)	.950	(24.1)	1.980	(50.3)
18	19	.926	(23.5)	2.180	(55.4)	1.030	(26.2)	2.150	(54.6)
20	21	.926	(23.5)	2.180	(55.4)	1.030	(26.2)	2.150	(54.6)
22	23	1.020	(25.9)	2.330	(59.2)	1.180	(30.0)	2.260	(57.4)
24	25	1.020	(25.9)	2.330	(59.2)	1.180	(30.0)	2.260	(57.4)
28		1.145	(29.1)	2.380	(60.5)	1.280	(32.5)	2.430	(61.7)
32		1.207	(30.7)	2.480	(63.0)	1.630	(41.4)	2.680	(68.1)
36		1.238	(31.4)	2.570	(65.3)	1.830	(46.5)	2.680	(68.1)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

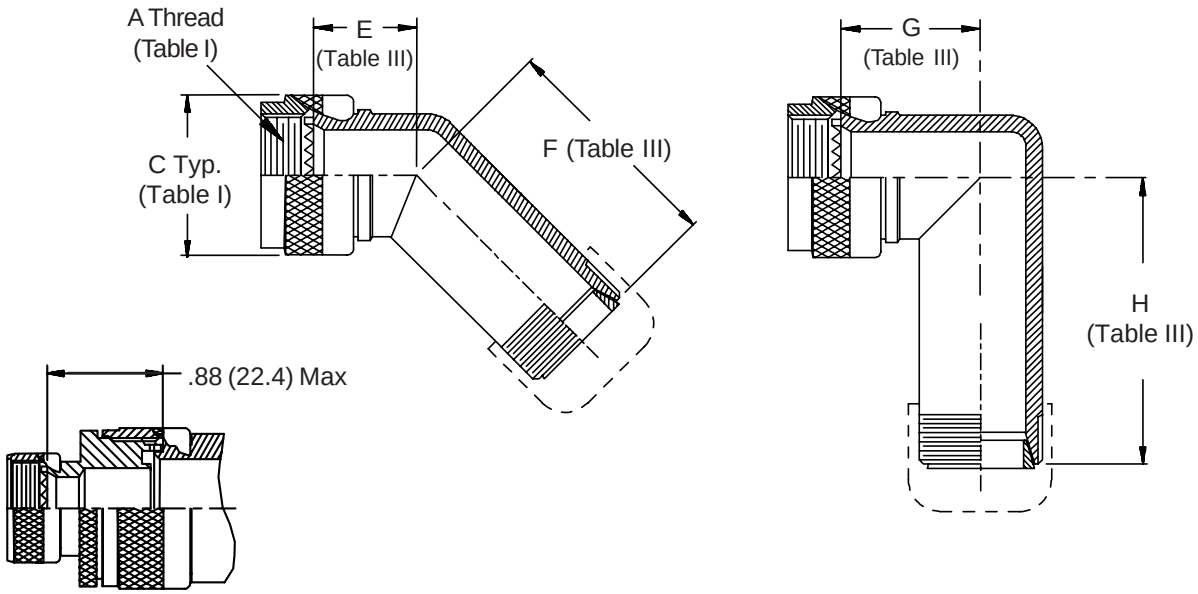
A-F-H-L-S

ROTATABLE COUPLING

TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

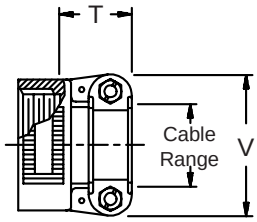
380 F H 013 M 24 12 A

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-70 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)

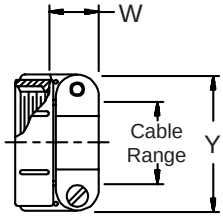


STYLE 2
(See Note 1)

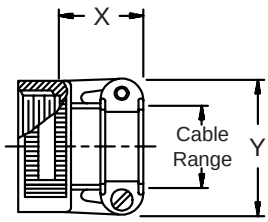
STYLE H
Heavy Duty
(Table X)



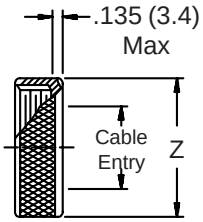
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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with Strain Relief
Type D - Rotatable Coupling - Standard Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	.940	(23.9)	.750	(19.1)	1.050	(26.7)
10	11	.664	(16.9)	.970	(24.6)	.810	(20.6)	1.110	(28.2)
12	13	.688	(17.5)	.990	(25.1)	.870	(22.1)	1.170	(29.7)
14	15	.705	(17.9)	1.020	(25.9)	.920	(23.4)	1.240	(31.5)
16	17	.732	(18.6)	1.040	(26.4)	.980	(24.9)	1.300	(33.0)
18	19	.748	(19.0)	1.050	(26.7)	1.020	(25.9)	1.320	(33.5)
20	21	.773	(19.6)	1.070	(27.2)	1.080	(27.4)	1.380	(35.1)
22	23	.800	(20.3)	1.110	(28.2)	1.140	(29.0)	1.460	(37.1)
24	25	.823	(20.9)	1.140	(29.0)	1.200	(30.5)	1.530	(38.9)
28		1.041	(26.4)	1.310	(33.3)	1.480	(37.6)	1.770	(45.0)
32		1.092	(27.7)	1.350	(34.3)	1.610	(40.9)	1.860	(47.2)
36		1.138	(28.9)	1.400	(35.6)	1.720	(43.7)	1.970	(50.0)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-013
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS

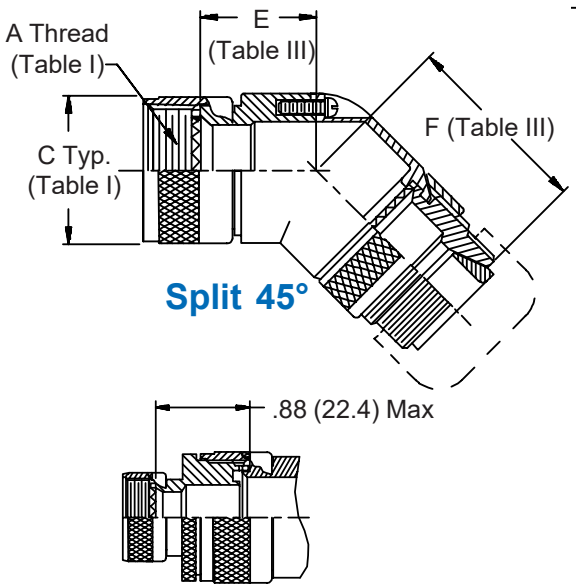
A-F-H-L-S

ROTATABLE COUPLING

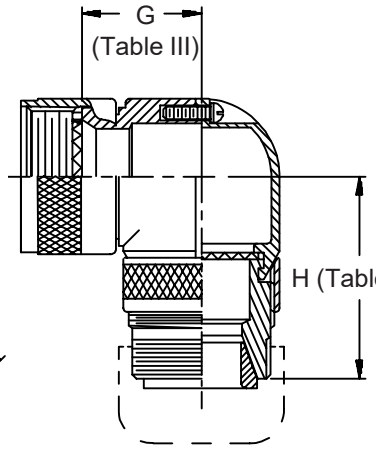
TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

380 F D 013 M 24 12 A

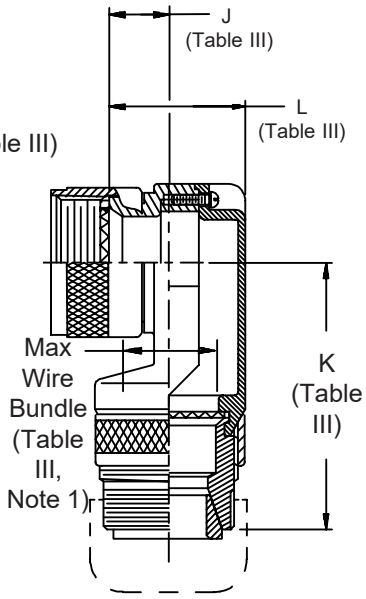
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)



Split 45°



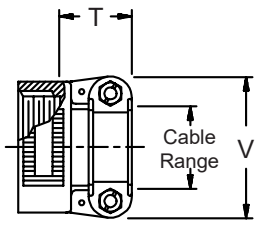
Split 90°



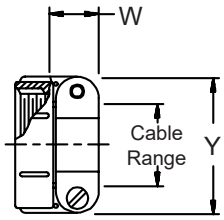
Ultra Low-Profile Split 90°

STYLE 2
(See Note 1)

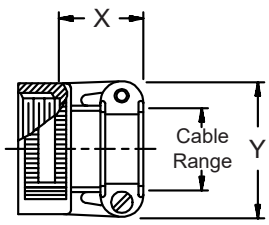
STYLE H
Heavy Duty
(Table X)



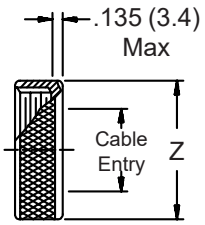
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-013
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Rotatable Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max	J Ref	K Max	L Max	Function C Max Wire Bundle
08/09	.440 (11.2)	1.730 (43.9)	.680 (17.3)	1.670 (42.4)	.340 (8.6)	1.920 (48.8)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	1.785 (45.3)	.750 (19.1)	1.725 (43.8)	.270 (6.9)	2.080 (52.8)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	1.855 (47.1)	.810 (20.6)	1.795 (45.6)	.270 (6.9)	2.080 (52.8)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	1.887 (47.9)	.870 (22.1)	1.827 (46.4)	.280 (7.1)	2.150 (54.6)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	1.987 (50.5)	.930 (23.6)	1.927 (48.9)	.420 (10.7)	2.200 (55.9)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	2.045 (51.9)	1.000 (25.4)	1.985 (50.4)	.640 (16.3)	2.230 (56.6)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	2.106 (53.5)	1.060 (26.9)	2.046 (52.0)	.640 (16.3)	2.230 (56.6)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	2.167 (55.0)	1.120 (28.4)	2.107 (53.5)	.540 (13.7)	2.380 (60.5)	1.181 (30.0)	.750 (19.1)
24/25	.940 (23.9)	2.225 (56.5)	1.180 (30.0)	2.165 (55.0)	.540 (13.7)	2.380 (60.5)	1.181 (30.0)	.750 (19.1)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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380-014
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

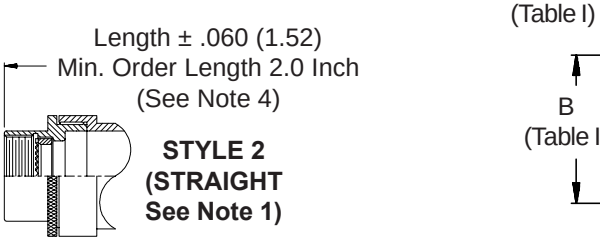
*** Conn. Desig. B See Note 5**

DIRECT COUPLING

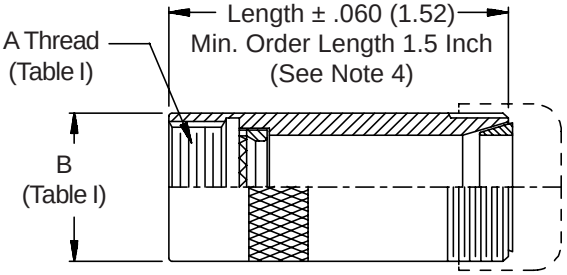
TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

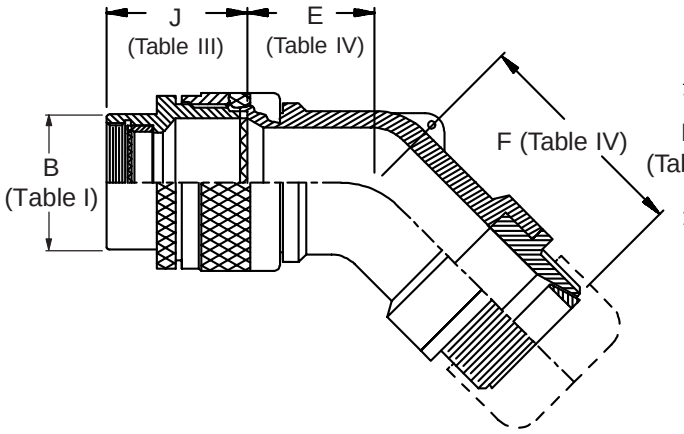
380 F S 014 M 16 10 A 6

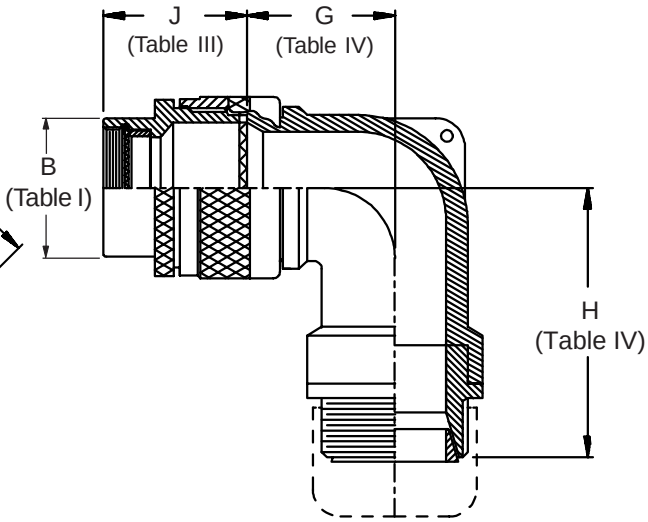
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



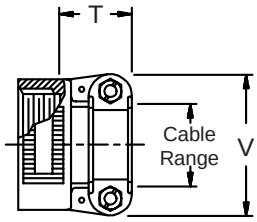
STYLE 2 (STRAIGHT See Note 1)



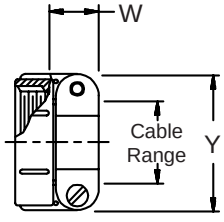




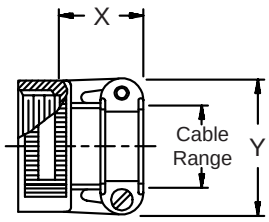
STYLE H
Heavy Duty
(Table X)



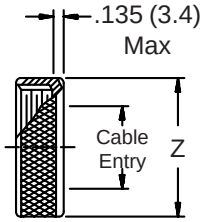
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-014
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.630 (16.0)	1.730 (43.9)	.636 (16.2)	1.680 (42.7)
04	.630 (16.0)	1.730 (43.9)	.636 (16.2)	1.680 (42.7)
06	.630 (16.0)	1.730 (43.9)	.710 (18.0)	1.800 (45.7)
08	.692 (17.6)	1.790 (45.5)	.731 (18.6)	1.820 (46.2)
10	.755 (19.2)	1.880 (47.8)	.825 (21.0)	1.890 (48.0)
12	.848 (21.5)	1.990 (50.5)	.988 (25.1)	1.980 (50.3)
16	1.036 (26.3)	2.180 (55.4)	1.087 (27.6)	2.150 (54.6)
20	1.130 (28.7)	2.330 (59.2)	1.325 (33.7)	2.260 (57.4)
24	1.255 (31.9)	2.380 (60.5)	1.337 (34.0)	2.430 (61.7)
28	1.317 (33.5)	2.480 (63.0)	1.827 (46.4)	2.680 (68.1)
32	1.348 (34.2)	2.570 (65.3)	2.027 (51.5)	2.680 (68.1)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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CAGE Code 06324

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380-014
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Direct Coupling - Split Shell

CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

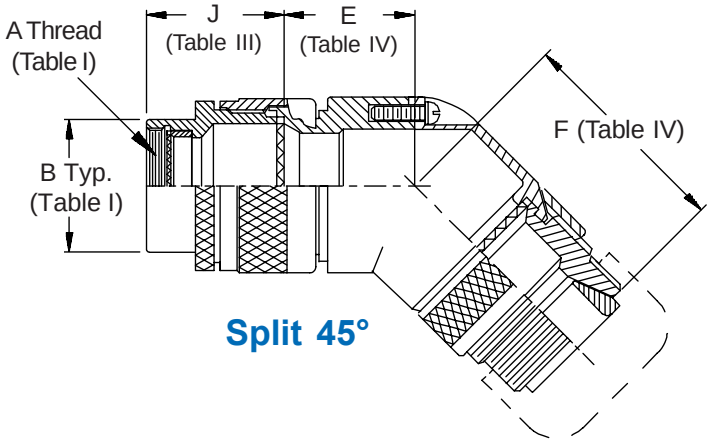
*** Conn. Desig. B See Note 3**

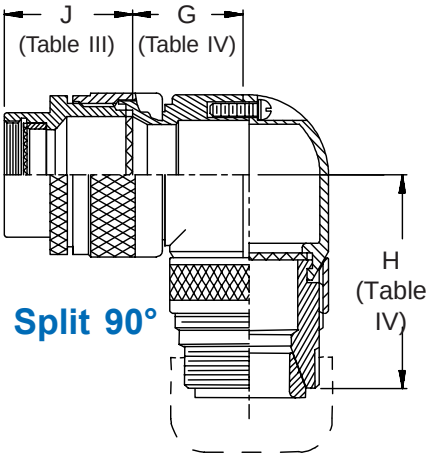
DIRECT COUPLING

TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

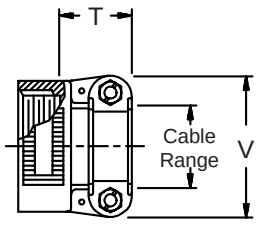
380 F D 014 M 16 08 A

- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)

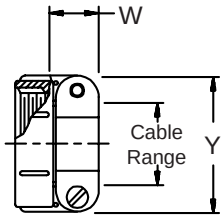




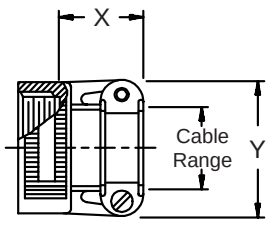
STYLE H
Heavy Duty
(Table X)



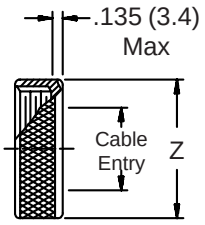
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-014
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Direct Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.440 (11.2)	1.730 (43.9)	.680 (17.3)	1.670 (42.4)
04	.500 (12.7)	1.785 (45.3)	.750 (19.1)	1.725 (43.8)
06	.560 (14.2)	1.855 (47.1)	.810 (20.6)	1.795 (45.6)
08	.620 (15.7)	1.887 (47.9)	.870 (22.1)	1.827 (46.4)
10	.680 (17.3)	1.987 (50.5)	.930 (23.6)	1.927 (48.9)
12	.750 (19.1)	2.045 (51.9)	1.000 (25.4)	1.985 (50.4)
16	.820 (20.8)	2.106 (53.5)	1.060 (26.9)	2.046 (52.0)
20	.940 (23.9)	2.225 (56.5)	1.180 (30.0)	2.165 (55.0)
24	1.300 (33.0)	2.386 (60.6)	1.300 (33.0)	2.326 (59.1)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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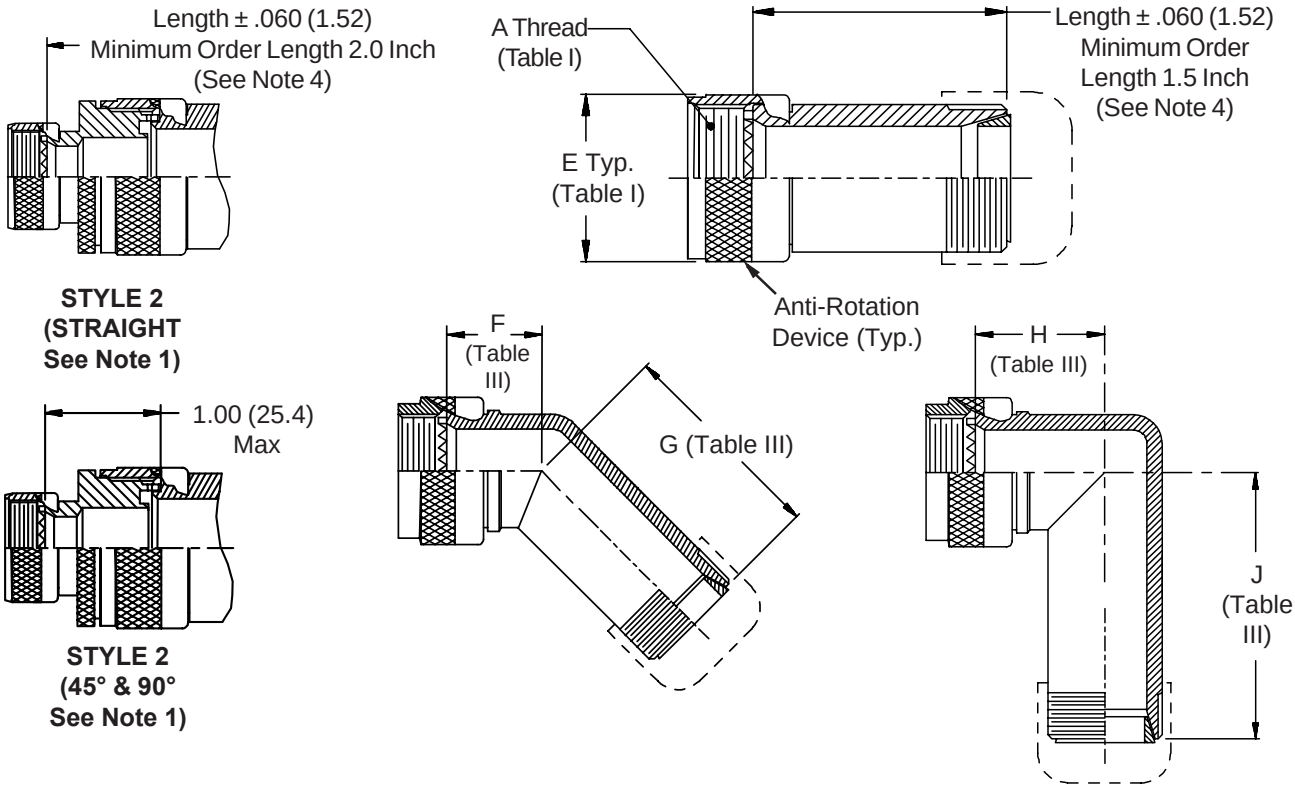
380-111
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Self-Locking - Rotatable Coupling - Standard Profile

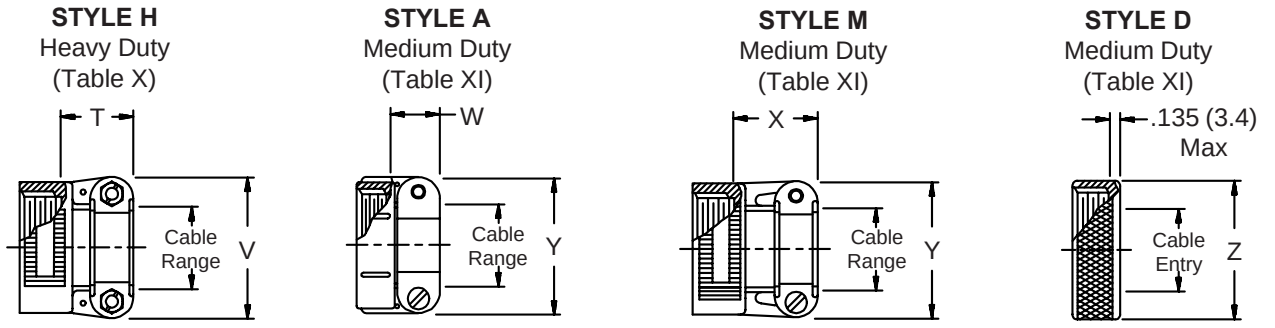
CONNECTOR DESIGNATORS
A-F-H-L-S
SELF-LOCKING
ROTATABLE COUPLING

TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION

380 F S 111 M 16 10 A 6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)





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Type D - Self-Locking - Rotatable Coupling - Standard Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	.940	(23.9)	.906	(23.0)	1.050	(26.7)
10	11	.795	(20.2)	.970	(24.6)	.966	(24.5)	1.110	(28.2)
12	13	.820	(20.8)	.990	(25.1)	1.026	(26.1)	1.170	(29.7)
14	15	.844	(21.4)	1.020	(25.9)	1.076	(27.3)	1.240	(31.5)
16	17	.888	(22.6)	1.040	(26.4)	1.136	(28.9)	1.300	(33.0)
18	19	.904	(23.0)	1.050	(26.7)	1.176	(29.9)	1.320	(33.5)
20	21	.929	(23.6)	1.070	(27.2)	1.236	(31.4)	1.380	(35.1)
22	23	.956	(24.3)	1.110	(28.2)	1.296	(32.9)	1.460	(37.1)
24	25	.979	(24.9)	1.140	(29.0)	1.356	(34.4)	1.530	(38.9)
28		1.197	(30.4)	1.310	(33.3)	1.636	(41.6)	1.770	(45.0)
32		1.248	(31.7)	1.350	(34.3)	1.766	(44.9)	1.860	(47.2)
36		1.294	(32.9)	1.400	(35.6)	1.876	(47.7)	1.970	(50.0)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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EMI/RFI Non-Environmental Backshell
with Strain Relief
Type D - Self-Locking - Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS

A-F-H-L-S

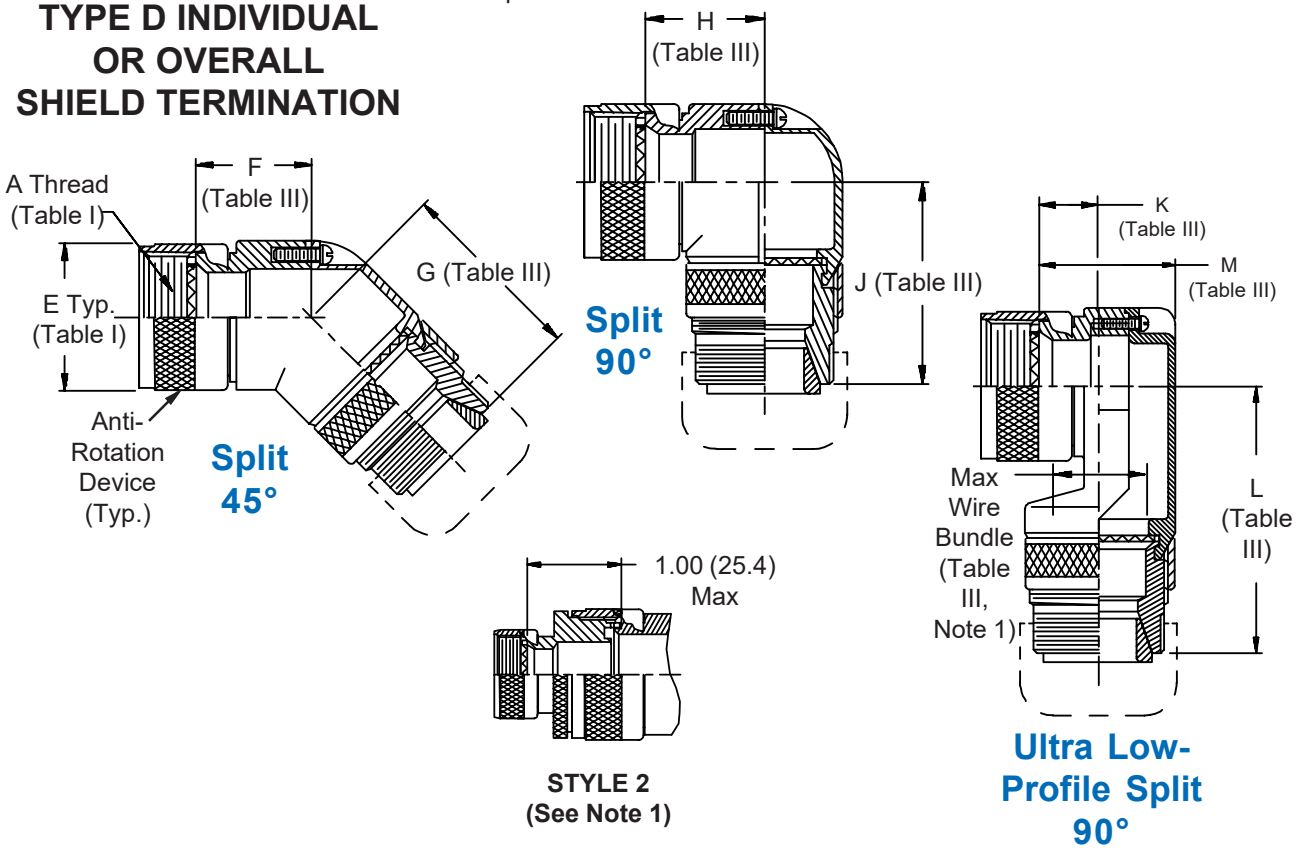
SELF-LOCKING

ROTATABLE COUPLING

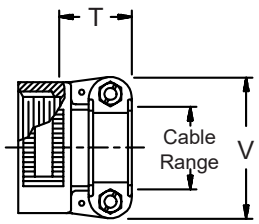
380 F D 111 M 24 12 A

- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)

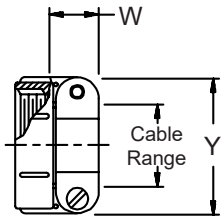
TYPE D INDIVIDUAL OR OVERALL SHIELD TERMINATION



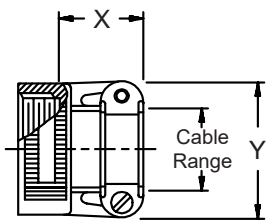
STYLE H
Heavy Duty
(Table X)



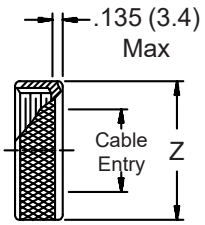
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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with Strain Relief
Type D - Self-Locking - Rotatable Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: DIMENSIONS

Shell Size	F Max	G Max	H Max	J Ref	K Max	L Max	M Max	Function C Max Wire Bundle
08/09	.596 (15.1)	1.590 (40.4)	.836 (21.2)	1.530 (38.9)	.496 (12.6)	1.780 (45.2)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	1.650 (41.9)	.906 (23.0)	1.590 (40.4)	.426 (10.8)	1.940 (49.3)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	1.720 (43.7)	.966 (24.5)	1.660 (42.2)	.426 (10.8)	1.940 (49.3)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	1.750 (44.5)	1.026 (26.1)	1.690 (42.9)	.436 (11.1)	2.010 (51.1)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	1.850 (47.0)	1.086 (27.6)	1.790 (45.5)	.576 (14.6)	2.060 (52.3)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	1.910 (48.5)	1.156 (29.4)	1.850 (47.0)	.796 (20.2)	2.090 (53.1)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	1.970 (50.0)	1.216 (30.9)	1.910 (48.5)	.796 (20.2)	2.090 (53.1)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	2.030 (51.6)	1.276 (32.4)	1.970 (50.0)	.696 (17.7)	2.240 (56.9)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.090 (53.1)	1.336 (33.9)	2.030 (51.6)	.696 (17.7)	2.240 (56.9)	1.337 (34.0)	.750 (19.1)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

TABLE XI: CABLE RANGE

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-018
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

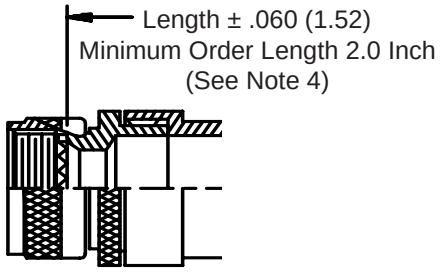
A-F-H-L-S

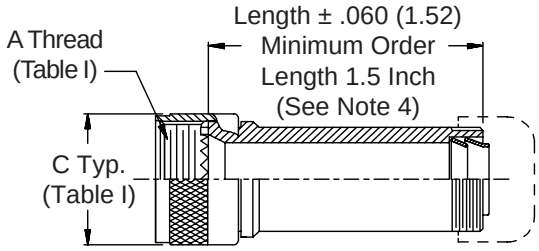
ROTATABLE COUPLING

TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

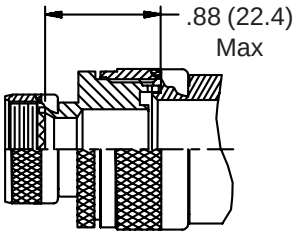
380 F S 018 M 24 12 D A 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Termination (Note 5)
  - D = 2 Rings
  - T = 3 Rings
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

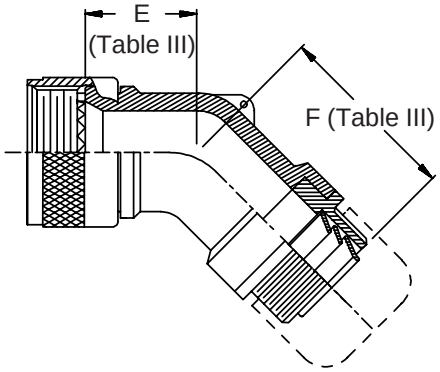


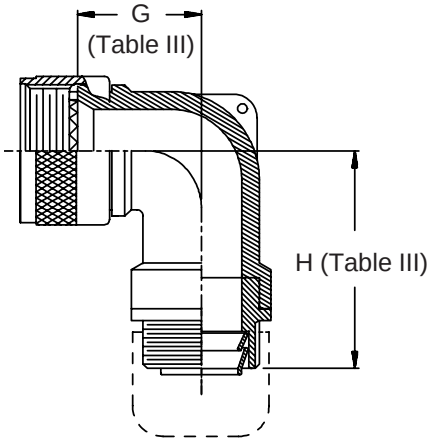


STYLE 2 (STRAIGHT See Note 1)

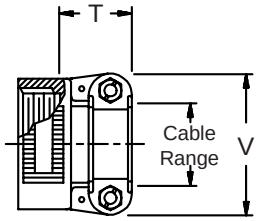


STYLE 2 (45° & 90° See Note 1)

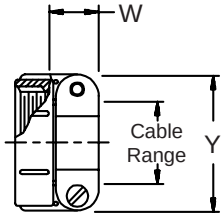




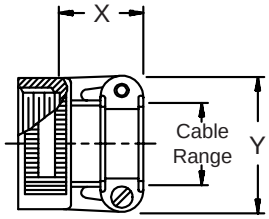
STYLE H
Heavy Duty
(Table X)



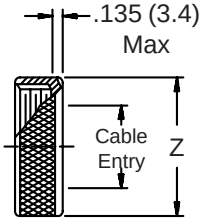
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-018
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Rotatable Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.520 (13.2)	1.680 (47.2)	.477 (12.7)	1.730 (43.9)
10	11	.615 (15.6)	1.800 (45.7)	.540 (13.7)	1.730 (43.9)
12	13	.630 (16.0)	1.820 (46.2)	.602 (15.3)	1.790 (45.5)
14	15	.720 (18.3)	1.890 (48.0)	.665 (19.6)	1.880 (47.8)
16	17	.905 (23.0)	1.980 (50.3)	.758 (19.2)	1.990 (50.5)
18	19	.995 (25.3)	2.150 (54.6)	.946 (24.0)	2.180 (55.4)
20	21	.995 (25.3)	2.150 (54.6)	.946 (24.0)	2.180 (55.4)
22	23	1.145 (29.1)	2.260 (57.4)	1.040 (26.4)	2.330 (59.2)
24	25	1.145 (29.1)	2.260 (57.4)	1.040 (26.4)	2.330 (59.2)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-018
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Rotatable Coupling - Full Radius Profile

CONNECTOR DESIGNATORS

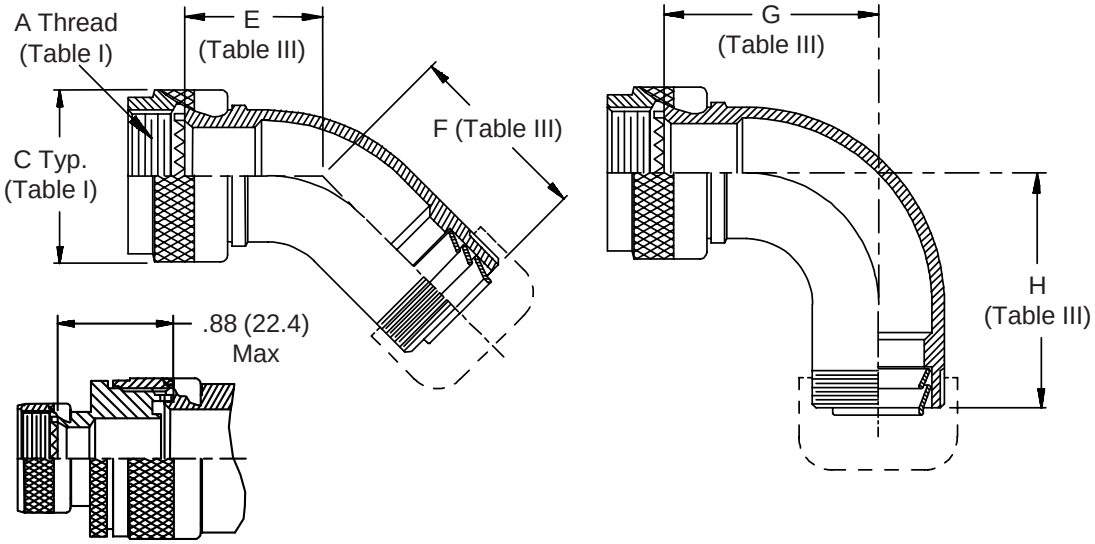
A-F-H-L-S

ROTATABLE COUPLING

TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

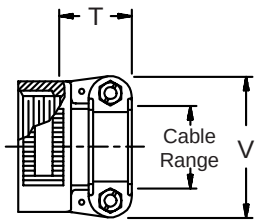
380 F N 018 M 24 12 D A

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 38-84 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Termination (Note 4)
  - D = 2 Rings
  - T = 3 Rings
- Strain Relief Style (H, A, M, D)

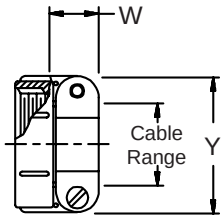


STYLE 2
(See Note 1)

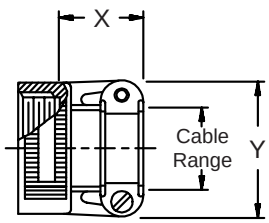
STYLE H
Heavy Duty
(Table X)



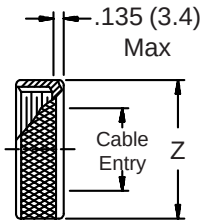
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-018
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Rotatable Coupling - Full Radius Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.807 (20.5)	.867 (22.0)	1.125 (28.6)	1.185 (30.1)
10	11	.861 (21.9)	.921 (23.4)	1.250 (31.8)	1.310 (33.3)
12	13	.911 (23.1)	.971 (24.7)	1.375 (34.9)	1.435 (36.4)
14	15	.965 (24.5)	1.025 (26.0)	1.500 (38.1)	1.560 (39.6)
16	17	1.014 (25.8)	1.074 (27.3)	1.625 (41.3)	1.685 (42.8)
18	19	1.064 (27.0)	1.124 (28.5)	1.750 (44.5)	1.810 (46.0)
20	21	1.118 (28.4)	1.178 (29.9)	1.875 (47.6)	1.935 (49.1)
22	23	1.172 (29.8)	1.232 (31.3)	2.000 (50.8)	2.060 (52.3)
24	25	1.221 (31.0)	1.281 (32.5)	2.125 (54.0)	2.185 (55.5)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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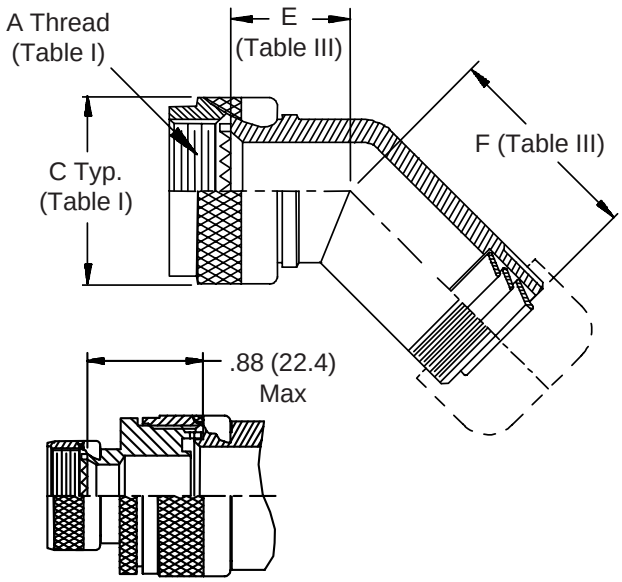
380-018
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

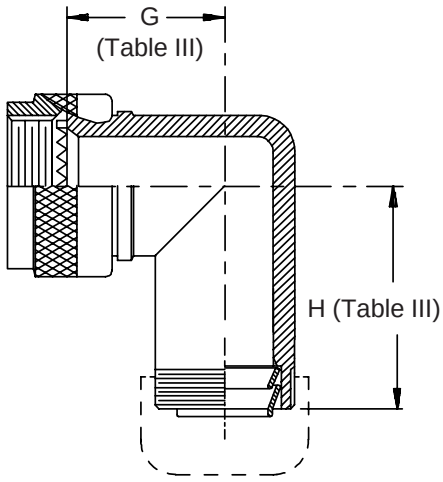
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

380 F J 018 M 24 12 D A

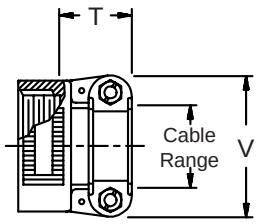
- Product Series
- Connector Designator
- Angular Function
  - H = 45°
  - J = 90°
  - See page 38-84 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Dash No. (Table X, XI)
- Termination (Note 4)
  - D = 2 Rings
  - T = 3 Rings
- Strain Relief Style (H, A, M, D)



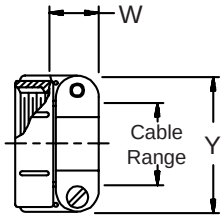
STYLE 2
(See Note 1)



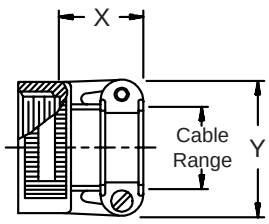
STYLE H
Heavy Duty
(Table X)



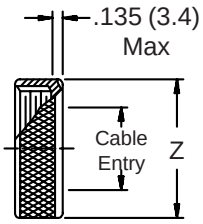
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-018
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.639 (16.2)	.950 (24.1)	.750 (19.1)	1.060 (26.9)
10	11	.664 (16.9)	.980 (24.9)	.810 (20.6)	1.120 (28.4)
12	13	.688 (17.5)	1.000 (25.4)	.870 (22.1)	1.180 (30.0)
14	15	.705 (17.9)	1.030 (26.2)	.920 (23.4)	1.250 (31.8)
16	17	.732 (18.6)	1.050 (26.7)	.980 (24.9)	1.310 (33.3)
18	19	.748 (19.0)	1.060 (26.9)	1.020 (25.9)	1.330 (33.8)
20	21	.773 (19.6)	1.080 (27.4)	1.080 (27.4)	1.390 (35.3)
22	23	.800 (20.3)	1.120 (28.4)	1.140 (29.0)	1.470 (37.3)
24	25	.823 (20.9)	1.150 (29.2)	1.200 (30.5)	1.540 (39.1)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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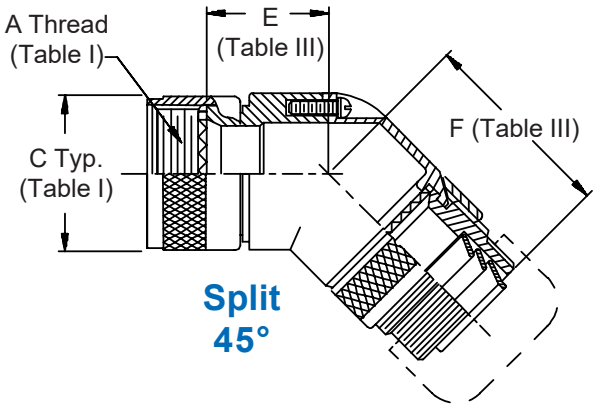
380-018
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Rotatable Coupling - Split Shell

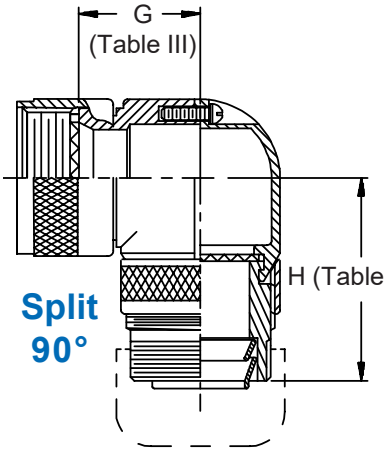
CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

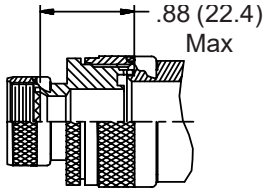
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

380 F D 018 M 24 12 D A

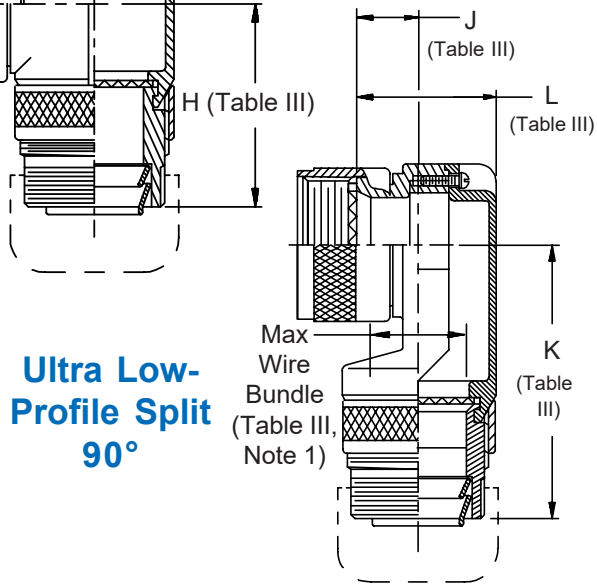
- 380 — Product Series
- F — Connector Designator
- D — Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45° (Note 4)
- 018 — Basic Part No.
- M — Finish (Table II)
- 24 — Shell Size (Table I)
- 12 — Cable Entry (Table X, XI)
- D — Termination (Note 5)
  - D = 2 Rings
  - T = 3 Rings
- A — Strain Relief Style (H, A, M, D)



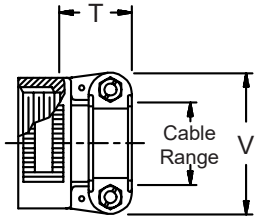




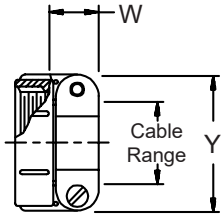
STYLE 2
(See Note 1)



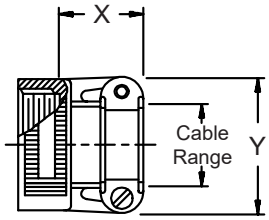
STYLE H
Heavy Duty
(Table X)



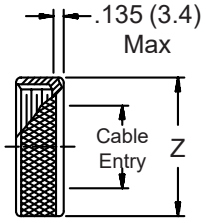
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-018
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Rotatable Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max	J Ref	K Max	L Max	Function C Max Wire Bundle
08/09	.440 (11.2)	1.590 (40.4)	.680 (17.3)	1.530 (38.9)	.340 (8.6)	1.840 (46.7)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	1.650 (41.9)	.750 (19.1)	1.590 (40.4)	.270 (6.9)	2.000 (50.8)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	1.720 (43.7)	.810 (20.6)	1.660 (42.2)	.270 (6.9)	2.000 (50.8)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	1.750 (44.5)	.870 (22.1)	1.690 (42.9)	.280 (7.1)	2.070 (52.6)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	1.850 (47.0)	.930 (23.6)	1.790 (45.5)	.420 (10.7)	2.120 (53.8)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	1.910 (48.5)	1.000 (25.4)	1.850 (47.0)	.640 (16.3)	2.150 (54.6)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	1.970 (50.0)	1.060 (26.9)	1.910 (48.5)	.640 (16.3)	2.150 (54.6)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	2.030 (51.6)	1.120 (28.4)	1.970 (50.0)	.540 (13.7)	2.300 (58.4)	1.181 (30.0)	.750 (19.1)
24/25	.940 (23.9)	2.090 (53.1)	1.180 (30.0)	2.030 (51.6)	.540 (13.7)	2.300 (58.4)	1.181 (30.0)	.750 (19.1)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable.
   Dimensions shown are not intended for inspection criteria.
4. Consult factory for available sizes of 45° (Symbol F).
5. Designate termination symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.
6. Angular function "C", low-profile split elbow, not available with "S" connector designator.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-019
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

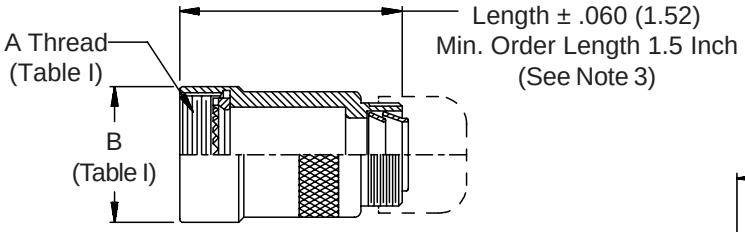
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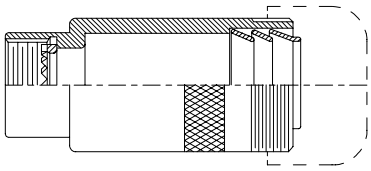
DIRECT COUPLING

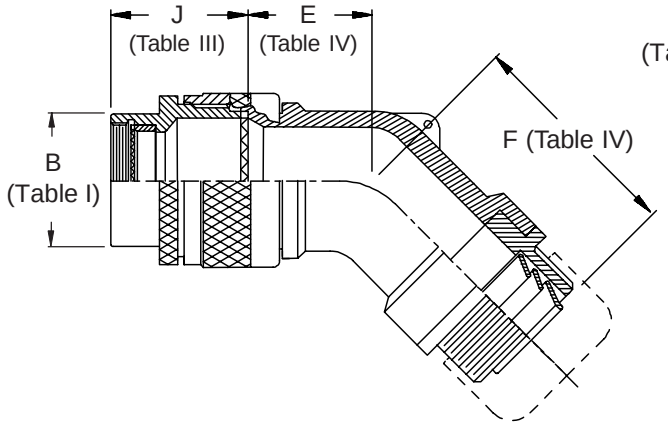
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

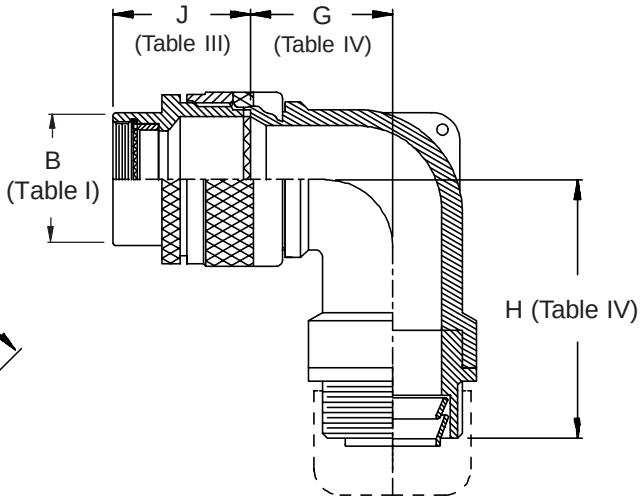
380 F S 019 M 24 12 D A 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 4)
  - D = 2 Rings
  - T = 3 Rings
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

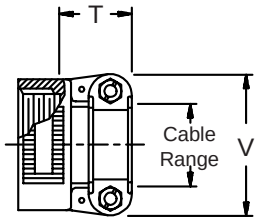




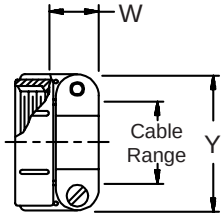




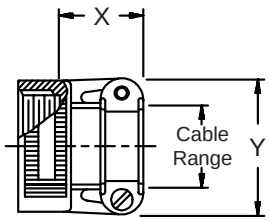
STYLE H
Heavy Duty
(Table X)



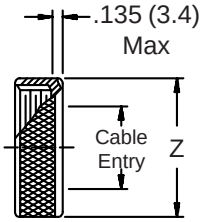
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.457 (11.6)	1.470 (37.3)	.500 (12.7)	1.480 (37.6)
04	.457 (11.6)	1.470 (37.3)	.500 (12.7)	1.480 (37.6)
06	.520 (13.2)	1.530 (38.9)	.595 (15.1)	1.600 (40.6)
08	.582 (14.8)	1.590 (40.4)	.610 (15.5)	1.620 (41.1)
10	.645 (16.4)	1.680 (42.7)	.700 (17.8)	1.690 (42.9)
12	.738 (18.7)	1.790 (45.5)	.885 (22.5)	1.950 (49.5)
16	.926 (23.5)	1.980 (50.3)	.975 (24.8)	2.060 (52.3)
20	1.020 (25.9)	2.130 (54.1)	1.125 (28.6)	2.060 (52.3)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not for inspection criteria.
3. Consult factory for shorter lengths on straight backshells.
4. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-019
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

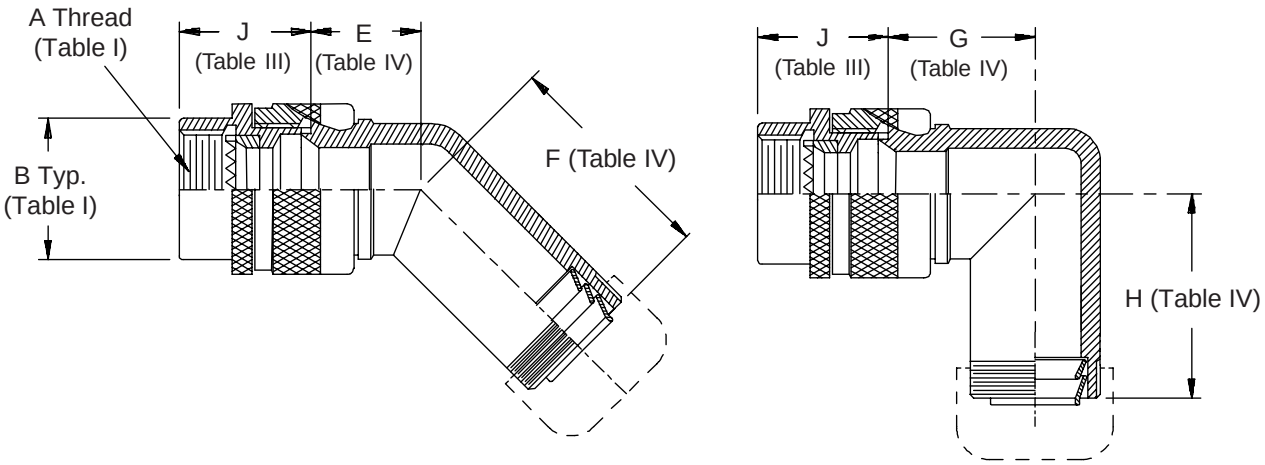
* Conn. Desig. B See Note 5

DIRECT COUPLING

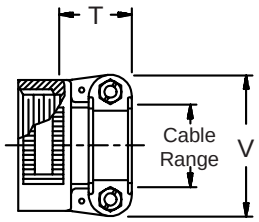
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

380 F J 019 M 24 12 D A

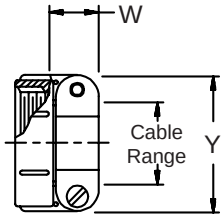
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-92 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 4)
  - D = 2 Rings
  - T = 3 Rings
- Strain Relief Style (H, A, M, D)



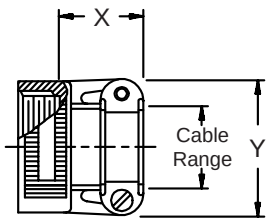
STYLE H
Heavy Duty
(Table X)



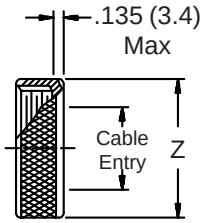
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-019
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Direct Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.639 (16.2)	.950 (24.1)	.750 (19.1)	1.060 (26.9)
04	.664 (16.9)	.980 (24.9)	.810 (20.6)	1.120 (28.4)
06	.688 (17.5)	1.000 (25.4)	.870 (22.1)	1.180 (30.0)
08	.705 (17.9)	1.030 (26.2)	.920 (23.4)	1.250 (31.8)
10	.732 (18.6)	1.050 (26.7)	.980 (24.9)	1.310 (33.3)
12	.748 (19.0)	1.060 (26.9)	1.020 (25.9)	1.330 (33.8)
16	.800 (20.3)	1.120 (28.4)	1.140 (29.0)	1.470 (37.3)
20	1.041 (26.4)	1.320 (33.5)	1.480 (37.6)	1.780 (45.2)
24	1.041 (26.4)	1.320 (33.5)	1.480 (37.6)	1.780 (45.2)
28	1.092 (27.7)	1.360 (34.5)	1.610 (40.9)	1.870 (47.5)
32	1.138 (28.9)	1.410 (35.8)	1.720 (43.7)	1.980 (50.3)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Consult factory for shorter lengths on straight backshells.
4. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-019
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Direct Coupling - Split Shell

CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

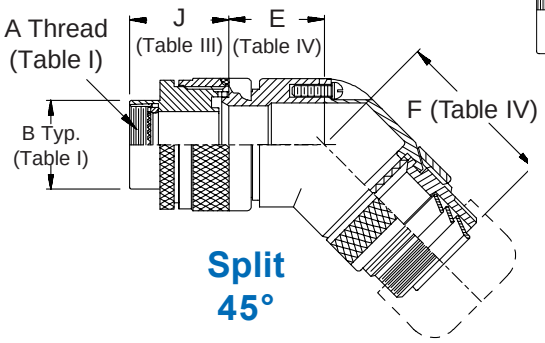
*** Conn. Desig. B See Note 6**

DIRECT COUPLING

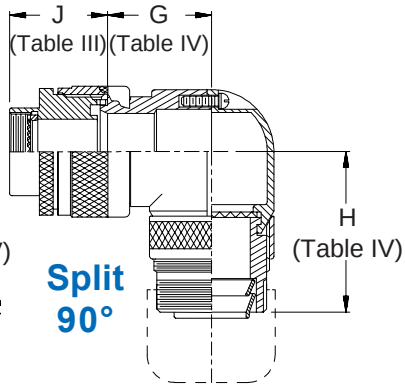
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

380 F D 019 M 24 12 D A

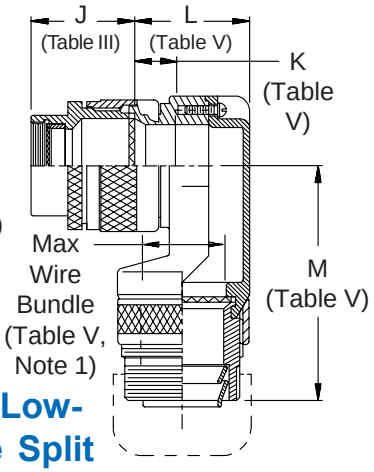
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90° (See Note 3)
  - D = Split 90°
  - F = Split 45° (Note 4)
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 5)
  - D = 2 Rings
  - T = 3 Rings
- Strain Relief Style (H, A, M, D)



Split 45°

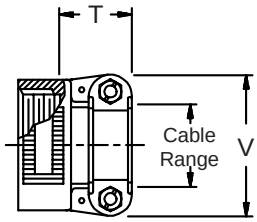


Split 90°

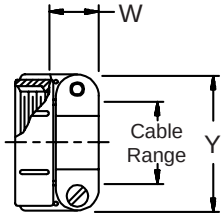


Ultra Low-Profile Split 90°

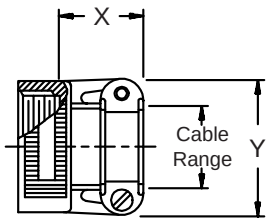
STYLE H
Heavy Duty
(Table X)



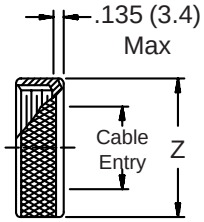
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Function C Low Profile Elbow is available in Dash Numbers 03 thru 12 only.
4. Consult factory for available sizes of 45° (Symbol F).
5. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.
6. When using Connector Designator B refer to pages 18 and 19 for part number development.

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380-019
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Direct Coupling - Split Shell

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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
03	.500	(12.7)	1.590	(40.4)	.680	(17.3)	1.530	(38.9)
04	.500	(12.7)	1.590	(40.4)	.680	(17.3)	1.530	(38.9)
06	.500	(12.7)	1.650	(41.9)	.750	(19.1)	1.590	(40.4)
08	.560	(14.2)	1.720	(43.7)	.810	(20.6)	1.660	(42.2)
10	.620	(15.7)	1.750	(44.5)	.870	(22.1)	1.690	(42.9)
12	.680	(17.3)	1.850	(47.0)	.930	(23.6)	1.790	(45.5)
16	.750	(19.1)	1.910	(48.5)	1.000	(25.4)	1.850	(47.0)
20	.820	(20.8)	1.970	(50.0)	1.060	(26.9)	1.910	(48.5)
24	.880	(22.4)	2.030	(51.6)	1.120	(28.4)	1.970	(50.0)
28	.940	(23.9)	2.090	(53.1)	1.180	(30.0)	2.030	(51.6)

TABLE V: ELBOW DIMENSIONS

Elbow Size	K Max		L Max	
03	.340	(8.6)	.681	(17.3)
04	.270	(6.9)	.731	(18.6)
06	.270	(6.9)	.731	(18.6)
08	.280	(7.1)	.831	(21.1)
10	.420	(10.7)	.981	(24.9)
12	.540	(13.7)	1.181	(30.0)

Elbow Size	M Max		Function C Max Wire Bundle	
03	1.730	(43.9)	.250	(6.4)
04	1.730	(43.9)	.375	(9.5)
06	1.890	(48.0)	.375	(9.5)
08	1.890	(48.0)	.500	(12.7)
10	1.960	(49.8)	.625	(15.9)
12	1.960	(49.8)	.750	(19.1)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE XI: CABLE ENTRYS

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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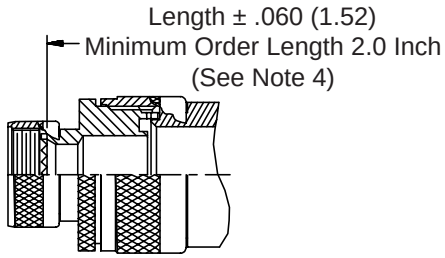
380-109
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Self-Locking - Rotatable Coupling - Full Radius

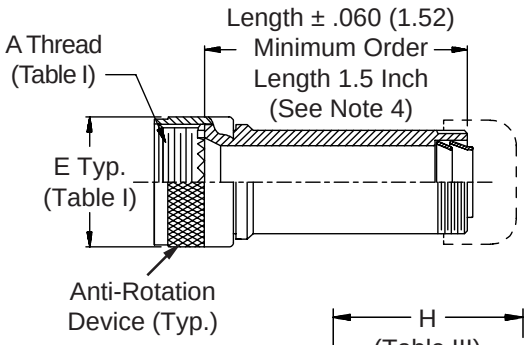
CONNECTOR DESIGNATORS
A-F-H-L-S
SELF-LOCKING
ROTATABLE COUPLING

TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

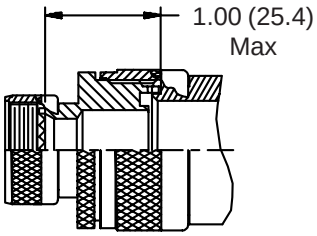
380 F S 109 M 24 12 D A 6

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 5)
  - D = 2 Rings
  - T = 3 Rings
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

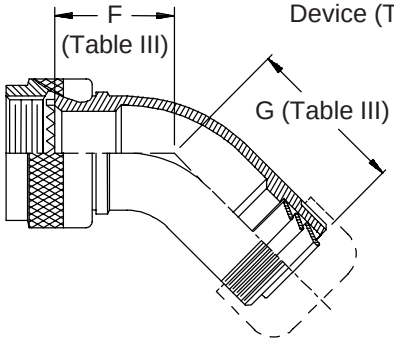


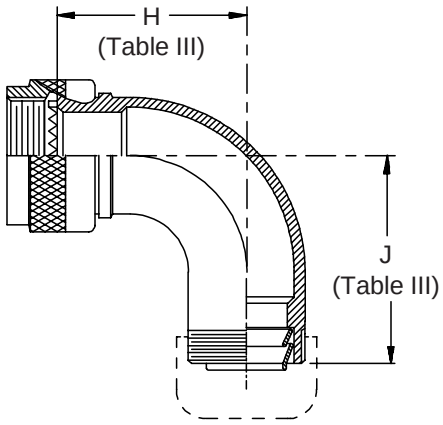


STYLE 2
(STRAIGHT
See Note 1)

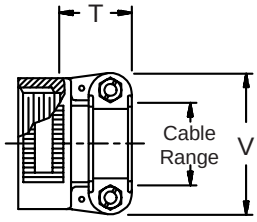


STYLE 2
(45° & 90°
See Note 1)

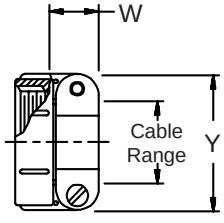




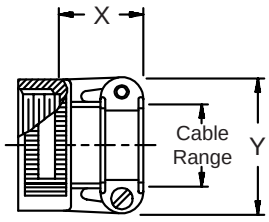
STYLE H
Heavy Duty
(Table X)



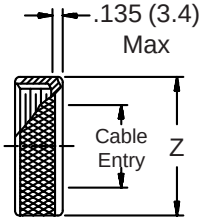
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-109
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Self-Locking - Rotatable Coupling - Full Radius

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.963	(24.5)	.867	(22.0)	1.281	(32.5)	1.185	(30.1)
10	11	1.017	(25.8)	.921	(23.4)	1.406	(35.7)	1.310	(33.3)
12	13	1.067	(27.1)	.971	(24.7)	1.531	(38.9)	1.435	(36.4)
14	15	1.121	(28.5)	1.025	(26.0)	1.656	(42.1)	1.560	(39.6)
16	17	1.170	(29.7)	1.074	(27.3)	1.781	(45.2)	1.685	(42.8)
18	19	1.220	(31.0)	1.124	(28.5)	1.906	(48.4)	1.810	(46.0)
20	21	1.274	(32.4)	1.178	(29.9)	2.031	(51.6)	1.935	(49.1)
22	23	1.328	(33.7)	1.262	(32.1)	2.156	(54.8)	2.060	(52.3)
24	25	1.377	(35.0)	1.281	(32.5)	2.281	(57.9)	2.185	(55.5)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-109
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Self-Locking - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-F-H-L-S

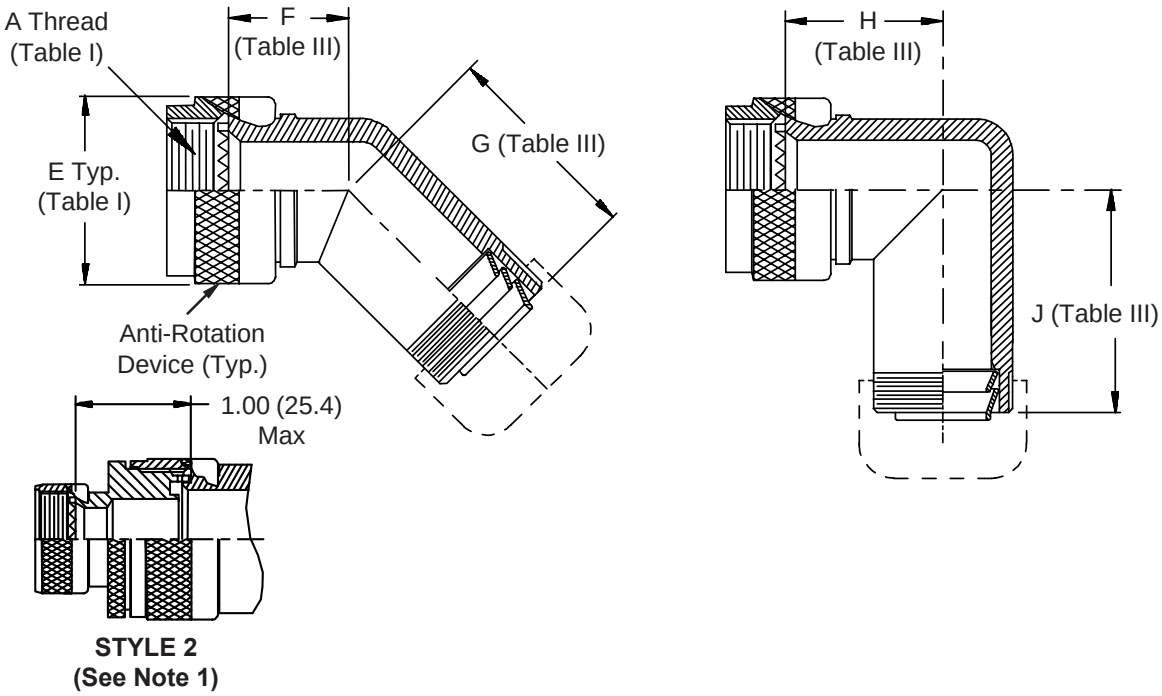
SELF-LOCKING

ROTATABLE COUPLING

TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

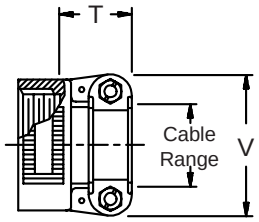
380 F J 109 M 24 12 D A

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-98 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 4)
  - D = 2 Rings
  - T = 3 Rings
- Strain Relief Style (H, A, M, D)

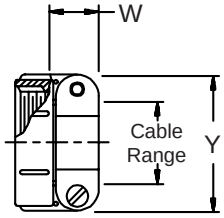


STYLE 2
(See Note 1)

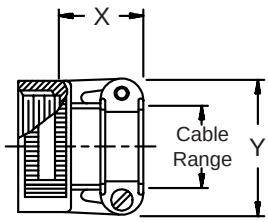
STYLE H
Heavy Duty
(Table X)



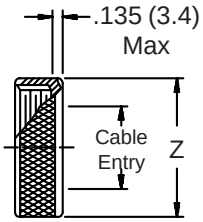
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-109
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Self-Locking - Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
08	09	.795 (20.2)	.950 (24.1)	.906 (23.0)	1.060 (26.9)
10	11	.820 (20.8)	.980 (24.9)	.966 (24.5)	1.120 (28.4)
12	13	.844 (21.4)	1.000 (25.4)	1.026 (26.1)	1.180 (30.0)
14	15	.861 (21.9)	1.030 (26.2)	1.076 (27.3)	1.250 (31.8)
16	17	.888 (22.6)	1.050 (26.7)	1.136 (28.9)	1.310 (33.3)
18	19	.904 (23.0)	1.060 (26.9)	1.176 (29.9)	1.330 (33.8)
20	21	.929 (23.6)	1.080 (27.4)	1.236 (31.4)	1.390 (35.3)
22	23	.956 (24.3)	1.120 (28.4)	1.296 (32.9)	1.470 (37.3)
24	25	.979 (24.9)	1.150 (29.2)	1.356 (34.4)	1.540 (39.1)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-109
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Self-Locking - Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS

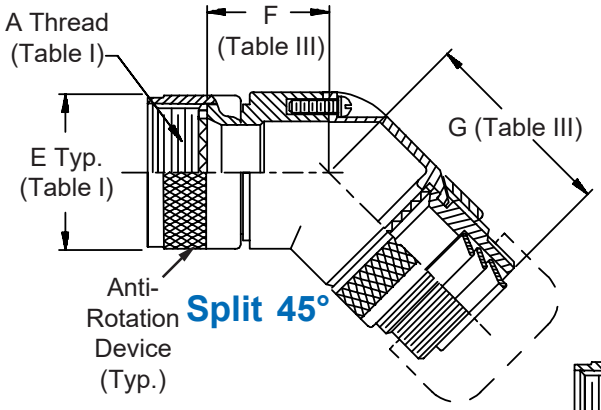
A-F-H-L-S

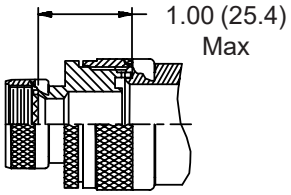
SELF-LOCKING ROTATABLE COUPLING

TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

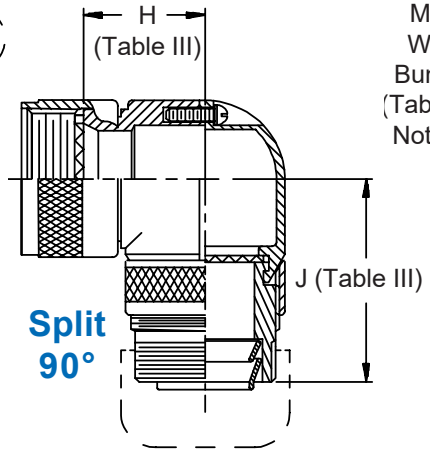
380 F D 109 M 24 12 D A

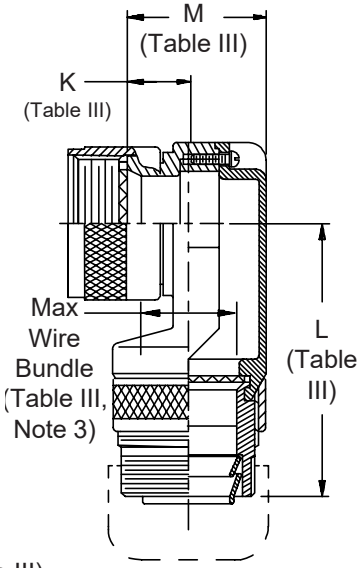
- 380 — Product Series
- F — Connector Designator
- D — Angle and Profile
  - C = Ultra Low Split 90°
  - D = Split 90°
  - F = Split 45° (Note 4)
- 109 — Basic Part No.
- M — Finish (Table II)
- 24 — Shell Size (Table I)
- 12 — Cable Entry (Tables X, XI)
- D — Termination (Note 5)
  - D = 2 Rings
  - T = 3 Rings
- A — Strain Relief Style (H, A, M, D)



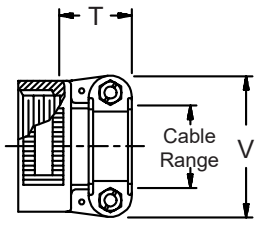


STYLE 2
(See Note 1)

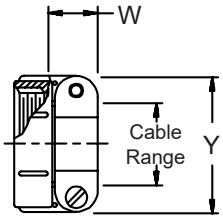




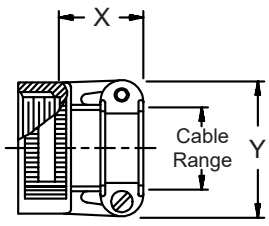
STYLE H
Heavy Duty
(Table X)



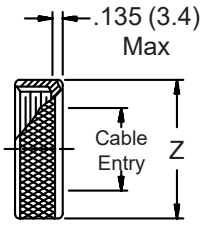
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-109
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type E - Self-Locking - Rotatable Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	F Max	G Max	H Max	J Ref	K Max	L Max	M Max	Function C Max Wire Bundle
08/09	.596 (15.1)	1.590 (40.4)	.836 (21.2)	1.530 (38.9)	.496 (12.6)	1.780 (45.2)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	1.650 (41.9)	.906 (23.0)	1.590 (40.4)	.426 (10.8)	1.940 (49.3)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	1.720 (43.7)	.966 (24.5)	1.660 (42.2)	.426 (10.8)	1.940 (49.3)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	1.750 (44.5)	1.026 (26.1)	1.690 (42.9)	.436 (11.1)	2.010 (51.1)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	1.850 (47.0)	1.086 (27.6)	1.790 (45.5)	.576 (14.6)	2.060 (52.3)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	1.910 (48.5)	1.156 (29.4)	1.850 (47.0)	.796 (20.2)	2.090 (53.1)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	1.970 (50.0)	1.216 (30.9)	1.910 (48.5)	.796 (20.2)	2.090 (53.1)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	2.030 (51.6)	1.276 (32.4)	1.970 (50.0)	.696 (17.7)	2.240 (56.9)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.090 (53.1)	1.336 (33.9)	2.030 (51.6)	.696 (17.7)	2.240 (56.9)	1.337 (34.0)	.750 (19.1)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for available sizes of 45° (Symbol F).
5. Designate termination symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.
6. Angular function "C", low-profile split elbow, not available with "S" connector designator.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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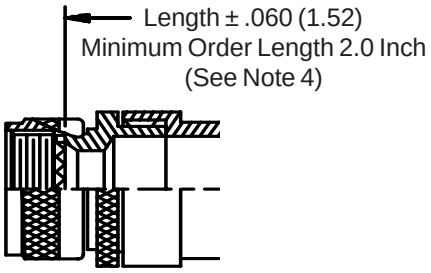
380-103
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Rotatable Coupling - Low Profile

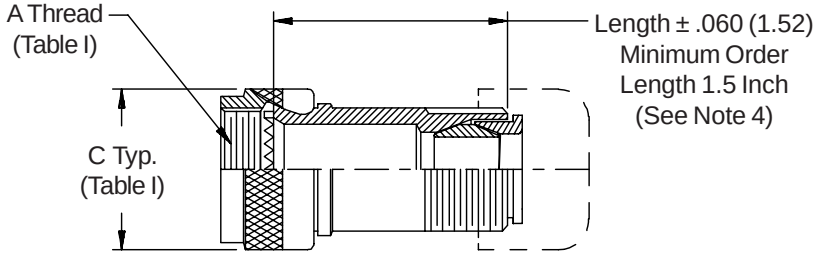
CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

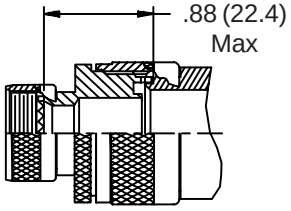
380 F S 103 M 16 08 A 6

- Product Series
- Connector Designator
- Angular Function
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Dash No. (Table X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

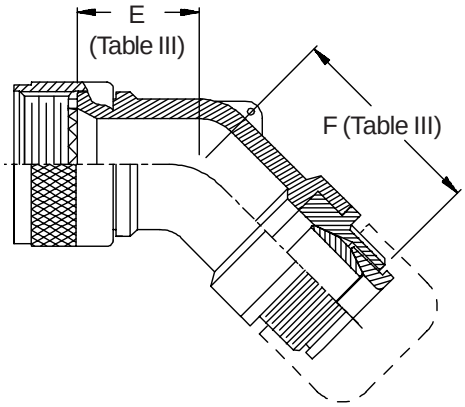


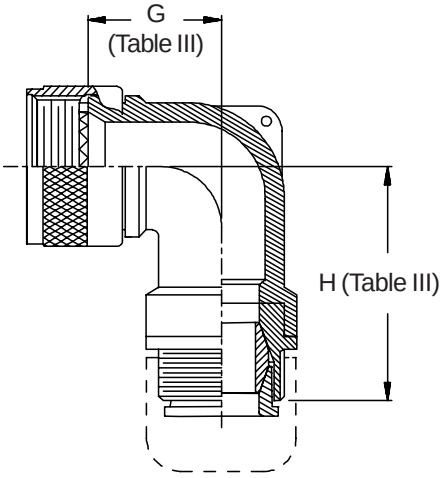


STYLE 2
(STRAIGHT
See Note 1)

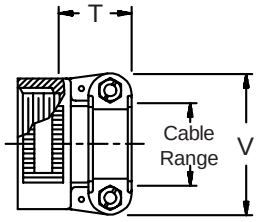


STYLE 2
(45° & 90°
See Note 1)

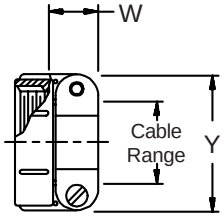




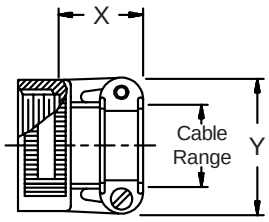
STYLE H
Heavy Duty
(Table X)



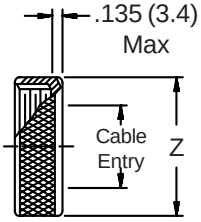
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-103
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Rotatable Coupling - Low Profile

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.602	(40.7)	.500	(12.7)	1.612	(40.9)
10	11	.520	(13.2)	1.662	(42.2)	.595	(15.1)	1.732	(44.0)
12	13	.582	(14.8)	1.722	(43.7)	.610	(15.5)	1.752	(44.5)
14	15	.645	(16.4)	2.062	(52.4)	.700	(17.8)	2.072	(52.6)
16	17	.738	(18.7)	2.172	(55.2)	.885	(22.5)	2.162	(54.9)
18	19	.926	(23.5)	2.362	(60.0)	.975	(24.8)	2.332	(59.2)
20	21	.926	(23.5)	2.362	(60.0)	.975	(24.8)	2.332	(59.2)
22	23	1.020	(25.9)	2.512	(63.8)	1.125	(28.6)	2.442	(62.0)
24	25	1.020	(25.9)	2.512	(63.8)	1.125	(28.6)	2.442	(62.0)
28		1.145	(29.1)	2.562	(65.1)	1.225	(31.1)	2.612	(66.3)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)

* Not available in Style M clamp.

** Not Applicable Style D

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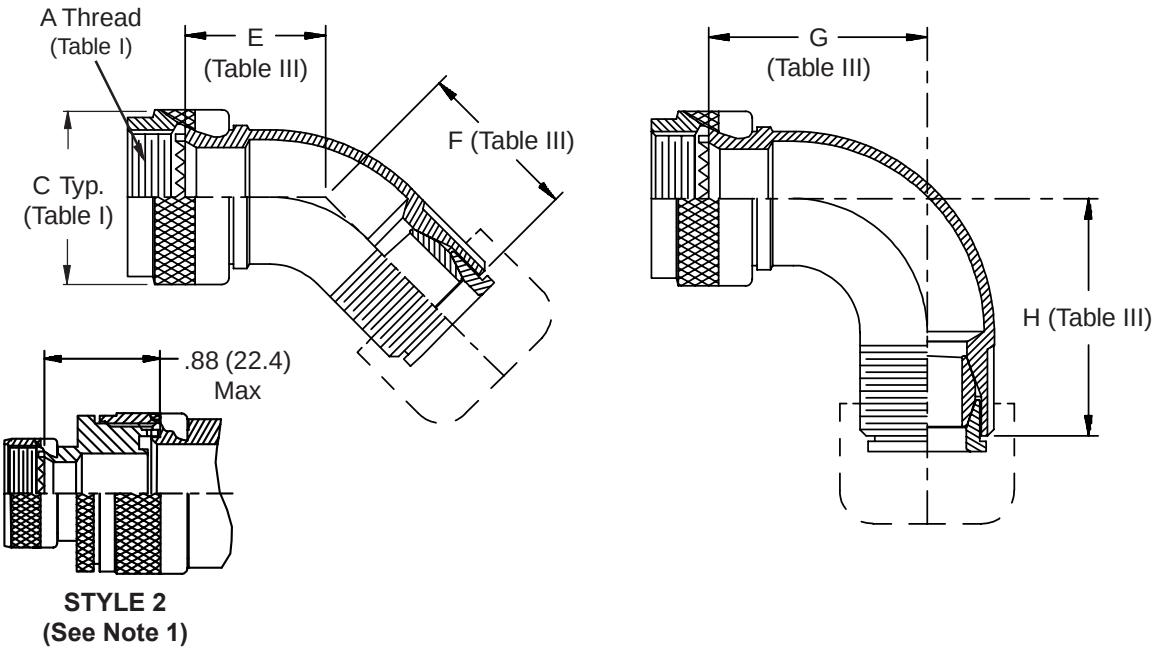
380-103
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Rotatable Coupling - Full Radius Profile

CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

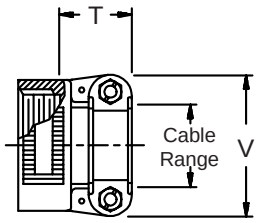
380 F N 103 M 16 08 A

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 38-104 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)

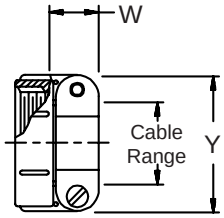


STYLE 2
(See Note 1)

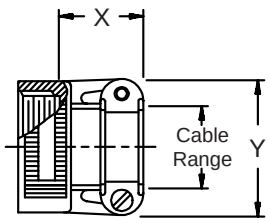
STYLE H
Heavy Duty
(Table X)



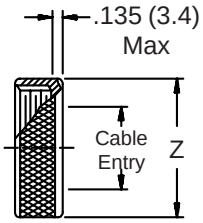
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-103
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Rotatable Coupling - Full Radius Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.812	(20.6)	.875	(22.2)	1.125	(28.6)	1.188	(30.2)
10	11	.875	(22.2)	.938	(23.8)	1.250	(31.8)	1.312	(33.3)
12	13	.938	(23.8)	1.000	(25.4)	1.375	(34.9)	1.438	(36.5)
14	15	1.000	(25.4)	1.062	(27.0)	1.500	(38.1)	1.562	(39.7)
16	17	1.062	(27.0)	1.125	(28.6)	1.625	(41.3)	1.688	(42.9)
18	19	1.094	(27.8)	1.156	(29.4)	1.750	(44.5)	1.812	(46.0)
20	21	1.156	(29.4)	1.219	(31.0)	1.875	(47.6)	1.938	(49.2)
22	23	1.188	(30.2)	1.250	(31.8)	2.000	(50.8)	2.062	(52.4)
24	25	1.250	(31.8)	1.312	(33.3)	2.125	(54.0)	2.188	(55.6)
28		1.344	(34.1)	1.625	(41.3)	2.375	(60.3)	2.625	(66.7)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-103
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

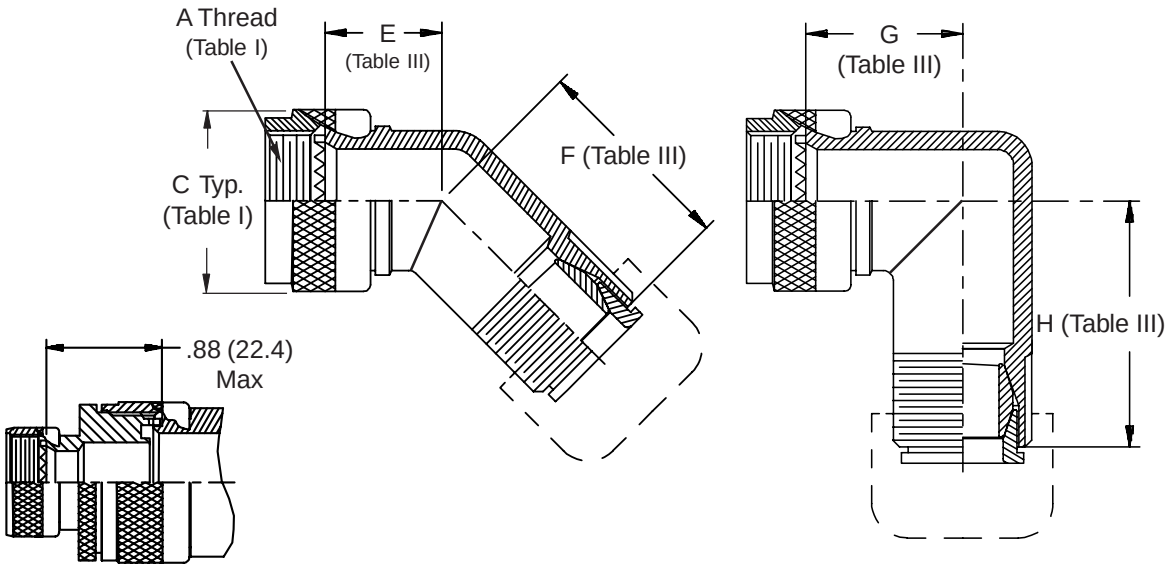
A-F-H-L-S

ROTATABLE COUPLING

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

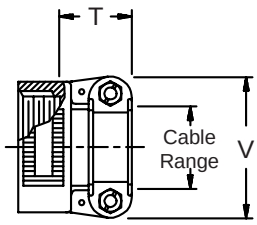
380 F H 103 M 16 08 A

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-104 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)

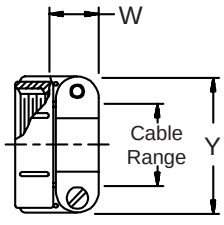


STYLE 2
(See Note 1)

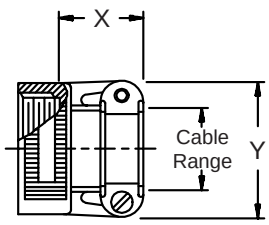
STYLE H
Heavy Duty
(Table X)



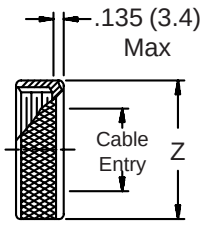
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-103
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Rotatable Coupling - Standard Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	1.015	(25.8)	.750	(19.1)	1.125	(28.6)
10	11	.664	(16.9)	1.045	(26.5)	.810	(20.6)	1.185	(30.1)
12	13	.688	(17.5)	1.065	(27.1)	.870	(22.1)	1.245	(31.6)
14	15	.705	(17.9)	1.095	(27.8)	.920	(23.4)	1.315	(33.4)
16	17	.732	(18.6)	1.115	(28.3)	.980	(24.9)	1.375	(34.9)
18	19	.748	(19.0)	1.125	(28.6)	1.020	(25.9)	1.395	(35.4)
20	21	.773	(19.6)	1.145	(29.1)	1.080	(27.4)	1.445	(36.7)
22	23	.800	(20.3)	1.185	(30.1)	1.140	(29.0)	1.535	(39.0)
24	25	.823	(20.9)	1.215	(30.9)	1.200	(30.5)	1.605	(40.8)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. -445 modification not available for MIL-DTL-38999 Series II.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-103
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS

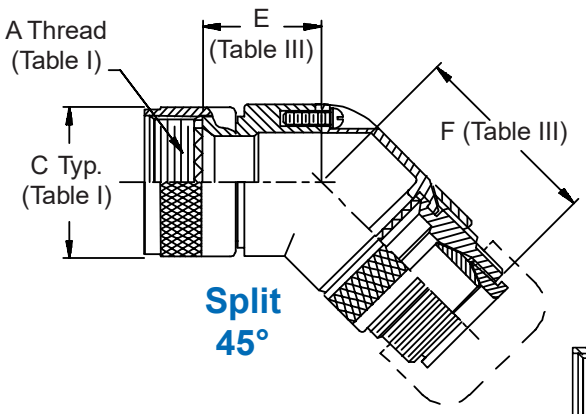
A-F-H-L-S

ROTATABLE COUPLING

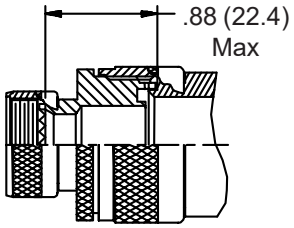
TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

380 F D 103 M 24 12 A

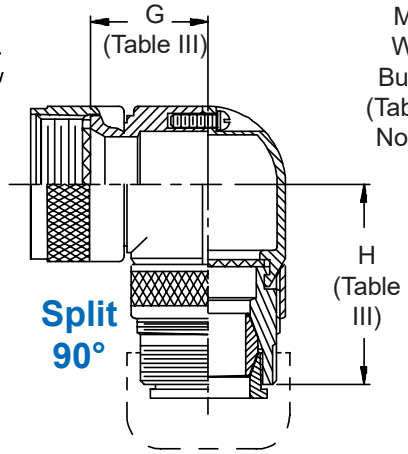
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45° (Note 4)
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)



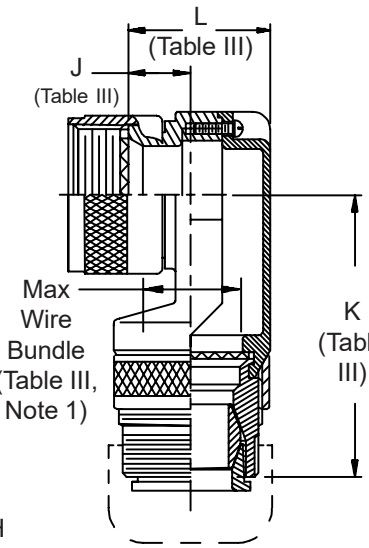
Split 45°



STYLE 2
(See Note 1)

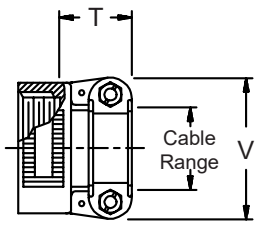


Split 90°

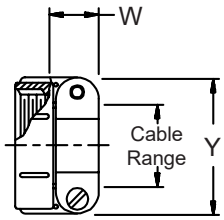


Ultra Low-Profile Split 90°

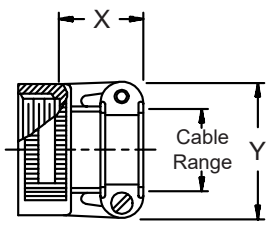
STYLE H
Heavy Duty
(Table X)



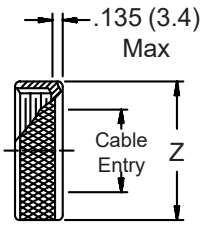
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-103
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Rotatable Coupling - Split Shell

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TABLE III: ELBOW DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max	J Ref	K Max	L Max	Finction C Max Wire Bundle
08/09	.440 (11.2)	1.590 (40.4)	.680 (17.3)	1.530 (38.9)	.340 (8.6)	1.780 (45.2)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	1.650 (41.9)	.750 (19.1)	1.590 (40.4)	.270 (6.9)	1.940 (49.3)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	1.720 (43.7)	.810 (20.6)	1.660 (42.2)	.270 (6.9)	1.940 (49.3)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	1.750 (44.5)	.870 (22.1)	1.690 (42.9)	.280 (7.1)	2.010 (51.1)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	1.850 (47.0)	.930 (23.6)	1.790 (45.5)	.420 (10.7)	2.060 (52.3)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	1.910 (48.5)	1.000 (25.4)	1.850 (47.0)	.640 (16.3)	2.090 (53.1)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	1.970 (50.0)	1.060 (26.9)	1.910 (48.5)	.640 (16.3)	2.090 (53.1)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	2.030 (51.6)	1.120 (28.4)	1.970 (50.0)	.540 (13.7)	2.240 (56.9)	1.181 (30.0)	.750 (19.1)
24/25	.940 (23.9)	2.090 (53.1)	1.180 (30.0)	2.030 (51.6)	.540 (13.7)	2.240 (56.9)	1.181 (30.0)	.750 (19.1)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for available sizes of 45° (Function F).
5. Angular function "C", low-profile split elbow, not available with "S" connector designator.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-104
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

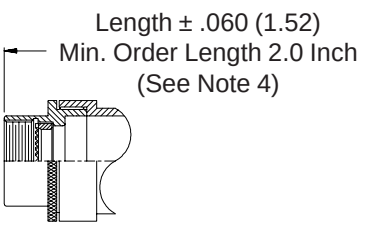
*** Conn. Desig. B See Note 5**

DIRECT COUPLING

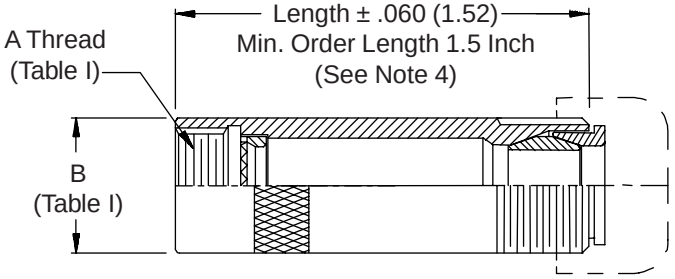
TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

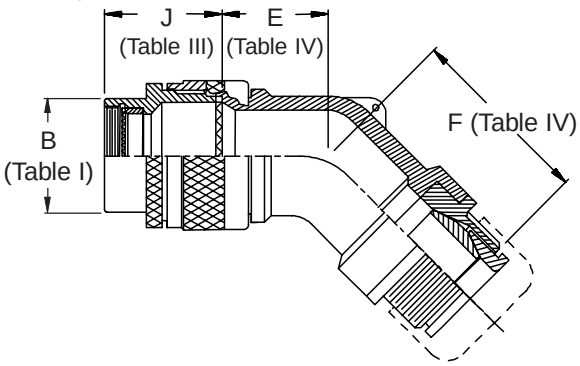
380 F S 104 M 16 08 A 6

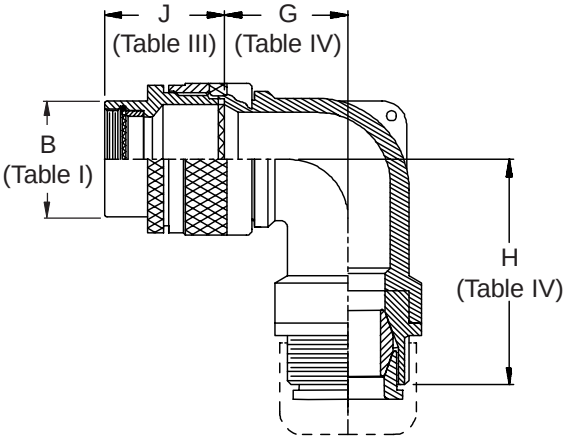
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



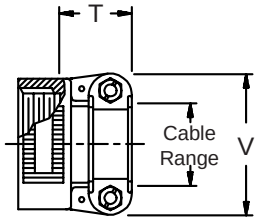
STYLE 2 (STRAIGHT See Note 1)



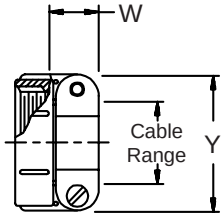




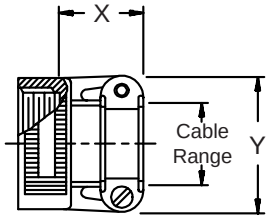
STYLE H
Heavy Duty
(Table X)



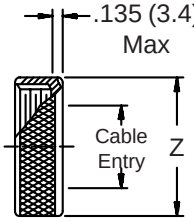
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-104
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Direct Coupling - Low Profile

Glenair®

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.457 (11.6)	1.602 (40.7)	.500 (12.7)	1.612 (40.9)
04	.457 (11.6)	1.662 (42.2)	.500 (12.7)	1.732 (44.0)
06	.520 (13.2)	1.722 (43.7)	.595 (15.1)	1.752 (44.5)
08	.582 (14.8)	2.062 (52.4)	.610 (15.5)	2.072 (52.6)
10	.645 (16.4)	2.172 (55.2)	.700 (17.8)	2.162 (54.9)
12	.738 (18.7)	2.362 (60.0)	.885 (22.5)	2.332 (59.2)
16	.926 (23.5)	2.362 (60.0)	.975 (24.8)	2.332 (59.2)
20	1.020 (25.9)	2.512 (63.8)	1.125 (28.6)	2.442 (62.0)
24	1.145 (29.1)	2.512 (63.8)	1.225 (31.1)	2.442 (62.0)
28	1.207 (30.7)	2.562 (65.1)	1.575 (40.0)	2.612 (66.3)
32	1.238 (31.4)	2.662 (67.6)	1.775 (45.1)	2.862 (72.7)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)

* Not available in Style M clamp.

** Not Applicable Style D

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380-104
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

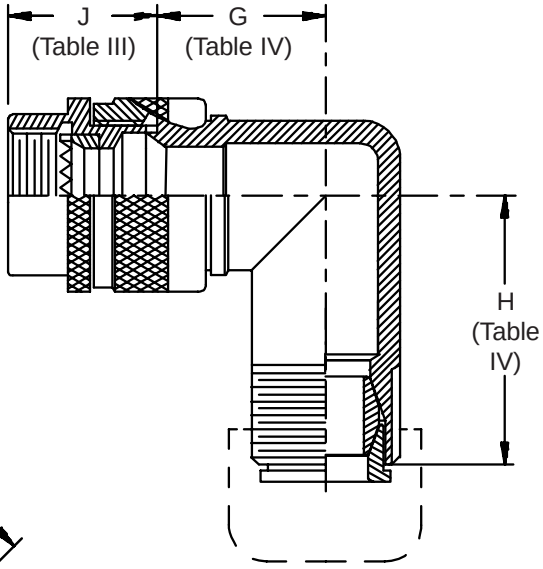
*** Conn. Desig. B See Note 3**

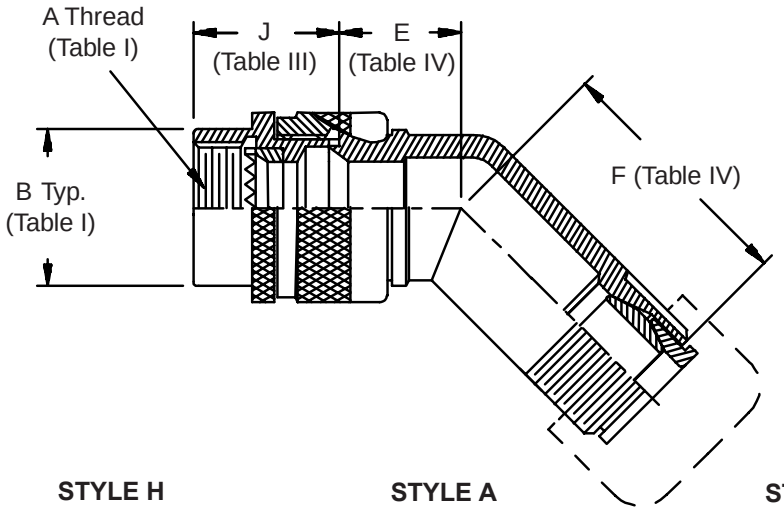
DIRECT COUPLING

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

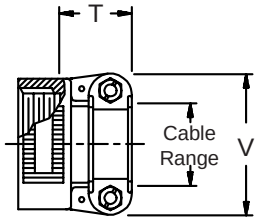
380 F H 104 M 16 08 A

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-112 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)

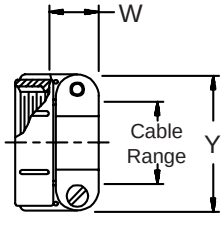




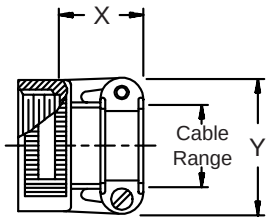
STYLE H
Heavy Duty
(Table X)



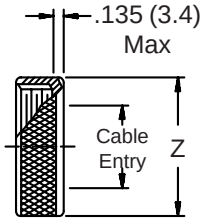
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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with Strain Relief
Type F - Direct Coupling - Standard Profile

Glenair®

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.664 (16.9)	.982 (24.9)	.810 (20.6)	1.122 (28.5)
04	.688 (17.5)	1.002 (25.5)	.870 (22.1)	1.182 (30.0)
06	.705 (17.9)	1.032 (26.2)	.920 (23.4)	1.252 (31.8)
08	.732 (18.6)	1.052 (26.7)	.980 (24.9)	1.312 (33.3)
10	.732 (18.6)	1.052 (26.7)	.980 (24.9)	1.312 (33.3)
12	.773 (19.6)	1.082 (27.5)	1.080 (27.4)	1.392 (35.4)
16	.823 (20.9)	1.152 (29.3)	1.200 (30.5)	1.542 (39.2)
20	1.041 (26.4)	1.322 (33.6)	1.480 (37.6)	1.782 (45.3)
24	1.092 (27.7)	1.362 (34.6)	1.610 (40.9)	1.872 (47.5)
28	1.138 (28.9)	1.412 (35.9)	1.720 (43.7)	1.982 (50.3)
32	1.184 (30.1)	1.452 (36.9)	1.830 (46.5)	2.092 (53.1)
40	1.287 (32.7)	1.552 (39.4)	2.080 (52.8)	2.342 (59.5)

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-104
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Direct Coupling - Split Shell

CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

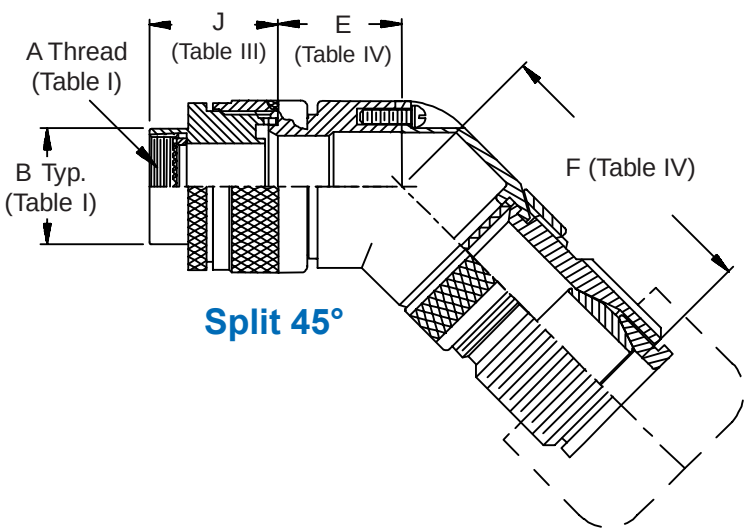
* Conn. Desig. B See Note 3

DIRECT COUPLING

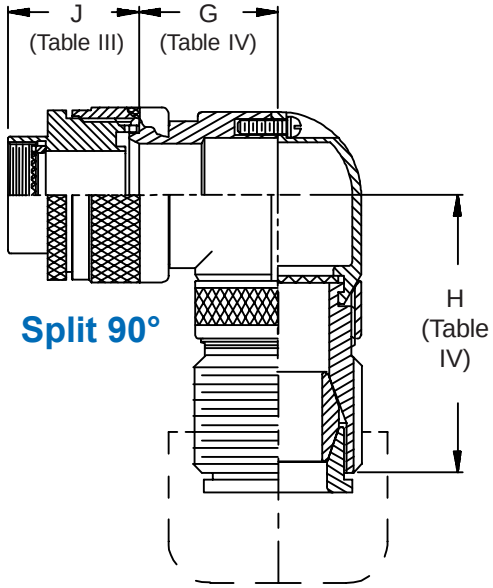
TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

380 F D 104 M 16 08 A

- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)

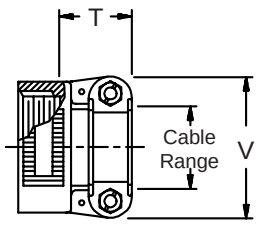


Split 45°

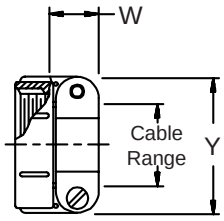


Split 90°

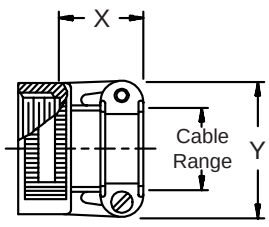
STYLE H
Heavy Duty
(Table X)



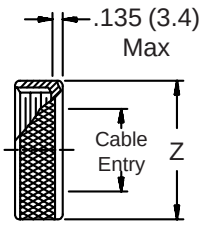
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-104
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Direct Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.500 (12.7)	1.650 (41.9)	.680 (17.3)	1.530 (38.9)
04	.500 (12.7)	1.650 (41.9)	.680 (17.3)	1.530 (38.9)
06	.500 (12.7)	1.650 (41.9)	.750 (19.1)	1.590 (40.4)
08	.560 (14.2)	1.720 (43.7)	.810 (20.6)	1.660 (42.2)
10	.620 (15.7)	1.750 (44.5)	.870 (22.1)	1.690 (42.9)
12	.680 (17.3)	1.850 (47.0)	.930 (23.6)	1.790 (45.5)
16	.750 (19.1)	1.910 (48.5)	1.000 (25.4)	1.850 (47.0)
20	.820 (20.8)	1.970 (50.0)	1.060 (26.9)	1.910 (48.5)
24	.880 (22.4)	2.030 (51.6)	1.120 (28.4)	1.970 (50.0)
28	.940 (23.9)	2.090 (53.1)	1.180 (30.0)	2.030 (51.6)
32	1.030 (26.2)	2.180 (55.4)	1.340 (34.0)	2.190 (55.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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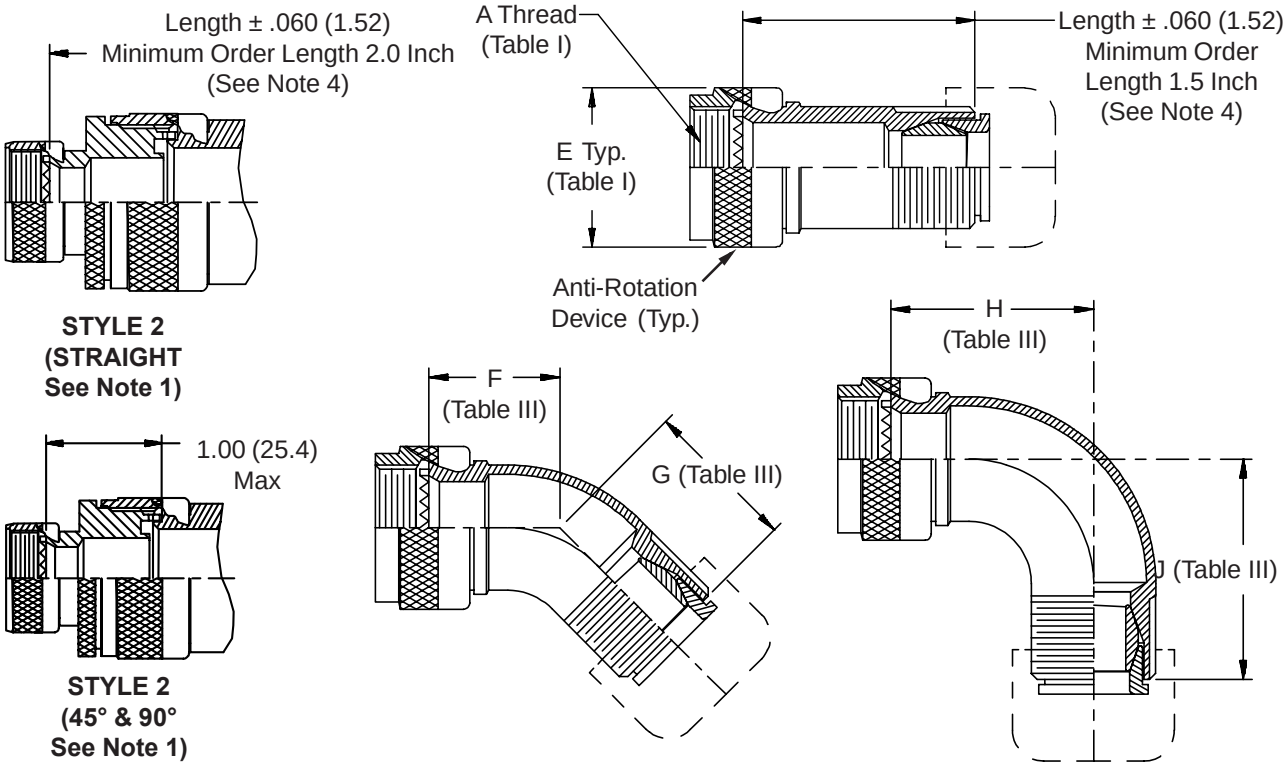
380-105
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Self-Locking - Rotatable Coupling - Full Radius Profile

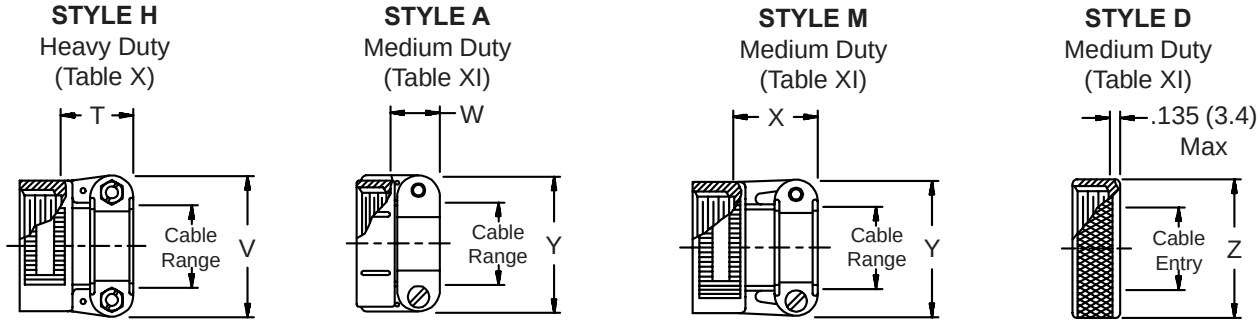
CONNECTOR DESIGNATORS
A-F-H-L-S
SELF-LOCKING
ROTATABLE COUPLING

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

380 F S 105 M 16 08 A 6

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)





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Type F - Self-Locking - Rotatable Coupling - Full Radius Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.968	(24.6)	.875	(22.2)	1.281	(32.5)	1.188	(30.2)
10	11	1.031	(26.2)	.938	(23.8)	1.406	(35.7)	1.312	(33.3)
12	13	1.094	(27.8)	1.000	(25.4)	1.531	(38.9)	1.438	(36.5)
14	15	1.156	(29.4)	1.062	(27.0)	1.656	(42.1)	1.562	(39.7)
16	17	1.219	(31.0)	1.125	(28.6)	1.781	(45.2)	1.688	(42.9)
18	19	1.250	(31.8)	1.156	(29.4)	1.906	(48.4)	1.812	(46.0)
20	21	1.312	(33.3)	1.219	(31.0)	2.031	(51.6)	1.938	(49.2)
22	23	1.344	(34.1)	1.250	(31.8)	2.156	(54.8)	2.062	(52.4)
24	25	1.406	(35.7)	1.312	(33.3)	2.281	(57.9)	2.188	(55.6)
28		1.500	(38.1)	1.625	(41.3)	2.531	(64.3)	2.625	(66.7)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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380-105
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Self-Locking - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

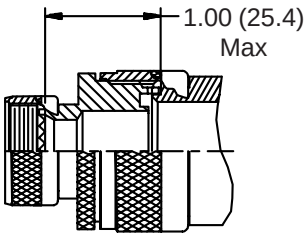
A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

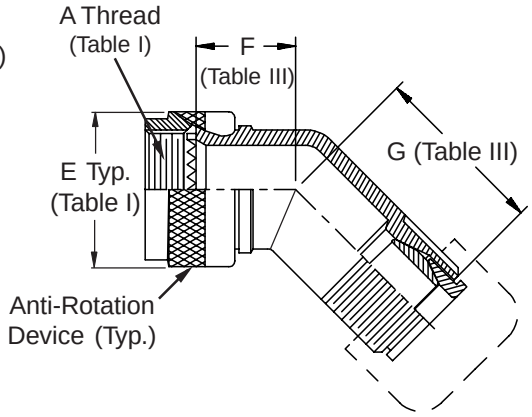
TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

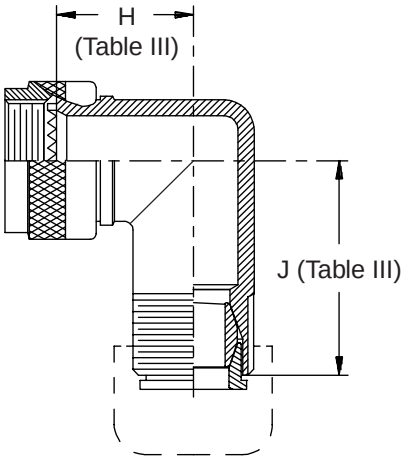
380 F H 105 M 16 08 A

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 38-118 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)

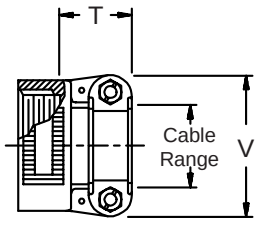


STYLE 2
(See Note 1)

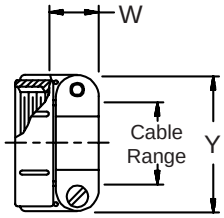




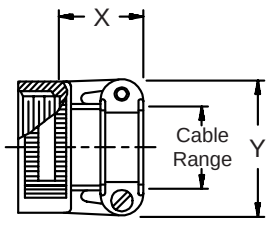
STYLE H
Heavy Duty
(Table X)



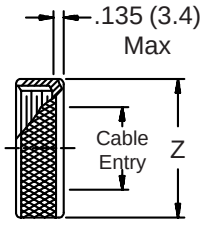
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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with Strain Relief
Type F - Self-Locking - Rotatable Coupling - Standard Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	1.015	(25.8)	.906	(23.0)	1.125	(28.6)
10	11	.820	(20.8)	1.045	(26.5)	.966	(24.5)	1.185	(30.1)
12	13	.844	(21.4)	1.065	(27.1)	1.026	(26.1)	1.245	(31.6)
14	15	.861	(21.9)	1.095	(27.8)	1.076	(27.3)	1.315	(33.4)
16	17	.888	(22.6)	1.115	(28.3)	1.136	(28.9)	1.375	(34.9)
18	19	.904	(23.0)	1.125	(28.6)	1.176	(29.9)	1.395	(35.4)
20	21	.929	(23.6)	1.145	(29.1)	1.236	(31.4)	1.445	(36.7)
22	23	.956	(24.3)	1.185	(30.1)	1.296	(32.9)	1.535	(39.0)
24	25	.979	(24.9)	1.215	(30.9)	1.356	(34.4)	1.605	(40.8)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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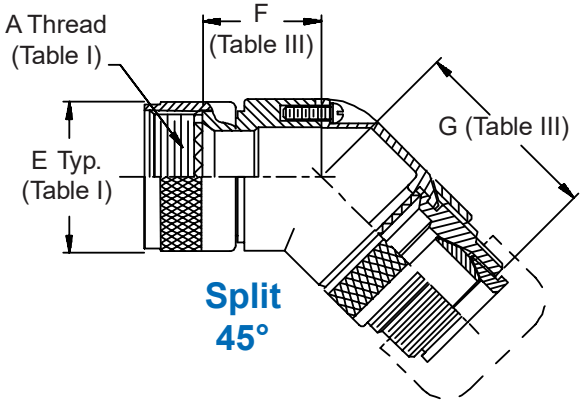
380-105
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Self-Locking - Rotatable Coupling - Split Shell

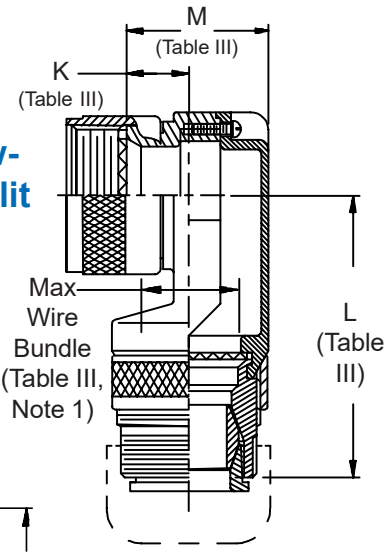
CONNECTOR DESIGNATORS
A-F-H-L-S
SELF-LOCKING
ROTATABLE COUPLING

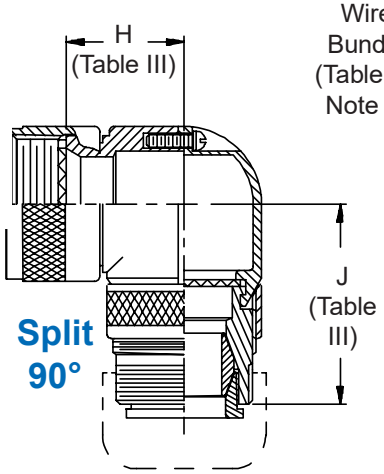
380 F D 105 M 24 12 A

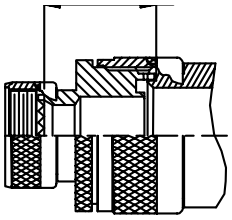
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45° (Note 4)
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION



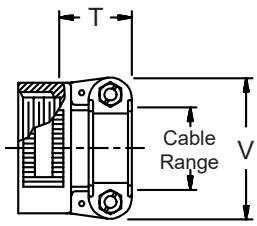




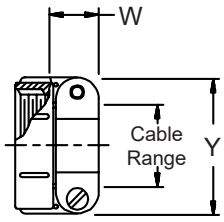


STYLE 2
(See Note 1)

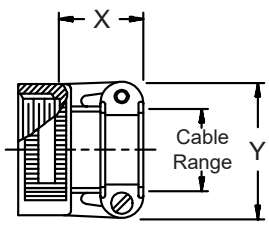
Heavy Duty
(Table X)



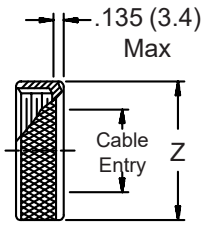
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-105
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type F - Self-Locking - Rotatable Coupling - Split Shell

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TABLE III ELBOW DIMENSIONS

Shell Size	F Max	G Max	H Max	J Max	K Ref	L Max	M Max	Function C Max Wire Bundle
08/09	.596 (15.1)	1.590 (40.4)	.836 (21.2)	1.530 (38.9)	.496 (12.6)	1.780 (45.2)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	1.650 (41.9)	.906 (23.0)	1.590 (40.4)	.426 (10.8)	1.940 (49.3)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	1.720 (43.7)	.966 (24.5)	1.660 (42.2)	.426 (10.8)	1.940 (49.3)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	1.750 (44.5)	1.026 (26.1)	1.690 (42.9)	.436 (11.1)	2.010 (51.1)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	1.850 (47.0)	1.086 (27.6)	1.790 (45.5)	.576 (14.6)	2.060 (52.3)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	1.910 (48.5)	1.156 (29.4)	1.850 (47.0)	.796 (20.2)	2.090 (53.1)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	1.970 (50.0)	1.216 (30.9)	1.910 (48.5)	.796 (20.2)	2.090 (53.1)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	2.030 (51.6)	1.276 (32.4)	1.970 (50.0)	.696 (17.7)	2.240 (56.9)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.090 (53.1)	1.336 (33.9)	2.030 (51.6)	.696 (17.7)	2.240 (56.9)	1.337 (34.0)	.750 (19.1)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

* Not available in Style M clamp.

** Not Applicable Style D

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for available sizes of 45° (Function F).
5. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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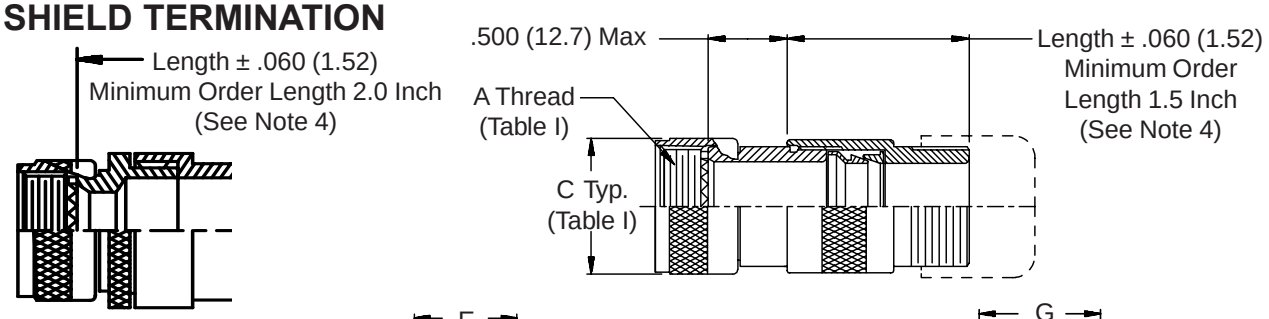
380-071
EMI/RFI Non-Environmental Backshell
with Strain Relief
Type G - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

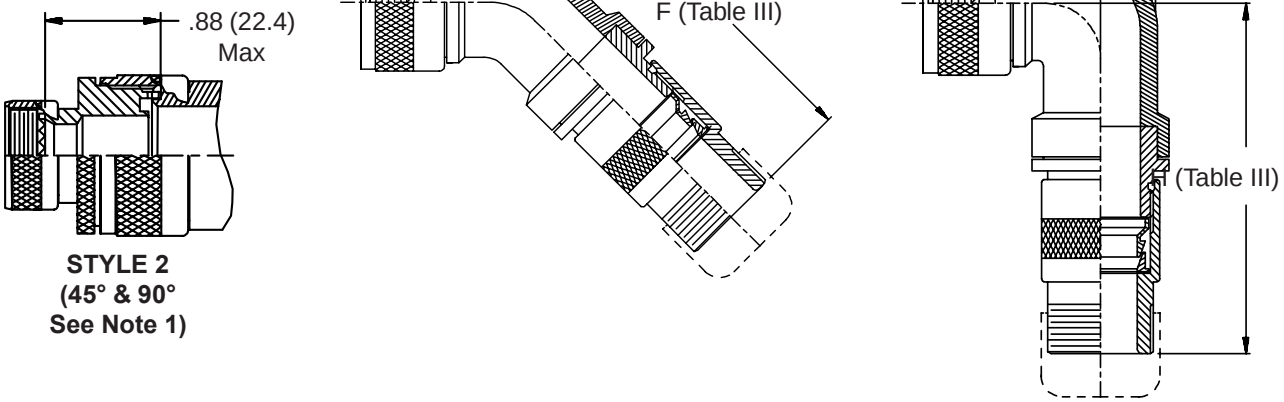
TYPE G INDIVIDUAL OR OVERALL SHIELD TERMINATION

380 F S 071 M 16 08 A 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

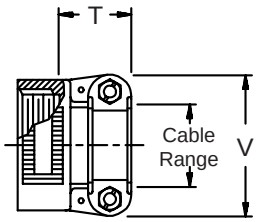


STYLE 2 (STRAIGHT See Note 1)

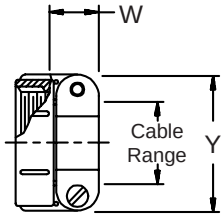


STYLE 2 (45° & 90° See Note 1)

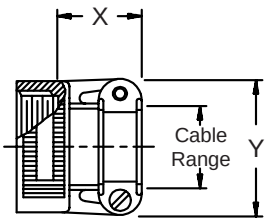
STYLE H
Heavy Duty
(Table X)



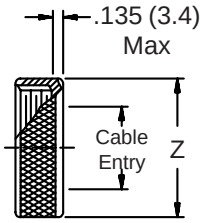
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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380-071
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with Strain Relief
Type G - Rotatable Coupling - Low Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	3.460	(87.9)	.510	(13.0)	3.460	(87.9)
10	11	.520	(13.2)	3.520	(89.4)	.595	(15.1)	3.590	(91.2)
12	13	.582	(14.8)	3.580	(90.9)	.610	(15.5)	3.610	(91.7)
14	15	.645	(16.4)	3.900	(99.1)	.700	(17.8)	3.910	(99.3)
16	17	.738	(18.7)	4.010	(101.9)	.885	(22.5)	4.000	(101.6)
18	19	.926	(23.5)	4.200	(106.7)	.975	(24.8)	4.170	(105.9)
20	21	.926	(23.5)	4.200	(106.7)	.975	(24.8)	4.170	(105.9)
22	23	1.020	(25.9)	4.350	(110.5)	1.125	(28.6)	4.280	(108.7)
24	25	1.020	(25.9)	4.350	(110.5)	1.125	(28.6)	4.280	(108.7)
28		1.145	(29.1)	4.400	(111.8)	1.225	(31.1)	4.450	(113.0)
32		1.207	(30.7)	4.500	(114.3)	1.575	(40.0)	4.700	(119.4)
36		1.238	(31.4)	4.590	(116.6)	1.775	(45.1)	4.700	(119.4)

TABLE II: STANDARD FINISHES

GLENAIR SYMBOL	FINISH
B	Cadmium Plate, Olive Drab
M	Electroless Nickel
NF	Cadmium Plate, Olive Drab Over Electroless Nickel

See Inside Back Cover for Additional Finish Options

See inside back cover fold-out or pages 13 and 14 for unabridged Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.312	(7.9)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.344	(8.7)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.562	(14.3)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.750	(19.1)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	.781	(19.8)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	.969	(24.6)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.125	(28.6)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.469	(37.3)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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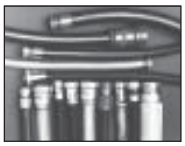
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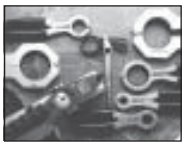

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PRODUCT FEATURES

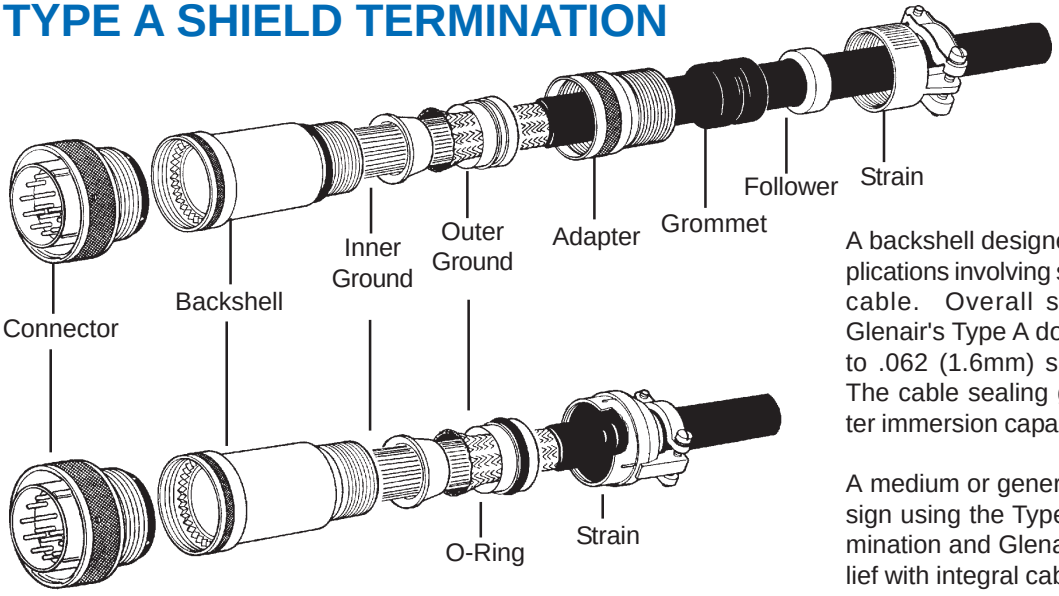
- **EMI/RFI and Environmental Backshell Designs Feature Seven Styles of Ring Type Shield Terminations for Both Overall and Individual Shields and Three Styles of Cable Sealing**
- **Rotatable, Self-Locking and Direct Coupling Styles**
- **Standard, Low Profile, Full Radius and Split Shell Designs**
- **Straight, 45° and 90° Configurations**
- **Selection of Strain-Relief Styles**

Combined environmental and EMI/RFI protection

Choose from seven termination styles and three cable sealing designs

A choice of 360° shield/screen terminations are offered in straight and angled backshells, including designs to accommodate combinations of individual or overall shields or screens. All designs included in this section provide low dc resistance across the termination area. Cable sealing options include full-immersion to 6 ft., water-tight to 3 ft. and splash-proof. To select, please review the following type descriptions and assembly instructions, or call our factory for assistance.

TYPE A SHIELD TERMINATION

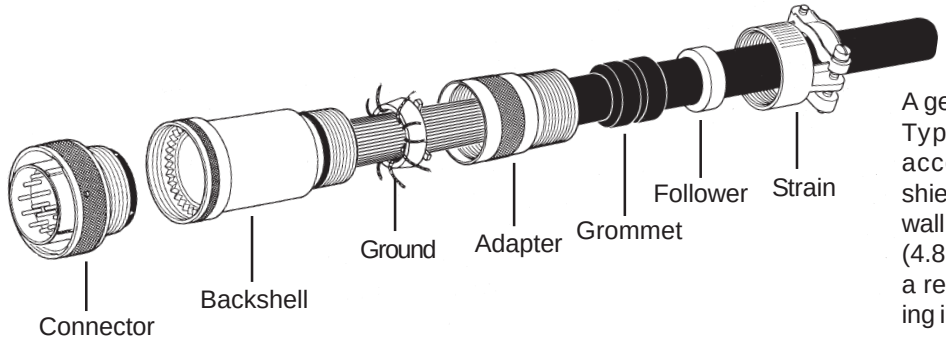


A backshell designed for heavy-duty applications involving shielded and jacketed cable. Overall shield temination is Glenair's Type A double conical ring -- 0 to .062 (1.6mm) shield wall thickness. The cable sealing grommet affords water immersion capability.

A medium or general duty backshell design using the Type A overall shield termination and Glenair's Style C strain relief with integral cable sealing grommet.

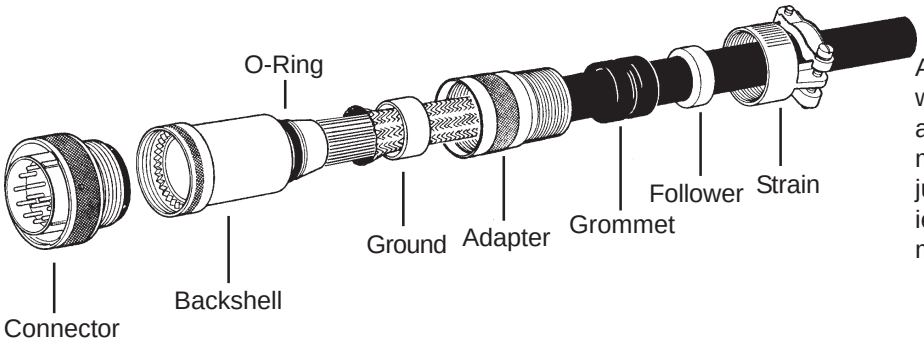
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TYPE B SHIELD TERMINATION

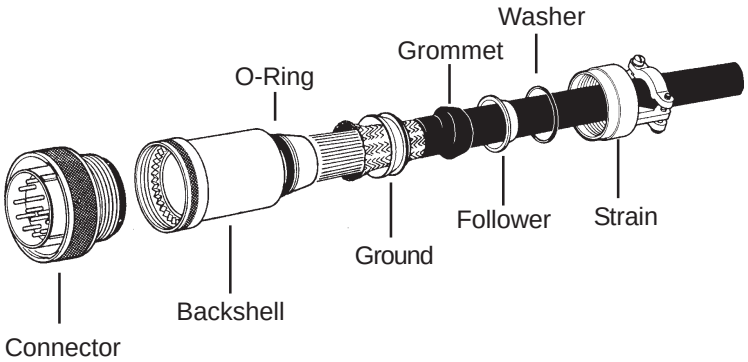


A general duty backshell, Glenair's Type B shield termination accomodates either an overall shield or individual shields. Shield wall thickness .031 (0.8 mm) to .188 (4.8 mm). This backshell also uses a resilient grommet for cable sealing in water immersion applications.

TYPE C SHIELD TERMINATION



A medium duty backshell design which utilizes Glenair's Type C overall shield termination -- 0 to 0.62 (1.6 mm) shield wall thickness -- in conjunction with a cable sealing, resilient grommet to achieve water immersion capabilities.

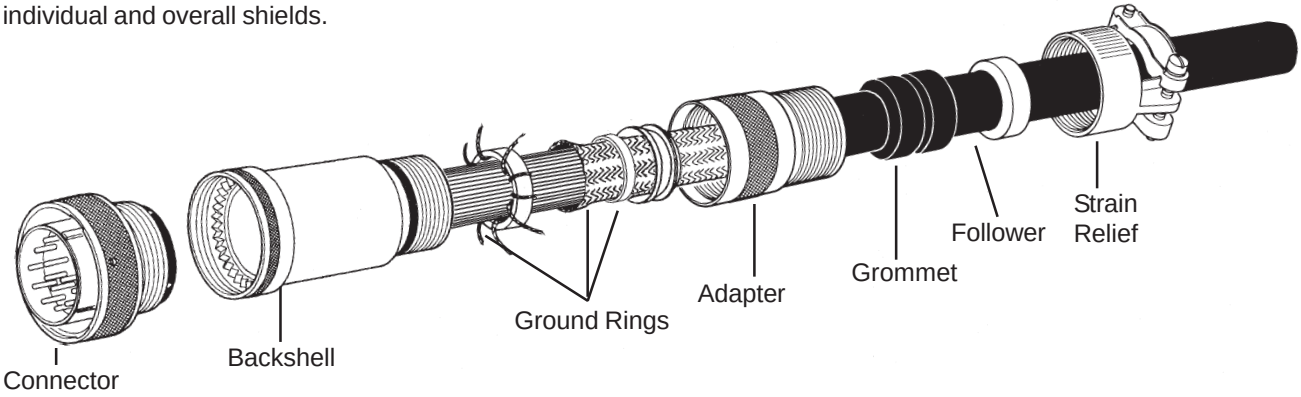


A light duty backshell using Glenair's Type C overall shield termination and light-duty environment resiting grommet for moisture or "splash-proof" sealing on jacketed cables.

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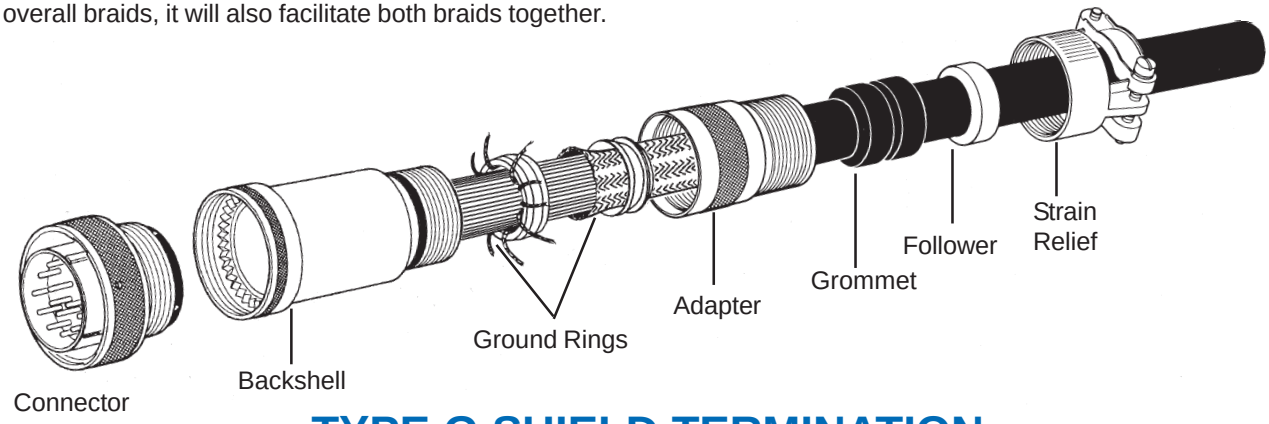
TYPE E SHIELD TERMINATION

This is a light duty termination for either overall or individual shield termination or both. Two or three ground rings are utilized, the two ring style can be used for grounding either individual or overall shields. For grounding both individual and overall shields.



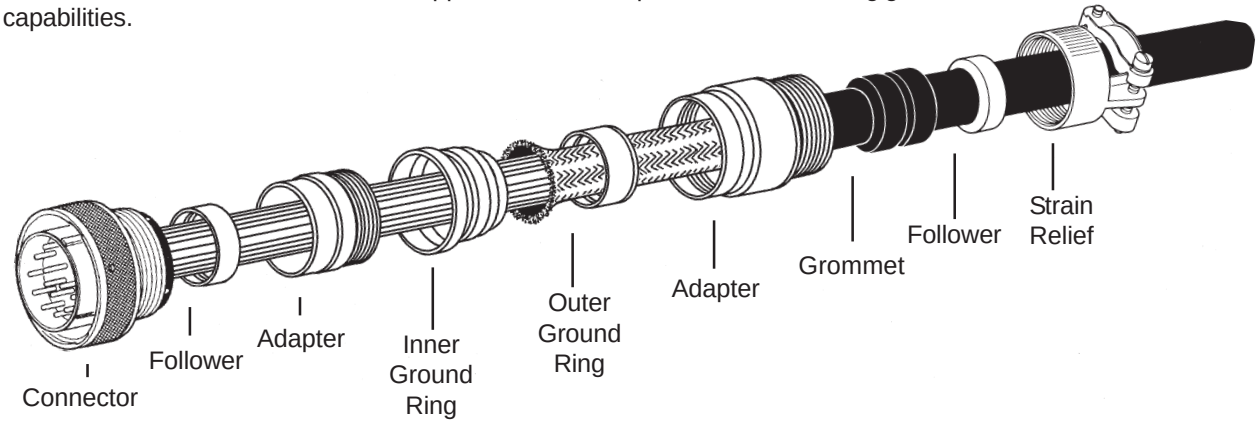
TYPE F SHIELD TERMINATION

A medium duty termination that also provides for grounding individual, overall, or both shields together. The forward ground ring has an angled surface on both sides, providing an area to fold back and fold forward the individual or overall braids, it will also facilitate both braids together.



TYPE G SHIELD TERMINATION

Type G provides a heavy duty method for grounding individual over-all braid. This is a dual ring method, that allows full access to the termination area. Also supplied with an independent cable sealing grommet to achieve water immersion capabilities.



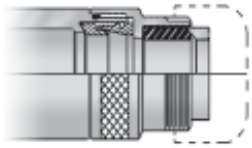
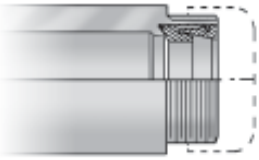
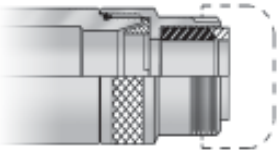
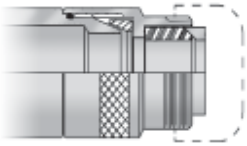
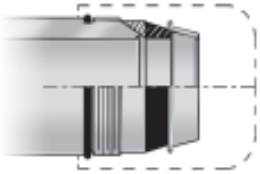
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Quick Reference Guide
Series 39 EMI/RFI Cable Sealing Backshells
with Strain Relief

Quick Page Number Reference Guide

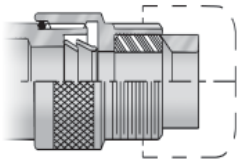
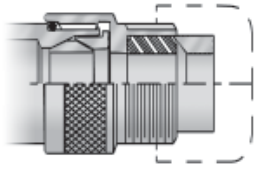
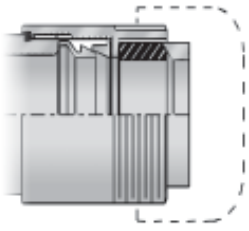
Consult factory for any designs not included within this catalog.

Shield Termination/Cable Sealing Design	Coupling Type	Connector Designators	Page Number: Straight	Low Profile	Full Radius Profile	Standard Profile	Split Shell
Type A Shield Terminations							
 **Submersible**	Rotatable 390-001	A F H L S	39-12	39-12			
	Rotatable 390-013	G	39-14			39-14	
	Direct 390-002	All	39-16	39-16			
 **Water-Tight**	Rotatable 390-003	A F H L S	39-18	39-18			
	Rotatable 390-014	G	39-20			39-20	
	Direct 390-004	All	39-22	39-22			
Type B Shield Terminations							
 **Submersible**	Rotatable 390-005	A F H L S	39-24	39-24			
	Rotatable 390-015	G	39-26			39-26	
	Direct 390-006	All	39-28	39-28			
Type C Shield Terminations							
 **Submersible**	Rotatable 390-007 390-009	A F H L S	39-30 39-34	39-30 39-34			
	Direct 390-008 390-010	All	39-32 39-36	39-32 39-36			
 **Splash-Proof**	Rotatable 390-011	A F H L S	39-38	39-38		39-40	
	Direct 390-012	All	39-42	39-42			
	Self-Locking 390-059	A F H L S	39-44			39-44	

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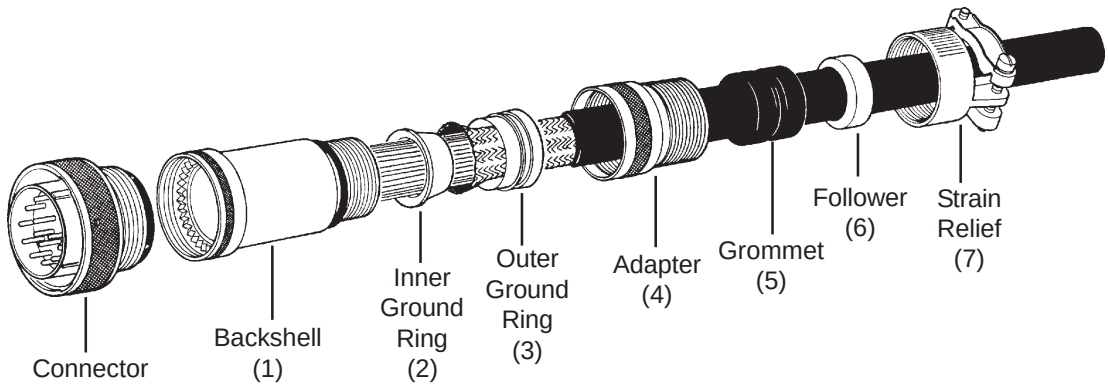
Quick Page Number Reference Guide

Consult factory for any designs not included within this catalog.

Cable Entry Design	Coupling Type	Connector Designators	Page Number: Straight	Low Profile	Full Radius Profile	Standard Profile	Split Shell
Type E Shield Terminations							
 **Submersible**	Rotatable 390-056	A F H L S	39-46	39-46	39-48	39-50	
	Direct 390-057	All	39-52	39-52		39-54	
	Self-Locking Rotatable 390-058	A F H L S	39-56		39-56	39-58	
Type F Shield Terminations							
 **Submersible**	Rotatable 390-053	A F H L S	39-60	39-60	39-62	39-64	
	Direct 390-054	All	39-66	39-66		39-68	
	Self-Locking Rotatable 390-055	A F H L S	39-70		39-70	39-72	
Type G Shield Terminations							
 **Submersible**	Rotatable 390-036 390-037 390-061	A F H L S	39-74 39-78	39-74 39-78			39-82
	Direct 390-035 390-038	All	39-76 39-80	39-76 39-80			
	Self Locking Rotatable 390-062	A F H L S					39-84

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ASSEMBLY INSTRUCTIONS 39-A
TYPE A SHIELD TERMINATION



The following suggested procedure serves as a guide for proper assembly and installation of Glenair's EMI/RFI Cable Sealing Backshells (Type A shield termination). It is recommended that trial samples of appropriate cables be used to determine proper trim dimensions of the cable jackets, overall shield and individual conductors.

a. Temporarily assemble backshell (1) to connector.

b. Place remaining backshell assembly components (2 through 7) on cable in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable into backshell (1) and bottom against connector. Hold cable in position and mark cable jacket at rear end of backshell (1).

   CAUTION: If cable conductors are to have service loops, or if conductors will have crossovers, etc., allow sufficient added length to cable to compensate for these factors.

d. Remove backshell (1) from connector and place on cable with components in step (b) above.

e. Trim cable jacket and shield at mark made in step (c) above (allowing for service loops and crossovers).

f. Strip jacket 3/4 inch back from trim point in step (e) to expose shield.

g. Prepare and terminate cable conductors in accordance with established practices.

h. Assemble backshell (1) to connector and tighten securely. Slide inner ground ring (2) into backshell (1).

i. Flare shield over tapered end of inner ground ring (2) and gently force cable toward connector until shield covers taper of ring (2).

j. Insert outer ground ring (3) into backshell (1) over shield.

k. Engage adapter (4) on backshell (1) and tighten securely.

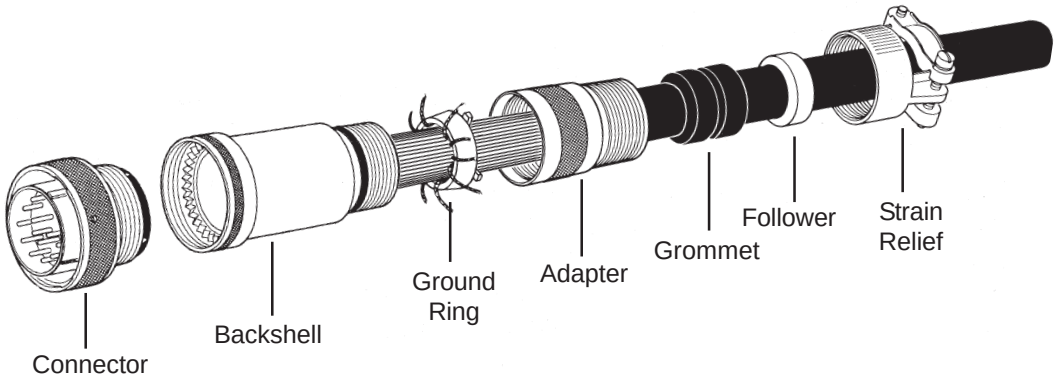
l. Insert grommet (5) and follower (6) into adapter (4).

m. Engage strain relief (7) and tighten securely. Tighten strain relief saddles on cable jacket.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS 39-B
TYPE B SHIELD TERMINATION



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Environmental Backshells (Type B shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors.

a. Temporarily assemble backshell to connector.

b. Place ground ring, adapter, grommet, follower, and strain relief on the cable in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable or harness into backshell and bottom against connector.

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above. This procedure is for individually shielded conductors.

f. Extract shield pigtail from individual conductor's. Tape or tie pigtails to the bundle.

g. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

h. Slide adapter forward to connector, and tighten securely.

i. Move the four footed ground ring forward near the rear of the adapter. Untie individual pigtails, and flare back over ground ring so as to evenly disperse pigtails through the (4) quadrants of the ring. Tie or tape pigtails back to bundle, allowing for approx. 1/2 inch of slack, for subsequent step.

j. Push ground ring forward and into the angled area at the rear of the backshell adapter. Engage rear, adapter and thread onto front adapter, providing the shield grounding.

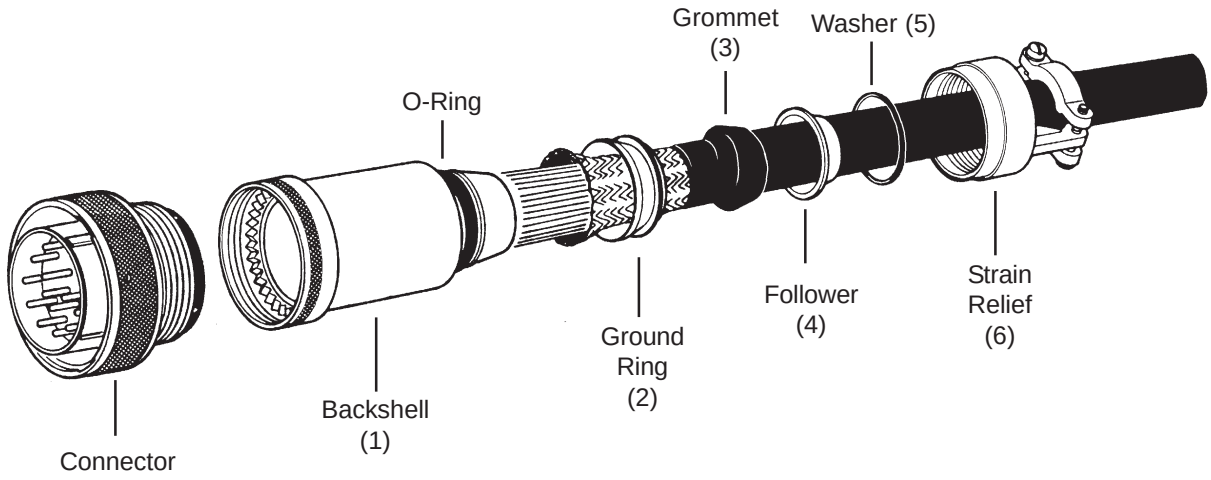
k. Slide rubber grommet forward into counter bore of rear adapter, making sure the cable jacket passes through grommet, slide follower onto rear of grommet.

l. Engage strain relief with adapter and tighten securely, tighten strain relief saddles securely on cable or harness, this will then provide the environmental seal on cable. (This same procedure can also be utilized for overall shield.)

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS 39-C
TYPE C SHIELD TERMINATION



The following suggested procedure serves as a guide for proper assembly and installation of Glenair EMI/RFI Cable Sealing Backshells (Type C shield termination). It is recommended that trial samples of appropriate cables be used to determine proper trim dimensions of the cable jacket, shield and individual conductors.

a. Temporarily assemble backshell (1) to connector.

b. Place remaining backshell assembly components (2 through 6) on cable in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable into backshell (1) and bottom against connector. Hold cable in position and mark cable jacket at rear end of backshell (1).

   CAUTION: If cable conductors are to have service loops, or if conductors will have crossovers, etc., allow sufficient added length to cable to compensate for these factors.

d. Remove backshell (1) from connector and place on cable with components in step (b) above.

e. Trim cable jacket and shield at mark made in step (c) above (allowing for service loops and crossovers).

f. Strip jacket 1/4 inch back from trim point in step (e) to expose overall shield.

g. Prepare and terminate cable conductors in accordance with established practices.

h. Assemble backshell (1) to connector and tighten securely.

i. Flare shield over tapered end of backshell (1) and slide ground ring (2) into place over shield. Hold ring in position and trim any exposed shield stands adjacent to rear threads on backshell.

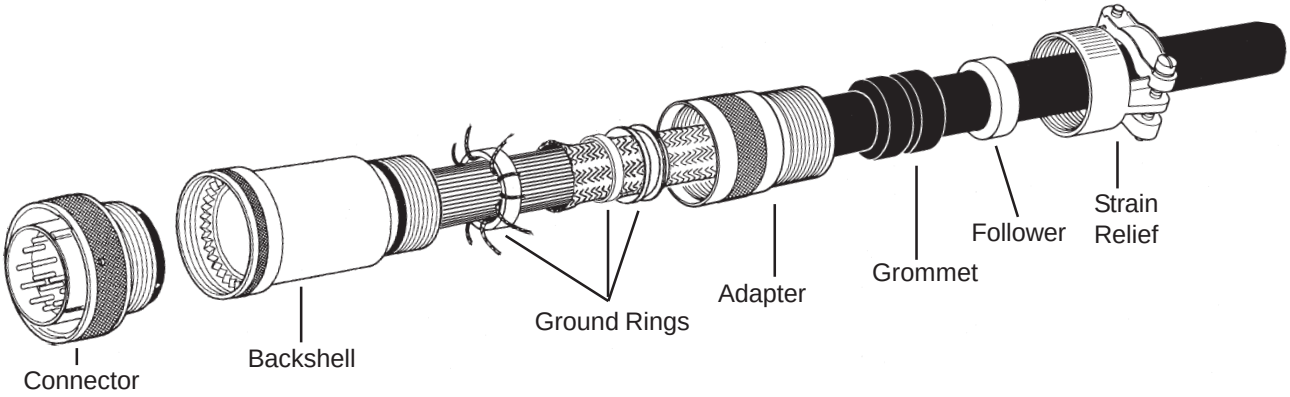
j. Slide grommet (3), follower (4) and washer (5) against ground ring (2).

k. Engage strain relief (6) with backshell and tighten securely. Tighten strain relief saddles on cable jacket.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS 39-E
TYPE E SHIELD TERMINATION



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Environmental Backshells (Type E shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors. This procedure is for the three ring style.

a. Temporarily assemble backshell to connector.

b. Place ground rings, adapters, grommet, follower, and strain relief on the cable in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable into backshell and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell adapter.

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above. This procedure is for individually shielded conductors.

f. Extract shield pigtail from individual conductor's. Tape or tie pigtails to the bundle.

g. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

h. Slide adapter forward to connector, and tighten securely.

i. Remove tape or untie pigtails from bundle. Slide ground rings (2) forward to flared-out pigtails. Fold pigtails back over ground ring (2) tie back to bundle leaving about 1/2" to 1" slack.

j. Bring ground ring (3) for overall braid, fold braid back over ring (3), push forward onto ring (2). Slide ground ring (4) onto overall braid and onto ring (3). . . push all three rings forward into the counter bore at the rear of backshell (1). Engage rear, adapter and thread onto front adapter, providing the shield grounding.

k. Slide rubber grommet forward into counter bore of rear adapter, making sure the cable jacket passes through grommet, slide follower onto rear of grommet.

l. Engage strain relief with adapter and tighten securely, tighten strain relief saddles securely on cable or harness, this will then provide the environmental seal on cable. (This same procedure can also be utilized for overall shield.)

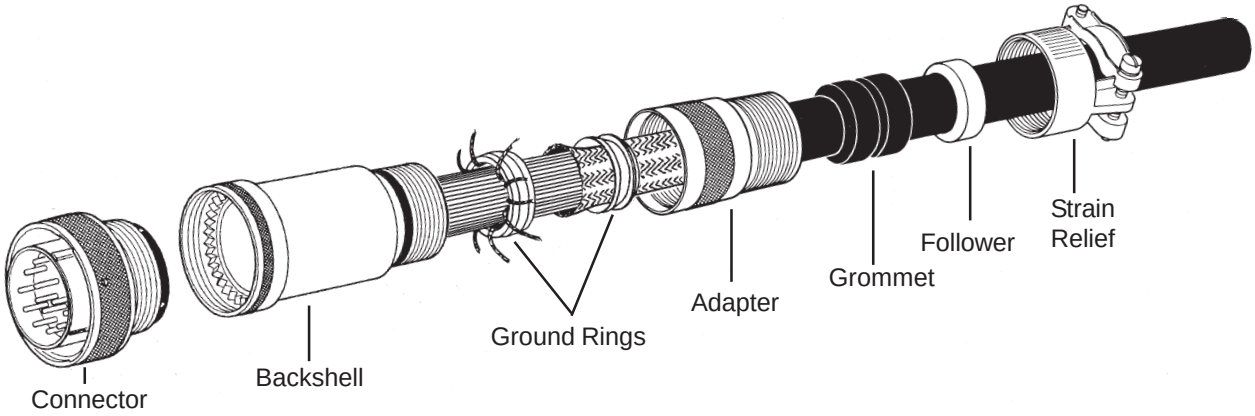
NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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Type F Assembly Instructions
Series 39 EMI/RFI Cable Sealing Backshells
with Strain Relief

ASSEMBLY INSTRUCTIONS 39-F
TYPE F SHIELD TERMINATION



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Environmental Backshells (Type F shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors.

a. Temporarily assemble backshell to connector.

b. Place ground rings, adapters, grommet, follower, and strain relief on the cable in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable into backshell and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell adapter.

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above. This procedure is for individually shielded conductors.

f. Extract shield pigtail from individual conductor's. Tape or tie pigtails to the bundle.

g. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

h. Slide adapter forward to connector, and tighten securely.

i. Move the four footed ground ring forward near the rear of the adapter. Untie individual pigtails, and flare back over ground ring so as to evenly disperse pigtails through the (4) quadrants of the ring. Tie or tape pigtails back to bundle, allowing for approx. 1/2 inch of slack, for subsequent step.

j. Push ground ring forward and into the angled area at the rear of the backshell adapter. Engage rear, adapter and thread onto front adapter, providing the shield grounding.

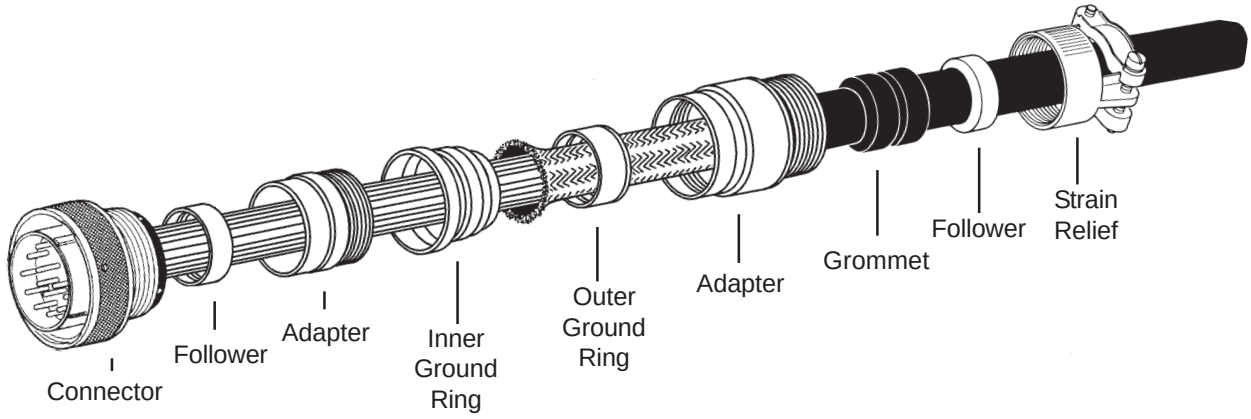
k. Slide rubber grommet forward into counter bore of rear adapter, making sure the cable jacket passes through grommet, slide follower onto rear of grommet.

l. Engage strain relief with adapter and tighten securely, tighten strain relief saddles securely on cable or harness, this will then provide the environmental seal on cable. (This same procedure can also be utilized for overall shield.)

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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ASSEMBLY INSTRUCTIONS 39-G
TYPE G SHIELD TERMINATION



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Environmental Backshells (Type G shield termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors.

a. Temporarily assemble backshell to connector.

b. Place ground rings, adapters, grommet, follower, and strain relief on the cable in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable into backshell and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell adapter.

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above. This procedure is for individually shielded conductors.

f. Extract shield pigtail from individual conductor's. Tape or tie pigtails to the bundle.

g. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

h. Slide adapter forward to connector, and tighten securely.

i. Bring front ground ring forward to the front adapter (A) for individual termination untie or remove tape from step F and disperse evenly the individual pigtails over the tapered angle of the front ground ring (Note: pigtails may be spot-tied onto groove in ground ring). (B) for overall braid termination, slide braid forward over the tapered end of front ground ring, allow braid to bottom on ground ring shoulder.

j. Slide rear ground ring forward to seat on matching angle of front ground ring . Engage rear, adapter and thread onto front adapter, providing the shield grounding.

k. Slide rubber grommet forward into counter bore of rear adapter, making sure the cable jacket passes through grommet, slide follower onto rear of grommet.

l. Engage strain relief with adapter and tighten securely, tighten strain relief saddles securely on cable or harness, this will then provide the environmental seal on cable. (This same procedure can also be utilized for overall shield.)

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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390-001
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type A - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

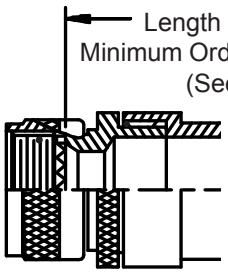
A-F-H-L-S

ROTATABLE COUPLING

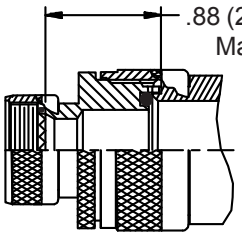
TYPE A OVERALL SHIELD TERMINATION

390 F S 001 M 16 10 M 6

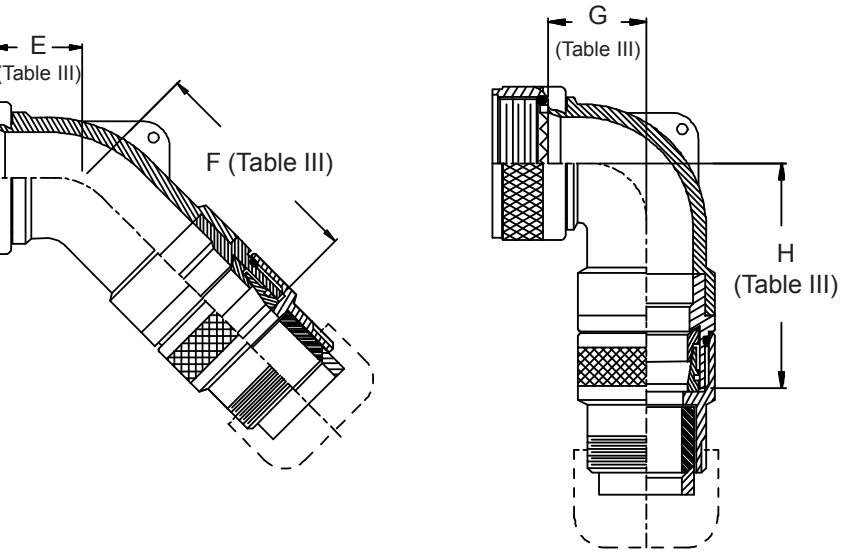
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- A Thread (Table I)
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



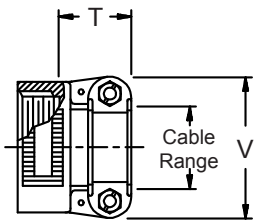
STYLE 2 (STRAIGHT See Note 1)



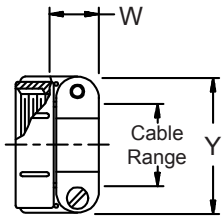
STYLE 2 (45° & 90° See Note 1)



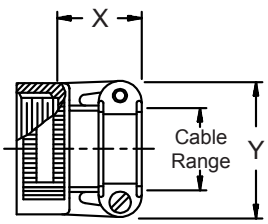
STYLE H
Heavy Duty
(Table X)



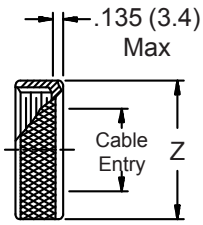
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.760	(44.7)	.500	(12.7)	1.880	(47.8)
10	11	.520	(13.2)	1.920	(48.8)	.595	(15.1)	1.990	(50.5)
12	13	.582	(14.8)	1.990	(50.5)	.610	(15.5)	2.020	(51.3)
14	15	.645	(16.4)	2.144	(54.5)	.700	(17.8)	2.154	(54.7)
16	17	.738	(18.7)	2.254	(57.3)	.885	(22.5)	2.244	(57.0)
18	19	.926	(23.5)	2.444	(62.1)	.975	(24.8)	2.414	(61.3)
20	21	.926	(23.5)	2.444	(62.1)	.975	(24.8)	2.414	(61.3)
22	23	1.020	(25.9)	2.657	(67.5)	1.125	(28.6)	2.587	(65.7)
24	25	1.020	(25.9)	2.657	(67.5)	1.125	(28.6)	2.587	(65.7)
28		1.145	(29.1)	2.690	(68.3)	1.225	(31.1)	2.740	(69.6)
32		1.207	(30.7)	2.790	(70.9)	1.575	(40.0)	2.990	(75.9)
36		1.238	(31.4)	2.930	(74.4)	1.775	(45.1)	3.040	(77.2)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

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390-013
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type A - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATOR

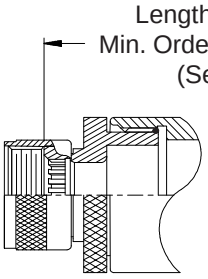
G

ROTATABLE COUPLING

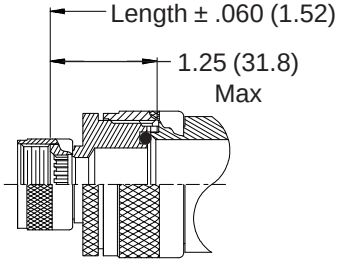
TYPE A OVERALL SHIELD TERMINATION

390 G S 013 M 17 10 H 6

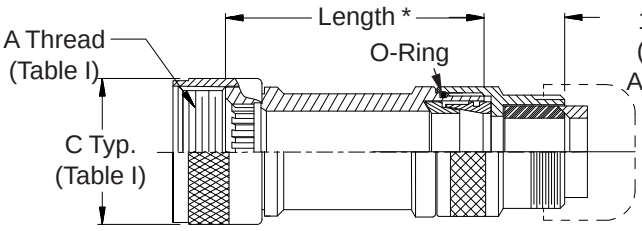
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

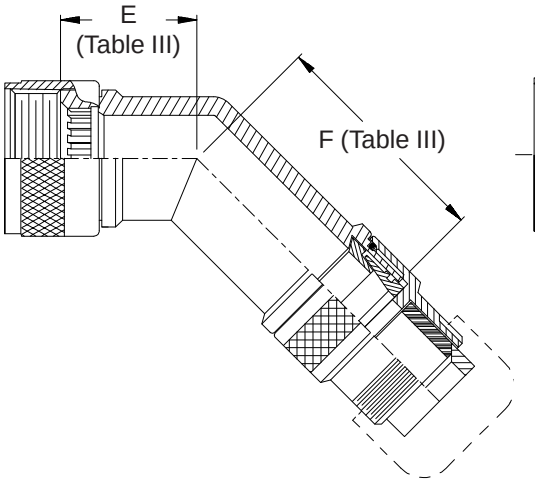


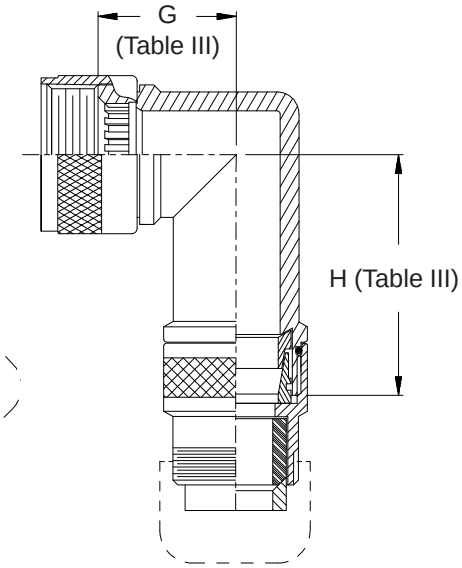
STYLE 2 (STRAIGHT See Note 1)



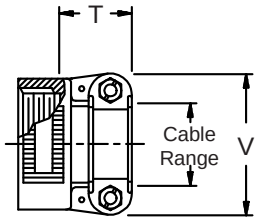
STYLE 2 (45° & 90° See Note 1)



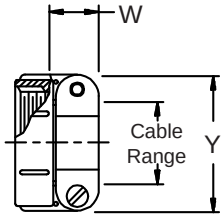




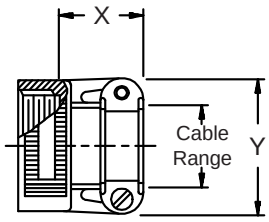
STYLE H
Heavy Duty
(Table X)



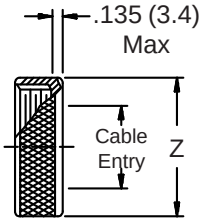
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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TABLE III: ELBOW DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max
11	1.240 (31.5)	2.060 (52.3)	1.380 (35.1)	2.200 (55.9)
13	1.260 (32.0)	2.080 (52.8)	1.440 (36.6)	2.260 (57.4)
15	1.290 (32.8)	2.360 (59.9)	1.500 (38.1)	2.580 (65.5)
17	1.310 (33.3)	2.380 (60.5)	1.570 (39.9)	2.640 (67.1)
19	1.340 (34.0)	2.500 (63.5)	1.630 (41.4)	2.810 (71.4)
23	1.380 (35.1)	2.540 (64.5)	1.730 (43.9)	2.890 (73.4)
25	1.410 (35.8)	2.570 (65.3)	1.800 (45.7)	2.960 (75.2)
29	1.580 (40.1)	2.800 (71.1)	2.040 (51.8)	3.260 (82.8)
33	1.620 (41.1)	2.820 (71.6)	2.130 (54.1)	3.330 (84.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.875 (47.6)	2.375 (60.3)

* Not available in Style M clamp.

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390-002
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type A - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

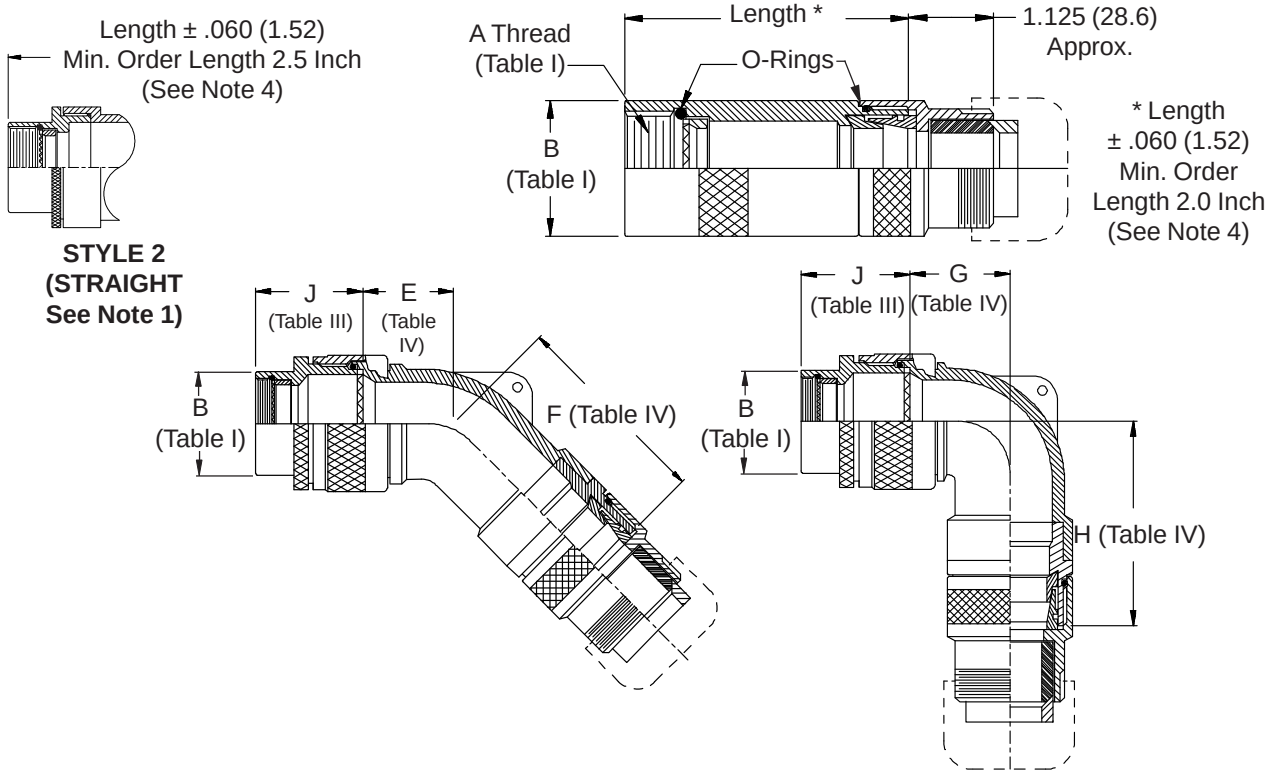
*** Conn. Desig. B See Note 5**

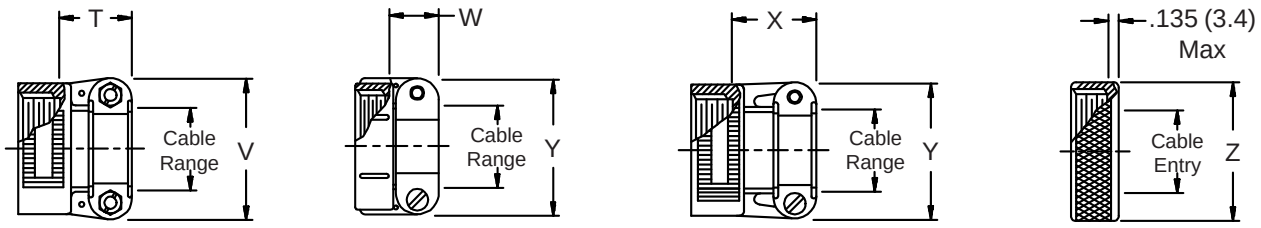
DIRECT COUPLING

TYPE A OVERALL SHIELD TERMINATION

390 F S 002 M 16 10 A 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)





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390-002
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type A - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180(30.0)	1.440(36.6)	
10/11	1.180(30.0)	1.440(36.6)	
12/13	1.180(30.0)	1.440(36.6)	1.735(44.1)
14/15	1.180(30.0)	1.440(36.6)	1.915(48.6)
16/17	1.380(35.0)	1.560(39.6)	1.915(48.6)
18/19	1.380(35.0)	1.560(39.6)	1.915(48.6)
20/21	1.380(35.0)	1.560(39.6)	1.915(48.6)
22/23	1.380(35.0)	1.560(39.6)	1.915(48.6)
24/25	1.380(35.0)	1.560(39.6)	1.915(48.6)
28/29	1.610 (40.9)	1.560(39.6)	1.915(48.6)
32/33	1.610(40.9)	1.750(44.5)	1.915(48.6)
36	1.610(40.9)	1.750(44.5)	1.915(48.6)
40	1.610(40.9)	2.190(55.6)	1.915(48.6)

TABLE IV: ELBOW DIMENSIONS

Dash No.	E Max	F Max	G Max	H Max
04	.630 (16.0)	2.117 (53.8)	.636 (16.2)	2.067 (52.5)
06	.630 (16.0)	2.117 (53.8)	.710 (18.0)	2.187 (55.5)
08	.692 (17.6)	2.179 (55.3)	.731 (18.6)	2.207 (56.1)
10	.755 (19.2)	2.862 (72.7)	.825 (21.0)	2.867 (72.8)
12	.848 (21.5)	2.972 (75.5)	.988 (25.1)	2.957 (75.1)
16	1.036 (26.3)	3.159 (80.2)	1.087 (27.6)	3.132 (79.6)
20	1.130 (28.7)	3.368 (85.5)	1.325 (33.7)	3.303 (83.9)
24	1.255 (31.9)	3.408 (86.6)	1.337 (34.0)	3.453 (87.7)
28	1.317 (33.5)	3.553 (90.2)	1.827 (46.4)	3.703 (94.1)
32	1.348 (34.2)	3.646 (92.6)	2.027 (51.5)	3.753 (95.3)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.875 (47.6)	2.375 (60.3)

* Not available in Style M clamp.

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390-003
Water-Tight EMI/RFI Cable Sealing Backshell
with Strain Relief
Type A - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

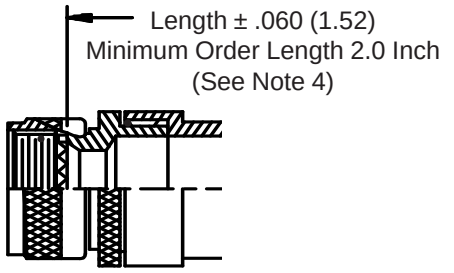
A-F-H-L-S

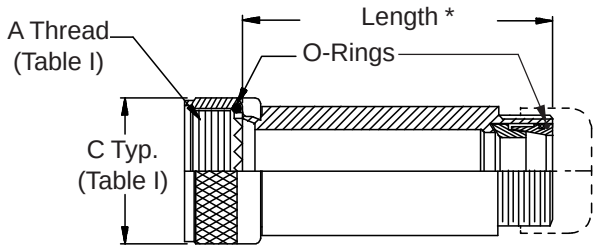
ROTATABLE COUPLING

TYPE A OVERALL SHIELD TERMINATION

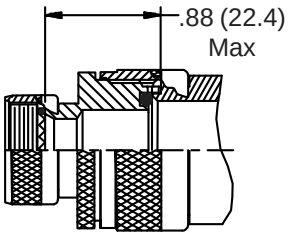
390 F S 003 M 16 10 E 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (C, E)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

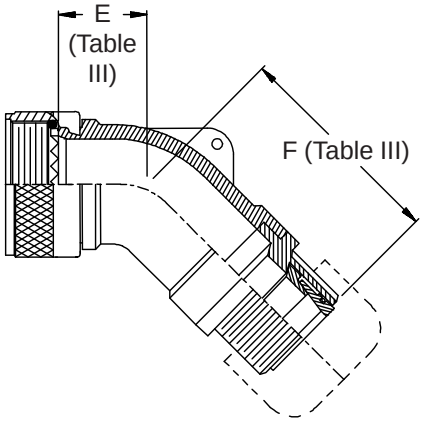


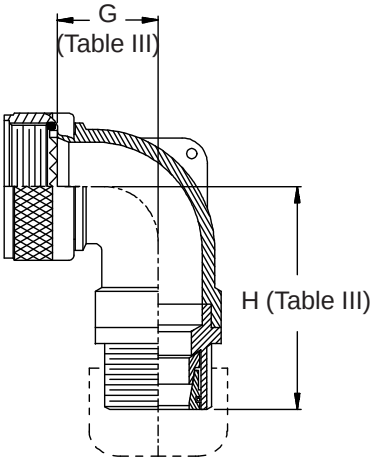


STYLE 2 (STRAIGHT See Note 1)

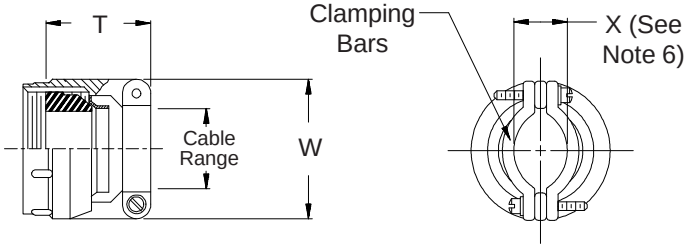


STYLE 2 (45° & 90° See Note 1)

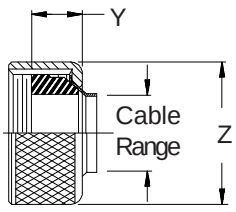




STYLE C
Medium Duty
(Table X)



STYLE E
Medium Duty
(Table XI)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.457 (11.6)	1.602 (40.7)	.500 (12.7)	1.612 (40.9)
10	11	.520 (13.2)	1.662 (42.2)	.595 (15.1)	1.732 (44.0)
12	13	.582 (14.8)	1.722 (43.7)	.610 (15.5)	1.752 (44.5)
14	15	.645 (16.4)	2.062 (52.4)	.700 (17.8)	2.072 (52.6)
16	17	.738 (18.7)	2.172 (55.2)	.885 (22.5)	2.162 (54.9)
18	19	.926 (23.5)	2.362 (60.0)	.975 (24.8)	2.332 (59.2)
20	21	.926 (23.5)	2.362 (60.0)	.975 (24.8)	2.332 (59.2)
22	23	1.020 (25.9)	2.512 (63.8)	1.125 (28.6)	2.442 (62.0)
24	25	1.020 (25.9)	2.512 (63.8)	1.125 (28.6)	2.442 (62.0)
28		1.145 (29.1)	2.562 (65.1)	1.225 (31.1)	2.612 (66.3)
32		1.207 (30.7)	2.662 (67.6)	1.575 (40.0)	2.862 (72.7)
36		1.238 (31.4)	2.752 (69.9)	1.775 (45.1)	2.862 (72.7)

TABLE X: CABLE ENTRY

Dash No.	T Max	W Max	X Ref	Cable Range Min	Cable Range Max
03	1.219 (31.0)	.812 (20.6)	.135 (3.4)	.156 (4.0)	.219 (5.6)
04	1.219 (31.0)	.937 (23.8)	.203 (5.2)	.188 (4.8)	.312 (7.9)
06	1.219 (31.0)	1.062 (27.0)	.285 (7.2)	.281 (7.1)	.438 (11.1)
08	1.219 (31.0)	1.188 (30.2)	.350 (8.9)	.312 (7.9)	.531 (13.5)
10	1.281 (32.5)	1.312 (33.3)	.390 (9.9)	.375 (9.5)	.625 (15.9)
12	1.281 (32.5)	1.562 (39.7)	.460 (11.7)	.500 (12.7)	.750 (19.1)
16	1.406 (35.7)	1.750 (44.5)	.510 (13.0)	.625 (15.9)	.938 (23.8)
20	1.656 (42.1)	2.250 (57.2)	.695 (17.7)	.938 (23.8)	1.250 (31.8)
24	1.906 (48.4)	2.375 (60.3)	.715 (18.2)	1.000 (25.4)	1.375 (34.9)
28	1.906 (48.4)	2.625 (66.7)	.915 (23.2)	1.250 (31.8)	1.625 (41.3)
32	2.000 (50.8)	2.812 (71.4)	1.070 (27.2)	1.500 (38.1)	1.875 (47.6)

TABLE XI: CABLE ENTRY

Dash No.	Y Max	Z Max	Cable Range Min	Cable Range Max
03	.739 (18.8)	.812 (20.6)	.156 (4.0)	.219 (5.6)
04	.739 (18.8)	.937 (23.8)	.188 (4.8)	.312 (7.9)
06	.739 (18.8)	1.062 (27.0)	.281 (7.1)	.438 (11.1)
08	.739 (18.8)	1.188 (30.2)	.312 (7.9)	.531 (13.5)
10	.791 (20.1)	1.312 (33.3)	.375 (9.5)	.625 (15.9)
12	.880 (22.4)	1.562 (39.7)	.500 (12.7)	.750 (19.1)
16	.901 (22.9)	1.750 (44.5)	.625 (15.9)	.938 (23.8)
20	1.031 (26.2)	2.250 (57.2)	.938 (23.8)	1.250 (31.8)
24	1.250 (31.8)	2.375 (60.3)	1.000 (25.4)	1.375 (34.9)
28	1.250 (31.8)	2.625 (66.7)	1.250 (31.8)	1.625 (41.3)
32	1.312 (33.3)	2.812 (71.4)	1.500 (38.1)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.
6. Saddles are bottomed on Clamp Ears.

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390-014
Water-Tight EMI/RFI Cable Sealing Backshell
with Strain Relief
Type A - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATOR

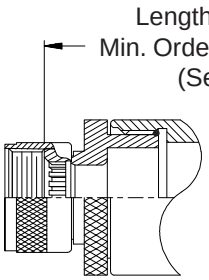
G

ROTATABLE COUPLING

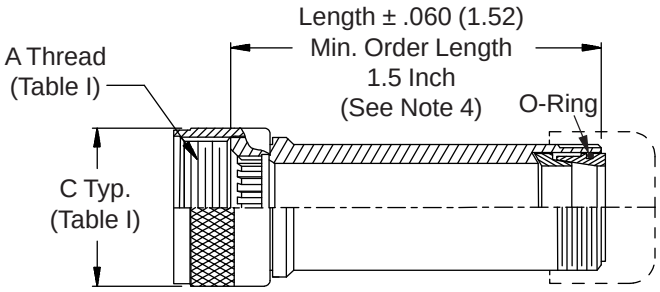
TYPE A OVERALL SHIELD TERMINATION

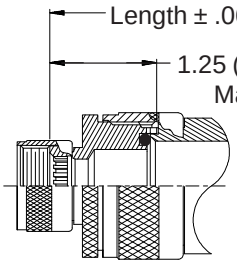
390 G S 014 M 17 10 C 6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (C, E)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

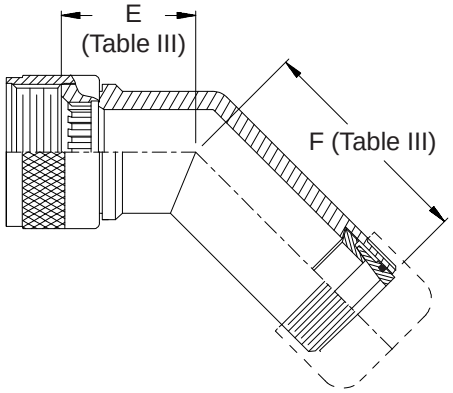


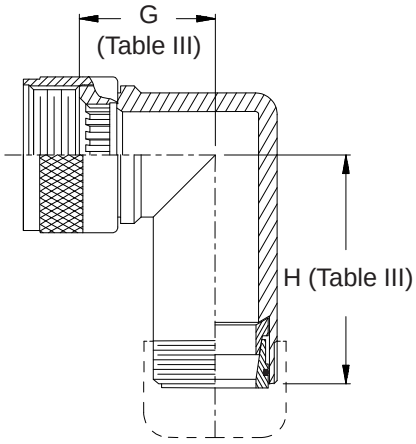
STYLE 2
(STRAIGHT
See Note 1)



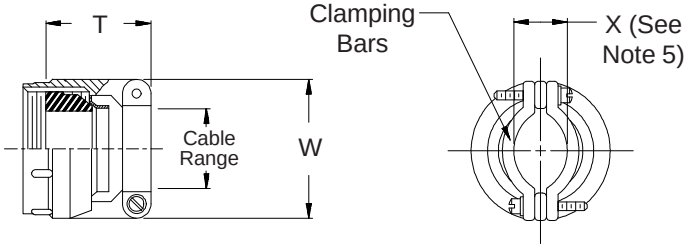


STYLE 2
(45° & 90°
See Note 1)

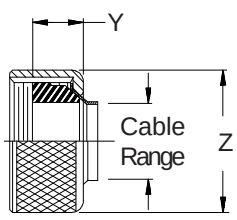




STYLE C
Medium Duty
(Table X)



STYLE E
Medium Duty
(Table XI)



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390-014
Water-Tight EMI/RFI Cable Sealing Backshell
with Strain Relief
Type A - Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max
11	1.240 (31.5)	1.050 (26.7)	1.380 (35.1)	1.190 (30.2)
13	1.260 (32.0)	1.070 (27.2)	1.440 (36.6)	1.250 (31.8)
15	1.290 (32.8)	1.100 (27.9)	1.500 (38.1)	1.320 (33.5)
17	1.310 (33.3)	1.120 (28.4)	1.570 (39.9)	1.380 (35.1)
19	1.340 (34.0)	1.150 (29.2)	1.630 (41.4)	1.460 (37.1)
23	1.380 (35.1)	1.190 (30.2)	1.730 (43.9)	1.540 (39.1)
25	1.410 (35.8)	1.220 (31.0)	1.800 (45.7)	1.610 (40.9)
29	1.580 (40.1)	1.390 (35.3)	2.040 (51.8)	1.850 (47.0)
33	1.620 (41.1)	1.430 (36.3)	2.130 (54.1)	1.940 (49.3)

TABLE X: CABLE ENTRY

Dash No.	T Max	W Max	X Ref	Cable Range Min	Cable Range Max
03	1.219 (31.0)	.812 (20.6)	.135 (3.4)	.156 (4.0)	.219 (5.6)
04	1.219 (31.0)	.937 (23.8)	.203 (5.2)	.188 (4.8)	.312 (7.9)
06	1.219 (31.0)	1.062 (27.0)	.285 (7.2)	.281 (7.1)	.438 (11.1)
08	1.219 (31.0)	1.188 (30.2)	.350 (8.9)	.312 (7.9)	.531 (13.5)
10	1.281 (32.5)	1.312 (33.3)	.390 (9.9)	.375 (9.5)	.625 (15.9)
12	1.281 (32.5)	1.562 (39.7)	.460 (11.7)	.500 (12.7)	.750 (19.1)
16	1.406 (35.7)	1.750 (44.5)	.510 (13.0)	.625 (15.9)	.938 (23.8)
20	1.656 (42.1)	2.250 (57.2)	.695 (17.7)	.938 (23.8)	1.250 (31.8)
24	1.906 (48.4)	2.375 (60.3)	.715 (18.2)	1.000 (25.4)	1.375 (34.9)
28	1.906 (48.4)	2.625 (66.7)	.915 (23.2)	1.250 (31.8)	1.625 (41.3)
32	2.000 (50.8)	2.812 (71.4)	1.070 (27.2)	1.500 (38.1)	1.875 (47.6)

TABLE XI: CABLE ENTRY

Dash No.	Y Max	Z Max	Cable Range Min	Cable Range Max
03	.739 (18.8)	.812 (20.6)	.156 (4.0)	.219 (5.6)
04	.739 (18.8)	.937 (23.8)	.188 (4.8)	.312 (7.9)
06	.739 (18.8)	1.062 (27.0)	.281 (7.1)	.438 (11.1)
08	.739 (18.8)	1.188 (30.2)	.312 (7.9)	.531 (13.5)
10	.791 (20.1)	1.312 (33.3)	.375 (9.5)	.625 (15.9)
12	.880 (22.4)	1.562 (39.7)	.500 (12.7)	.750 (19.1)
16	.901 (22.9)	1.750 (44.5)	.625 (15.9)	.938 (23.8)
20	1.031 (26.2)	2.250 (57.2)	.938 (23.8)	1.250 (31.8)
24	1.250 (31.8)	2.375 (60.3)	1.000 (25.4)	1.375 (34.9)
28	1.250 (31.8)	2.625 (66.7)	1.250 (31.8)	1.625 (41.3)
32	1.312 (33.3)	2.812 (71.4)	1.500 (38.1)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Saddles are bottomed on clamp ears.

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390-004
Water-Tight EMI/RFI Cable Sealing Backshell
with Strain Relief
Type A - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

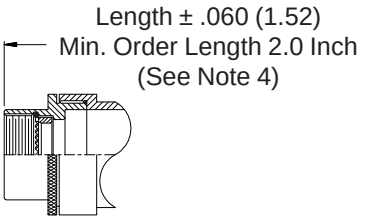
*** Conn. Desig. B See Note 6**

DIRECT COUPLING

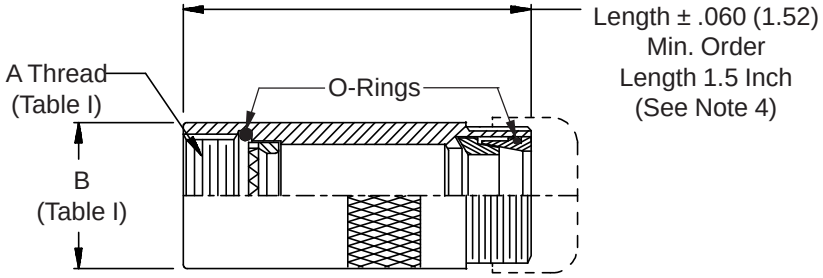
TYPE A OVERALL SHIELD TERMINATION

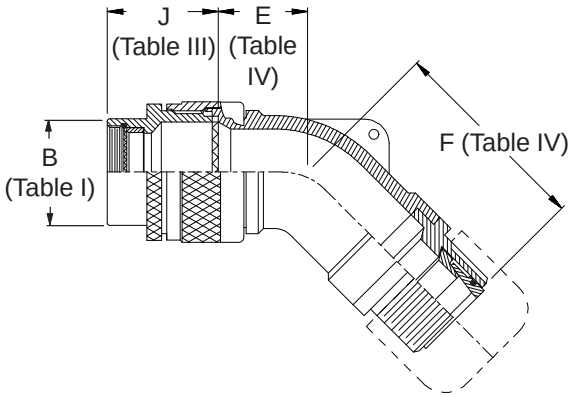
390 F S 004 M 16 10 E 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)
- Strain Relief Style (C, E)
- Cable Entry (Tables X, XI)
- Shell Size (Table I)
- Finish (Table II)

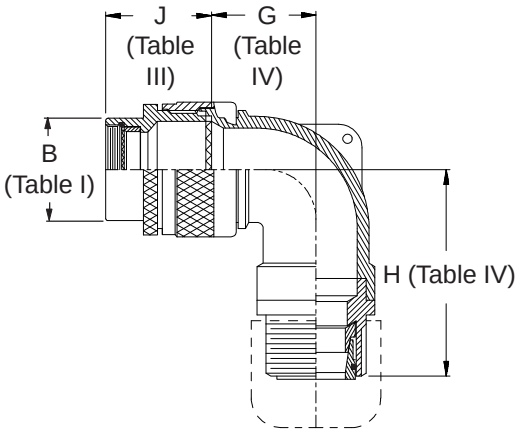


STYLE 2
(STRAIGHT
See Note 1)

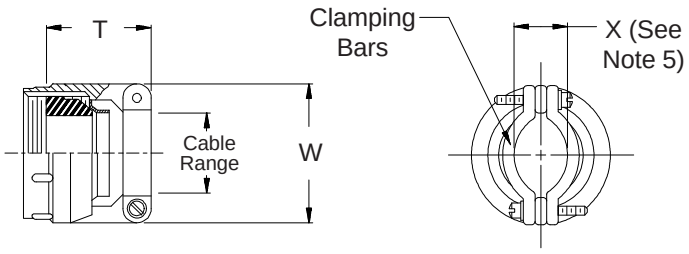


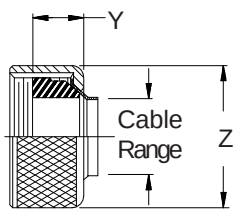


STYLE C
Medium Duty
(Table X)



STYLE E
Medium Duty
(Table XI)





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390-004
Water-Tight EMI/RFI Cable Sealing Backshell
with Strain Relief
Type A - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Dash No.	E Max	F Max	G Max	H Max
04	.630 (16.0)	1.250 (31.8)	.636 (16.2)	1.200 (30.5)
06	.630 (16.0)	1.250 (31.8)	.710 (18.0)	1.320 (33.5)
08	.692 (17.6)	1.312 (33.3)	.731 (18.6)	1.340 (34.0)
10	.755 (19.2)	1.655 (42.0)	.825 (21.0)	1.660 (42.2)
12	.848 (21.5)	1.765 (44.8)	.988 (25.1)	1.750 (44.5)
16	1.036 (26.3)	1.952 (49.6)	1.087 (27.6)	1.925 (48.9)
20	1.130 (28.7)	2.098 (53.3)	1.325 (33.7)	2.033 (51.6)
24	1.255 (31.9)	2.155 (54.7)	1.337 (34.0)	2.250 (57.2)
28	1.317 (33.5)	2.250 (57.2)	1.827 (46.4)	2.450 (62.2)
32	1.348 (34.2)	2.343 (59.5)	2.027 (51.5)	2.450 (62.2)

TABLE X: CABLE ENTRY

Dash No.	T Max	W Max	X Ref	Cable Range Min	Cable Range Max
03	1.219 (31.0)	.812 (20.6)	.135 (3.4)	.156 (4.0)	.219 (5.6)
04	1.219 (31.0)	.937 (23.8)	.203 (5.2)	.188 (4.8)	.312 (7.9)
06	1.219 (31.0)	1.062 (27.0)	.285 (7.2)	.281 (7.1)	.438 (11.1)
08	1.219 (31.0)	1.188 (30.2)	.350 (8.9)	.312 (7.9)	.531 (13.5)
10	1.281 (32.5)	1.312 (33.3)	.390 (9.9)	.375 (9.5)	.625 (15.9)
12	1.281 (32.5)	1.562 (39.7)	.460 (11.7)	.500 (12.7)	.750 (19.1)
16	1.406 (35.7)	1.750 (44.5)	.510 (13.0)	.625 (15.9)	.938 (23.8)
20	1.656 (42.1)	2.250 (57.2)	.695 (17.7)	.938 (23.8)	1.250 (31.8)
24	1.906 (48.4)	2.375 (60.3)	.715 (18.2)	1.000 (25.4)	1.375 (34.9)
28	1.906 (48.4)	2.625 (66.7)	.915 (23.2)	1.250 (31.8)	1.625 (41.3)
32	2.000 (50.8)	2.812 (71.4)	1.070 (27.2)	1.500 (38.1)	1.875 (47.6)

TABLE XI: CABLE ENTRY

Dash No.	Y Max	Z Max	Cable Range Min	Cable Range Max
03	.739 (18.8)	.812 (20.6)	.156 (4.0)	.219 (5.6)
04	.739 (18.8)	.937 (23.8)	.188 (4.8)	.312 (7.9)
06	.739 (18.8)	1.062 (27.0)	.281 (7.1)	.438 (11.1)
08	.739 (18.8)	1.188 (30.2)	.312 (7.9)	.531 (13.5)
10	.791 (20.1)	1.312 (33.3)	.375 (9.5)	.625 (15.9)
12	.880 (22.4)	1.562 (39.7)	.500 (12.7)	.750 (19.1)
16	.901 (22.9)	1.750 (44.5)	.625 (15.9)	.938 (23.8)
20	1.031 (26.2)	2.250 (57.2)	.938 (23.8)	1.250 (31.8)
24	1.250 (31.8)	2.375 (60.3)	1.000 (25.4)	1.375 (34.9)
28	1.250 (31.8)	2.625 (66.7)	1.250 (31.8)	1.625 (41.3)
32	1.312 (33.3)	2.812 (71.4)	1.500 (38.1)	1.875 (47.6)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Saddles are bottomed on Clamp Ears.
6. When using Connector Designator B refer to pages 18 and 19 for part number development.

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390-005
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type B - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

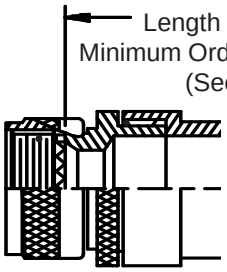
A-F-H-L-S

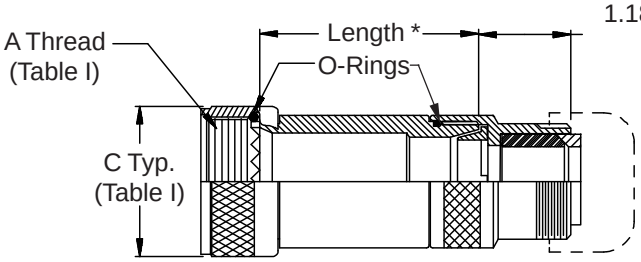
ROTATABLE COUPLING

TYPE B INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

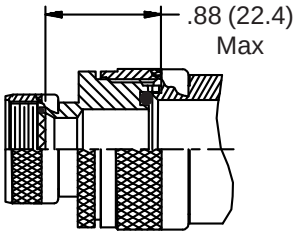
390 F S 005 M 16 10 M 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

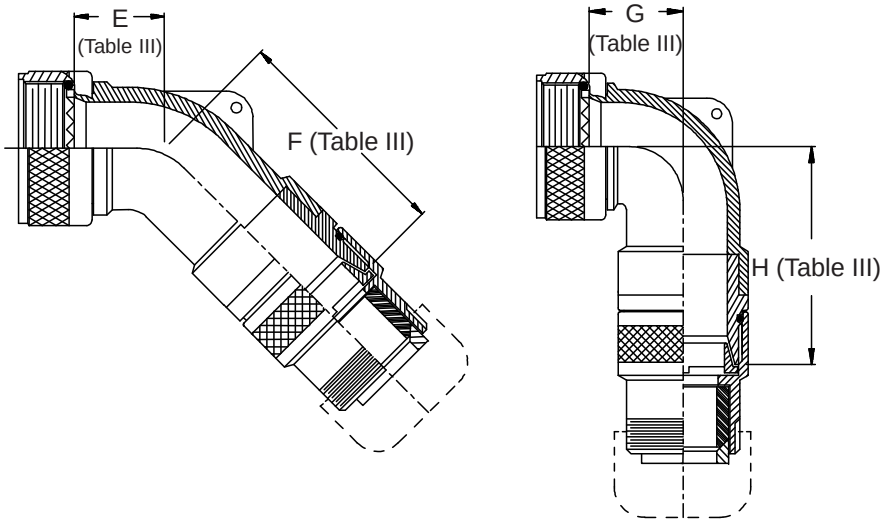




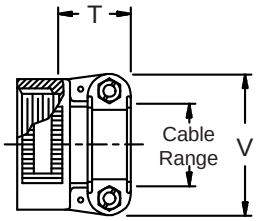
STYLE 2 (STRAIGHT See Note 1)



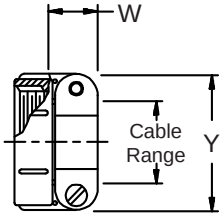
STYLE 2 (45° & 90° See Note 1)



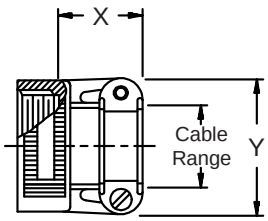
STYLE H
Heavy Duty
(Table X)



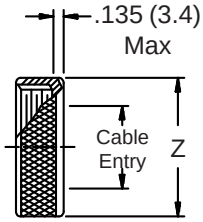
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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390-005
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type B - Rotatable Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09			.500 (12.7)	2.551 (64.8)
10	11	.520 (13.2)	2.601 (66.1)	.595 (15.1)	2.671 (67.8)
12	13	.582 (14.8)	2.661 (67.6)	.610 (15.5)	2.691 (68.4)
14	15	.645 (16.4)	3.091 (78.5)	.700 (17.8)	3.101 (78.8)
16	17	.738 (18.7)	3.201 (81.3)	.885 (22.5)	3.191 (81.1)
18	19	.926 (23.5)	3.391 (86.1)	.975 (24.8)	3.361 (85.4)
20	21	.926 (23.5)	3.391 (86.1)	.975 (24.8)	3.361 (85.4)
22	23	1.020 (25.9)	3.604 (91.5)	1.125 (28.6)	3.534 (89.8)
24	25	1.020 (25.9)	3.604 (91.5)	1.125 (28.6)	3.534 (89.8)
28		1.145 (29.1)	3.637 (92.4)	1.225 (31.1)	3.687 (93.6)
32		1.207 (30.7)	3.737 (94.9)	1.575 (40.0)	3.937 (100.0)
36		1.238 (31.4)	3.877 (98.5)	1.775 (45.1)	3.987 (101.3)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.875 (47.6)	2.375 (60.3)

* Not available in Style M clamp.

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390-015
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type B - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATOR

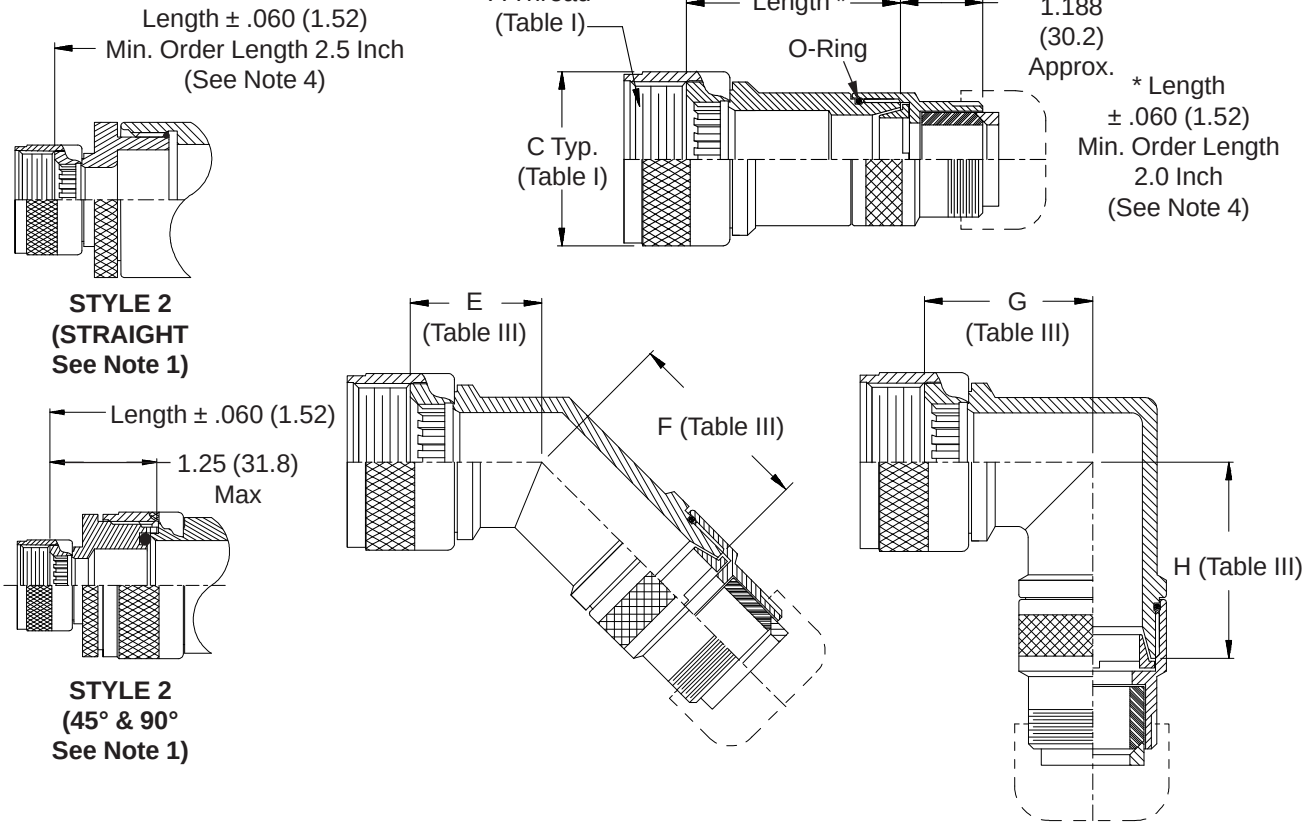
G

ROTATABLE COUPLING

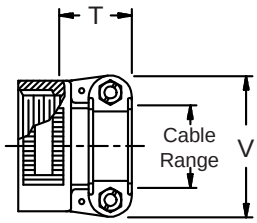
TYPE B INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 G S 015 M 17 10 H 6

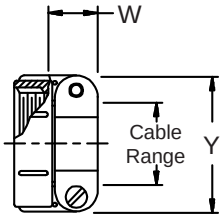
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



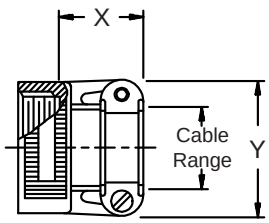
STYLE H
Heavy Duty
(Table X)



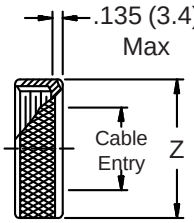
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max
11	1.240 (31.5)	1.100 (27.9)	1.380 (35.1)	1.240 (31.5)
13	1.260 (32.0)	1.120 (28.4)	1.440 (36.6)	1.300 (33.0)
15	1.290 (32.8)	1.172 (29.8)	1.500 (38.1)	1.392 (35.4)
17	1.310 (33.3)	1.192 (30.3)	1.570 (39.9)	1.452 (36.9)
19	1.340 (34.0)	1.312 (33.3)	1.630 (41.4)	1.622 (41.2)
23	1.380 (35.1)	1.352 (34.3)	1.730 (43.9)	1.702 (43.2)
25	1.410 (35.8)	1.382 (35.1)	1.800 (45.7)	1.772 (45.0)
29	1.580 (40.1)	1.612 (40.9)	2.040 (51.8)	2.072 (52.6)
33	1.620 (41.1)	1.632 (41.5)	2.130 (54.1)	2.142 (54.4)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.875 (47.6)	2.375 (60.3)

* Not available in Style M clamp.

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390-006
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type B - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

* Conn. Desig. B See Note 5

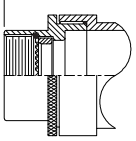
DIRECT COUPLING

390 F S 006 M 16 10 A 6

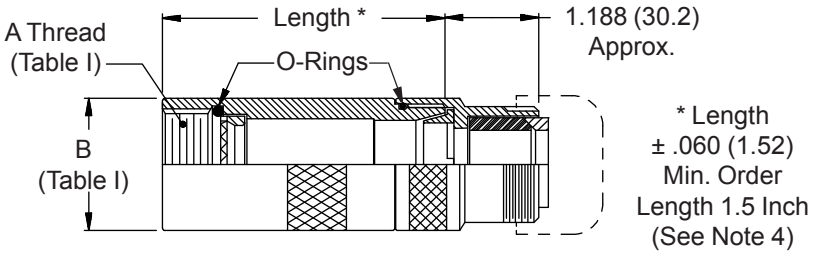
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D, AR)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

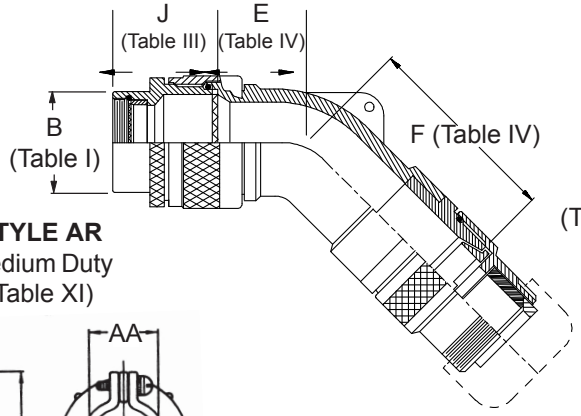
TYPE B INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

Length ± .060 (1.52)
Min. Order Length 2.0 Inch
(See Note 4)

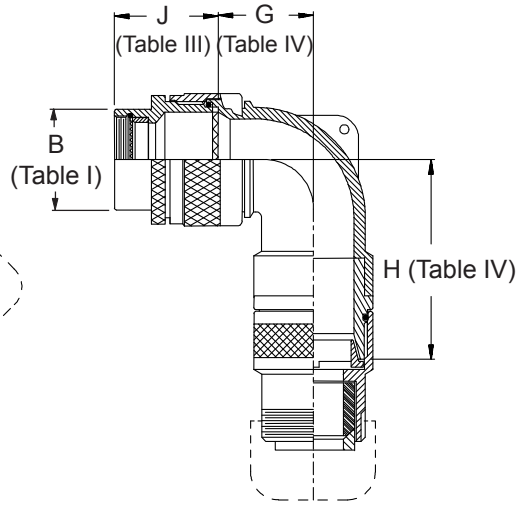


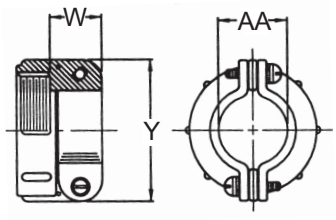
STYLE 2 (STRAIGHT See Note 1)



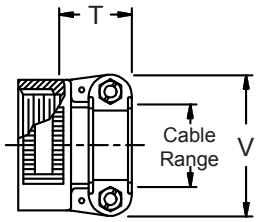


STYLE AR
Medium Duty
(Table XI)

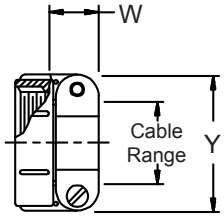




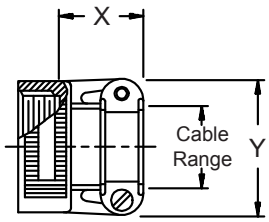
STYLE H
Heavy Duty
(Table X)



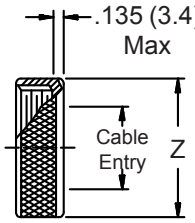
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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390-006
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type B - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Dash No.	E Max	F Max	G Max	H Max
04	.630 (16.0)	2.601 (66.1)	.636 (16.2)	2.551 (64.8)
06	.630 (16.0)	2.601 (66.1)	.710 (18.0)	2.671 (67.8)
08	.692 (17.6)	2.661 (67.6)	.731 (18.6)	2.691 (68.4)
10	.755 (19.2)	3.091 (78.5)	.825 (21.0)	3.101 (78.8)
12	.848 (21.5)	3.201 (81.3)	.988 (25.1)	3.191 (81.1)
16	1.036 (26.3)	3.391 (86.1)	1.087 (27.6)	3.361 (85.4)
20	1.130 (28.7)	3.604 (91.5)	1.325 (33.7)	3.534 (89.8)
24	1.255 (31.9)	3.637 (92.4)	1.337 (34.0)	3.687 (93.6)
28	1.317 (33.5)	3.737 (94.9)	1.827 (46.4)	3.937 (100.0)
32	1.348 (34.2)	3.877 (98.5)	2.027 (51.5)	3.987 (101.3)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	AA*** Closed	Cable Range Min **	Cable Range Max
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.312 (7.9)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.438 (11.1)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.562 (14.3)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.625 (15.9)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.750 (19.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.938 (23.8)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	1.250 (31.8)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.375 (34.9)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.625 (41.3)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.875 (47.6)	1.437 (36.5)	1.875 (47.6)

* Not available in Style M clamp.

***Applicable Style AR Only.

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Glenair®

390-007
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type C - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

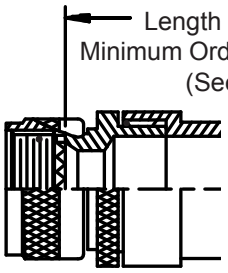
A-F-H-L-S

ROTATABLE COUPLING

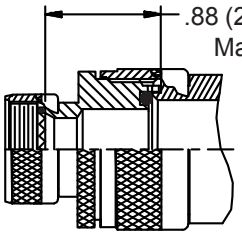
TYPE C OVERALL SHIELD TERMINATION

390 F S 007 M 16 10 M 6

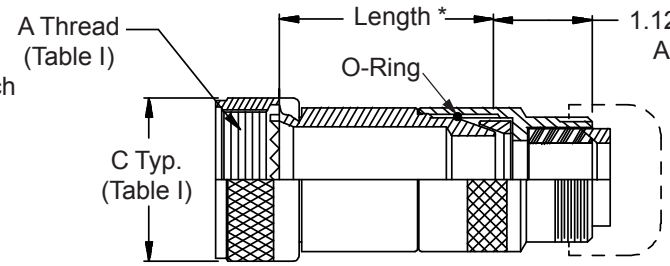
- Product Series: 390
- Connector Designator: F
- Angle and Profile: S
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.: 007
- Finish (Table II): M
- Shell Size (Table I): 16
- Cable Entry (Table X, XI): 10
- Strain Relief Style (H, A, M, D): M
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches): 6

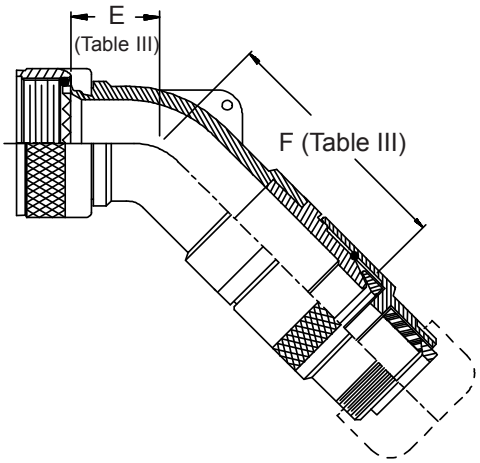


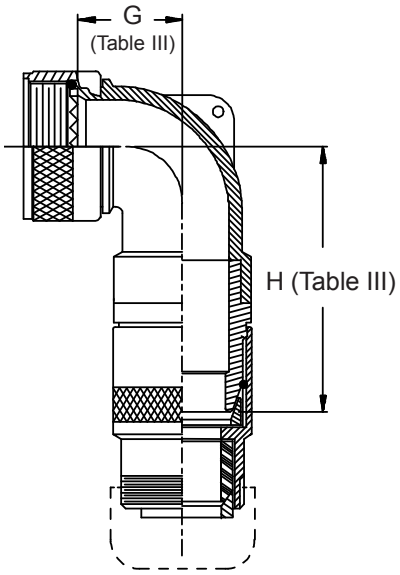
STYLE 2 (STRAIGHT See Note 1)



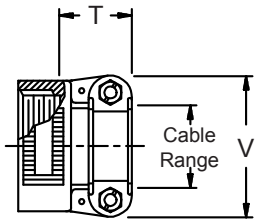
STYLE 2 (45° & 90° See Note 1)



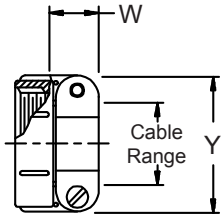




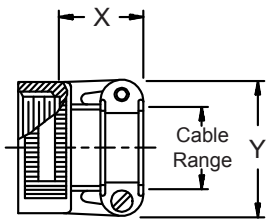
STYLE H
Heavy Duty
(Table X)



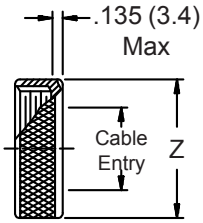
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09					.500	(12.7)	2.725	(69.2)
10	11	.520	(13.2)	2.775	(70.5)	.595	(15.1)	2.845	(72.3)
12	13	.582	(14.8)	2.835	(72.0)	.610	(15.5)	2.865	(72.8)
14	15	.645	(16.4)	3.554	(90.3)	.700	(17.8)	3.564	(90.5)
16	17	.738	(18.7)	3.664	(93.1)	.885	(22.5)	3.654	(92.8)
18	19	.926	(23.5)	3.854	(97.9)	.975	(24.8)	3.824	(97.1)
20	21	.926	(23.5)	3.854	(97.9)	.975	(24.8)	3.824	(97.1)
22	23	1.020	(25.9)	4.192	(106.5)	1.125	(28.6)	4.122	(104.7)
24	25	1.020	(25.9)	4.192	(106.5)	1.125	(28.6)	4.122	(104.7)
28		1.145	(29.1)	4.225	(107.3)	1.225	(31.1)	4.275	(108.6)
32		1.207	(30.7)	4.325	(109.9)	1.575	(40.0)	4.525	(114.9)
36		1.238	(31.4)	4.465	(113.4)	1.775	(45.1)	4.575	(116.2)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp (Style A clamp supplied).

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390-008
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type C - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

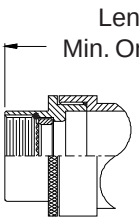
*** Conn. Desig. B See Note 5**

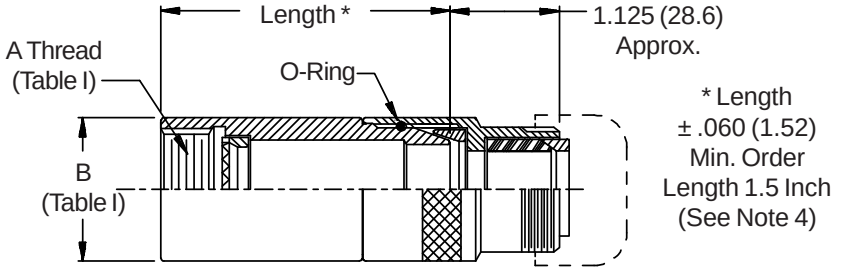
DIRECT COUPLING

390 F S 008 M 16 10 M 6

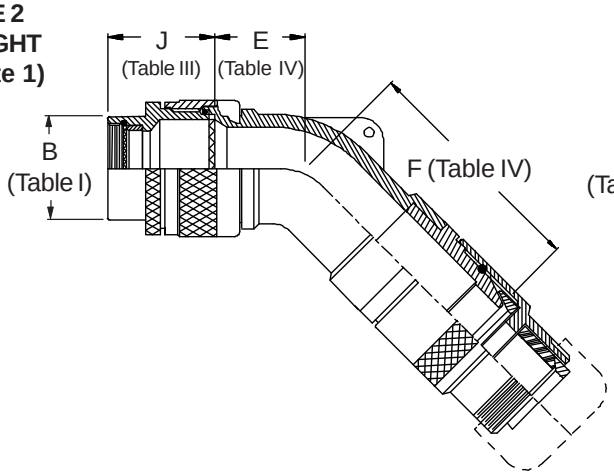
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

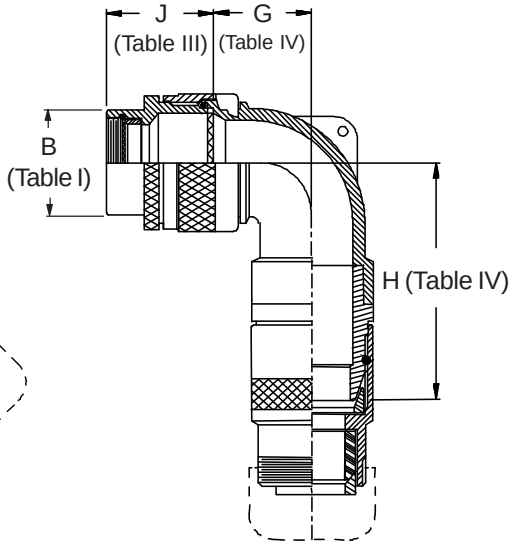
TYPE C OVERALL SHIELD TERMINATION



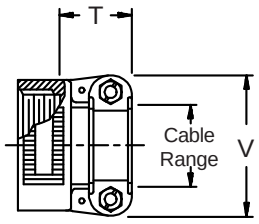


STYLE 2
(STRAIGHT
See Note 1)

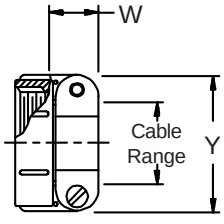




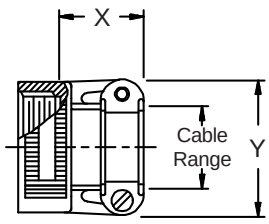
STYLE H
Heavy Duty
(Table X)



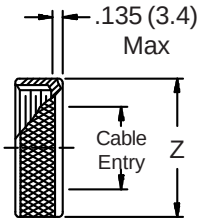
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
04	.630	(16.0)	2.715	(69.0)	.636	(16.2)	2.725	(69.2)
06	.630	(16.0)	2.775	(70.5)	.710	(18.0)	2.845	(72.3)
08	.692	(17.6)	2.835	(72.0)	.731	(18.6)	2.865	(72.8)
10	.755	(19.2)	3.554	(90.3)	.825	(21.0)	3.564	(90.5)
12	.848	(21.5)	3.664	(93.1)	.988	(25.1)	3.654	(92.8)
16	1.036	(26.3)	3.854	(97.9)	1.087	(27.6)	3.824	(97.1)
20	1.130	(28.7)	4.192	(106.5)	1.325	(33.7)	4.122	(104.7)
24	1.255	(31.9)	4.225	(107.3)	1.337	(34.0)	4.275	(108.6)
28	1.317	(33.5)	4.325	(109.9)	1.827	(46.4)	4.525	(114.9)
32	1.348	(34.2)	4.465	(113.4)	2.027	(51.5)	4.575	(116.2)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp (Style A clamp supplied).

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390-009
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type C - Rotatable Coupling - Low Profile

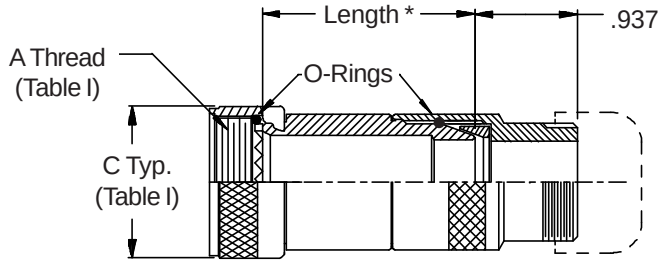
CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

TYPE C OVERALL SHIELD TERMINATION

390 F S 009 M 16 10 E 6

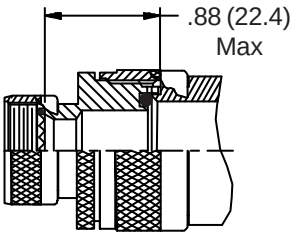
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (C, E)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

Length ± .060 (1.52)
Minimum Order Length 2.0 Inch
(See Note 4)

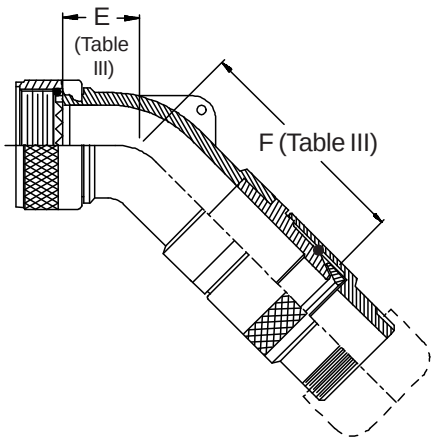


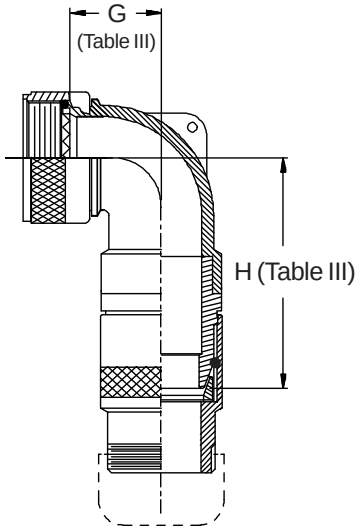
* Length ± .060 (1.52) Minimum Order Length 1.5 Inch (See Note 4)

STYLE 2 (STRAIGHT)

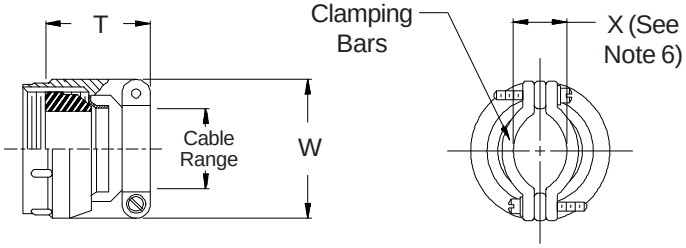


STYLE 2 (45° & 90°)

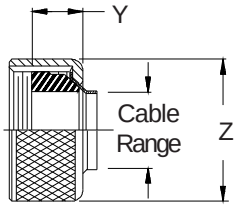




STYLE C
Medium Duty
(Table X)



STYLE E
Medium Duty
(Table XI)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09			.500 (12.7)	2.725 (69.2)
10	11	.520 (13.2)	2.775 (70.5)	.595 (15.1)	2.845 (72.3)
12	13	.582 (14.8)	2.835 (72.0)	.610 (15.5)	2.865 (72.8)
14	15	.645 (16.4)	3.554 (90.3)	.700 (17.8)	3.564 (90.5)
16	17	.738 (18.7)	3.664 (93.1)	.885 (22.5)	3.654 (92.8)
18	19	.926 (23.5)	3.854 (97.9)	.975 (24.8)	3.824 (97.1)
20	21	.926 (23.5)	3.854 (97.9)	.975 (24.8)	3.824 (97.1)
22	23	1.020 (25.9)	4.192 (106.5)	1.125 (28.6)	4.122 (104.7)
24	25	1.020 (25.9)	4.192 (106.5)	1.125 (28.6)	4.122 (104.7)
28		1.145 (29.1)	4.225 (107.3)	1.225 (31.1)	4.275 (108.6)
32		1.207 (30.7)	4.325 (109.9)	1.575 (40.0)	4.525 (114.9)
36		1.238 (31.4)	4.465 (113.4)	1.775 (45.1)	4.575 (116.2)

TABLE X: CABLE ENTRY

Dash No.	T Max	W Max	X Ref	Cable Range Min	Cable Range Max
03	1.219 (31.0)	.812 (20.6)	.135 (3.4)	.156 (4.0)	.219 (5.6)
04	1.219 (31.0)	.937 (23.8)	.203 (5.2)	.188 (4.8)	.312 (7.9)
06	1.219 (31.0)	1.062 (27.0)	.285 (7.2)	.281 (7.1)	.438 (11.1)
08	1.219 (31.0)	1.188 (30.2)	.350 (8.9)	.312 (7.9)	.531 (13.5)
10	1.281 (32.5)	1.312 (33.3)	.390 (9.9)	.375 (9.5)	.625 (15.9)
12	1.281 (32.5)	1.562 (39.7)	.460 (11.7)	.500 (12.7)	.750 (19.1)
16	1.406 (35.7)	1.750 (44.5)	.510 (13.0)	.625 (15.9)	.938 (23.8)
20	1.656 (42.1)	2.250 (57.2)	.695 (17.7)	.938 (23.8)	1.250 (31.8)
24	1.906 (48.4)	2.375 (60.3)	.715 (18.2)	1.000 (25.4)	1.375 (34.9)
28	1.906 (48.4)	2.625 (66.7)	.915 (23.2)	1.250 (31.8)	1.625 (41.3)
32	2.000 (50.8)	2.812 (71.4)	1.070 (27.2)	1.500 (38.1)	1.875 (47.6)

TABLE XI: CABLE ENTRY

Dash No.	Y Max	Z Max	Cable Range Min	Cable Range Max
03	.739 (18.8)	.812 (20.6)	.156 (4.0)	.219 (5.6)
04	.739 (18.8)	.937 (23.8)	.188 (4.8)	.312 (7.9)
06	.739 (18.8)	1.062 (27.0)	.281 (7.1)	.438 (11.1)
08	.739 (18.8)	1.188 (30.2)	.312 (7.9)	.531 (13.5)
10	.791 (20.1)	1.312 (33.3)	.375 (9.5)	.625 (15.9)
12	.880 (22.4)	1.562 (39.7)	.500 (12.7)	.750 (19.1)
16	.901 (22.9)	1.750 (44.5)	.625 (15.9)	.938 (23.8)
20	1.031 (26.2)	2.250 (57.2)	.938 (23.8)	1.250 (31.8)
24	1.250 (31.8)	2.375 (60.3)	1.000 (25.4)	1.375 (34.9)
28	1.250 (31.8)	2.625 (66.7)	1.250 (31.8)	1.625 (41.3)
32	1.312 (33.3)	2.812 (71.4)	1.500 (38.1)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.
6. Saddles are bottomed on Clamp Ears.

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CAGE Code 06324

Printed in U.S.A.

390-010
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type C - Direct Coupling - Low Profile

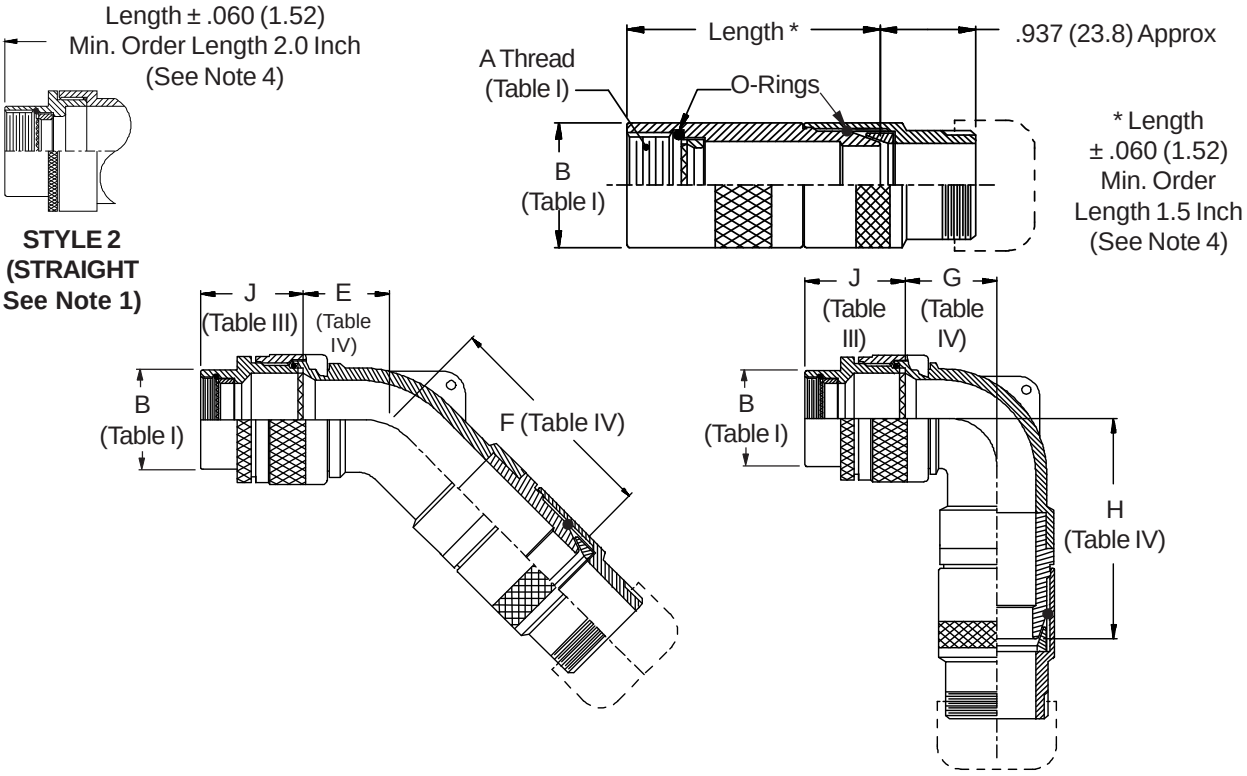
CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S
*** Conn. Desig. B See Note 6**

DIRECT COUPLING

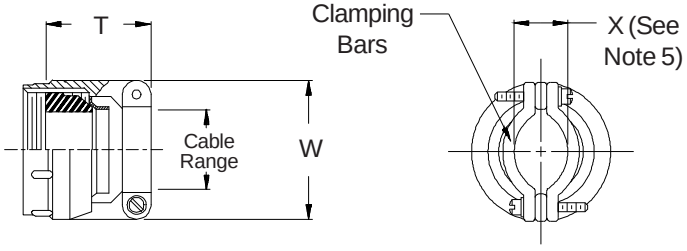
390 F S 010 M 16 10 E 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (C, E)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

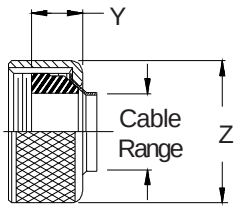
TYPE C OVERALL SHIELD TERMINATION



STYLE C
Medium Duty
(Table X)



STYLE E
Medium Duty
(Table XI)



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390-010
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type C - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
04	.630	(16.0)	2.715	(69.0)	.636	(16.2)	2.725	(69.2)
06	.630	(16.0)	2.775	(70.5)	.710	(18.0)	2.845	(72.3)
08	.692	(17.6)	2.835	(72.0)	.731	(18.6)	2.865	(72.8)
10	.755	(19.2)	3.554	(90.3)	.825	(21.0)	3.564	(90.5)
12	.848	(21.5)	3.664	(93.1)	.988	(25.1)	3.654	(92.8)
16	1.036	(26.3)	3.854	(97.9)	1.087	(27.6)	3.824	(97.1)
20	1.130	(28.7)	4.192	(106.5)	1.325	(33.7)	4.122	(104.7)
24	1.255	(31.9)	4.225	(107.3)	1.337	(34.0)	4.275	(108.6)
28	1.317	(33.5)	4.325	(109.9)	1.827	(46.4)	4.525	(114.9)
32	1.348	(34.2)	4.465	(113.4)	2.027	(51.5)	4.575	(116.2)

TABLE X: CABLE ENTRY

Dash No.	T Max		W Max		X Ref		Cable Range Min		Cable Range Max	
03	1.219	(31.0)	.812	(20.6)	.135	(3.4)	.156	(4.0)	.219	(5.6)
04	1.219	(31.0)	.937	(23.8)	.203	(5.2)	.188	(4.8)	.312	(7.9)
06	1.219	(31.0)	1.062	(27.0)	.285	(7.2)	.281	(7.1)	.438	(11.1)
08	1.219	(31.0)	1.188	(30.2)	.350	(8.9)	.312	(7.9)	.531	(13.5)
10	1.281	(32.5)	1.312	(33.3)	.390	(9.9)	.375	(9.5)	.625	(15.9)
12	1.281	(32.5)	1.562	(39.7)	.460	(11.7)	.500	(12.7)	.750	(19.1)
16	1.406	(35.7)	1.750	(44.5)	.510	(13.0)	.625	(15.9)	.938	(23.8)
20	1.656	(42.1)	2.250	(57.2)	.695	(17.7)	.938	(23.8)	1.250	(31.8)
24	1.906	(48.4)	2.375	(60.3)	.715	(18.2)	1.000	(25.4)	1.375	(34.9)
28	1.906	(48.4)	2.625	(66.7)	.915	(23.2)	1.250	(31.8)	1.625	(41.3)
32	2.000	(50.8)	2.812	(71.4)	1.070	(27.2)	1.500	(38.1)	1.875	(47.6)

TABLE XI: CABLE ENTRY

Dash No.	Y Max		Z Max		Cable Range Min		Cable Range Max	
03	.739	(18.8)	.812	(20.6)	.156	(4.0)	.219	(5.6)
04	.739	(18.8)	.937	(23.8)	.188	(4.8)	.312	(7.9)
06	.739	(18.8)	1.062	(27.0)	.281	(7.1)	.438	(11.1)
08	.739	(18.8)	1.188	(30.2)	.312	(7.9)	.531	(13.5)
10	.791	(20.1)	1.312	(33.3)	.375	(9.5)	.625	(15.9)
12	.880	(22.4)	1.562	(39.7)	.500	(12.7)	.750	(19.1)
16	.901	(22.9)	1.750	(44.5)	.625	(15.9)	.938	(23.8)
20	1.031	(26.2)	2.250	(57.2)	.938	(23.8)	1.250	(31.8)
24	1.250	(31.8)	2.375	(60.3)	1.000	(25.4)	1.375	(34.9)
28	1.250	(31.8)	2.625	(66.7)	1.250	(31.8)	1.625	(41.3)
32	1.312	(33.3)	2.812	(71.4)	1.500	(38.1)	1.875	(47.6)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Saddles are bottomed on Clamp Ears.
6. When using Connector Designator B refer to pages 18 and 19 for part number development.

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390-011
Splash-Proof EMI/RFI Cable Sealing Backshell
Light-Duty with Strain Relief
Type C - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

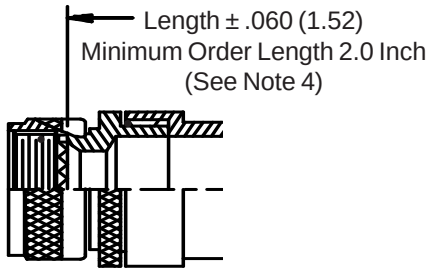
A-F-H-L-S

ROTATABLE COUPLING

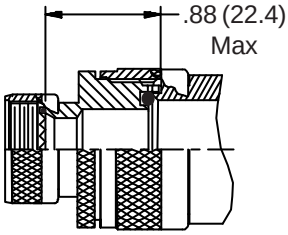
TYPE C OVERALL SHIELD TERMINATION

390 F S 011 M 16 05 L 6

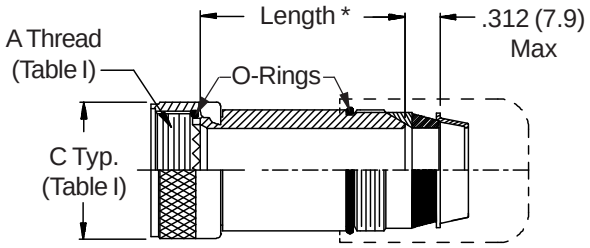
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Strain Relief Style (L, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



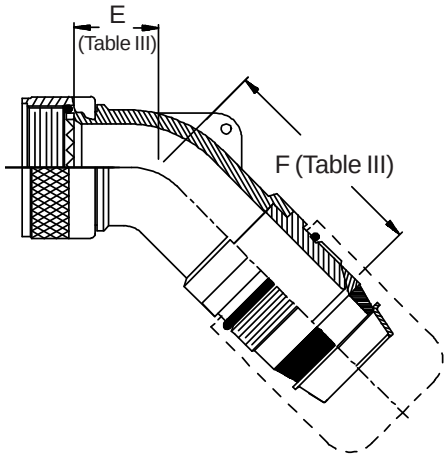
STYLE 2 (STRAIGHT See Note 1)

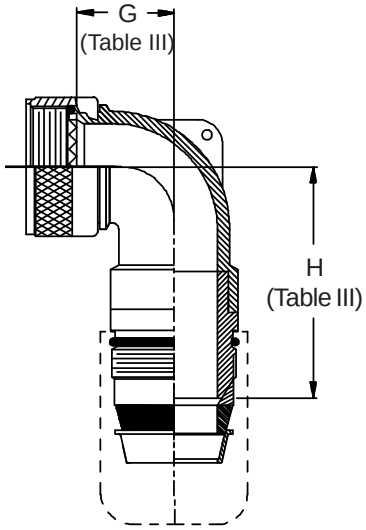


STYLE 2 (45° & 90° See Note 1)

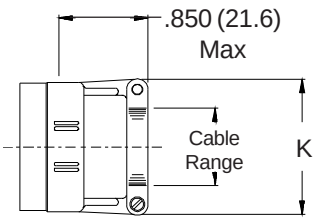


* Length ± .060 (1.52) Minimum Order Length 1.5 Inch (See Note 4)

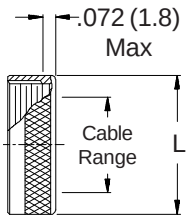




STYLE L
Light Duty
(Table IV)



STYLE G
Light Duty
(Table IV)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09					.500	(12.7)	1.698	(43.1)
10	11	.520	(13.2)	1.748	(44.4)	.595	(15.1)	1.818	(46.2)
12	13	.582	(14.8)	1.808	(45.9)	.610	(15.5)	1.838	(46.7)
14	15	.645	(16.4)	1.898	(48.2)	.700	(17.8)	1.908	(48.5)
16	17	.738	(18.7)	2.008	(51.0)	.885	(22.5)	1.998	(50.7)
18	19	.926	(23.5)	2.198	(55.8)	.975	(24.8)	2.168	(55.1)
20	21	.926	(23.5)	2.198	(55.8)	.975	(24.8)	2.168	(55.1)
22	23	1.020	(25.9)	2.348	(59.6)	1.125	(28.6)	2.278	(57.9)
24	25	1.020	(25.9)	2.348	(59.6)	1.125	(28.6)	2.278	(57.9)
28		1.145	(29.1)	2.398	(60.9)	1.225	(31.1)	2.448	(62.2)
32		1.207	(30.7)	2.498	(63.4)	1.575	(40.0)	2.698	(68.5)
36		1.238	(31.4)	2.588	(65.7)	1.775	(45.1)	2.698	(68.5)

TABLE IV: CABLE ENTRY

Dash No.	K Max		L Max		Cable Range Min		Cable Range Max	
01	.781	(19.8)	.593	(15.1)	.062	(1.6)	.125	(3.2)
02	.968	(24.6)	.718	(18.2)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.843	(21.4)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.968	(24.6)	.375	(9.5)	.500	(12.7)
05	1.218	(30.9)	1.109	(28.2)	.500	(12.7)	.625	(15.9)
06	1.343	(34.1)	1.218	(30.9)	.625	(15.9)	.750	(19.1)
07	1.468	(37.3)	1.343	(34.1)	.750	(19.1)	.875	(22.2)
08	1.593	(40.5)	1.468	(37.3)	.875	(22.2)	1.000	(25.4)
09	1.718	(43.6)	1.593	(40.5)	1.000	(25.4)	1.125	(28.6)
10	1.843	(46.8)	1.718	(43.6)	1.125	(28.6)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with Connector Designator A.

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390-011
Splash-Proof EMI/RFI Cable Sealing Backshell
Light-Duty with Strain Relief
Type C - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

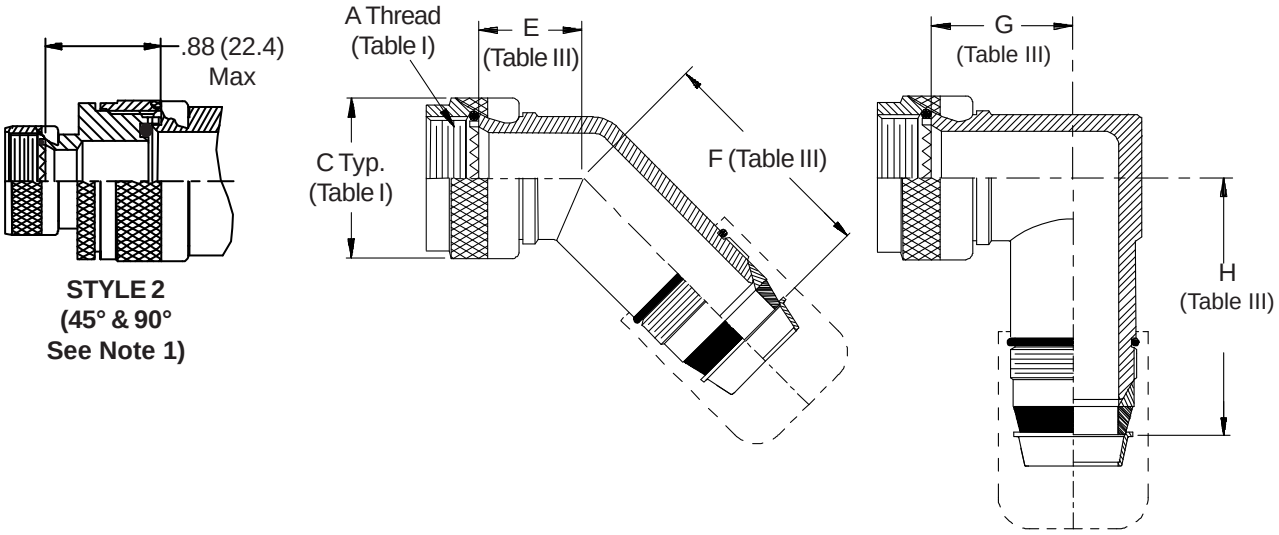
A-F-H-L-S

ROTATABLE COUPLING

TYPE C OVERALL SHIELD TERMINATION

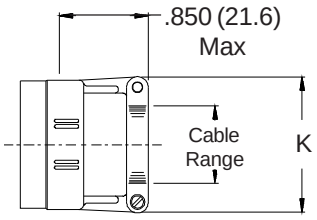
390 F K 011 M 16 05 L

- Product Series
- Connector Designator
- Angle and Profile
  - K = 45°
  - L = 90°
  - See 39-38 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Strain Relief Style (L, G)

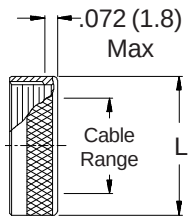


STYLE 2
(45° & 90°
See Note 1)

STYLE L
Light Duty
(Table IV)



STYLE G
Light Duty
(Table IV)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig.		E		F		G		H	
A-F-L-S	H	±.062	±(1.6)	±.062	±(1.6)	±.062	±(1.6)	±.062	±(1.6)
08	09	.398	(10.1)	2.210	(56.1)	.438	(11.1)	2.080	(52.8)
10	11	.458	(11.6)	2.270	(57.7)	.533	(13.5)	2.120	(53.8)
12	13	.518	(13.2)	2.330	(59.2)	.548	(13.9)	2.090	(53.1)
14	15	.588	(14.9)	2.420	(61.5)	.638	(16.2)	2.090	(53.1)
16	17	.678	(17.2)	2.530	(64.3)	.823	(20.9)	2.130	(54.1)
18	19	.868	(22.0)	2.720	(69.1)	.913	(23.2)	2.250	(57.2)
20	21	.868	(22.0)	2.720	(69.1)	.913	(23.2)	2.180	(55.4)
22	23	.958	(24.3)	2.870	(72.9)	1.063	(27.0)	2.240	(56.9)
24	25	.958	(24.3)	2.870	(72.9)	1.063	(27.0)	2.170	(55.1)
28		1.041	(26.4)	3.020	(76.7)	1.230	(31.2)	2.320	(58.9)
32		1.092	(27.7)	3.270	(83.1)	1.610	(40.9)	2.570	(65.3)
36		1.138	(28.9)	3.500	(88.9)	1.720	(43.7)	2.800	(71.1)

TABLE IV: CABLE ENTRY

Dash No.	K Max		L Max		Cable Range Min		Cable Range Max	
01	.781	(19.8)	.593	(15.1)	.062	(1.6)	.125	(3.2)
02	.968	(24.6)	.718	(18.2)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.843	(21.4)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.968	(24.6)	.375	(9.5)	.500	(12.7)
05	1.218	(30.9)	1.109	(28.2)	.500	(12.7)	.625	(15.9)
06	1.343	(34.1)	1.218	(30.9)	.625	(15.9)	.750	(19.1)
07	1.468	(37.3)	1.343	(34.1)	.750	(19.1)	.875	(22.2)
08	1.593	(40.5)	1.468	(37.3)	.875	(22.2)	1.000	(25.4)
09	1.718	(43.6)	1.593	(40.5)	1.000	(25.4)	1.125	(28.6)
10	1.843	(46.8)	1.718	(43.6)	1.125	(28.6)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with Connector Designator A.

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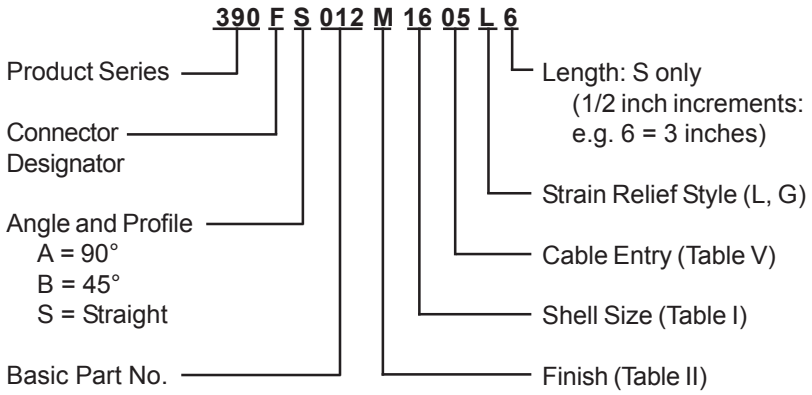
390-012
Splash-Proof EMI/RFI Cable Sealing Backshell
Light-Duty with Strain Relief
Type C - Direct Coupling - Low Profile

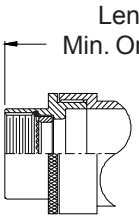
CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

*** Conn. Desig. B See Note 5**

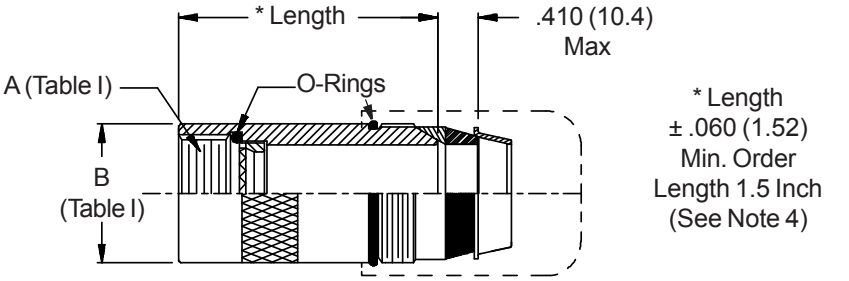
DIRECT COUPLING

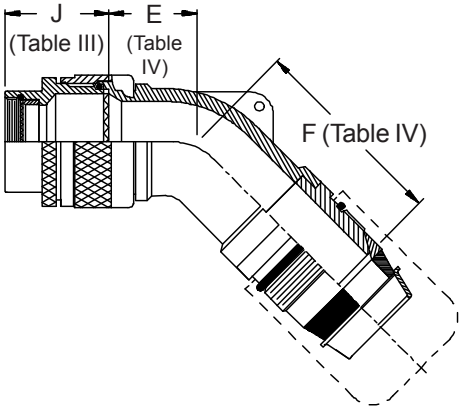
TYPE C OVERALL SHIELD TERMINATION

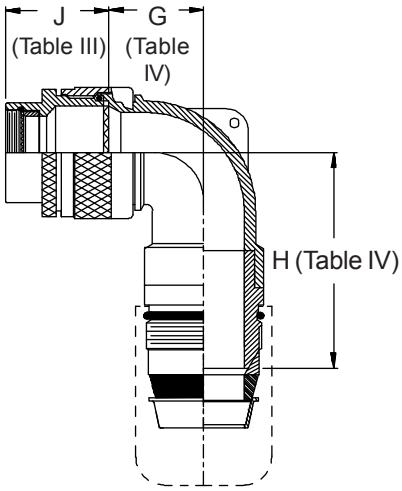




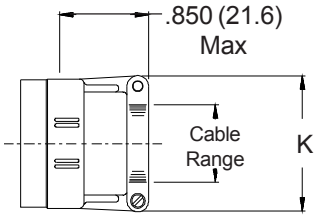
STYLE 2 (STRAIGHT See Note 1)



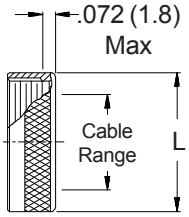




STYLE L
Light Duty
(Table V)



STYLE G
Light Duty
(Table V)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: CABLE ENTRY

Elbow Size	E Max		F Max		G Max		H Max	
01	.457	(11.6)	1.700	(43.2)	.636	(16.2)	1.698	(43.1)
02	.457	(11.6)	1.700	(43.2)	.636	(16.2)	1.698	(43.1)
03	.630	(16.0)	1.748	(44.4)	.709	(18.0)	1.818	(46.2)
04	.692	(17.6)	1.808	(45.9)	.734	(18.6)	1.838	(46.7)
05	.755	(19.2)	1.898	(48.2)	.825	(21.0)	1.908	(48.5)
06	.848	(21.5)	1.998	(50.7)	.990	(25.1)	1.998	(50.7)
07	1.036	(26.3)	2.198	(55.8)	1.090	(27.7)	2.168	(55.1)
08	1.130	(28.7)	2.338	(59.4)	1.325	(33.7)	2.278	(57.9)
09	1.130	(28.7)	2.338	(59.4)	1.325	(33.7)	2.278	(57.9)
10	1.130	(28.7)	2.338	(59.4)	1.325	(33.7)	2.278	(57.9)

TABLE V: CABLE ENTRY

Dash No.	K Max		L Max		Cable Range Min		Cable Range Max	
01	.781	(19.8)	.593	(15.1)	.062	(1.6)	.125	(3.2)
02	.968	(24.6)	.718	(18.2)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.843	(21.4)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.968	(24.6)	.375	(9.5)	.500	(12.7)
05	1.218	(30.9)	1.109	(28.2)	.500	(12.7)	.625	(15.9)
06	1.343	(34.1)	1.218	(30.9)	.625	(15.9)	.750	(19.1)
07	1.468	(37.3)	1.343	(34.1)	.750	(19.1)	.875	(22.2)
08	1.593	(40.5)	1.468	(37.3)	.875	(22.2)	1.000	(25.4)
09	1.718	(43.6)	1.593	(40.5)	1.000	(25.4)	1.125	(28.6)
10	1.843	(46.8)	1.718	(43.6)	1.125	(28.6)	1.250	(31.8)

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390-059
Splash-Proof EMI/RFI Cable Sealing Backshell
Light-Duty with Strain Relief
Type C - Self-Locking Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

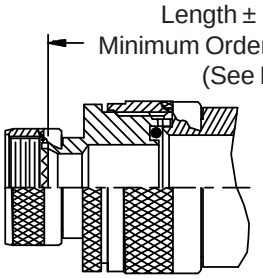
A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

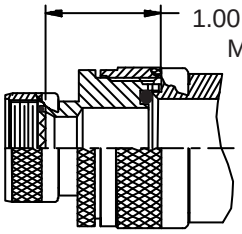
TYPE C OVERALL SHIELD TERMINATION

390 F S 059 M 16 05 L 6

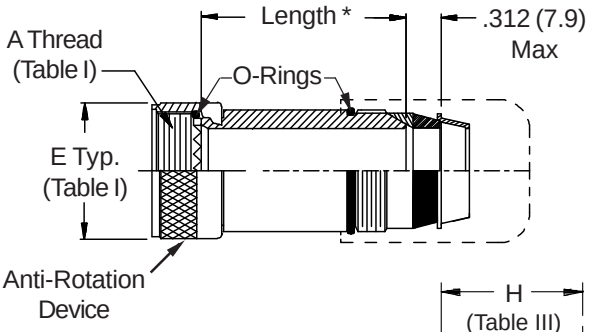
- Product Series
- Connector Designator
- Angle and Profile
  - J = 90°
  - H = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Strain Relief Style (L, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



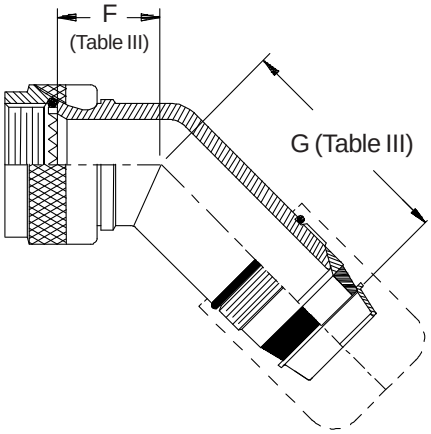
STYLE 2 (STRAIGHT See Note 1)

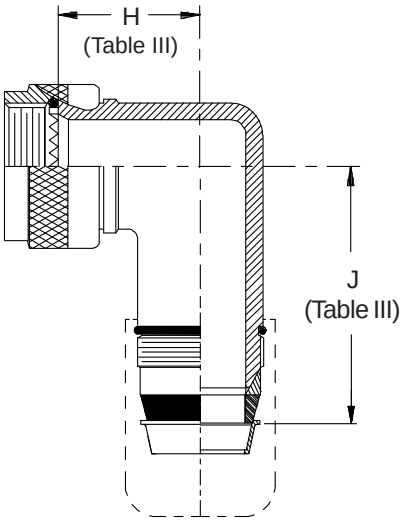


STYLE 2 (45° & 90° See Note 1)

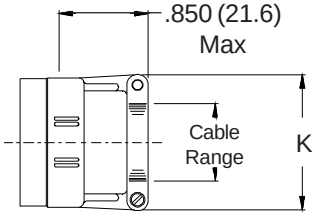


* Length ± .060 (1.52) Minimum Order Length 2.0 Inch (See Note 4)

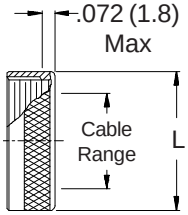




STYLE L
Light Duty
(Table IV)



STYLE G
Light Duty
(Table IV)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	2.210	(56.1)	.906	(23.0)	2.080	(52.8)
10	11	.820	(20.8)	2.270	(57.7)	.966	(24.5)	2.120	(53.8)
12	13	.844	(21.4)	2.330	(59.2)	1.026	(26.1)	2.090	(53.1)
14	15	.861	(21.9)	2.420	(61.5)	1.076	(27.3)	2.090	(53.1)
16	17	.888	(22.6)	2.530	(64.3)	1.136	(28.9)	2.130	(54.1)
18	19	.904	(23.0)	2.720	(69.1)	1.176	(29.9)	2.250	(57.2)
20	21	.929	(23.6)	2.720	(69.1)	1.236	(31.4)	2.180	(55.4)
22	23	.956	(24.3)	2.870	(72.9)	1.296	(32.9)	2.240	(56.9)
24	25	.979	(24.9)	2.870	(72.9)	1.356	(34.4)	2.170	(55.1)
28		1.197	(30.4)	3.020	(76.7)	1.636	(41.6)	2.320	(58.9)
32		1.280	(32.5)	3.270	(83.1)	1.780	(45.2)	2.570	(65.3)
36		1.294	(32.9)	3.500	(88.9)	1.876	(47.7)	2.800	(71.1)

TABLE IV: CABLE ENTRY

Dash No.	K Max		L Max		Cable Range Min		Cable Range Max	
01	.781	(19.8)	.593	(15.1)	.062	(1.6)	.125	(3.2)
02	.968	(24.6)	.718	(18.2)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.843	(21.4)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.968	(24.6)	.375	(9.5)	.500	(12.7)
05	1.218	(30.9)	1.109	(28.2)	.500	(12.7)	.625	(15.9)
06	1.343	(34.1)	1.218	(30.9)	.625	(15.9)	.750	(19.1)
07	1.468	(37.3)	1.343	(34.1)	.750	(19.1)	.875	(22.2)
08	1.593	(40.5)	1.468	(37.3)	.875	(22.2)	1.000	(25.4)
09	1.718	(43.6)	1.593	(40.5)	1.000	(25.4)	1.125	(28.6)
10	1.843	(46.8)	1.718	(43.6)	1.125	(28.6)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with Connector Designator A.

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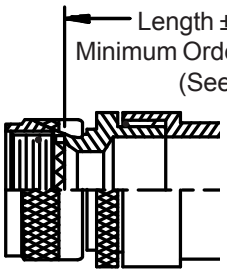
390-056
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

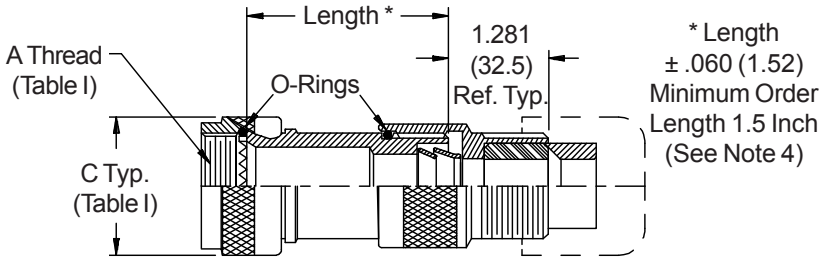
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

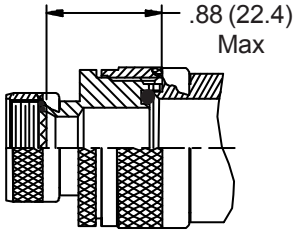
390 F S 056 M 16 10 D M 6

- 390 — Product Series
- F — Connector Designator
- S — Angle and Profile: A = 90°, B = 45°, S = Straight
- 056 — Basic Part No.
- M — Finish (Table II)
- 16 — Shell Size (Table I)
- 10 — Cable Entry (Tables X, XI)
- D — Termination (Note 6): D = 2 Rings, T = 3 Rings
- M — Strain Relief Style (H, A, M, D)
- 6 — Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

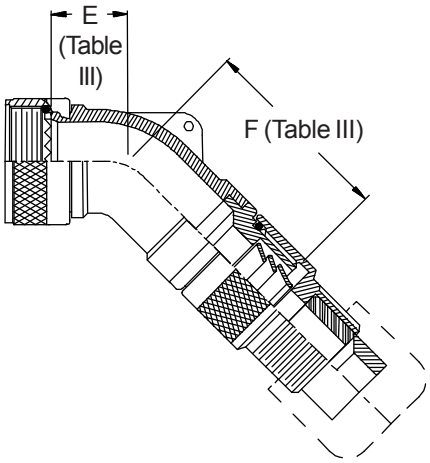


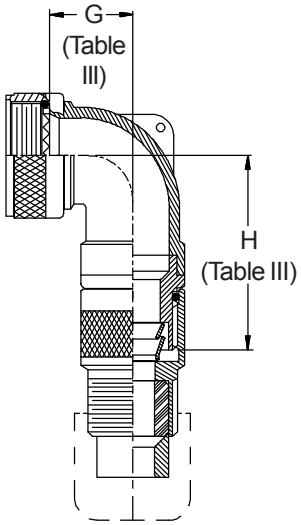
STYLE 2 (STRAIGHT See Note 1)



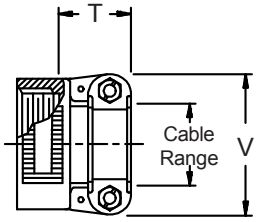


STYLE 2 (45° & 90° See Note 1)

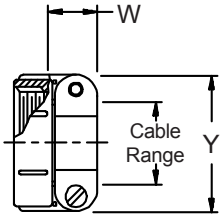




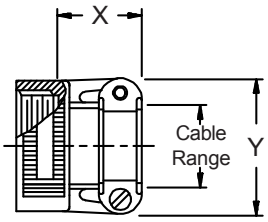
STYLE H
Heavy Duty
(Table X)



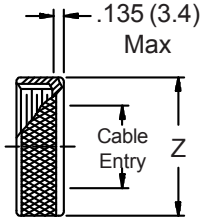
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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with Strain Relief
Type E - Rotatable Coupling - Low Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.760	(44.7)	.500	(12.7)	1.880	(47.8)
10	11	.520	(13.2)	1.920	(48.8)	.595	(15.1)	1.990	(50.5)
12	13	.582	(14.8)	1.990	(50.5)	.610	(15.5)	2.020	(51.3)
14	15	.645	(16.4)	2.144	(54.5)	.700	(17.8)	2.154	(54.7)
16	17	.738	(18.7)	2.254	(57.3)	.885	(22.5)	2.244	(57.0)
18	19	.926	(23.5)	2.444	(62.1)	.975	(24.8)	2.414	(61.3)
20	21	.926	(23.5)	2.444	(62.1)	.975	(24.8)	2.414	(61.3)
22	23	1.020	(25.9)	2.657	(67.5)	1.125	(28.6)	2.587	(65.7)
24	25	1.020	(25.9)	2.657	(67.5)	1.125	(28.6)	2.587	(65.7)
28		1.145	(29.1)	2.690	(68.3)	1.225	(31.1)	2.740	(69.6)
32		1.207	(30.7)	2.790	(70.9)	1.575	(40.0)	2.990	(75.9)
36		1.238	(31.4)	2.930	(74.4)	1.775	(45.1)	3.040	(77.2)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.
6. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

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390-056
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Rotatable Coupling - Full Radius Profile

CONNECTOR DESIGNATORS

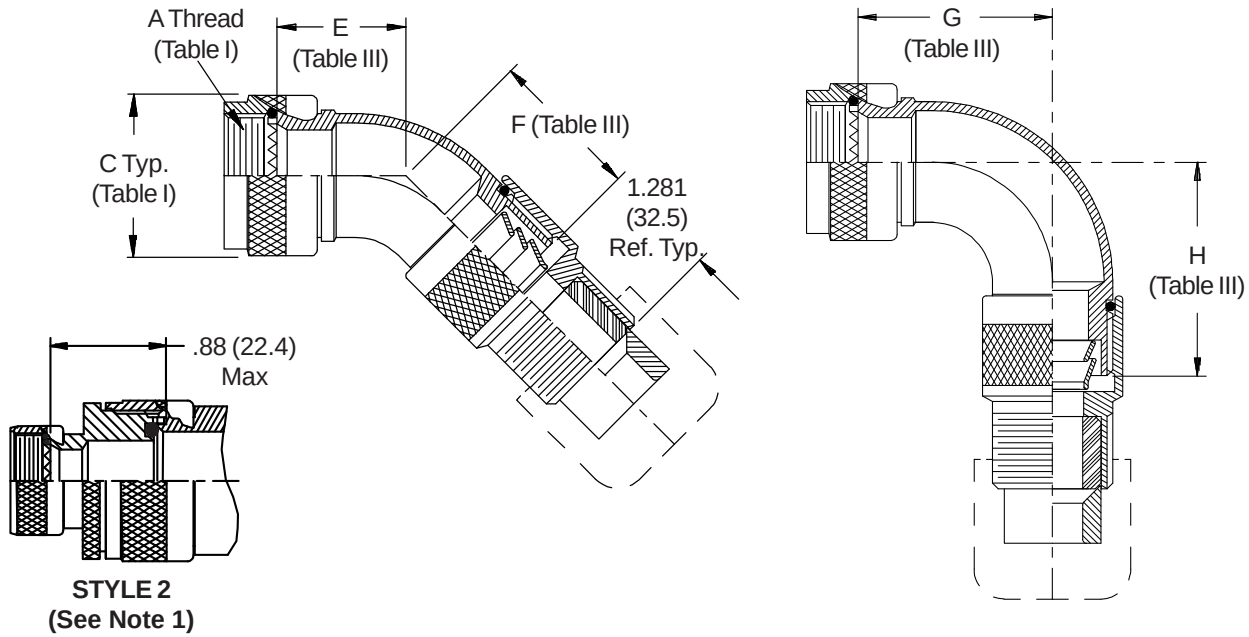
A-F-H-L-S

ROTATABLE COUPLING

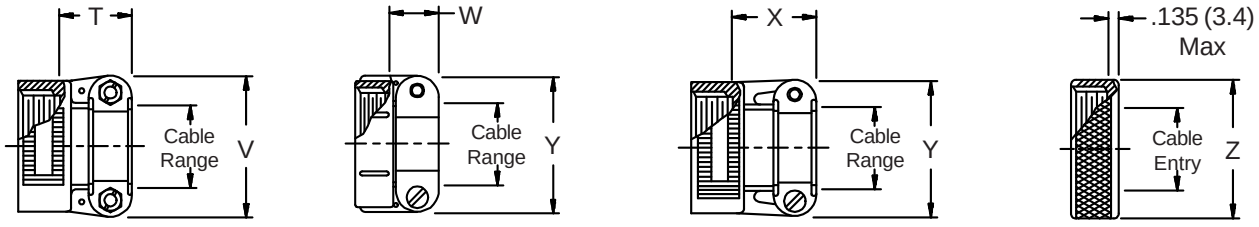
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F N 056 M 16 10 D M

- Product Series
- Connector Designator
- Angle and Profile
  - M = 90°
  - N = 45°
  - See page 39-46 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 5)
  - D = 2 Rings, T = 3 Rings
- Strain Relief Style (H, A, M, D)



STYLE 2
(See Note 1)



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Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Rotatable Coupling - Full Radius Profile

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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.812	(20.6)	.844	(21.4)	1.125	(28.6)	1.157	(29.4)
10	11	.875	(22.2)	.907	(23.0)	1.250	(31.8)	1.281	(32.5)
12	13	.938	(23.8)	.969	(24.6)	1.375	(34.9)	1.407	(35.7)
14	15	1.000	(25.4)	1.031	(26.2)	1.500	(38.1)	1.531	(38.9)
16	17	1.062	(27.0)	1.094	(27.8)	1.625	(41.3)	1.657	(42.1)
18	19	1.094	(27.8)	1.125	(28.6)	1.750	(44.5)	1.781	(45.2)
20	21	1.156	(29.4)	1.188	(30.2)	1.875	(47.6)	1.907	(48.4)
22	23	1.188	(30.2)	1.219	(31.0)	2.000	(50.8)	2.031	(51.6)
24	25	1.250	(31.8)	1.281	(32.5)	2.125	(54.0)	2.157	(54.8)
28		1.344	(34.1)	1.594	(40.5)	2.375	(60.3)	2.594	(65.9)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Interface O-Ring not supplied with connector designator A.
5. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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390-056
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

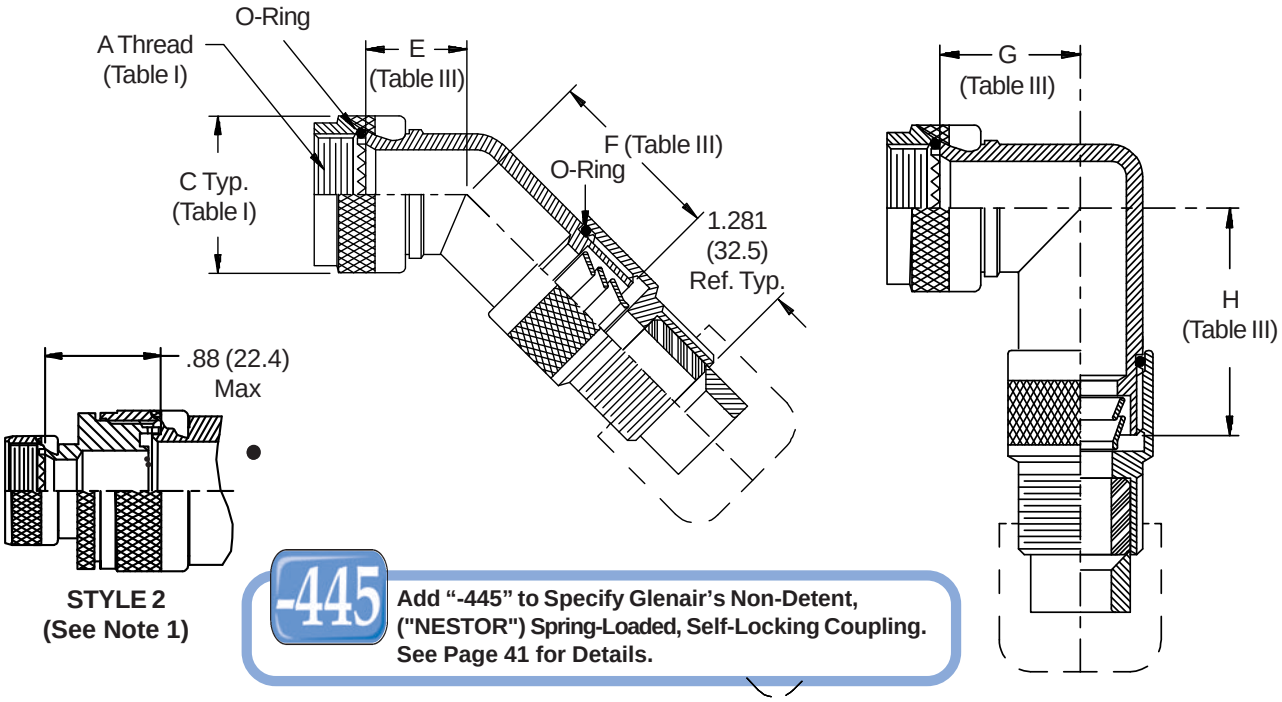
A-F-H-L-S

ROTATABLE COUPLING

TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F H 056 M 16 10 D M

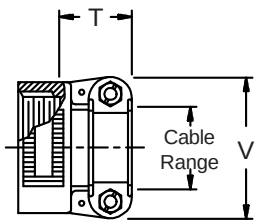
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 39-46 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 5)
  - D = 2 Rings, T = 3 Rings
- Strain Relief Style (H, A, M, D)



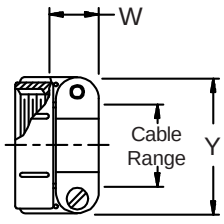
STYLE 2
(See Note 1)

-445 **Add "-445" to Specify Glenair's Non-Detent, ("NESTOR") Spring-Loaded, Self-Locking Coupling. See Page 41 for Details.**

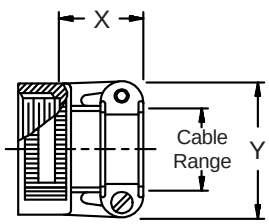
STYLE H
Heavy Duty
(Table X)



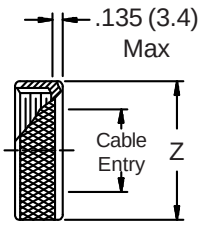
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	1.031	(26.2)	.750	(19.1)	1.157	(29.4)
10	11	.664	(16.9)	1.063	(27.0)	.810	(20.6)	1.217	(30.9)
12	13	.688	(17.5)	1.094	(27.8)	.870	(22.1)	1.277	(32.4)
14	15	.705	(17.9)	1.127	(28.6)	.920	(23.4)	1.347	(34.2)
16	17	.732	(18.6)	1.147	(29.1)	.980	(24.9)	1.407	(35.7)
18	19	.748	(19.0)	1.157	(29.4)	1.020	(25.9)	1.427	(36.2)
20	21	.773	(19.6)	1.177	(29.9)	1.080	(27.4)	1.487	(37.8)
22	23	.800	(20.3)	1.217	(30.9)	1.140	(29.0)	1.567	(39.8)
24	25	.823	(20.9)	1.247	(31.7)	1.200	(30.5)	1.637	(41.6)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Interface O-Ring not supplied with connector designator A.
5. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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390-057
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

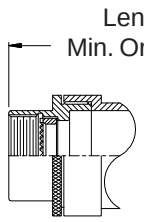
*** Conn. Desig. B See Note 5**

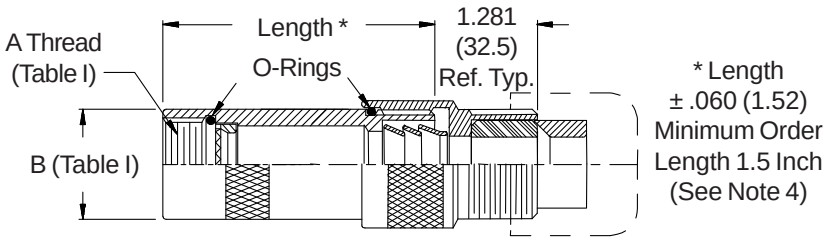
DIRECT COUPLING

TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

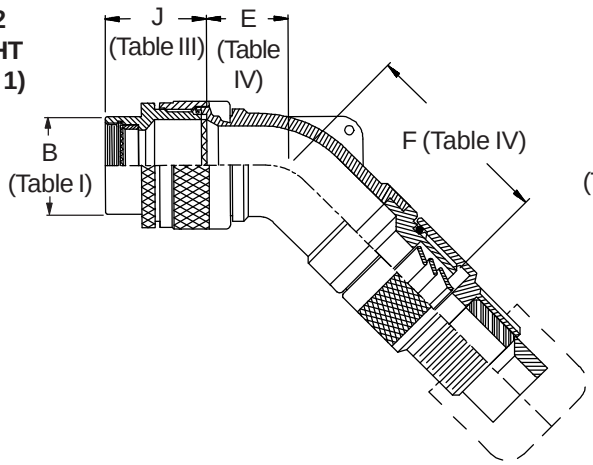
390 F S 057 M 16 10 D M 6

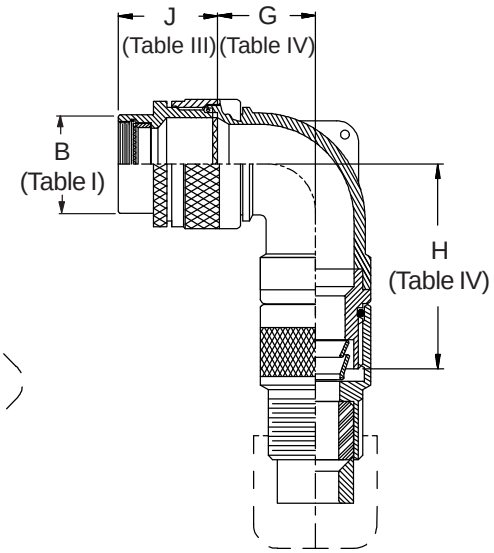
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 3)
  - D = 2 Rings, T = 3 Rings
- Strain Relief Style (H, A, M, D)
- Length: S only
  - (1/2 inch increments: e.g. 6 = 3 inches)



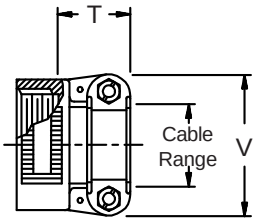


STYLE 2
(STRAIGHT
See Note 1)

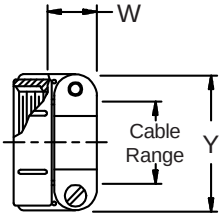




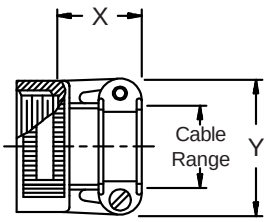
STYLE H
Heavy Duty
(Table X)



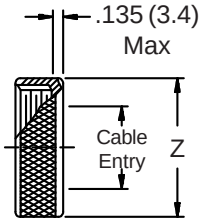
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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390-057
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
03	.630	(16.0)	2.117	(53.8)	.636	(16.2)	2.067	(52.5)
04	.630	(16.0)	2.117	(35.8)	.636	(16.2)	2.067	(52.5)
06	.630	(16.0)	2.117	(35.8)	.710	(18.0)	2.187	(55.5)
08	.692	(17.6)	2.179	(55.3)	.731	(18.6)	2.207	(39.1)
10	.755	(19.2)	2.862	(72.7)	.825	(21.0)	2.867	(39.6)
12	.848	(21.5)	2.972	(75.5)	.988	(25.1)	2.957	(41.4)
16	1.036	(26.3)	3.159	(80.2)	1.087	(27.6)	3.132	(48.0)
20	1.130	(28.7)	3.368	(85.5)	1.325	(33.7)	3.303	(50.8)
24	1.255	(31.9)	3.408	(86.6)	1.337	(34.0)	3.453	(50.8)
28	1.317	(33.5)	3.553	(90.2)	1.827	(46.4)	3.703	(55.1)
32	1.348	(34.2)	3.646	(92.6)	2.027	(51.5)	3.753	(61.5)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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390-057
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

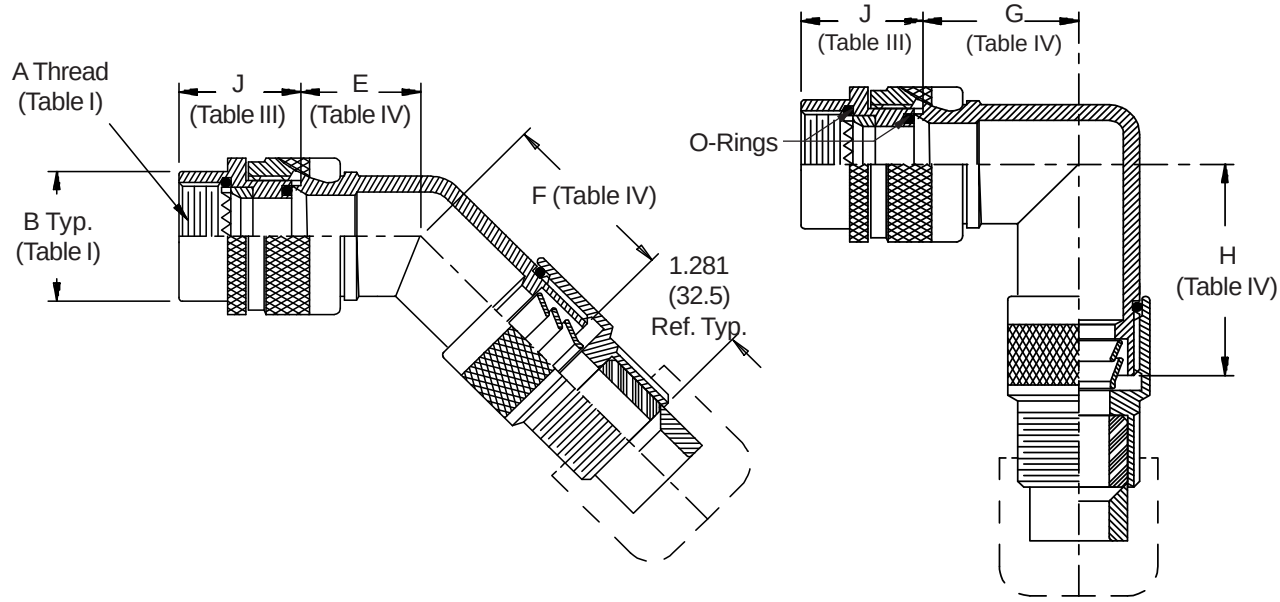
*** Conn. Desig. B See Note 4**

DIRECT COUPLING

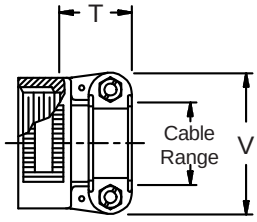
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F H 057 M 16 10 D M

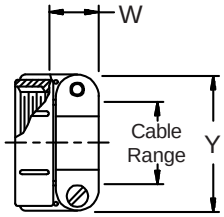
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 39-52 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 3)
  - D = 2 Rings, T = 3 Rings
- Strain Relief Style (H, A, M, D)



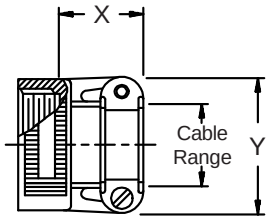
STYLE H
Heavy Duty
(Table X)



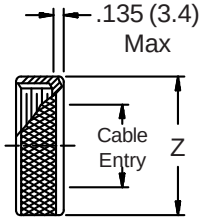
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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390-057
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Direct Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
03	.664	(16.9)	1.039	(26.4)	.810	(20.6)	1.179	(29.9)
04	.688	(17.5)	1.059	(26.9)	.870	(22.1)	1.239	(31.5)
06	.705	(17.9)	1.089	(27.7)	.920	(23.4)	1.309	(33.2)
08	.732	(18.6)	1.109	(28.7)	.980	(24.9)	1.369	(34.8)
10	.732	(18.6)	1.109	(28.7)	.980	(24.9)	1.369	(34.8)
12	.773	(19.6)	1.139	(28.9)	1.080	(27.4)	1.449	(36.8)
16	.823	(20.9)	1.209	(30.7)	1.200	(30.5)	1.599	(40.6)
20	1.041	(26.4)	1.379	(34.9)	1.480	(37.6)	1.839	(46.7)
24	1.092	(27.7)	1.419	(36.0)	1.610	(40.9)	1.929	(49.0)
28	1.138	(28.9)	1.469	(37.3)	1.720	(43.7)	2.039	(51.8)
32	1.184	(30.1)	1.509	(38.3)	1.830	(46.5)	2.149	(54.6)
40	1.287	(32.7)	1.609	(40.9)	2.080	(52.8)	2.399	(60.9)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.
4. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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390-058
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Self Locking Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

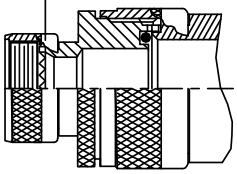
A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

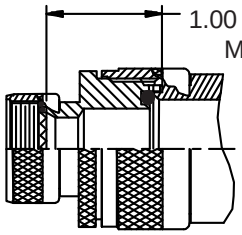
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F S 058 M 16 10 D M 6

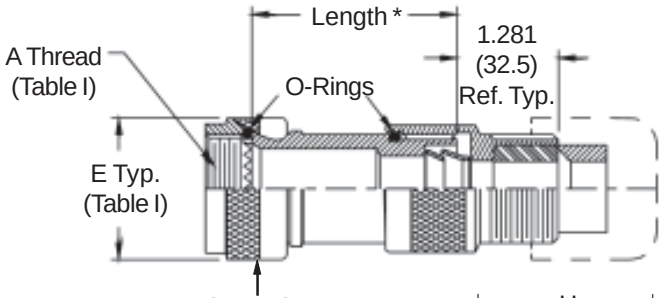
- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 6)
  - D = 2 Rings, T = 3 Rings
- Strain Relief Style (H, A, M, D)
- Length: S only
  - (1/2 inch increments: e.g. 6 = 3 inches)

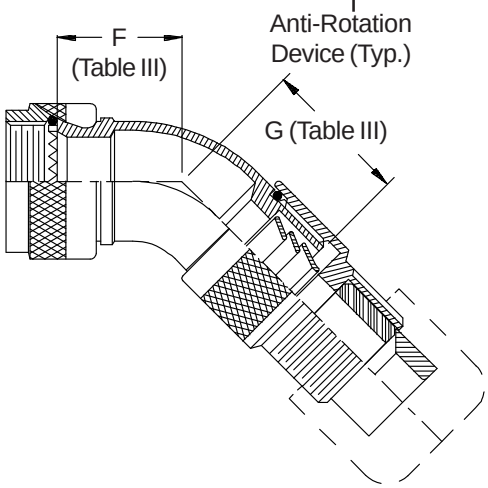


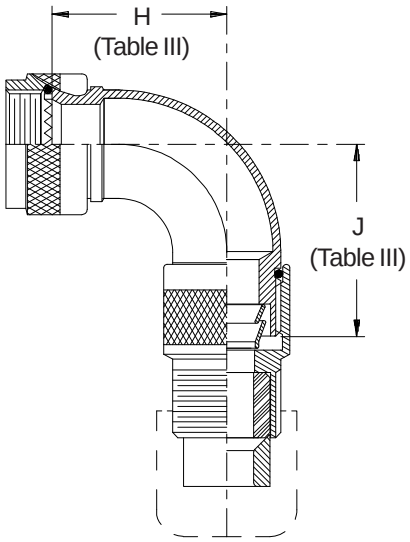
STYLE 2 (STRAIGHT See Note 1)



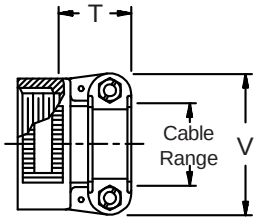
STYLE 2 (45° & 90° See Note 1)



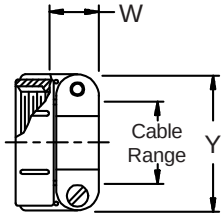




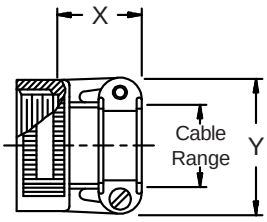
STYLE H
Heavy Duty
(Table X)



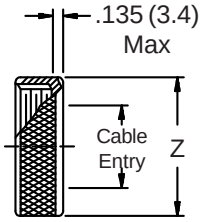
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.968	(24.6)	1.190	(30.2)	1.281	(32.5)	1.445	(36.7)
10	11	1.031	(26.2)	1.240	(31.5)	1.406	(35.7)	1.570	(39.9)
12	13	1.094	(27.8)	1.300	(33.0)	1.531	(38.9)	1.695	(43.1)
14	15	1.156	(29.4)	1.360	(33.3)	1.656	(42.1)	1.820	(46.2)
16	17	1.218	(30.9)	1.420	(36.1)	1.781	(45.2)	1.945	(49.4)
18	19	1.250	(31.8)	1.490	(37.8)	1.856	(47.1)	2.070	(52.6)
20	21	1.312	(33.3)	1.550	(39.4)	2.031	(51.6)	2.195	(55.8)
22	23	1.344	(34.1)	1.610	(40.9)	2.156	(54.8)	2.320	(58.9)
24	25	1.406	(35.7)	1.670	(42.4)	2.281	(57.9)	2.445	(62.1)
28		1.500	(38.1)	1.890	(48.0)	2.531	(64.3)	2.695	(68.5)
61		1.406	(35.7)	1.670	(42.4)	2.281	(57.9)	2.445	(62.1)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.
6. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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390-058
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type E - Self Locking Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

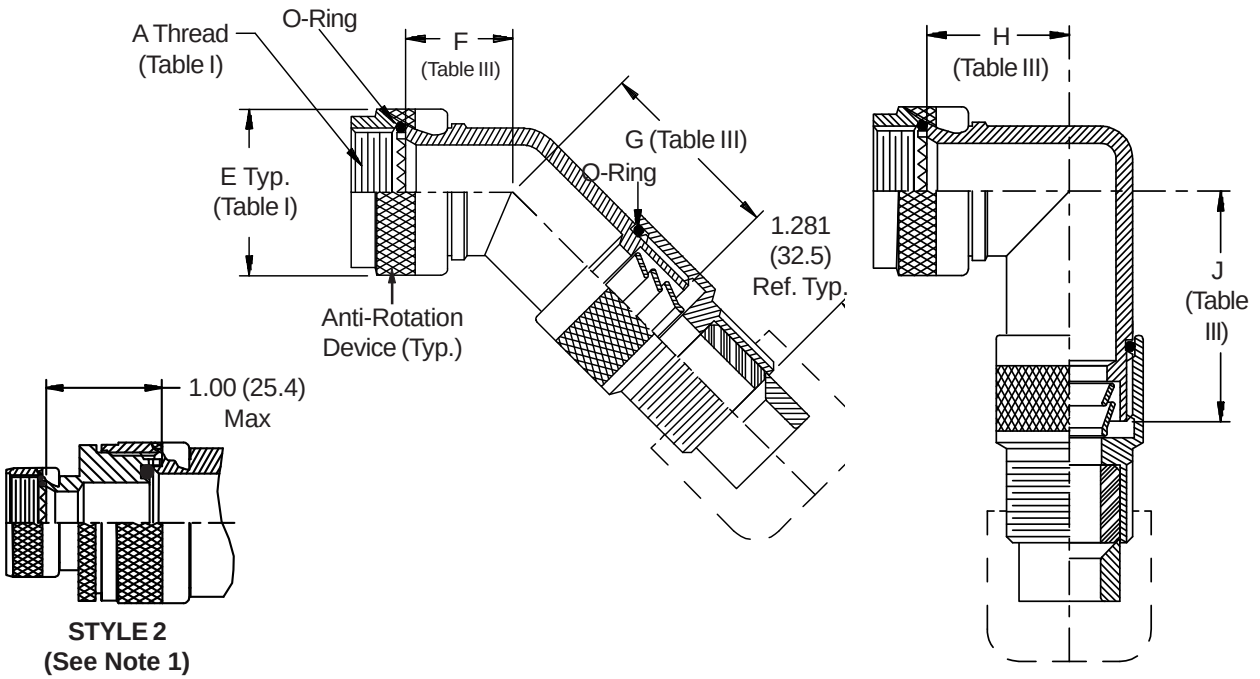
A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

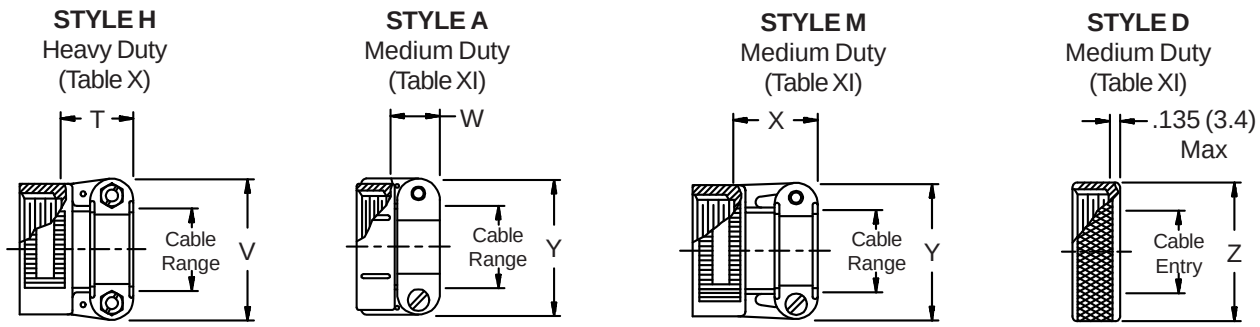
TYPE E INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F H 058 M 16 10 D M

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 39-56 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Termination (Note 5)
  - D = 2 Rings, T = 3 Rings
- Strain Relief Style (H, A, M, D)



STYLE 2
(See Note 1)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	1.031	(26.2)	.906	(23.0)	1.157	(29.4)
10	11	.820	(20.8)	1.063	(27.0)	.966	(24.5)	1.217	(30.9)
12	13	.844	(21.4)	1.094	(27.8)	1.026	(26.1)	1.277	(32.4)
14	15	.861	(21.9)	1.127	(28.6)	1.076	(27.3)	1.347	(34.2)
16	17	.888	(22.6)	1.147	(29.1)	1.136	(28.9)	1.407	(35.7)
18	19	.904	(23.0)	1.157	(29.4)	1.176	(29.9)	1.427	(36.2)
20	21	.929	(23.6)	1.177	(29.9)	1.236	(31.4)	1.487	(37.8)
22	23	.956	(24.3)	1.217	(30.9)	1.296	(32.9)	1.567	(39.8)
24	25	.979	(24.9)	1.247	(31.7)	1.356	(34.4)	1.637	(41.6)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Interface O-Ring not supplied with connector designator A.
5. Designate Symbol T for 3 ring termination of individual and overall braid. Designate D for standard 2 ring termination of individual or overall braid.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

** Not Applicable Style D

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390-053
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

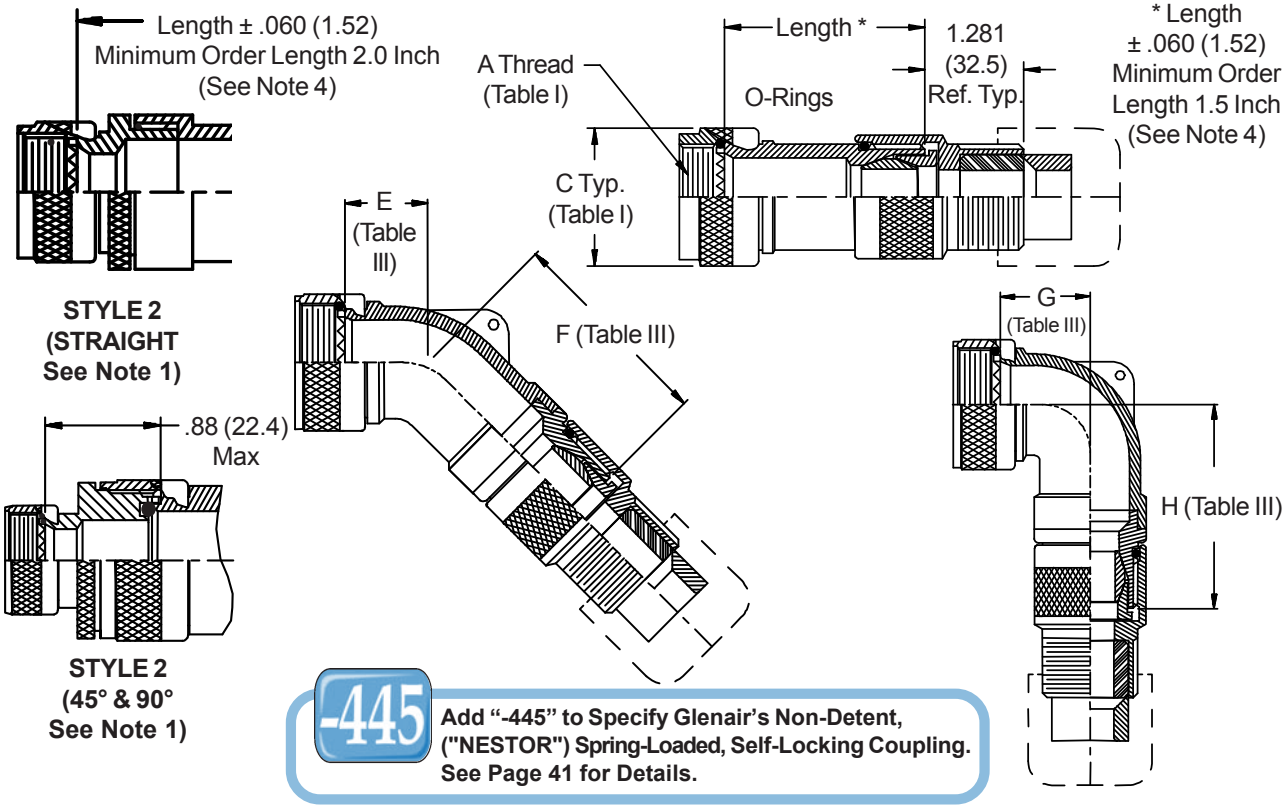
A-F-H-L-S

ROTATABLE COUPLING

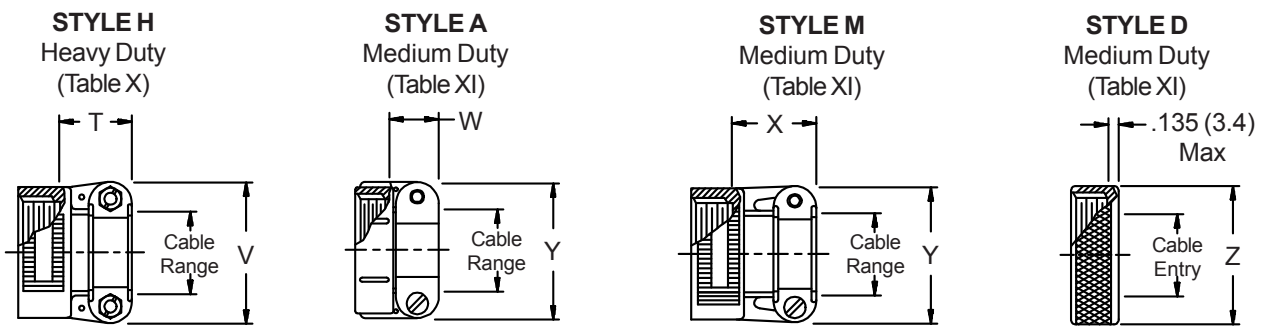
TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F S 053 M 16 10 M 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



-445 **Add "-445" to Specify Glenair's Non-Detent, ("NESTOR") Spring-Loaded, Self-Locking Coupling. See Page 41 for Details.**



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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.410	(35.8)	.500	(12.7)	1.420	(36.1)
10	11	.520	(13.2)	1.470	(37.3)	.595	(15.1)	1.540	(39.1)
12	13	.582	(14.8)	1.530	(38.9)	.610	(15.5)	1.560	(39.6)
14	15	.645	(16.4)	2.144	(54.5)	.700	(17.8)	2.154	(54.7)
16	17	.738	(18.7)	2.254	(57.3)	.885	(22.5)	2.244	(57.0)
18	19	.926	(23.5)	2.444	(62.1)	.975	(24.8)	2.414	(61.3)
20	21	.926	(23.5)	2.444	(62.1)	.975	(24.8)	2.414	(61.3)
22	23	1.020	(25.9)	2.657	(67.5)	1.125	(28.6)	2.587	(65.7)
24	25	1.020	(25.9)	2.657	(67.5)	1.125	(28.6)	2.587	(65.7)
28		1.145	(29.1)	2.690	(68.3)	1.225	(31.1)	2.740	(69.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.3)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.3)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

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390-053
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Rotatable Coupling - Full Radius Profile

CONNECTOR DESIGNATORS

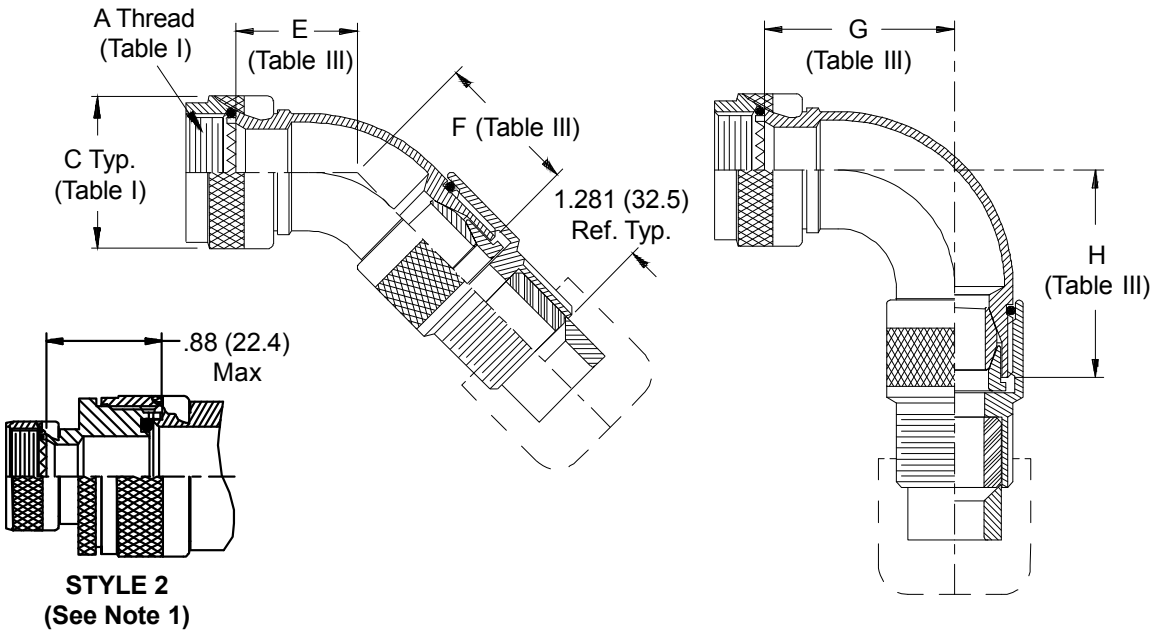
A-F-H-L-S

ROTATABLE COUPLING

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

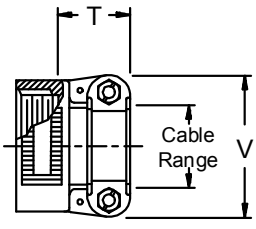
390 F N 053 M 16 10 M

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 39-60 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)

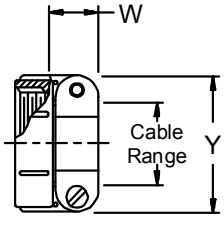


STYLE 2
(See Note 1)

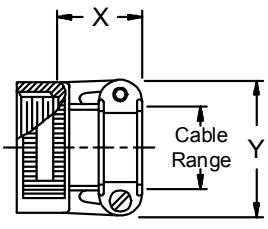
STYLE H
Heavy Duty
(Table X)



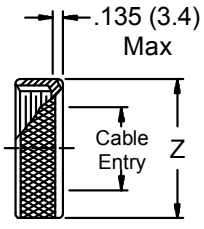
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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390-053
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Rotatable Coupling - Full Radius Profile

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.812	(20.6)	1.095	(27.8)	1.125	(28.6)	1.287	(32.7)
10	11	.875	(22.2)	1.145	(29.1)	1.250	(31.8)	1.411	(35.8)
12	13	.938	(23.8)	1.195	(30.4)	1.375	(34.9)	1.537	(39.0)
14	15	1.000	(25.4)	1.245	(31.6)	1.500	(38.1)	1.761	(44.7)
16	17	1.062	(27.0)	1.300	(33.0)	1.625	(41.3)	1.787	(45.4)
18	19	1.094	(27.8)	1.350	(34.3)	1.750	(44.5)	1.911	(48.5)
20	21	1.156	(29.4)	1.400	(35.6)	1.875	(47.6)	2.037	(51.7)
22	23	1.188	(30.2)	1.455	(37.0)	2.000	(50.8)	2.161	(54.9)
24	25	1.250	(31.8)	1.505	(38.1)	2.125	(54.0)	2.287	(58.1)
28		1.344	(34.1)	1.594	(40.5)	2.375	(60.3)	2.594	(65.9)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.3)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Interface O-Ring not supplied with connector designator A.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.3)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

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390-053
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

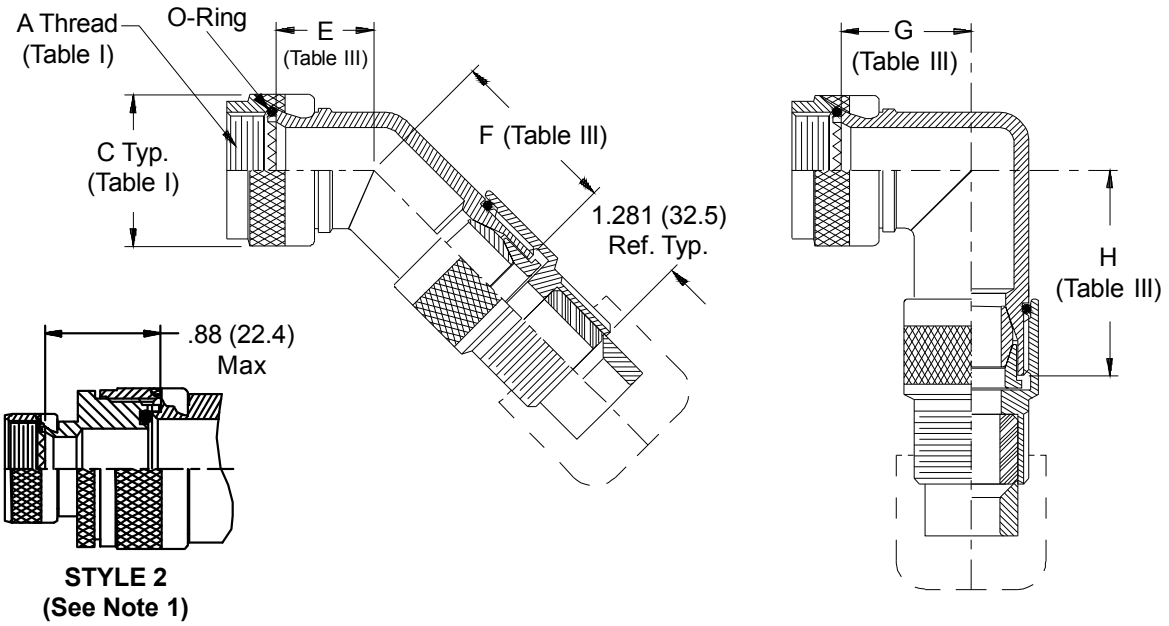
A-F-H-L-S

ROTATABLE COUPLING

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

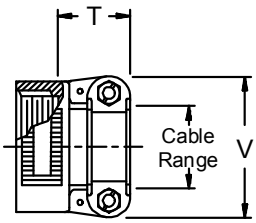
390 F H 053 M 16 10 M

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 39-60 for straight
- Basic Part No.
- Strain Relief Style (H, A, M, D)
- Cable Entry (Tables X, XI)
- Shell Size (Table I)
- Finish (Table II)

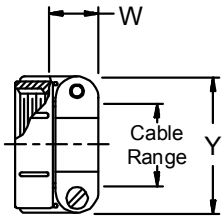


STYLE 2
(See Note 1)

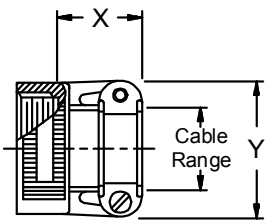
STYLE H
Heavy Duty
(Table X)



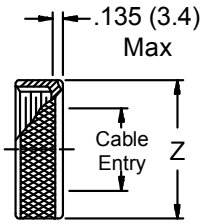
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III:ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	1.031	(26.2)	.750	(19.1)	1.157	(29.4)
10	11	.664	(16.9)	1.063	(27.0)	.810	(20.6)	1.217	(30.9)
12	13	.688	(17.5)	1.094	(27.8)	.870	(22.1)	1.277	(32.4)
14	15	.705	(17.9)	1.119	(28.4)	.920	(23.4)	1.347	(34.2)
16	17	.732	(18.6)	1.147	(29.1)	.980	(24.9)	1.407	(35.7)
18	19	.748	(19.0)	1.157	(29.4)	1.020	(25.9)	1.427	(36.2)
20	21	.773	(19.6)	1.177	(29.9)	1.080	(27.4)	1.487	(37.8)
22	23	.800	(20.3)	1.217	(30.9)	1.140	(29.0)	1.567	(39.8)
24	25	.823	(20.9)	1.247	(31.7)	1.200	(30.5)	1.637	(41.6)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.3)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Interface O-Ring not supplied with connector designator A.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.3)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

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390-054
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

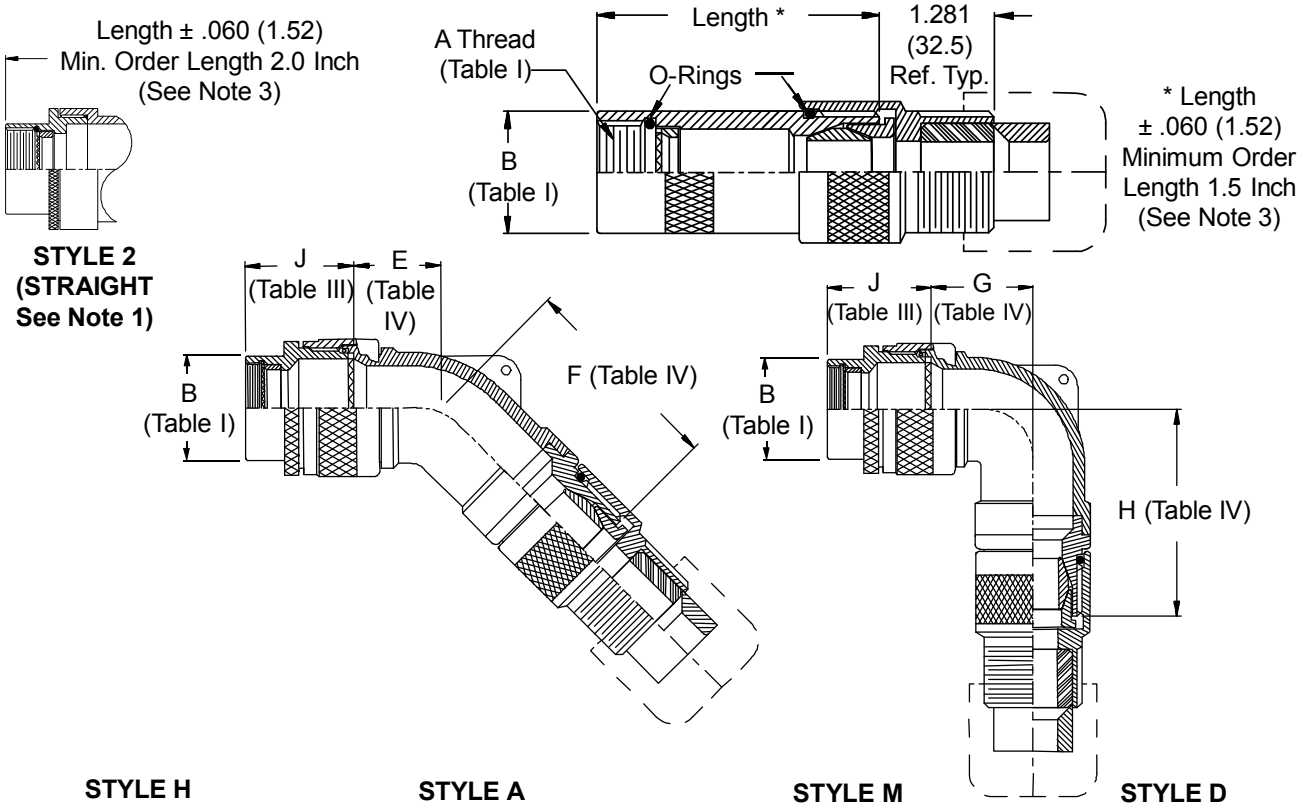
*** Conn. Desig. B See Note 4**

DIRECT COUPLING

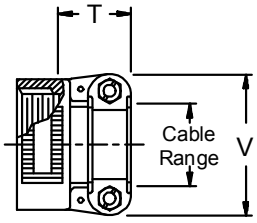
TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F S 054 M 16 10 M 6

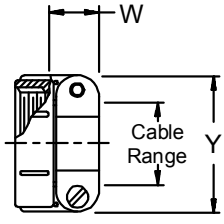
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



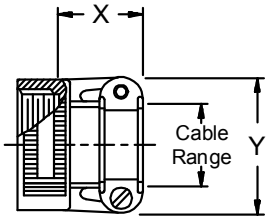
STYLE H
Heavy Duty
(Table X)



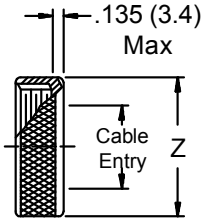
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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390-054
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
03	.630	(16.0)	2.117	(53.8)	.636	(16.2)	2.067	(52.5)
04	.630	(16.0)	2.117	(35.8)	.636	(16.2)	2.067	(52.5)
06	.630	(16.0)	2.117	(35.8)	.710	(18.0)	2.187	(55.5)
08	.692	(17.6)	2.179	(55.3)	.731	(18.6)	2.207	(39.1)
10	.755	(19.2)	2.862	(72.7)	.825	(21.0)	2.867	(39.6)
12	.848	(21.5)	2.972	(75.5)	.988	(25.1)	2.957	(41.4)
16	1.036	(26.3)	3.159	(80.2)	1.087	(27.6)	3.132	(48.0)
20	1.130	(28.7)	3.368	(85.5)	1.325	(33.7)	3.303	(50.8)
24	1.255	(31.9)	3.408	(86.6)	1.337	(34.0)	3.453	(50.8)
28	1.317	(33.5)	3.553	(90.2)	1.827	(46.4)	3.703	(55.1)
32	1.348	(34.2)	3.646	(92.6)	2.027	(51.5)	3.753	(61.5)

TABLE X: CABLE ENTRY

Dash No.	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.3)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)
32	1.399	(35.5)	3.020	(76.7)	1.437	(36.5)	1.875	(47.6)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Consult factory for shorter lengths on staight backshells.
4. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max		X Max		Y Max		Z Max		Cable Range Min		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.3)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)
32*	1.187	(30.1)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.437	(36.5)	1.875	(47.6)
40*	1.125	(28.6)	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.875	(47.6)	2.375	(60.3)

* Not available in Style M clamp.

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390-054
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

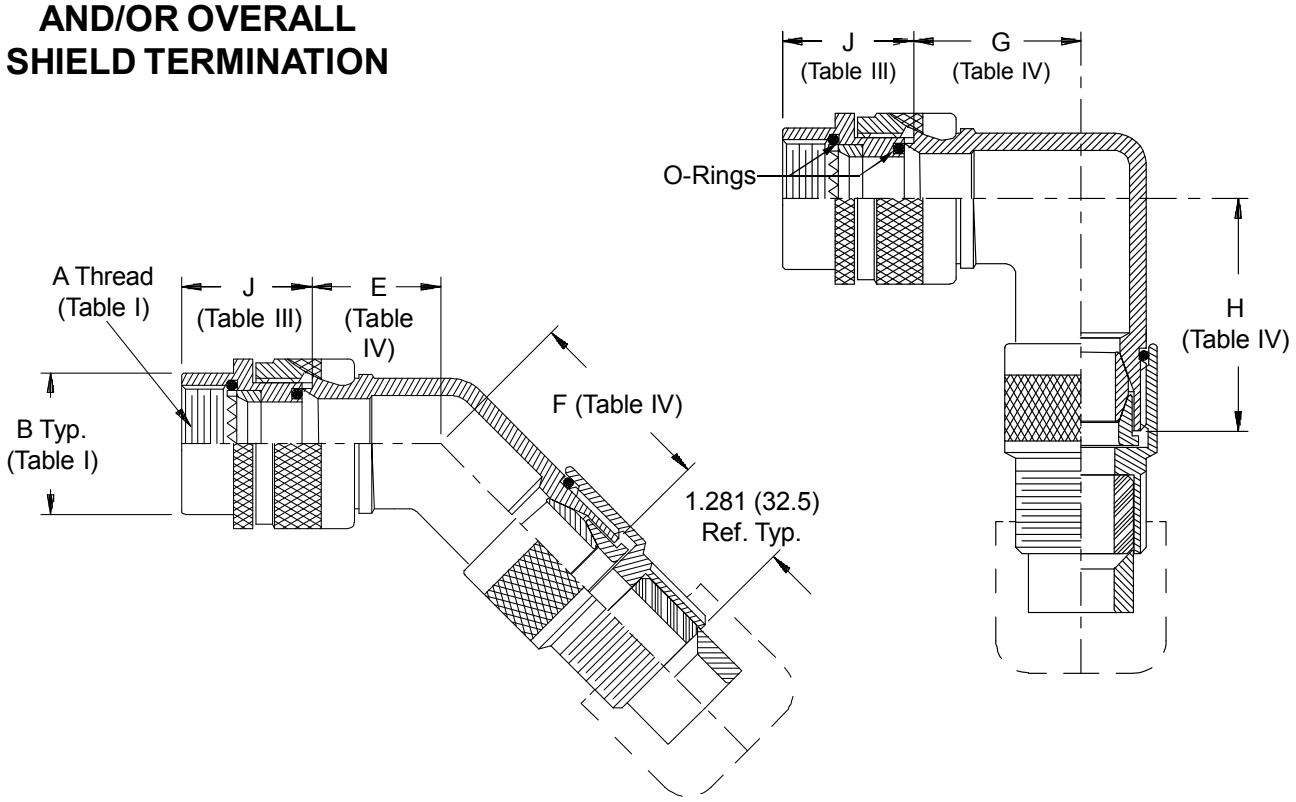
*** Conn. Desig. B See Note 3**

DIRECT COUPLING

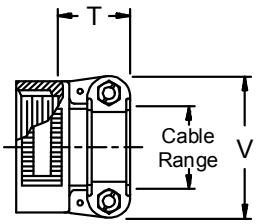
TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F H 054 M 16 10 H

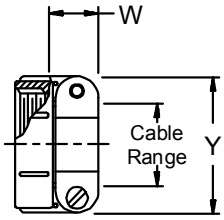
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 39-66 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)



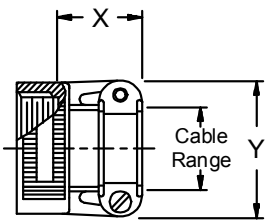
STYLE H
Heavy Duty
(Table X)



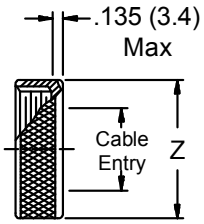
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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390-054
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Direct Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.664 (16.9)	1.039 (26.4)	.810 (20.6)	1.179 (29.9)
04	.688 (17.5)	1.059 (26.9)	.870 (22.1)	1.239 (31.5)
06	.705 (17.9)	1.089 (27.7)	.920 (23.4)	1.309 (33.2)
08	.732 (18.6)	1.109 (28.7)	.980 (24.9)	1.369 (34.8)
10	.732 (18.6)	1.109 (28.7)	.980 (24.9)	1.369 (34.8)
12	.773 (19.6)	1.139 (28.9)	1.080 (27.4)	1.449 (36.8)
16	.823 (20.9)	1.209 (30.7)	1.200 (30.5)	1.599 (40.6)
20	1.041 (26.4)	1.379 (34.9)	1.480 (37.6)	1.839 (46.7)
24	1.092 (27.7)	1.419 (36.0)	1.610 (40.9)	1.929 (49.0)
28	1.138 (28.9)	1.469 (37.3)	1.720 (43.7)	2.039 (51.8)
32	1.184 (30.1)	1.509 (38.3)	1.830 (46.5)	2.149 (54.6)
40	1.287 (32.7)	1.609 (40.9)	2.080 (52.8)	2.399 (60.9)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.3)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.3)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.875 (47.6)	2.375 (60.3)

* Not available in Style M clamp.

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390-055
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Self-Locking Rotatable Coupling - Full Radius Profile

CONNECTOR DESIGNATORS

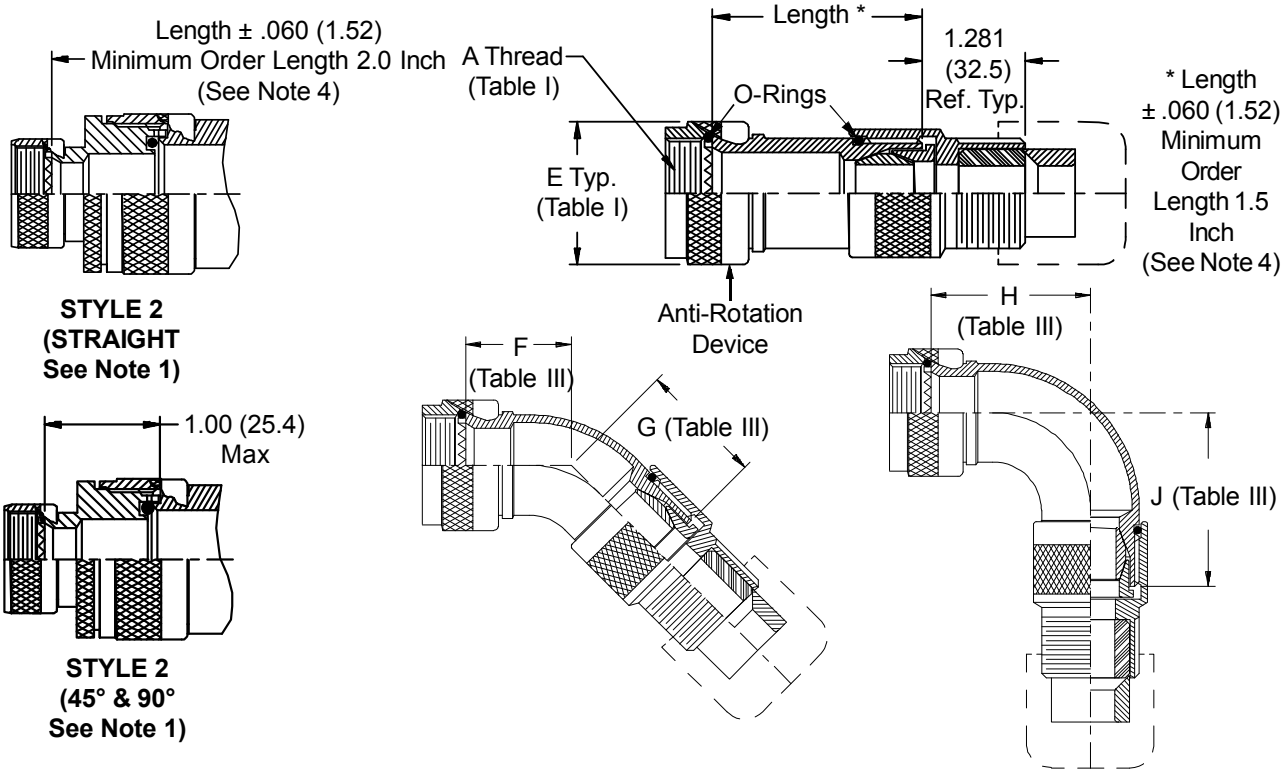
A-F-H-L-S

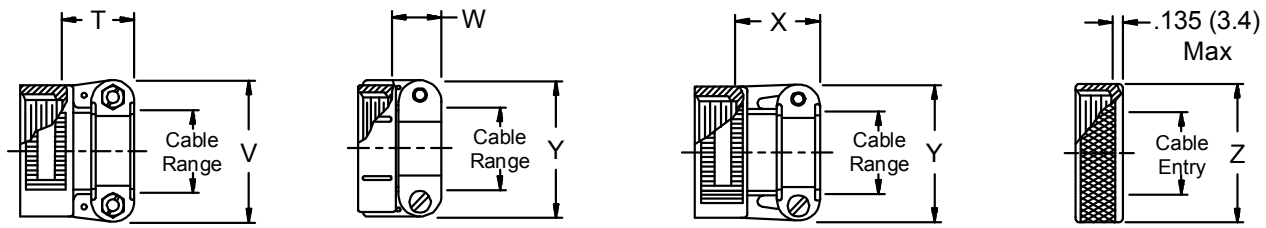
SELF-LOCKING ROTATABLE COUPLING

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F S 055 M 16 10 M 6

- 390 — Product Series
- F — Connector Designator
- S — Angle and Profile: M = 45°, N = 90°, S = Straight
- 055 — Basic Part No.
- M — Finish (Table II)
- 16 — Shell Size (Table I)
- 10 — Cable Entry (Tables X, XI)
- M — Strain Relief Style (H, A, M, D)
- 6 — Length: S only (1/2 inch increments: e.g. 6 = 3 inches)





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TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
08		.968 (24.6)	1.095 (27.8)	1.281 (32.5)	1.287 (32.7)
10	11	1.031 (26.2)	1.145 (29.1)	1.406 (35.7)	1.411 (35.8)
12		1.094 (27.8)	1.195 (30.4)	1.531 (38.9)	1.537 (39.0)
14	15	1.156 (29.4)	1.245 (31.6)	1.656 (42.1)	1.761 (44.7)
16		1.218 (30.9)	1.300 (33.0)	1.781 (45.2)	1.787 (45.4)
18	19	1.250 (31.8)	1.350 (34.3)	1.906 (48.4)	1.911 (48.5)
20		1.312 (33.3)	1.400 (35.6)	2.031 (51.6)	2.037 (51.7)
22	23	1.344 (34.1)	1.455 (37.0)	2.156 (54.8)	2.161 (54.9)
24		1.406 (35.7)	1.505 (38.1)	2.281 (57.9)	2.287 (58.1)
28		1.594 (40.5)	1.594 (10.5)	2.594 (65.9)	2.594 (65.9)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.3)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.3)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.875 (47.6)	2.375 (60.3)

* Not available in Style M clamp.

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390-055
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type F - Self-Locking Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

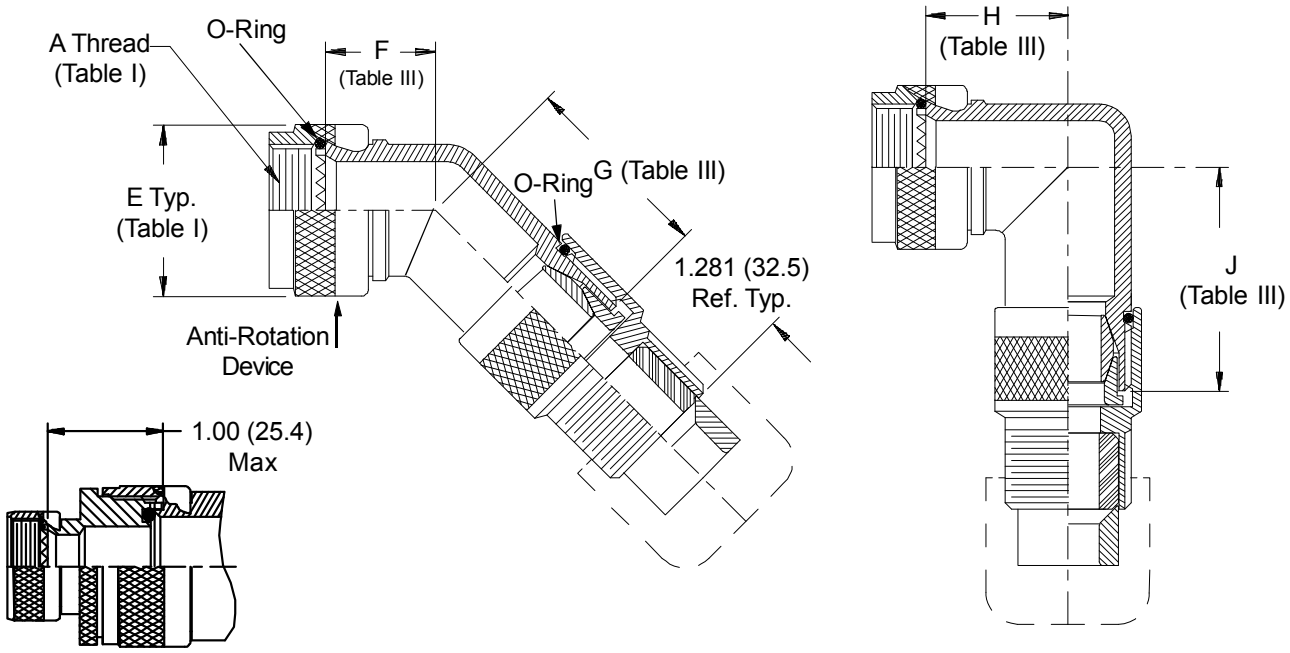
A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

TYPE F INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

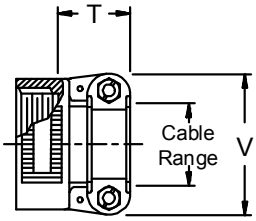
390 F H 055 M 16 10 M

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 39-70 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)

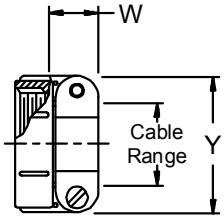


STYLE 2
(See Note 1)

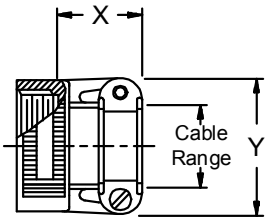
STYLE H
Heavy Duty
(Table X)



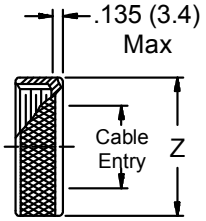
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
08	09	.795 (20.2)	1.031 (26.2)	.906 (23.0)	1.157 (29.4)
10	11	.820 (20.8)	1.063 (27.0)	.966 (24.5)	1.217 (30.9)
12	13	.844 (21.4)	1.094 (27.8)	1.026 (26.1)	1.277 (32.4)
14	15	.861 (21.9)	1.119 (28.4)	1.076 (27.3)	1.347 (34.2)
16	17	.888 (22.6)	1.147 (29.1)	1.136 (28.9)	1.407 (35.7)
18	19	.904 (23.0)	1.157 (29.4)	1.176 (29.9)	1.427 (36.2)
20	21	.929 (23.6)	1.177 (29.9)	1.236 (31.4)	1.487 (37.8)
22	23	.956 (24.3)	1.217 (30.9)	1.296 (32.9)	1.567 (39.8)
24	25	.979 (24.9)	1.247 (31.7)	1.356 (34.4)	1.637 (41.6)

TABLE X: CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.3)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Interface O-Ring not supplied with connector designator A.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.3)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.875 (47.6)	2.375 (60.3)

* Not available in Style M clamp.

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390-036
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

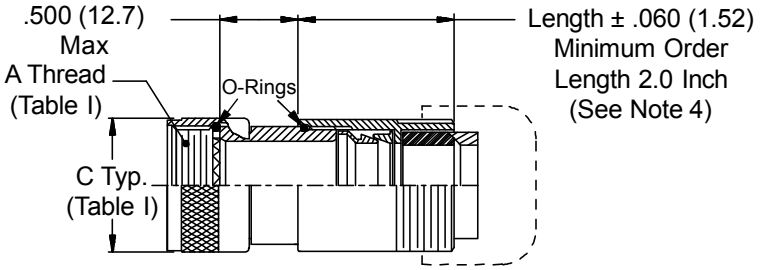
A-F-H-L-S

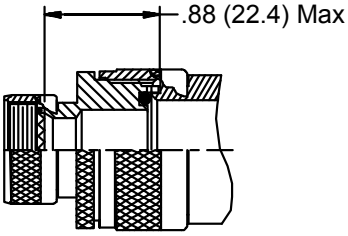
ROTATABLE COUPLING

TYPE G INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

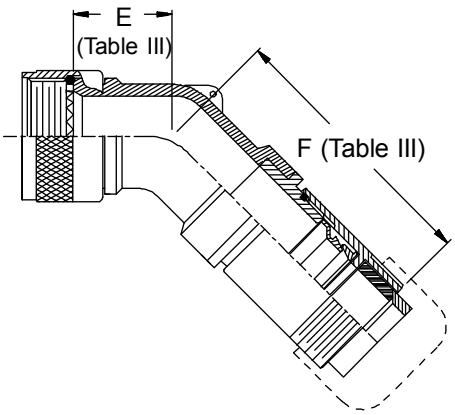
390 F S 036 M 16 10 M 6

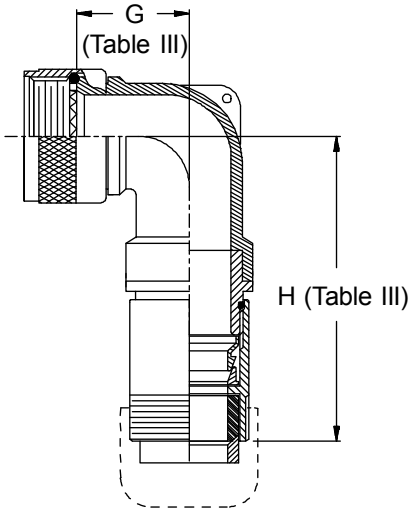
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



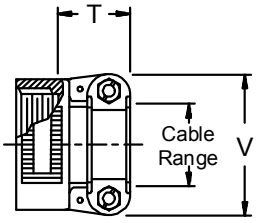


STYLE 2 (45° & 90° See Note 1)

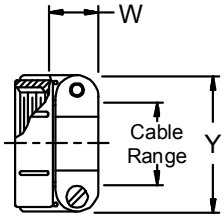




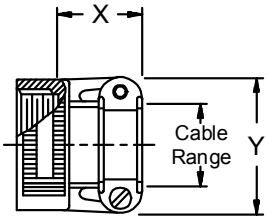
STYLE H
Heavy Duty
(Table X)



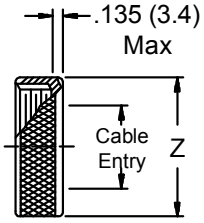
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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TABLE III

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.457 (11.6)	3.460 (87.9)	.500 (12.7)	3.460 (87.9)
10	11	.520 (13.2)	3.520 (89.4)	.595 (15.1)	3.590 (91.2)
12	13	.582 (14.8)	3.580 (90.9)	.610 (15.5)	3.610 (91.7)
14	15	.645 (16.4)	3.900 (99.1)	.700 (17.8)	3.910 (99.3)
16	17	.738 (18.7)	4.010 (101.9)	.885 (22.5)	4.000 (101.6)
18	19	.926 (23.5)	4.200 (106.7)	.975 (24.8)	4.170 (105.9)
20	21	.926 (23.5)	4.200 (106.7)	.975 (24.8)	4.170 (105.9)
22	23	1.020 (25.9)	4.350 (110.5)	1.125 (28.6)	4.280 (108.7)
24	25	1.020 (25.9)	4.350 (110.5)	1.125 (28.6)	4.280 (108.7)
28		1.145 (29.1)	4.400 (111.8)	1.225 (31.1)	4.450 (113.0)
32		1.207 (30.7)	4.500 (114.3)	1.575 (40.0)	4.700 (119.4)
36		1.238 (31.4)	4.590 (116.6)	1.775 (45.1)	4.700 (119.4)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.

TABLE X

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE XI

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)
40*	1.125 (28.6)	1.572 (39.9)	3.531 (89.7)	3.255 (82.7)	1.875 (47.6)	2.375 (60.3)

* Not available in Style M clamp.

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390-035
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

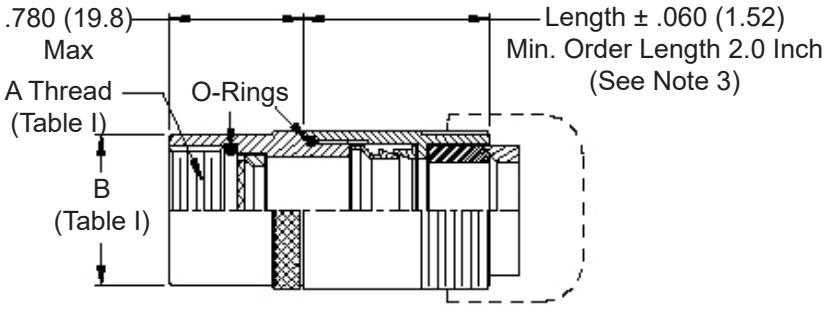
*** Conn. Desig. B See Note 4**

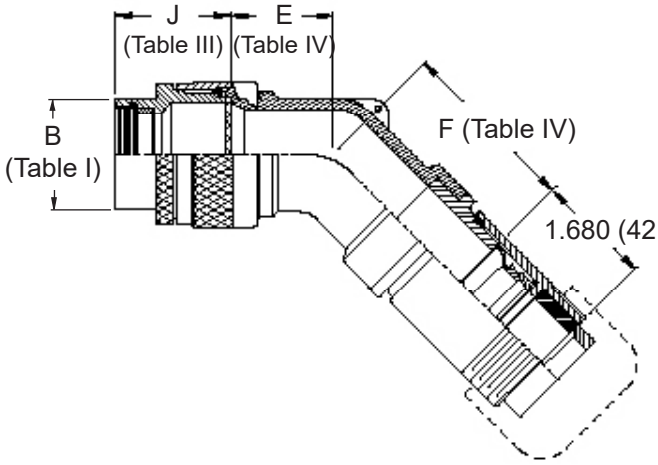
DIRECT COUPLING

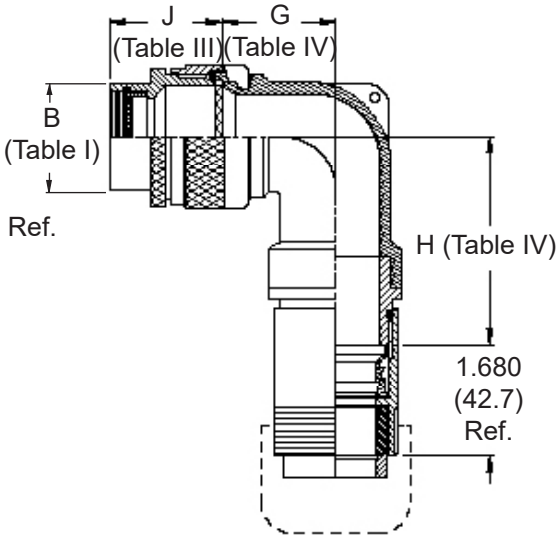
TYPE G INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F S 035 M 18 06 A 6

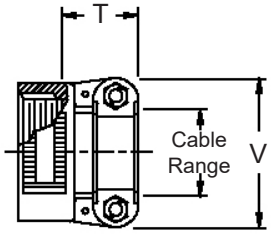
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Elbow Size (Table IV) Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



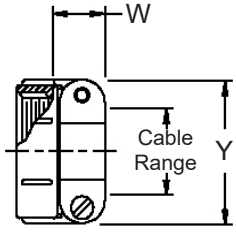




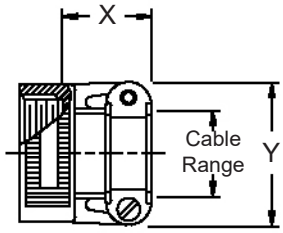
STYLE H
Heavy Duty
(Table X)



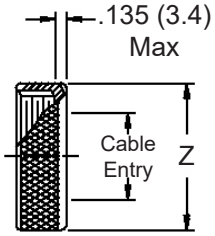
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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390-035
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735(44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915(48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915(48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915(48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915(48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915(48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
03	.500 (12.7)	1.250 (31.8)	.520 (13.2)	1.140 (29.0)
04	.500 (12.7)	1.610 (40.9)	.520 (13.2)	1.170 (29.7)
06	.590 (15.0)	1.730 (43.9)	.605 (15.4)	1.650 (41.9)
08	.610 (15.5)	1.750 (44.5)	.640 (16.3)	1.720 (43.7)
10	.700 (17.8)	1.820 (46.2)	.730 (18.5)	1.800 (45.7)
12	.880 (22.4)	2.080 (52.8)	.920 (23.4)	1.910 (48.5)
16	.970 (24.6)	2.190 (55.6)	1.020 (25.9)	2.100 (53.3)
20	1.120 (28.4)	2.190 (55.6)	1.150 (29.2)	2.250 (57.2)
24	1.220 (31.0)	2.360 (59.9)	1.250 (31.8)	2.300 (58.4)
28	1.570 (39.9)	2.610 (66.3)	1.585 (40.3)	2.400 (61.0)
32	1.770 (45.0)	2.780 (70.6)	1.800 (45.7)	2.600 (66.0)

TABLE X: : CABLE ENTRY

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Consult factory for shorter lengths on straight backshells.
4. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE XI: CABLE ENTRY

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)
32*	1.187 (30.1)	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.437 (36.5)	1.875 (47.6)

* Not available in Style M clamp.

** Not Applicable Style D

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390-037
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Rotatable Coupling - Low Profile

CONNECTOR DESIGNATORS

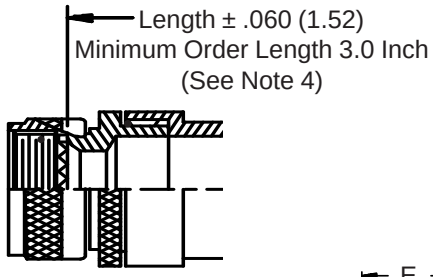
A-F-H-L-S

ROTATABLE COUPLING

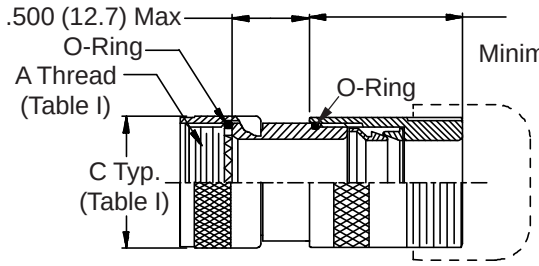
TYPE G INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

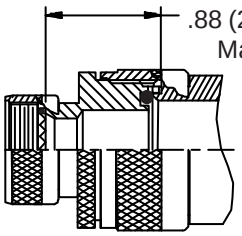
390 F S 037 M 16 10 E 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (C, E)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

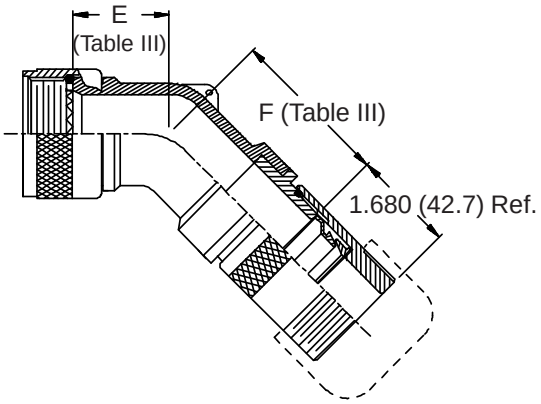


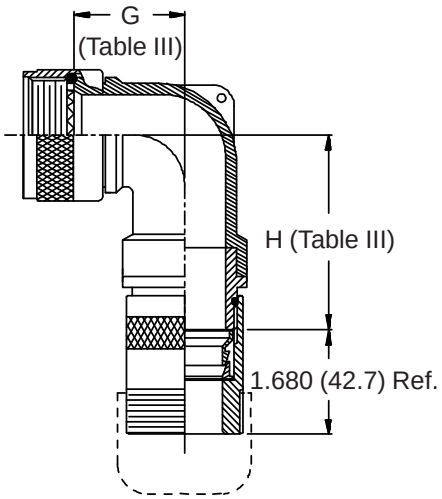
STYLE 2 (STRAIGHT See Note 1)



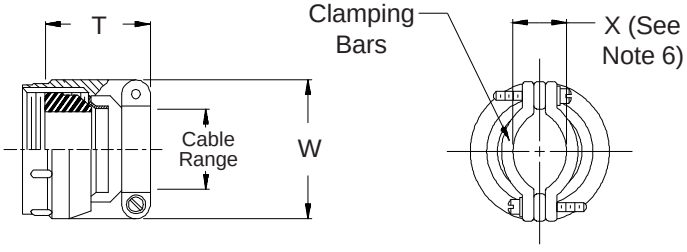


STYLE 2 (45° & 90° See Note 1)

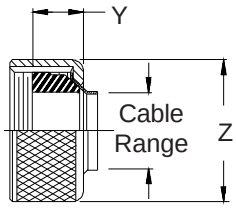




STYLE C
Medium Duty
(Table X)



STYLE E
Medium Duty
(Table XI)



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390-037
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Rotatable Coupling - Low Profile

TABLE III

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.457 (11.6)	1.780 (45.2)	.500 (12.7)	1.780 (45.2)
10	11	.520 (13.2)	1.840 (46.7)	.595 (15.1)	1.910 (48.5)
12	13	.582 (14.8)	1.900 (48.3)	.610 (15.5)	1.930 (49.0)
14	15	.645 (16.4)	2.220 (56.4)	.700 (17.8)	2.230 (56.6)
16	17	.738 (18.7)	2.330 (59.2)	.885 (22.5)	2.320 (58.9)
18	19	.926 (23.5)	2.520 (64.0)	.975 (24.8)	2.490 (63.2)
20	21	.926 (23.5)	2.520 (64.0)	.975 (24.8)	2.490 (63.2)
22	23	1.020 (25.9)	2.670 (67.8)	1.125 (28.6)	2.600 (66.0)
24	25	1.020 (25.9)	2.670 (67.8)	1.125 (28.6)	2.600 (66.0)
28		1.145 (29.1)	2.720 (69.1)	1.225 (31.1)	2.770 (70.4)
32		1.207 (30.7)	2.820 (71.6)	1.575 (40.0)	3.020 (76.7)
36		1.238 (31.4)	2.910 (73.9)	1.775 (45.1)	3.020 (76.7)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE X

Dash No.	T Max	W Max	X Ref	Cable Range Min	Cable Range Max
03	1.219 (31.0)	.812 (20.6)	.135 (3.4)	.156 (4.0)	.219 (5.6)
04	1.219 (31.0)	.937 (23.8)	.203 (5.2)	.188 (4.8)	.312 (7.9)
06	1.219 (31.0)	1.062 (27.0)	.285 (7.2)	.281 (7.1)	.438 (11.1)
08	1.219 (31.0)	1.188 (30.2)	.350 (8.9)	.312 (7.9)	.531 (13.5)
10	1.281 (32.5)	1.312 (33.3)	.390 (9.9)	.375 (9.5)	.625 (15.9)
12	1.281 (32.5)	1.562 (39.7)	.460 (11.7)	.500 (12.7)	.750 (19.1)
16	1.406 (35.7)	1.750 (44.5)	.510 (13.0)	.625 (15.9)	.938 (23.8)
20	1.656 (42.1)	2.250 (57.2)	.695 (17.7)	.938 (23.8)	1.250 (31.8)
24	1.906 (48.4)	2.375 (60.3)	.715 (18.2)	1.000 (25.4)	1.375 (34.9)
28	1.906 (48.4)	2.625 (66.7)	.915 (23.2)	1.250 (31.8)	1.625 (41.3)
32	2.000 (50.8)	2.812 (71.4)	1.070 (27.2)	1.500 (38.1)	1.875 (47.6)

TABLE XI

Dash No.	Y Max	Z Max	Cable Range Min	Cable Range Max
03	.739 (18.8)	.812 (20.6)	.156 (4.0)	.219 (5.6)
04	.739 (18.8)	.937 (23.8)	.188 (4.8)	.312 (7.9)
06	.739 (18.8)	1.062 (27.0)	.281 (7.1)	.438 (11.1)
08	.739 (18.8)	1.188 (30.2)	.312 (7.9)	.531 (13.5)
10	.791 (20.1)	1.312 (33.3)	.375 (9.5)	.625 (15.9)
12	.880 (22.4)	1.562 (39.7)	.500 (12.7)	.750 (19.1)
16	.901 (22.9)	1.750 (44.5)	.625 (15.9)	.938 (23.8)
20	1.031 (26.2)	2.250 (57.2)	.938 (23.8)	1.250 (31.8)
24	1.250 (31.8)	2.375 (60.3)	1.000 (25.4)	1.375 (34.9)
28	1.250 (31.8)	2.625 (66.7)	1.250 (31.8)	1.625 (41.3)
32	1.312 (33.3)	2.812 (71.4)	1.500 (38.1)	1.875 (47.6)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with connector designator A.
6. Saddles are bottomed on Clamp Ears.

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390-038
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

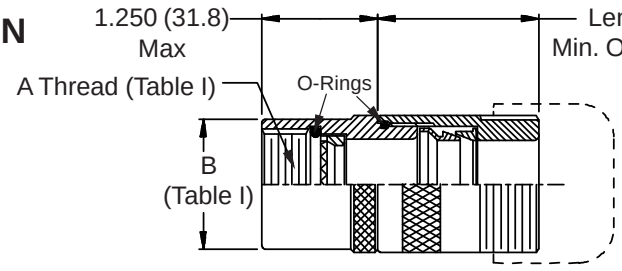
*** Conn. Desig. B See Note 5**

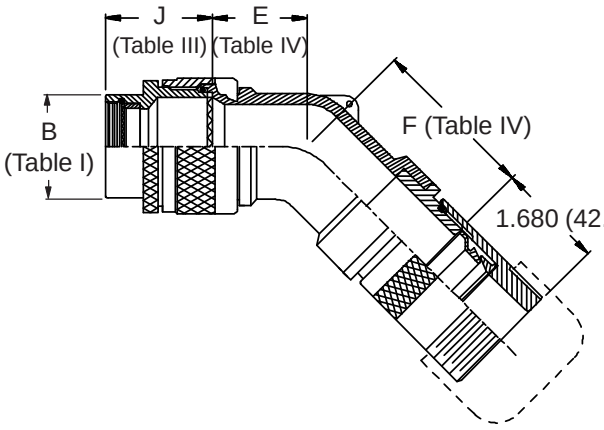
DIRECT COUPLING

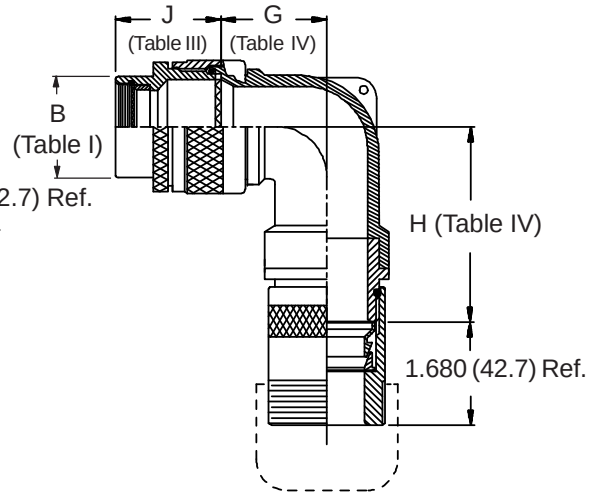
TYPE G INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F S 038 M 16 10 E 6

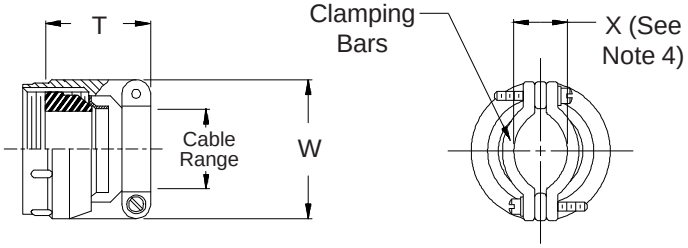
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (C, E)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



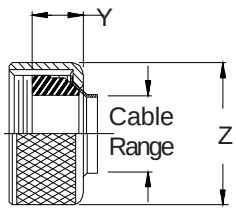




STYLE C
Medium Duty
(Table X)



STYLE E
Medium Duty
(Table XI)



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390-038
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.440 (36.6)	
10/11	1.180 (30.0)	1.440 (36.6)	
12/13	1.180 (30.0)	1.440 (36.6)	1.735 (44.1)
14/15	1.180 (30.0)	1.440 (36.6)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV

Dash No.	E Max	F Max	G Max	H Max
03	.500 (12.7)	1.250 (31.8)	.520 (13.2)	1.140 (29.0)
04	.500 (12.7)	1.610 (40.9)	.520 (13.2)	1.170 (29.7)
06	.590 (15.0)	1.730 (43.9)	.580 (14.7)	1.650 (41.9)
08	.610 (15.5)	1.750 (44.5)	.640 (16.3)	1.720 (43.7)
10	.700 (17.8)	1.820 (46.2)	.730 (18.5)	1.800 (45.7)
12	.880 (22.4)	2.080 (52.8)	.920 (23.4)	1.910 (48.5)
16	.970 (24.6)	2.190 (55.6)	1.020 (25.9)	2.100 (53.3)
20	1.120 (28.4)	2.190 (55.6)	1.040 (26.4)	2.250 (57.2)
24	1.220 (31.0)	2.360 (59.9)	1.040 (26.4)	2.300 (58.4)
28	1.570 (39.9)	2.610 (66.3)	1.090 (27.7)	2.400 (61.0)
32	1.770 (45.0)	2.780 (70.6)	1.180 (30.0)	2.600 (66.0)

TABLE X

Dash No.	T Max	W Max	X Ref	Cable Range Min	Cable Range Max
03	1.219 (31.0)	.812 (20.6)	.135 (3.4)	.156 (4.0)	.219 (5.6)
04	1.219 (31.0)	.937 (23.8)	.203 (5.2)	.188 (4.8)	.312 (7.9)
06	1.219 (31.0)	1.062 (27.0)	.285 (7.2)	.281 (7.1)	.438 (11.1)
08	1.219 (31.0)	1.188 (30.2)	.350 (8.9)	.312 (7.9)	.531 (13.5)
10	1.281 (32.5)	1.312 (33.3)	.390 (9.9)	.375 (9.5)	.625 (15.9)
12	1.281 (32.5)	1.562 (39.7)	.460 (11.7)	.500 (12.7)	.750 (19.1)
16	1.406 (35.7)	1.750 (44.5)	.510 (13.0)	.625 (15.9)	.938 (23.8)
20	1.656 (42.1)	2.250 (57.2)	.695 (17.7)	.938 (23.8)	1.250 (31.8)
24	1.906 (48.4)	2.375 (60.3)	.715 (18.2)	1.000 (25.4)	1.375 (34.9)
28	1.906 (48.4)	2.625 (66.7)	.915 (23.2)	1.250 (31.8)	1.625 (41.3)
32	2.000 (50.8)	2.812 (71.4)	1.070 (27.2)	1.500 (38.1)	1.875 (47.6)

TABLE XI

Dash No.	Y Max	Z Max	Cable Range Min	Cable Range Max
03	.739 (18.8)	.812 (20.6)	.156 (4.0)	.219 (5.6)
04	.739 (18.8)	.937 (23.8)	.188 (4.8)	.312 (7.9)
06	.739 (18.8)	1.062 (27.0)	.281 (7.1)	.438 (11.1)
08	.739 (18.8)	1.188 (30.2)	.312 (7.9)	.531 (13.5)
10	.791 (20.1)	1.312 (33.3)	.375 (9.5)	.625 (15.9)
12	.880 (22.4)	1.562 (39.7)	.500 (12.7)	.750 (19.1)
16	.901 (22.9)	1.750 (44.5)	.625 (15.9)	.938 (23.8)
20	1.031 (26.2)	2.250 (57.2)	.938 (23.8)	1.250 (31.8)
24	1.250 (31.8)	2.375 (60.3)	1.000 (25.4)	1.375 (34.9)
28	1.250 (31.8)	2.625 (66.7)	1.250 (31.8)	1.625 (41.3)
32	1.312 (33.3)	2.812 (71.4)	1.500 (38.1)	1.875 (47.6)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Consult factory for shorter lengths on straight backshells.
4. Saddles are bottomed on Clamp Ears.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

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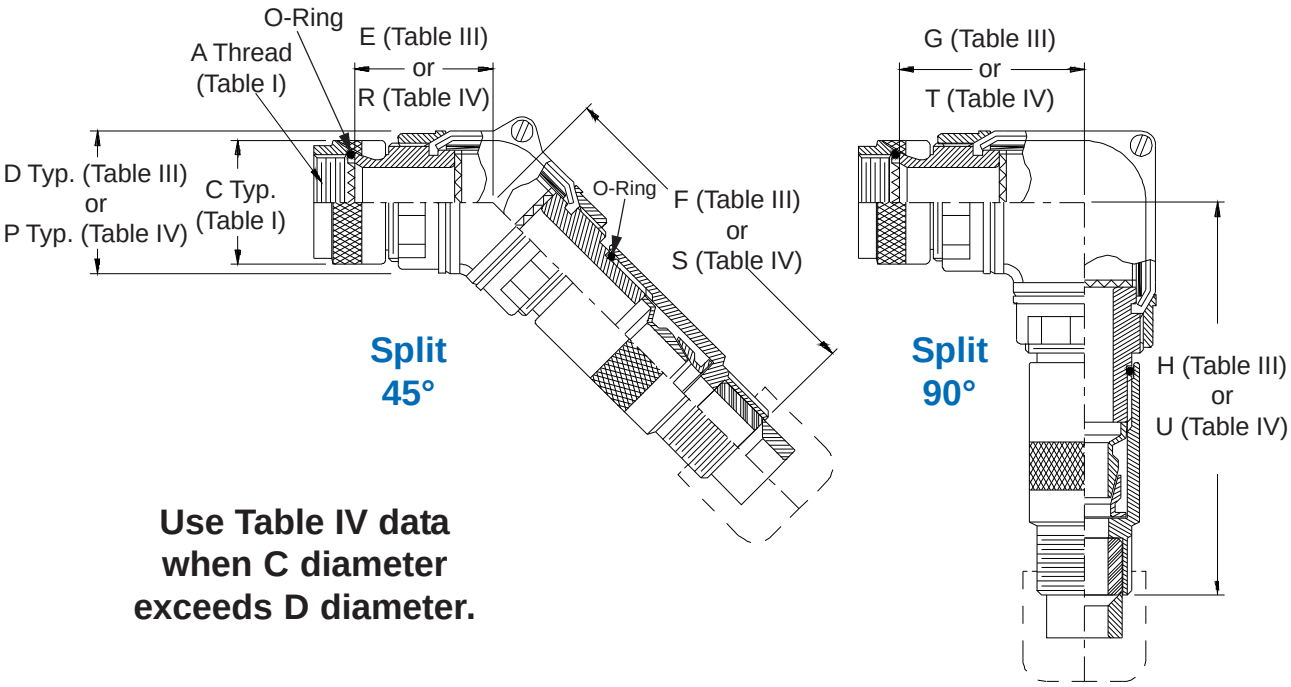
390-061
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Rotatable Coupling -Split Shell

CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING

TYPE G INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

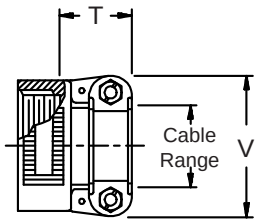
390 F P 061 M 16 10 H

- Product Series
- Connector Designator
- Angle and Profile
  - P = Split 45°
  - R = Split 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables X, XI)
- Strain Relief Style (H, A, M, D)

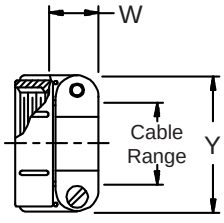


Use Table IV data when C diameter exceeds D diameter.

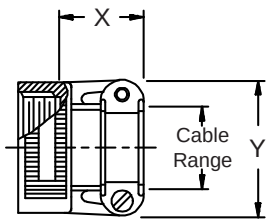
STYLE H
Heavy Duty
(Table X)



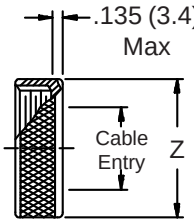
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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TABLE III

Shell Size Conn. Desig. A-F-L-S	H	D Max	E Max	F Max	G Max	H Max
08	09	1.188 (30.2)	1.781 (45.2)	4.406 (111.9)	1.781 (45.2)	4.406 (111.9)
10	11	1.188 (30.2)	1.781 (45.2)	4.406 (111.9)	1.781 (45.2)	4.406 (111.9)
12	13	1.188 (30.2)	1.781 (45.2)	4.406 (111.9)	1.781 (45.2)	4.406 (111.9)
14	15	1.188 (30.2)	1.781 (45.2)	4.406 (111.9)	1.781 (45.2)	4.406 (111.9)
16	17	1.438 (36.5)	1.906 (48.4)	4.531 (115.1)	1.906 (48.4)	4.531 (115.1)
18	19	1.438 (36.5)	1.906 (48.4)	4.531 (115.1)	1.906 (48.4)	4.531 (115.1)
20	21	1.438 (36.5)	1.906 (48.4)	4.531 (115.1)	1.906 (48.4)	4.531 (115.1)
22	23	1.688 (42.9)	2.031 (51.6)	4.656 (118.3)	2.031 (51.6)	4.656 (118.3)
24	25	1.688 (42.9)	2.031 (51.6)	4.656 (118.3)	2.031 (51.6)	4.656 (118.3)

TABLE IV

Dash No.	P Max	R Max	S Max	T Max	U Max
08	1.438 (36.5)	1.906 (48.4)	4.531 (115.1)	1.906 (48.4)	4.531 (115.1)
10	1.688 (42.9)	2.031 (51.6)	4.656 (118.3)	2.031 (51.6)	4.656 (118.3)
12	1.688 (42.9)	2.031 (51.6)	4.656 (118.3)	2.031 (51.6)	4.656 (118.3)
16	1.688 (42.9)	2.031 (51.6)	4.656 (118.3)	2.031 (51.6)	4.656 (118.3)
20	2.188 (55.6)	2.281 (57.9)	4.906 (124.6)	2.281 (57.9)	4.906 (124.6)
24	2.188 (55.6)	2.281 (57.9)	4.906 (124.6)	2.281 (57.9)	4.906 (124.6)
28	2.688 (68.3)	2.531 (64.3)	5.156 (131.0)	2.531 (64.3)	5.156 (131.0)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE X

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Interface O-Ring not supplied with connector designator A.

TABLE XI

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)

* Not available in Style M clamp.

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390-062
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Self-Locking Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS

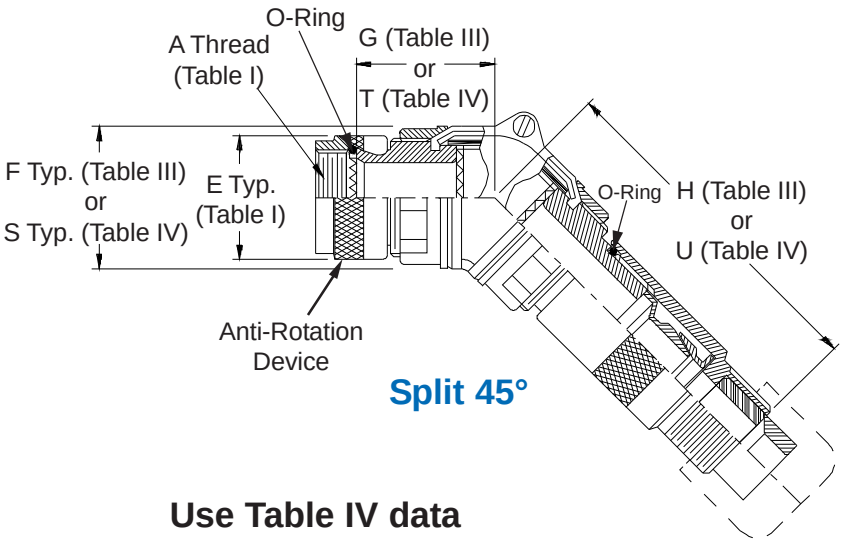
A-F-H-L-S

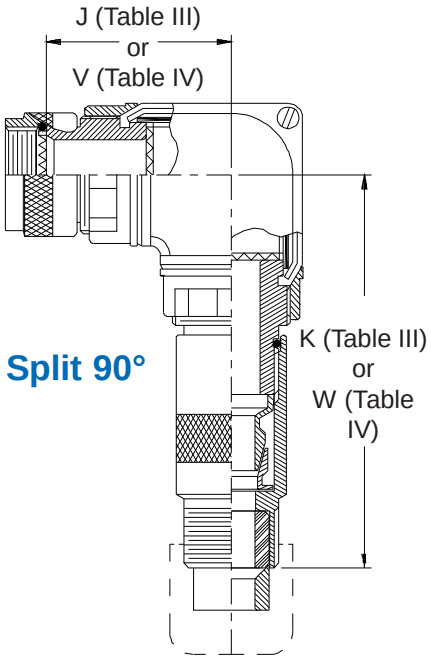
SELF-LOCKING ROTATABLE COUPLING

TYPE G INDIVIDUAL AND/OR OVERALL SHIELD TERMINATION

390 F P 062 M 16 10 H

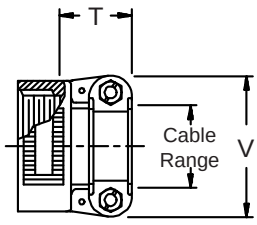
- 390 — Product Series
- F — Connector Designator
- P — Angle and Profile: P = Split 45°, R = Split 90°
- 062 — Basic Part No.
- M — Finish (Table II)
- 16 — Shell Size (Table I)
- 10 — Cable Entry (Tables X, XI)
- H — Strain Relief Style (H, A, M, D)



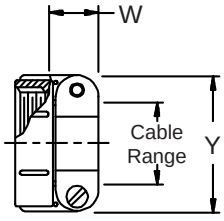


Use Table IV data when E diameter exceeds F diameter.

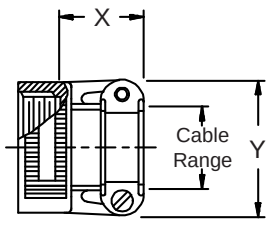
STYLE H
Heavy Duty
(Table X)



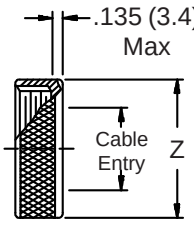
STYLE A
Medium Duty
(Table XI)



STYLE M
Medium Duty
(Table XI)



STYLE D
Medium Duty
(Table XI)



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390-062
Submersible EMI/RFI Cable Sealing Backshell
with Strain Relief
Type G - Self-Locking Rotatable Coupling - Split Shell

TABLE III

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max	K Max
08	09	1.188 (30.2)	1.938 (49.2)	4.406 (111.9)	1.938 (49.2)	4.406 (111.9)
10	11	1.188 (30.2)	1.938 (49.2)	4.406 (111.9)	1.938 (49.2)	4.406 (111.9)
12	13	1.188 (30.2)	1.938 (49.2)	4.406 (111.9)	1.938 (49.2)	4.406 (111.9)
14	15	1.188 (30.2)	1.938 (49.2)	4.406 (111.9)	1.938 (49.2)	4.406 (111.9)
16	17	1.438 (36.5)	2.062 (52.4)	4.531 (115.1)	2.062 (52.4)	4.531 (115.1)
18	19	1.438 (36.5)	2.062 (52.4)	4.531 (115.1)	2.062 (52.4)	4.531 (115.1)
20	21	1.438 (36.5)	2.062 (52.4)	4.531 (115.1)	2.062 (52.4)	4.531 (115.1)
22	23	1.688 (42.9)	2.188 (55.6)	4.656 (118.3)	2.188 (55.6)	4.656 (118.3)
24	25	1.688 (42.9)	2.188 (55.6)	4.656 (118.3)	2.188 (55.6)	4.656 (118.3)

TABLE IV

Dash No.	S Max	T Max	U Max	V Max	W Max
08	1.438 (36.5)	2.062 (52.4)	4.531 (115.1)	2.062 (52.4)	4.531 (115.1)
10	1.688 (42.9)	2.188 (55.6)	4.656 (118.3)	2.188 (55.6)	4.656 (118.3)
12	1.688 (42.9)	2.188 (55.6)	4.656 (118.3)	2.188 (55.6)	4.656 (118.3)
16	1.688 (42.9)	2.188 (55.6)	4.656 (118.3)	2.188 (55.6)	4.656 (118.3)
20	2.188 (55.6)	2.438 (61.9)	4.906 (124.6)	2.438 (61.9)	4.906 (124.6)
24	2.188 (55.6)	2.438 (61.9)	4.906 (124.6)	2.438 (61.9)	4.906 (124.6)
28	2.688 (68.3)	2.688 (68.3)	5.156 (131.0)	2.688 (68.3)	5.156 (131.0)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE X

Dash No.	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Interface O-Ring not supplied with connector designator A.

TABLE XI

Dash No.	W Max	X Max	Y Max	Z Max	Cable Range Min	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)

* Not available in Style M clamp.

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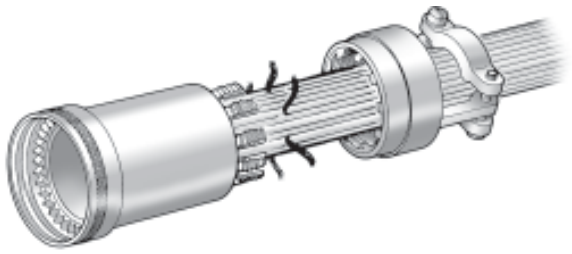
Backshell assembly and termination tools

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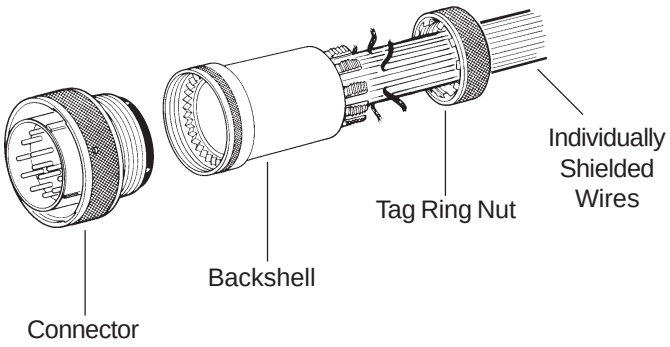
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Glenair's TAG® Ring backshells offer a unique and reliable method of terminating individually shielded wires where the shields are to be grounded through the backshell and connector shell. Straight and angled designs are available. No special tools are required for assembly and full maintainability is provided.

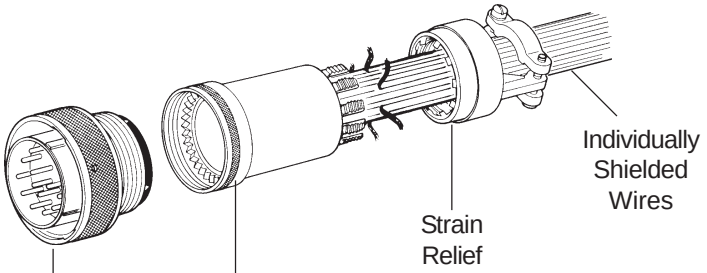
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EXPLODED VIEWS: GLENAIR TAG RING BACKSHELLS

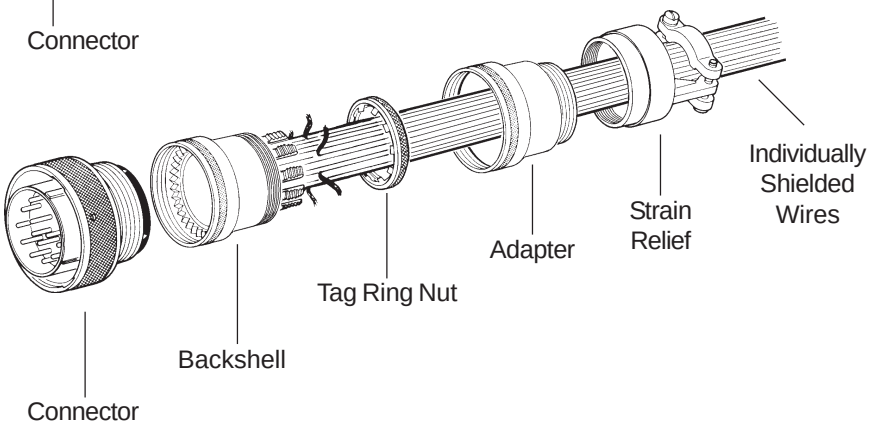
Glenair's TAG® Ring backshells offer a unique and reliable method of terminating individually shielded wires in a cable or harness, where the shields are to be grounded through the backshell and connector shell. Shields are terminated using either a self-pigtailing technique or separate ground wires which are entrapped and grounded in the castellated slots in the TAG® Ring body by a gold-plated spring member. No special tools are needed for assembly, and the design assures repairability and maintainability of the connector-to-backshell cable or harness termination.



The basic TAG® Ring backshell is intended for light-duty application where individually shielded wires must be grounded through the backshell and connector. Each slot in the TAG® Ring body will accommodate up to .180 (4.6 mm) thickness of braid or ground wires.



TAG® Ring backshells can be supplied with strain relief clamps, including a light weight (Style G) nut and two style of saddle-bar clamps.



TAG® Ring backshells can be supplied with additional functions such as overall EMI/RFI shield termination (Product Series 38), cable sealing provisions (Product Series 37), or a combination of these functions (Product Series 39). The use of the TAG® Ring for terminating individually shielded wires in conjunction with other backshell functions offers full maintainability and repairability of the connector-cable-backshell termination.

For individual isolated shields, see part number MS27741.

TAG® Ring is a registered trademark of Glenair, Inc.
US Patent No. 3,465,092

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ASSEMBLY INSTRUCTIONS 40-1

The following suggested procedure serves as a guide for proper assembly and installation of Glenair TAG® Ring Backshells. Actual termination and assembly methods will depend on the accepted techniques of the user. It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the conductor shields and individual conductors.

These instructions are based on using a self-pigtailing technique for the individual shields, with the location at which the conductors are extracted through the shields to be determined by the particular connector involved, as well as backshell length.

Solder sleeves and ground wires may be used as an alternate method of commonly grounding the individual conductor shields. A slight alteration of the following instructions will permit easy termination of these ground wires.

a. Measure length of backshell (1) and determine length of conductor needed to terminate to connector and locate shield pigtails approximately adjacent to the slotted portion of the TAG® Ring backshell.

b. Place backshell (1) and TAG® Ring nut (2) or strain relief (3) on wire bundle. Keep these components at a convenient distance from the end of the wire bundle so they will not interfere with subsequent assembly steps.

c. If shielded conductors have an outer jacket, strip jacket to desired length. Extract conductors through shield at locations determined in step (a). Flatten shield pigtails and temporarily tie pigtails flat against wire bundle, with pigtail ends facing away from the connector.

d. Prepare and terminate conductors to connector in accordance with established practices.

e. Assemble backshell (1) to connector and tighten securely.

f. Remove temporary tie from pigtails and flare flattened shields outward from wire bundle. Distribute shields as uniformly as possible among TAG® Ring backshell slots as shown in Figure 1. Grounding spring in TAG® Ring nut (2) or strain relief (3) compensates for differences in shield thickness of at least .020 inch (0.5 mm) between adjacent slots. If necessary, double back shields to achieve uniform shield thickness between adjacent slots.

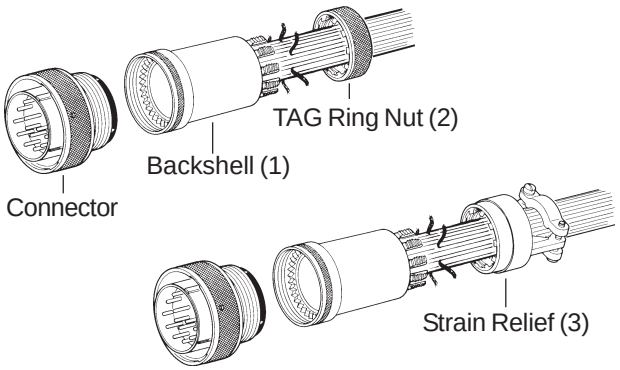


FIGURE 1

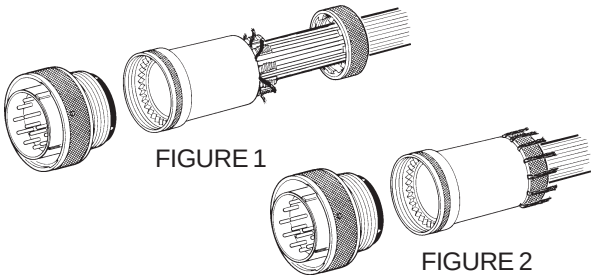


FIGURE 2

g. With shields in place in TAG® Ring backshell slots, engage TAG® Ring nut (2) or strain relief (3), aligning grounding spring tabs with slots. Tighten nut securely.

h. Exposed shields may be trimmed flush with surface of TAG® Ring nut or strain relief body. However, if future repairability is desired, it is suggested that at least 1 to 2 inches (25 to 50 mm) of extra shield length be preserved. Simply lay the flattened shields against surface of the TAG® Ring nut and tie behind the nut against wire bundle as in Figure 2. If strain relief (3) is used, shield ends can be held in position under strain relief saddles.

j. If desired, heat shrinkable sleeving may be installed over TAG® Ring nut to hold shields in place and to serve as a protective covering and strain relief.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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400-001
TAG® Ring Backshell
with Strain Relief
Rotatable Coupling - Low Profile

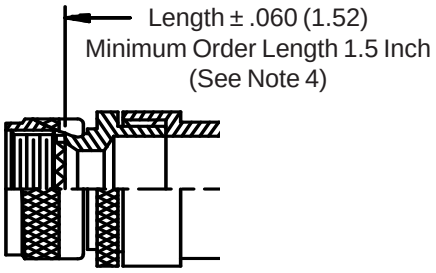
CONNECTOR DESIGNATORS

A-F-H-L-S

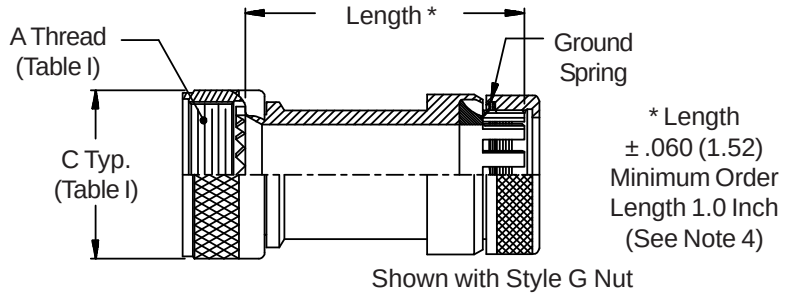
ROTATABLE COUPLING

400 F S 001 M 16 06 L 6

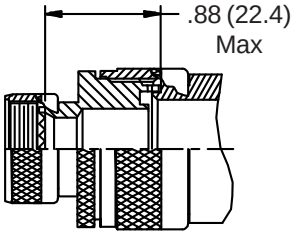
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G, L)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



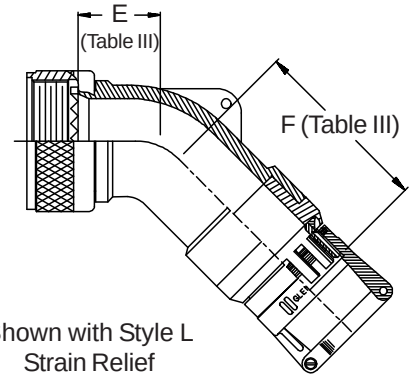
STYLE 2 (STRAIGHT See Note 1)



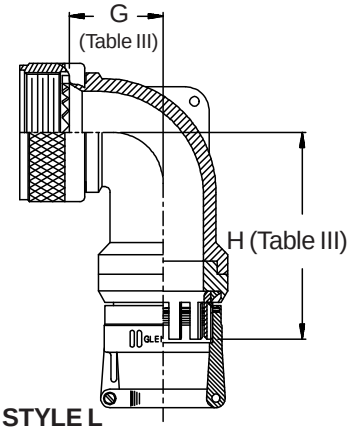
Shown with Style G Nut



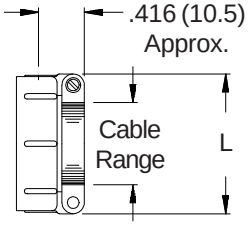
STYLE 2 (45° & 90° See Note 1)



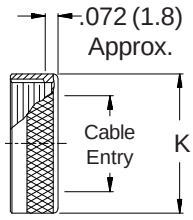
Shown with Style L Strain Relief



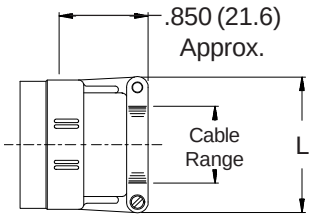
STYLE F
Light Duty
(Table V)



STYLE G
Light Duty
(Table IV)



STYLE L
Light Duty
(Table V)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.660	(42.2)	.500	(12.7)	1.670	(42.4)
10	11	.520	(13.2)	1.720	(43.7)	.595	(15.1)	1.790	(45.5)
12	13	.582	(14.8)	1.780	(45.2)	.610	(15.5)	1.810	(46.0)
14	15	.645	(16.4)	1.870	(47.5)	.700	(17.8)	1.880	(47.8)
16	17	.738	(18.7)	1.980	(50.3)	.885	(22.5)	1.970	(50.0)
18	19	.926	(23.5)	2.170	(55.1)	.975	(24.8)	2.140	(54.4)
20	21	.926	(23.5)	2.170	(55.1)	.975	(24.8)	2.140	(54.4)
22	23	1.020	(25.9)	2.320	(58.9)	1.125	(28.6)	2.250	(57.2)
24	25	1.020	(25.9)	2.320	(58.9)	1.125	(28.6)	2.250	(57.2)
28		1.145	(29.1)	2.370	(60.2)	1.225	(31.1)	2.420	(61.5)
32		1.207	(30.7)	2.470	(62.7)	1.575	(40.0)	2.670	(67.8)
36		1.238	(31.4)	2.560	(65.0)	1.775	(45.1)	2.670	(67.8)

TABLE IV: CABLE ENTRY

Dash No.	K Max		Cable Entry Max	
02	.545	(13.8)	.250	(6.4)
03	.670	(17.0)	.375	(9.5)
04	.795	(20.2)	.500	(12.7)
05	.920	(23.4)	.625	(15.9)
06	1.045	(26.5)	.750	(19.1)
07	1.170	(29.7)	.875	(22.2)
08	1.295	(32.9)	1.000	(25.4)
09	1.420	(36.1)	1.125	(28.6)
10	1.670	(42.4)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	L Max		Cable Range Min		Cable Range Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

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400-001
TAG® Ring Backshell
with Strain Relief
Rotatable Coupling - Standard Profile

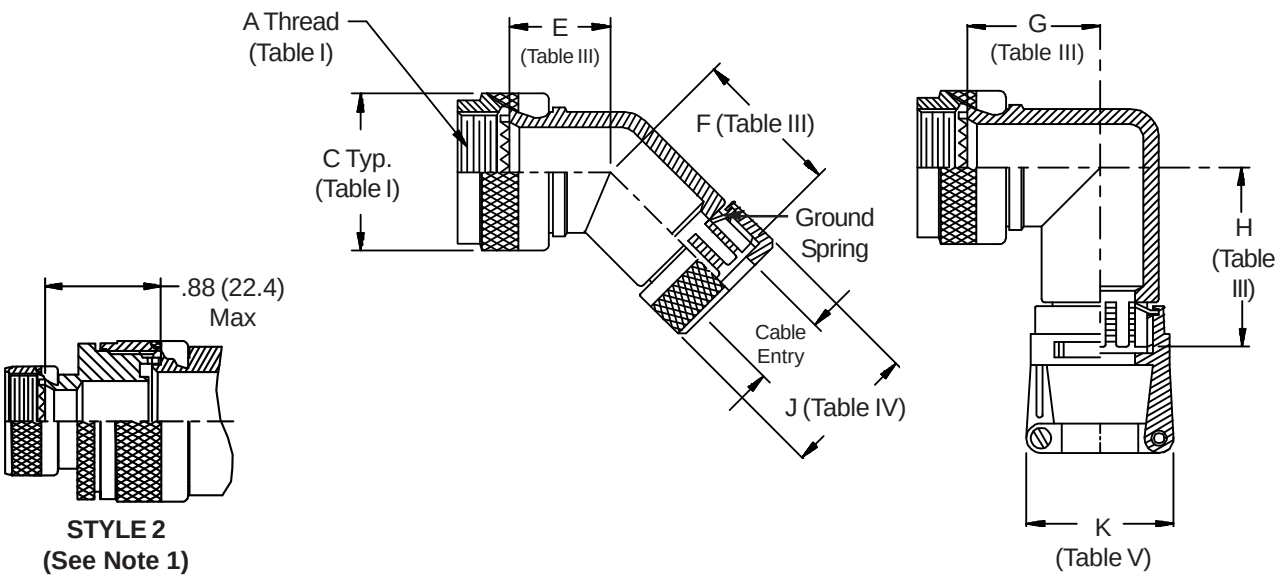
CONNECTOR DESIGNATORS

A-F-H-L-S

ROTATABLE COUPLING

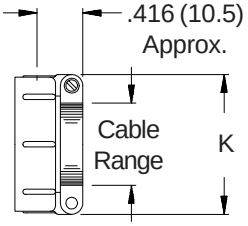
400 F J 001 M 16 06 L

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 40-4 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G, L)

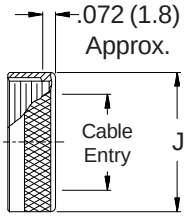


STYLE 2
(See Note 1)

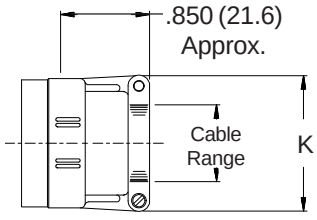
STYLE F
Light Duty
(Table V)



STYLE G
Light Duty
(Table IV)



STYLE L
Light Duty
(Table V)



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See inside back cover
fold-out or pages 13 and
14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	1.510	(38.4)	.750	(19.1)	1.620	(41.1)
10	11	.664	(16.9)	1.540	(39.1)	.810	(20.6)	1.680	(42.7)
12	13	.688	(17.5)	1.560	(39.6)	.870	(22.1)	1.740	(44.2)
14	15	.705	(17.9)	1.590	(40.4)	.920	(23.4)	1.810	(46.0)
16	17	.732	(18.6)	1.610	(40.9)	.980	(24.9)	1.870	(47.5)
18	19	.748	(19.0)	1.620	(41.1)	1.020	(25.9)	1.890	(48.0)
20	21	.773	(19.6)	1.640	(41.7)	1.080	(27.4)	1.950	(49.5)
22	23	.800	(20.3)	1.680	(42.7)	1.140	(29.0)	2.030	(51.6)
24	25	.823	(20.9)	1.710	(43.4)	1.200	(30.5)	2.100	(53.3)

TABLE IV: CABLE ENTRY

Dash No.	J Max		Cable Entry Max	
02	.545	(13.8)	.250	(6.4)
03	.670	(17.0)	.375	(9.5)
04	.795	(20.2)	.500	(12.7)
05	.920	(23.4)	.625	(15.9)
06	1.045	(26.5)	.750	(19.1)
07	1.170	(29.7)	.875	(22.2)
08	1.295	(32.9)	1.000	(25.4)
09	1.420	(36.1)	1.125	(28.6)
10	1.670	(42.4)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	K Max		Cable Range Min		Cable Range Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

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400-001
TAG® Ring Backshell
with Strain Relief
Rotatable Coupling - Split Shell

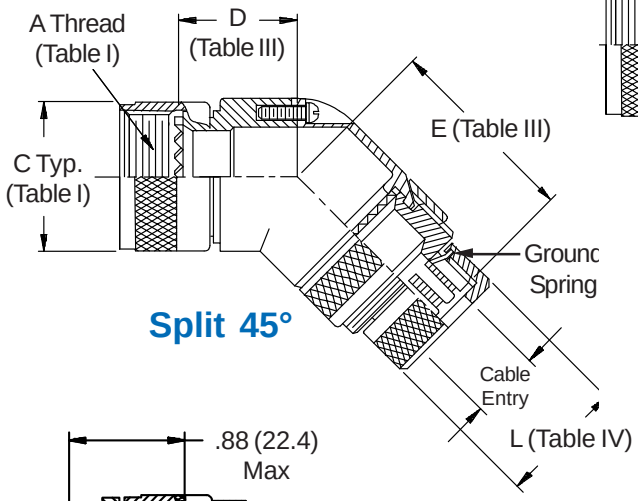
CONNECTOR DESIGNATORS

A-F-H-L-S

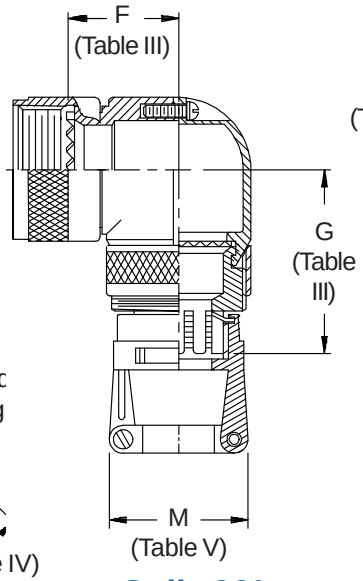
ROTATABLE COUPLING

400 F D 001 M 16 06 L

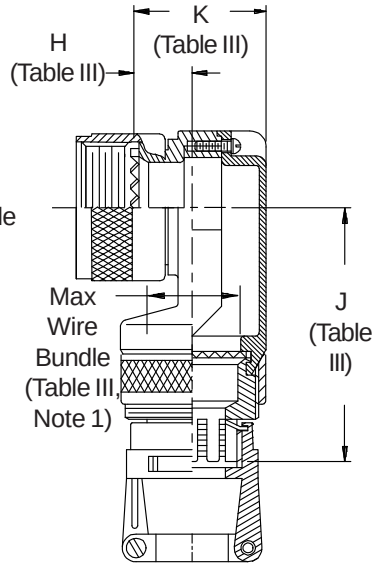
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G, L)



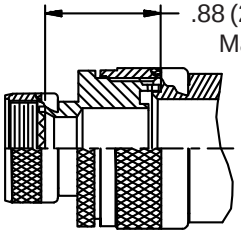
Split 45°



Split 90°

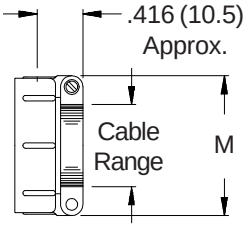


Ultra Low-Profile Split 90°

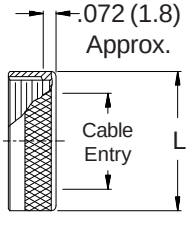


STYLE 2
(See Note 1)

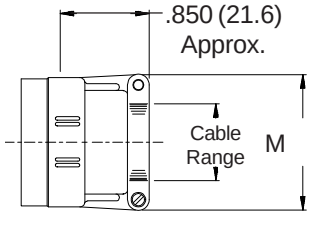
STYLE F
Light Duty
(Table V)



STYLE G
Light Duty
(Table IV)



STYLE L
Light Duty
(Table V)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: DIMENSIONS

Shell Size	D Max	E Max	F Max	G Max	H Ref	J Max	K Max	Function C Max Wire Bundle
08/09	.440 (11.2)	1.500 (38.1)	.680 (17.3)	1.440 (36.6)	.340 (8.6)	2.060 (52.3)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	1.560 (39.6)	.750 (19.1)	1.500 (38.1)	.270 (6.9)	2.220 (56.4)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	1.630 (41.4)	.810 (20.6)	1.570 (39.9)	.270 (6.9)	2.220 (56.4)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	1.660 (42.2)	.870 (22.1)	1.600 (40.6)	.280 (7.1)	2.290 (58.2)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	1.760 (44.7)	.930 (23.6)	1.700 (43.2)	.420 (10.7)	2.340 (59.4)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	1.820 (46.2)	1.000 (25.4)	1.760 (44.7)	.640 (16.3)	2.370 (60.2)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	1.880 (47.8)	1.060 (26.9)	1.820 (46.2)	.640 (16.3)	2.370 (60.2)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	1.940 (49.3)	1.120 (28.4)	1.880 (47.8)	.540 (13.7)	2.520 (64.0)	1.181 (30.0)	.750 (19.1)
24/25	.940 (23.9)	2.000 (50.8)	1.180 (30.0)	1.940 (49.3)	.540 (13.7)	2.520 (64.0)	1.181 (30.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	L Max	Cable Entry Max
02	.545 (13.8)	.250 (6.4)
03	.670 (17.0)	.375 (9.5)
04	.795 (20.2)	.500 (12.7)
05	.920 (23.4)	.625 (15.9)
06	1.045 (26.5)	.750 (19.1)
07	1.170 (29.7)	.875 (22.2)
08	1.295 (32.9)	1.000 (25.4)
09	1.420 (36.1)	1.125 (28.6)
10	1.670 (42.4)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	M Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions D, E, F and G will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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400-002
TAG® Ring Backshell
with Strain Relief
Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

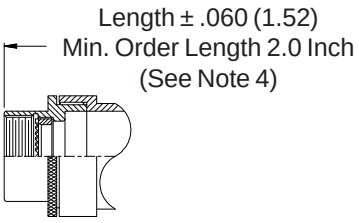
G-H-J-K-L-S

*** Conn. Desig. B See Note 5**

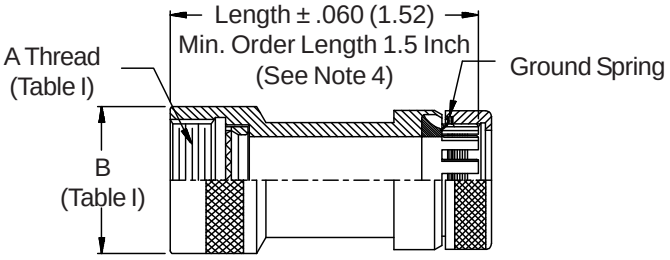
DIRECT COUPLING

400 F S 002 M 16 06 L 6

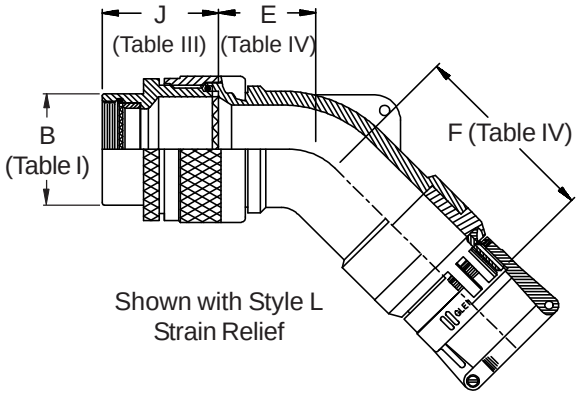
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables V, VI)
- Strain Relief Style (F, G, L)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



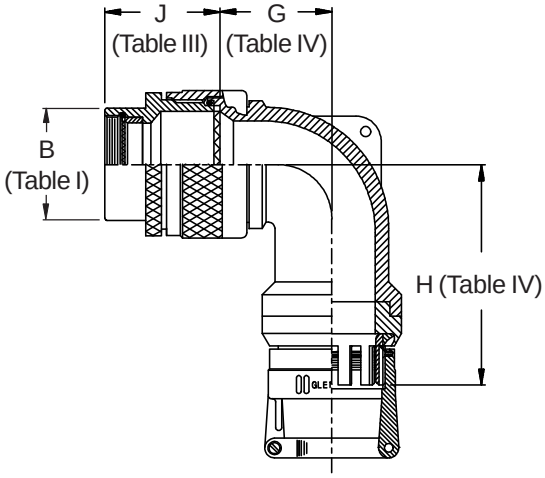
STYLE 2 (STRAIGHT See Note 1)



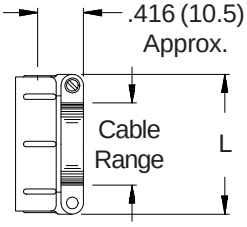
Shown with Style G Nut



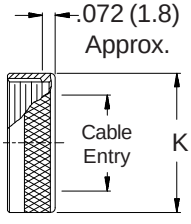
Shown with Style L Strain Relief



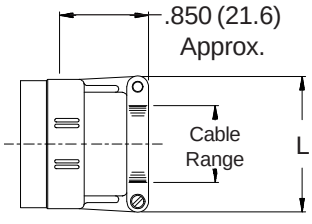
STYLE F
Light Duty
(Table VI)



STYLE G
Light Duty
(Table V)



STYLE L
Light Duty
(Table VI)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-D-E-F J-H-L-S	B-G-K	C
08/09	1.000 (25.4)	1.250 (31.8)	
10/11	1.000 (25.4)	1.250 (31.8)	
12/13	1.000 (25.4)	1.250 (31.8)	1.735 (44.1)
14/15	1.000 (25.4)	1.250 (31.8)	1.915 (48.6)
16/17	1.000 (25.4)	1.416 (36.0)	1.915 (48.6)
18/19	1.000 (25.4)	1.416 (36.0)	1.915 (48.6)
20/21	1.000 (25.4)	1.416 (36.0)	1.915 (48.6)
22/23	1.000 (25.4)	1.416 (36.0)	1.915 (48.6)
24/25	1.000 (25.4)	1.416 (36.0)	1.915 (48.6)
28/29	1.000 (25.4)	1.416 (36.0)	1.915 (48.6)
32/33	1.000 (25.4)	1.416 (36.0)	1.915 (48.6)
36	1.000 (25.4)	1.416 (36.0)	1.915 (48.6)
40	1.000 (25.4)	1.687 (42.9)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
02	.630	(16.0)	1.720	(43.7)	.636	(16.2)	1.670	(42.4)
03	.630	(16.0)	1.720	(43.7)	.709	(18.0)	1.790	(45.5)
04	.692	(17.6)	1.780	(45.2)	.734	(18.6)	1.810	(46.0)
05	.755	(19.2)	1.870	(47.5)	.829	(21.1)	1.880	(47.8)
06	.848	(21.5)	1.970	(50.0)	.990	(25.1)	1.970	(50.0)
07	1.036	(26.3)	2.170	(55.1)	1.000	(25.4)	2.140	(54.4)
08	1.130	(28.7)	2.310	(58.7)	1.325	(33.7)	2.250	(57.2)
09	1.130	(28.7)	2.310	(58.7)	1.325	(33.7)	2.250	(57.2)
10	1.130	(28.7)	2.310	(58.7)	1.325	(33.7)	2.250	(57.2)

TABLE V: CABLE ENTRY

Dash No.	K Max		Cable Entry Max	
02	.545	(13.8)	.250	(6.4)
03	.670	(17.0)	.375	(9.5)
04	.795	(20.2)	.500	(12.7)
05	.920	(23.4)	.625	(15.9)
06	1.045	(26.5)	.750	(19.1)
07	1.170	(29.7)	.875	(22.2)
08	1.295	(32.9)	1.000	(25.4)
09	1.420	(36.1)	1.125	(28.6)
10	1.670	(42.4)	1.250	(31.8)

TABLE VI: CABLE ENTRY

Dash No.	L Max		Cable Range Min		Cable Range Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

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400-002
TAG® Ring Backshell
with Strain Relief
Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

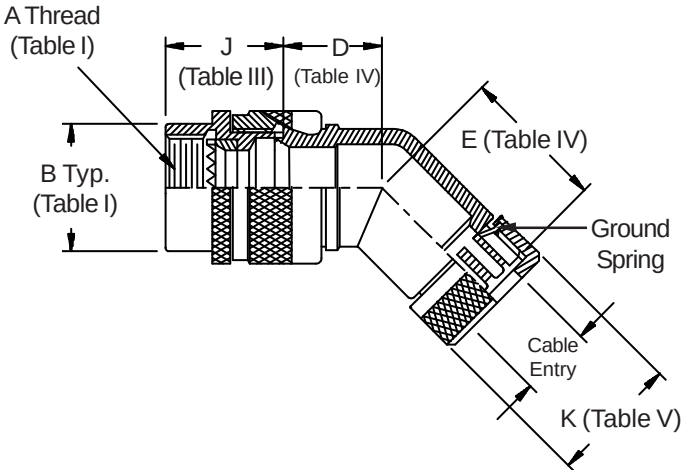
G-H-J-K-L-S

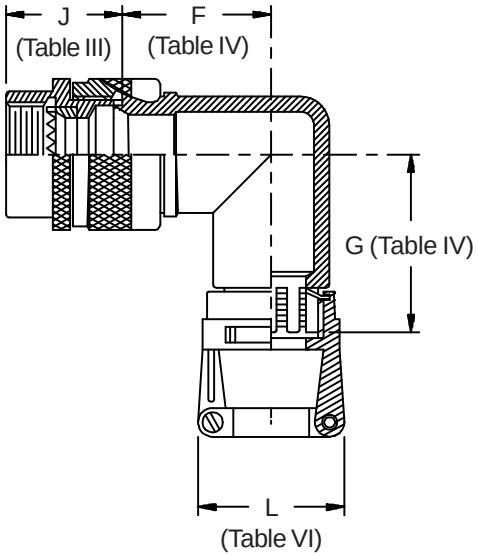
*** Conn. Desig. B See Note 3**

DIRECT COUPLING

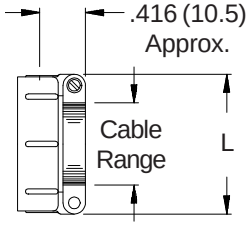
400 F J 002 M 16 06 L

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 400-10 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V, VI)
- Strain Relief Style (F, G, L)

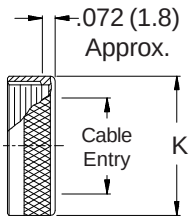




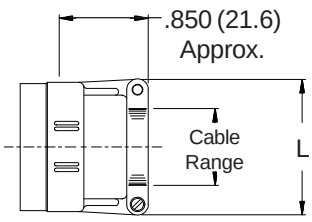
STYLE F
Light Duty
(Table VI)



STYLE G
Light Duty
(Table V)



STYLE L
Light Duty
(Table VI)



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TABLE III: FRONT ADAPTER			
	J Max - Conn. Designator		
Shell Size	A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS								
Dash No.	D Max		E Max		F Max		G Max	
02	.639	(16.2)	1.510	(38.4)	.750	(19.1)	1.620	(41.1)
03	.664	(16.9)	1.540	(39.1)	.810	(20.6)	1.680	(42.7)
04	.688	(17.5)	1.560	(39.6)	.870	(22.1)	1.740	(44.2)
05	.705	(17.9)	1.590	(40.4)	.920	(23.4)	1.810	(46.0)
06	.732	(18.6)	1.610	(40.9)	.980	(24.9)	1.870	(47.5)
07	.748	(19.0)	1.620	(41.1)	1.020	(25.9)	1.890	(48.0)
08	.773	(19.6)	1.640	(41.7)	1.080	(27.4)	1.950	(49.5)
09	.800	(20.3)	1.680	(42.7)	1.140	(29.0)	2.030	(51.6)
10	.823	(20.9)	1.710	(43.4)	1.200	(30.5)	2.100	(53.3)

TABLE V: CABLE ENTRY				
Dash No.	K Max		Cable Entry Max	
02	.545	(13.8)	.250	(6.4)
03	.670	(17.0)	.375	(9.5)
04	.795	(20.2)	.500	(12.7)
05	.920	(23.4)	.625	(15.9)
06	1.045	(26.5)	.750	(19.1)
07	1.170	(29.7)	.875	(22.2)
08	1.295	(32.9)	1.000	(25.4)
09	1.420	(36.1)	1.125	(28.6)
10	1.670	(42.4)	1.250	(31.8)

TABLE VI: CABLE ENTRY						
Dash No.	L Max		Cable Range Min		Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

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400-002
TAG® Ring Backshell
with Strain Relief
Direct Coupling - Split-Shell

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

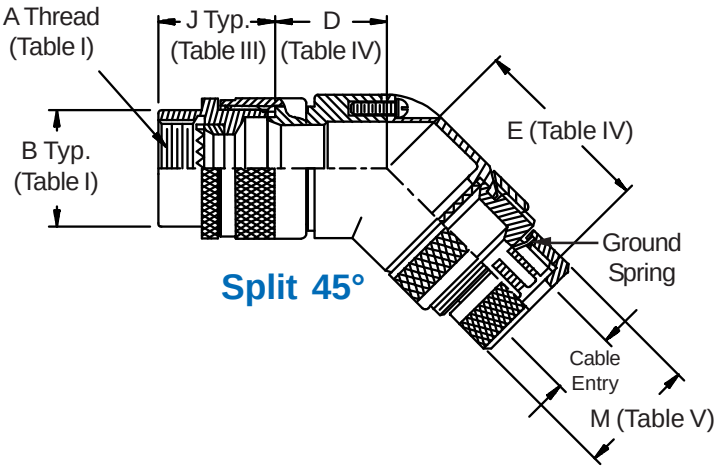
G-H-J-K-L-S

*** Conn. Desig. B See Note 3**

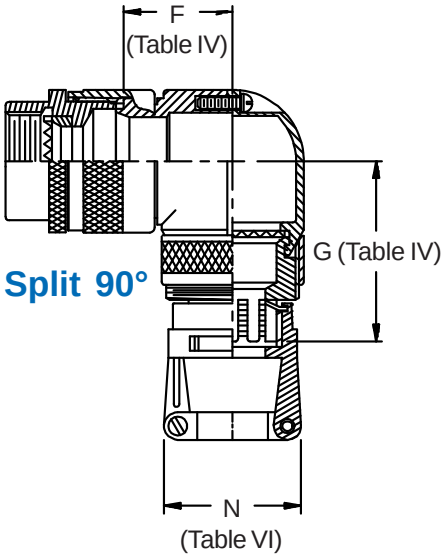
DIRECT COUPLING

400 F D 002 M 16 06 L

- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V, VI)
- Strain Relief Style (F, G, L)

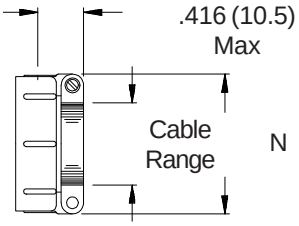


Split 45°

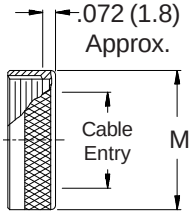


Split 90°

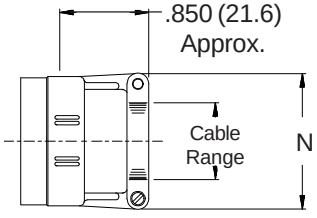
STYLE F
Light Duty
(Table VI)



STYLE G
Light Duty
(Table V)



STYLE L
Light Duty
(Table VI)



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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: DIMENSIONS

Dash No.	D Max		E Max		F Max		G Max	
02	.440	(11.2)	1.500	(38.1)	.680	(17.3)	1.440	(36.6)
03	.500	(12.7)	1.560	(39.6)	.750	(19.1)	1.500	(38.1)
04	.560	(14.2)	1.630	(41.4)	.810	(20.6)	1.570	(39.9)
05	.620	(15.7)	1.660	(42.2)	.870	(22.1)	1.600	(40.6)
06	.680	(17.3)	1.760	(44.7)	.930	(23.6)	1.700	(43.2)
07	.750	(19.1)	1.820	(46.2)	1.000	(25.4)	1.760	(44.7)
08	.820	(20.8)	1.880	(47.8)	1.060	(26.9)	1.820	(46.2)
09	.880	(22.4)	1.940	(49.3)	1.120	(28.4)	1.880	(47.8)
10	.940	(23.9)	2.000	(50.8)	1.180	(30.0)	1.940	(49.3)

TABLE V: CABLE ENTRY

Dash No.	M Max		Cable Entry Max	
02	.545	(13.8)	.250	(6.4)
03	.670	(17.0)	.375	(9.5)
04	.795	(20.2)	.500	(12.7)
05	.920	(23.4)	.625	(15.9)
06	1.045	(26.5)	.750	(19.1)
07	1.170	(29.7)	.875	(22.2)
08	1.295	(32.9)	1.000	(25.4)
09	1.420	(36.1)	1.125	(28.6)
10	1.670	(42.4)	1.250	(31.8)

TABLE VI: CABLE ENTRY

Dash No.	N Max		Cable Range Min		Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

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400-015
TAG® Ring Backshell
with Strain Relief
Self-Locking Rotatable Coupling - Straight Only

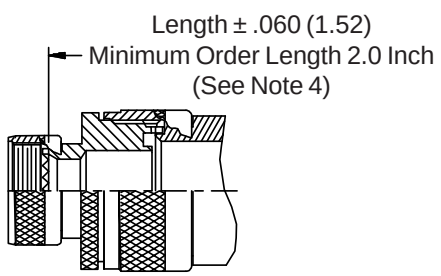
CONNECTOR DESIGNATORS

A-F-H-L-S

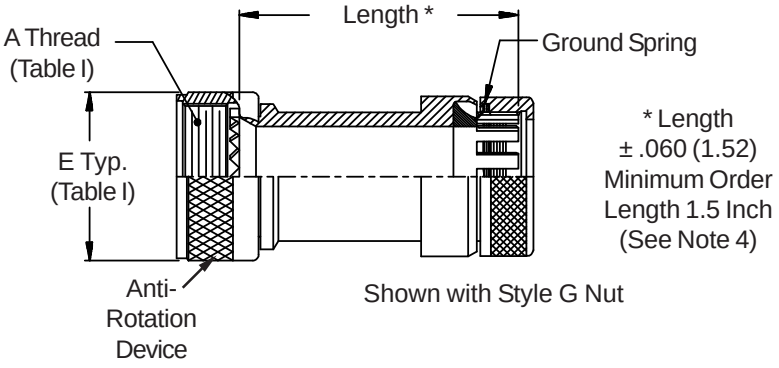
SELF-LOCKING ROTATABLE COUPLING

400 F S 015 M 16 06 L 6

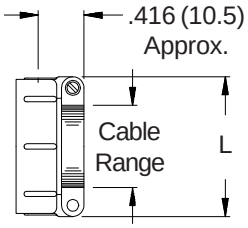
- Product Series
- Connector Designator
- Angle and Profile S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G, L)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



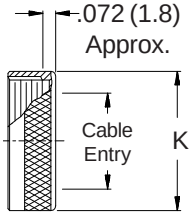
STYLE 2 (STRAIGHT See Note 1)



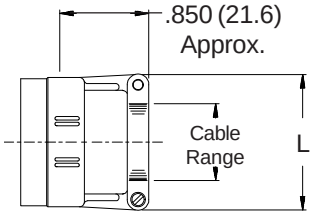
STYLE F
Light Duty
(Table V)



STYLE G
Light Duty
(Table IV)



STYLE L
Light Duty
(Table V)



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See inside back cover
fold-out or pages 13 and
14 for Tables I and II.

TABLE IV: CABLE ENTRY

Dash No.	K Max		Cable Entry Max	
02	.545	(13.8)	.250	(6.4)
03	.670	(17.0)	.375	(9.5)
04	.795	(20.2)	.500	(12.7)
05	.920	(23.4)	.625	(15.9)
06	1.045	(26.5)	.750	(19.1)
07	1.170	(29.7)	.875	(22.2)
08	1.295	(32.9)	1.000	(25.4)
09	1.420	(36.1)	1.125	(28.6)
10	1.670	(42.4)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	L Max		Cable Range Min		Cable Range Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.

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400-015
TAG® Ring Backshell
with Strain Relief
Self-Locking Rotatable Coupling - Standard Profile

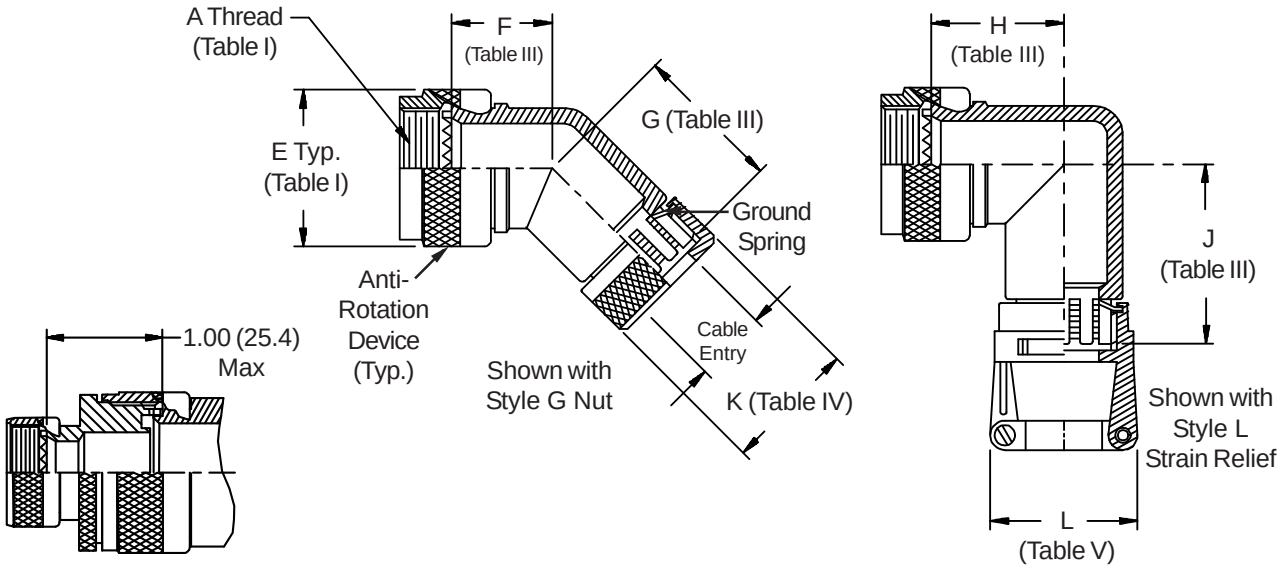
CONNECTOR DESIGNATORS

A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

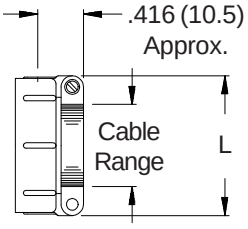
400 F J 015 M 16 06 L

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - See page 400-16 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G, L)

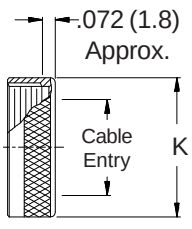


STYLE 2
(See Note 1)

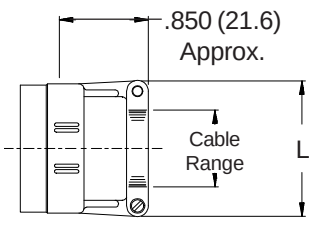
STYLE F
Light Duty
(Table V)



STYLE G
Light Duty
(Table IV)



STYLE L
Light Duty
(Table V)



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See inside back cover
fold-out or pages 13 and
14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	1.510	(38.4)	.906	(23.0)	1.620	(41.1)
10	11	.820	(20.8)	1.540	(39.1)	.966	(24.5)	1.680	(42.7)
12	13	.844	(21.4)	1.560	(39.6)	1.026	(26.1)	1.740	(44.2)
14	15	.861	(21.9)	1.590	(40.4)	1.076	(27.3)	1.810	(46.0)
16	17	.888	(22.6)	1.610	(40.9)	1.136	(28.9)	1.870	(47.5)
18	19	.904	(23.0)	1.620	(41.1)	1.176	(29.9)	1.890	(48.0)
20	21	.929	(23.6)	1.640	(41.7)	1.236	(31.4)	1.950	(49.5)
22	23	.956	(24.3)	1.680	(42.7)	1.296	(32.9)	2.030	(51.6)
24	25	.979	(24.9)	1.710	(43.4)	1.356	(34.4)	2.100	(53.3)

TABLE IV: CABLE ENTRY

Dash No.	K Max		Cable Entry Max	
02	.545	(13.8)	.250	(6.4)
03	.670	(17.0)	.375	(9.5)
04	.795	(20.2)	.500	(12.7)
05	.920	(23.4)	.625	(15.9)
06	1.045	(26.5)	.750	(19.1)
07	1.170	(29.7)	.875	(22.2)
08	1.295	(32.9)	1.000	(25.4)
09	1.420	(36.1)	1.125	(28.6)
10	1.670	(42.4)	1.250	(31.8)

TABLE V: CABLE ENTRY

Dash No.	L Max		Cable Range Min		Cable Range Max	
02	.968	(24.6)	.125	(3.2)	.250	(6.4)
03	1.046	(26.6)	.250	(6.4)	.375	(9.5)
04	1.156	(29.4)	.250	(6.4)	.500	(12.7)
05	1.218	(30.9)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	.625	(15.9)	1.000	(25.4)
09	1.718	(43.6)	.750	(19.1)	1.125	(28.6)
10	1.843	(46.8)	.875	(22.2)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

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400-015
TAG® Ring Backshell
with Strain Relief
Self-Locking Rotatable Coupling - Split Shell

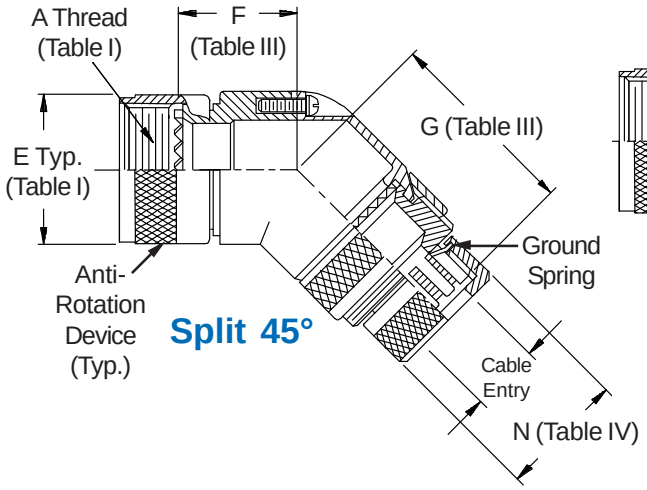
CONNECTOR DESIGNATORS

A-F-H-L-S

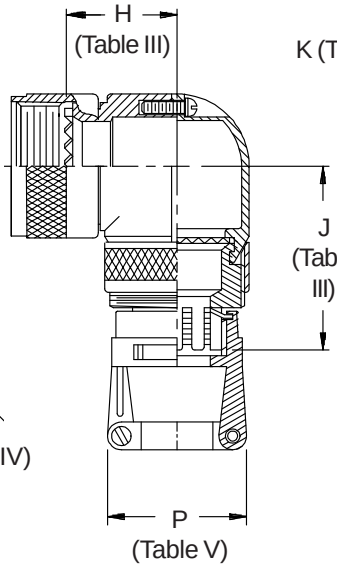
SELF-LOCKING ROTATABLE COUPLING

400 F D 015 M 16 06 L

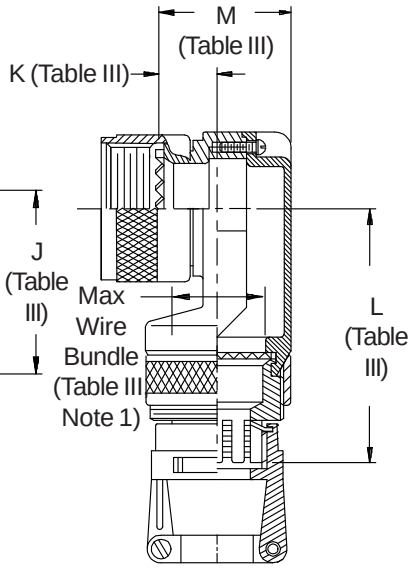
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (F, G, L)



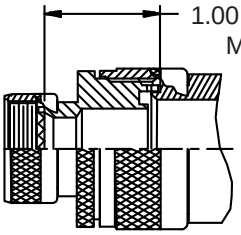
Split 45°



Split 90°

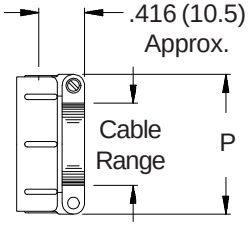


Ultra Low-Profile Split 90°

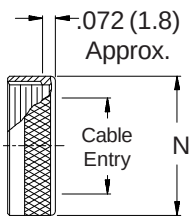


STYLE 2
(See Note 1)

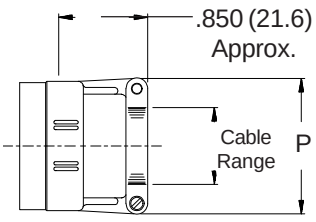
STYLE F
Light Duty
(Table V)



STYLE G
Light Duty
(Table IV)



STYLE L
Light Duty
(Table V)



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See inside back cover
fold-out or pages 13 and
14 for Tables I and II.

TABLE III: DIMENSIONS

Shell Size	F Max	G Max	H Max	J Max	K Ref	L Max	M Max	Function C Max Wire Bundle
08/09	.596 (15.1)	1.500 (38.1)	.836 (21.2)	1.440 (36.6)	.496 (12.6)	2.060 (52.3)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	1.560 (39.6)	.906 (23.0)	1.500 (38.1)	.426 (10.8)	2.220 (56.4)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	1.630 (41.4)	.966 (24.5)	1.570 (39.9)	.426 (10.8)	2.220 (56.4)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	1.660 (42.2)	1.026 (26.1)	1.600 (40.6)	.436 (11.1)	2.290 (58.2)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	1.760 (44.7)	1.086 (27.6)	1.700 (43.2)	.576 (14.6)	2.340 (59.4)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	1.820 (46.2)	1.156 (29.4)	1.760 (44.7)	.796 (20.2)	2.370 (60.2)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	1.880 (47.8)	1.216 (30.9)	1.820 (46.2)	.796 (20.2)	2.370 (60.2)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	1.940 (49.3)	1.276 (32.4)	1.880 (47.8)	.696 (17.7)	2.520 (64.0)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.000 (50.8)	1.336 (33.9)	1.940 (49.3)	.696 (17.7)	2.520 (64.0)	1.337 (34.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	N Max	Cable Entry Max
02	.545 (13.8)	.250 (6.4)
03	.670 (17.0)	.375 (9.5)
04	.795 (20.2)	.500 (12.7)
05	.920 (23.4)	.625 (15.9)
06	1.045 (26.5)	.750 (19.1)
07	1.170 (29.7)	.875 (22.2)
08	1.295 (32.9)	1.000 (25.4)
09	1.420 (36.1)	1.125 (28.6)
10	1.670 (42.4)	1.250 (31.8)

TABLE V: CABLE ENTRY

Dash No.	P Max	Cable Range Min	Cable Range Max
02	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	1.156 (29.4)	.250 (6.4)	.500 (12.7)
05	1.218 (30.9)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	.625 (15.9)	1.000 (25.4)
09	1.718 (43.6)	.750 (19.1)	1.125 (28.6)
10	1.843 (46.8)	.875 (22.2)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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401-008
TAG® Ring Backshell
with EMI/RFI Shield Termination Band Adapter
Rotatable Coupling - Standard Profile

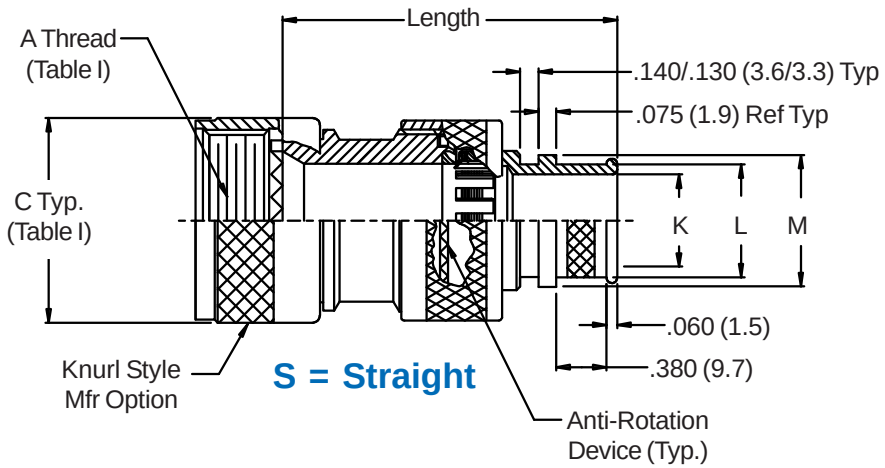
CONNECTOR DESIGNATORS

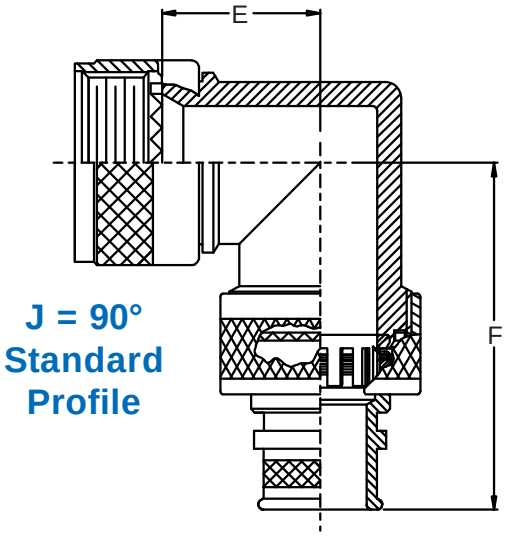
A-F-L-H

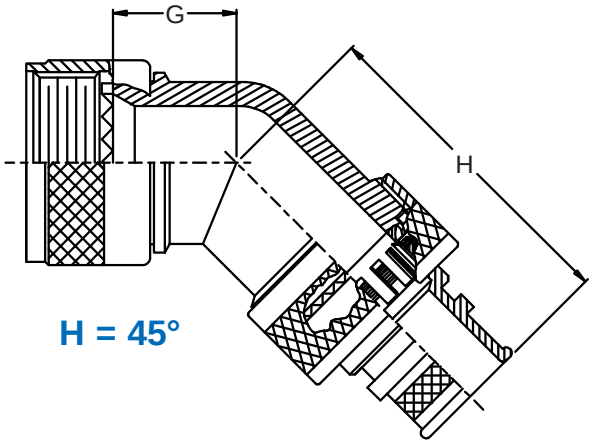
ROTATABLE COUPLING

401 F S 008 M 18 06-6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90° Standard Profile
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length in 1/2" Increments







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See inside back cover
fold-out or pages 13 and
14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L	H	E Max	F Max	G Max	H Max
08	09	.750 (19.1)	2.332 (59.2)	.639 (16.2)	2.222 (56.4)
10	11	.810 (20.6)	2.392 (60.8)	.664 (16.9)	2.252 (57.2)
12	13	.870 (22.1)	2.452 (62.3)	.688 (17.5)	2.272 (57.7)
14	15	.920 (23.4)	2.522 (64.1)	.705 (17.9)	2.302 (58.5)
16	17	.980 (24.9)	2.582 (65.6)	.732 (18.6)	2.322 (59.0)
18	19	1.020 (25.9)	2.602 (66.1)	.748 (19.0)	2.332 (59.2)
20	21	1.080 (27.4)	2.662 (67.6)	.733 (18.6)	2.352 (59.7)
22	23	1.140 (29.0)	2.702 (68.6)	.800 (20.3)	2.392 (60.8)
24	25	1.200 (30.5)	2.812 (71.4)	.823 (20.9)	2.422 (61.5)

TABLE IV: CABLE ENTRY

Entry Size	K	L	M
01	.125 (3.2)	.250 (6.4)	.312 (7.9)
31	.188 (4.8)	.312 (7.9)	.374 (9.5)
02	.250 (6.4)	.375 (9.5)	.437 (11.1)
32	.312 (7.9)	.438 (11.1)	.500 (12.7)
03	.375 (9.5)	.500 (12.7)	.562 (14.3)
33	.438 (11.1)	.562 (14.3)	.624 (15.8)
04	.500 (12.7)	.625 (15.9)	.687 (17.4)
34	.562 (14.3)	.688 (17.5)	.750 (19.1)
05	.625 (15.9)	.750 (19.1)	.812 (20.6)
35	.688 (17.5)	.812 (20.6)	.874 (22.2)
06	.750 (19.1)	.875 (22.2)	.937 (23.8)
36	.812 (20.6)	.938 (23.8)	1.000 (25.4)
07	.875 (22.2)	1.000 (25.4)	1.062 (27.0)
37	.938 (23.8)	1.062 (27.0)	1.124 (28.5)
08	1.000 (25.4)	1.125 (28.6)	1.187 (30.1)
38	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)
09	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)
10	1.250 (31.8)	1.375 (34.9)	1.437 (36.5)
11	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)

1. For effective grounding, connector with conductive finish should be used.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

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403-001
TAG® Ring Backshell
Environmental
Rotatable Coupling - Low Profile

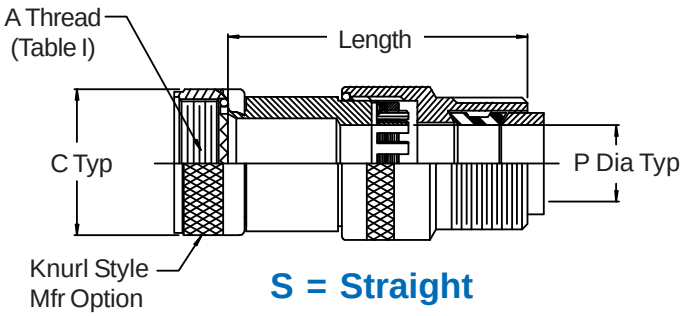
CONNECTOR DESIGNATORS

A-F-L-H

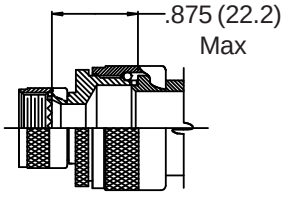
ROTATABLE COUPLING

403 H S 001 M 11 03 H 5 AA

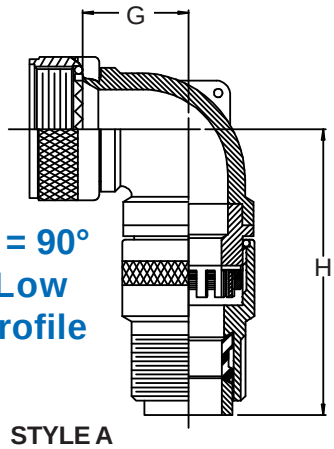
- Product Series
- Connector Designator
- Angle and Profile
  - A = Low Profile 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV, V)
- Strain Relief Style (A, D, H or M)
- Length in 1/2" Increments
- Tag Ring (Table VI)



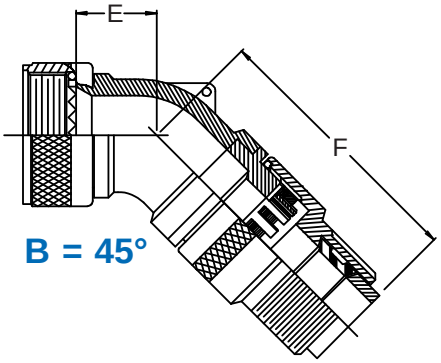
S = Straight



Style II

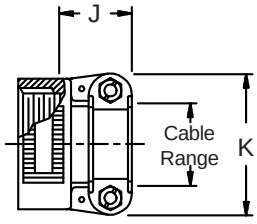


A = 90° Low Profile

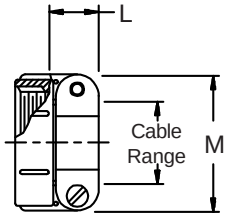


B = 45°

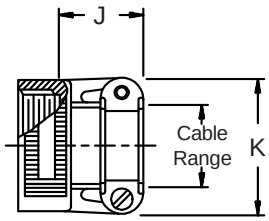
STYLE H
Heavy Duty
(Table IV)



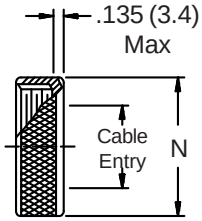
STYLE A
Medium Duty
(Table V)



STYLE H
Medium Duty
(Table IV)



STYLE D
Medium Duty
(Table V)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L	H	E Max	F Max	G Max	H Max
08	09	.457 (19.1)	2.680 (68.1)	.500 (12.7)	2.680 (68.1)
10	11	.520 (20.6)	3.070 (78.0)	.595 (15.1)	2.800 (71.1)
12	13	.582 (22.1)	3.130 (79.5)	.610 (15.5)	3.160 (80.3)
14	15	.645 (23.4)	3.230 (82.0)	.700 (17.8)	3.230 (82.0)
16	17	.738 (24.9)	3.330 (84.6)	.885 (22.5)	3.230 (82.0)
18	19	.926 (25.9)	3.430 (87.1)	.975 (24.8)	3.560 (90.4)
20	21	.926 (27.4)	3.590 (91.2)	.975 (24.8)	3.560 (90.4)
22	23	1.020 (29.0)	3.720 (94.5)	1.125 (28.6)	3.650 (92.7)
24	25	1.020 (30.5)	3.720 (94.5)	1.125 (28.6)	3.650 (92.7)
28		1.145 (19.1)	3.890 (98.8)	1.225 (31.1)	3.940 (100.1)
32		1.207 (30.7)	3.990 (101.3)	1.575 (40.0)	4.190 (106.4)
36		1.238 (31.4)	4.080 (103.6)	1.775 (45.1)	4.190 (106.4)

TABLE IV: CABLE ENTRY

Dash No.	J Max	K Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.399 (35.5)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

TABLE VI: CLAMP

Sym	Size	P Dia	Max Clamp
AA	2	.250 (6.4)	08
A	3	.357 (9.1)	10
B	4	.500 (12.7)	12
C	5	.625 (15.9)	16
D	6	.750 (19.1)	20
E	7	.875 (22.2)	20
F	8	1.000 (25.4)	24
G	9	1.125 (28.6)	28
H	10	1.250 (31.8)	32
J	11	1.375 (34.9)	40

TABLE V: CABLE ENTRY

Dash No.	L Max	M Max	N Max	Cable Range Min	Cable Range Max
03	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.572 (39.9)	2.719 (69.1)	2.505 (63.5)	.969 (24.6)	1.625 (41.3)
32	1.572 (39.9)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40	1.572 (39.9)	2.531 (64.3)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

1. Standard minimum length for Style I is 2.5 inches, and for Style II is 3 inches. For shorter length, consult factory. (Applies to Straight configuration only).
2. Metric dimensions (mm) are indicated in parentheses.
3. When maximum cable range (Table III) is exceeded, Style II will be supplied. Note: E, F, G and H do not apply to Style II.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

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407-016
TAG® Ring Backshell
with EMI/RFI Shield Termination Band & Shrink Boot Adapter
Rotatable Coupling - Standard Profile

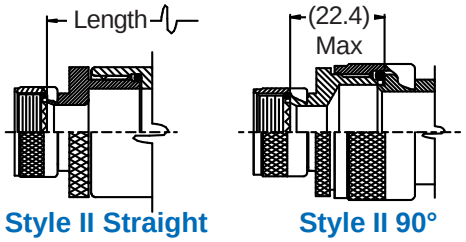
CONNECTOR DESIGNATORS

A-F-H-L

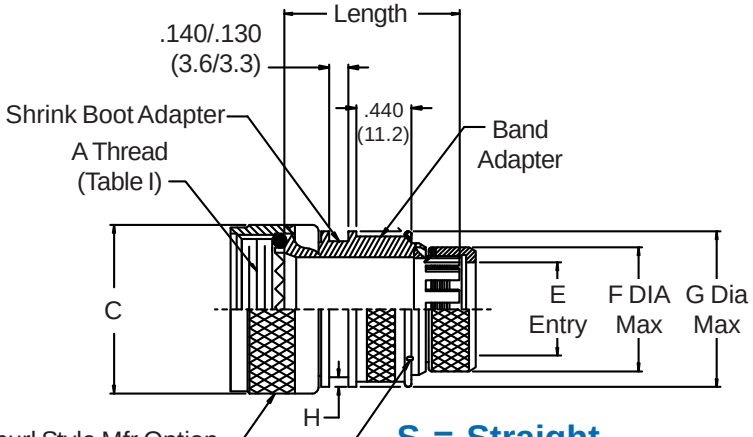
ROTATABLE COUPLING

407 F S 016 M 16 05 G 3

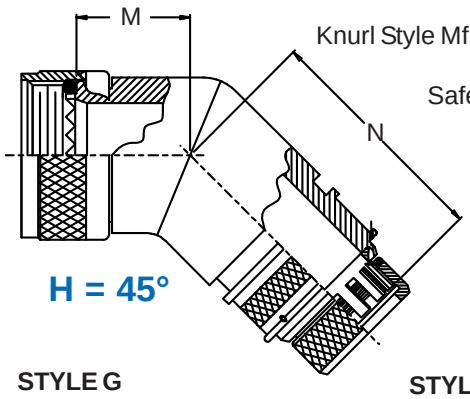
- 407 — Product Series
- F — Connector Designator
- S — Angle and Profile
  - H = 45°
  - J = 90° Standard Profile
  - S = Straight
- 016 — Basic Part No.
- M — Finish (Table II)
- 16 — Shell Size (Table I)
- 05 — Cable Entry (Table IV)
- G — Strain Relief Style (G or L)
- 3 — Length in 1/2" Increments
  - Style 1 - 1.5" Min. Length
  - Style 2 - 2.5" Min. Length



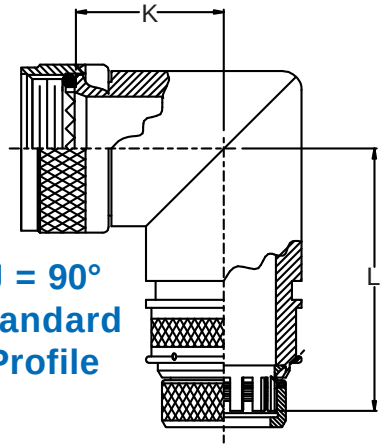
Style II Straight — Style II 90°



S = Straight

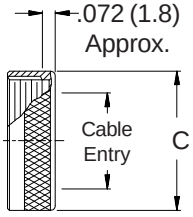


H = 45°

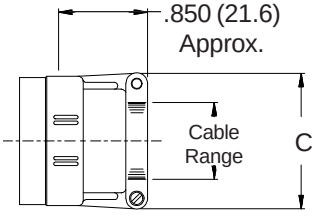


J = 90° Standard Profile

STYLE G
Light Duty
(Table IV)



STYLE L
Light Duty
(Table IV)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L	H	K Max	L Max	M Max	N Max	Max Entry Code A	Max Entry Code F, L & H
08	09	.906 (23.0)	2.350 (59.7)	.795 (20.2)	2.240 (56.9)	02	02
10	11	.966 (24.5)	2.410 (61.2)	.820 (20.8)	2.270 (57.7)	03	03
12	13	1.026 (26.1)	2.470 (62.7)	.844 (21.4)	2.290 (58.2)	04	04
14	15	1.076 (27.3)	2.540 (64.5)	.861 (21.9)	2.320 (58.9)	05	05
16	17	1.136 (28.9)	2.600 (66.0)	.888 (22.6)	2.340 (59.4)	06	06
18	19	1.176 (29.9)	2.620 (66.5)	.904 (23.0)	2.350 (59.7)	06	07
20	21	1.236 (31.4)	2.680 (68.1)	.929 (23.6)	2.370 (60.2)	07	08
22	23	1.296 (32.9)	2.760 (70.1)	.956 (24.3)	2.410 (61.2)	08	09
24	25	1.356 (34.4)	2.830 (71.9)	.979 (24.9)	2.440 (62.0)	09	10

TABLE IV: CABLE ENTRY

Dash No.	E Entry	F Max	G Max	H Max	J Max	Cable Range Min	Cable Range Max
02	.250 (6.4)	.545 (13.8)	.650 (16.5)	.044 (1.1)	.968 (24.6)	.125 (3.2)	.250 (6.4)
03	.370 (9.4)	.670 (17.0)	.774 (19.7)	.044 (1.1)	1.046 (26.6)	.250 (6.4)	.375 (9.5)
04	.500 (12.7)	.795 (20.2)	.963 (24.5)	.044 (1.1)	1.156 (29.4)	.375 (9.5)	.500 (12.7)
05	.620 (15.7)	.920 (23.4)	1.042 (26.5)	.044 (1.1)	1.218 (30.9)	.500 (12.7)	.625 (15.9)
06	.750 (19.1)	1.045 (26.5)	1.217 (30.9)	.069 (1.8)	1.343 (34.1)	.625 (15.9)	.750 (19.1)
07	.870 (22.1)	1.170 (29.7)	1.355 (34.4)	.069 (1.8)	1.468 (37.3)	.750 (19.1)	.875 (22.2)
08	1.000 (25.4)	1.295 (32.9)	1.443 (36.7)	.069 (1.8)	1.593 (40.5)	.875 (22.2)	1.000 (25.4)
09	1.120 (28.4)	1.420 (36.1)	1.709 (43.4)	.069 (1.8)	1.718 (43.6)	.937 (23.8)	1.125 (28.6)
10	1.250 (31.8)	1.670 (42.4)	1.919 (48.7)	.069 (1.8)	1.843 (46.8)	1.062 (27.0)	1.250 (31.8)

1. Use with Glenair 600-052 bands and 600-058 standard or 600-067 pneumatic banding tools.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. When max entry code per Table III is exceeded, Style II will be supplied.

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407-043
TAG® Ring Environmental Backshell
with EMI/RFI Shield Termination Band Adapter
Rotatable Coupling - Standard Profile

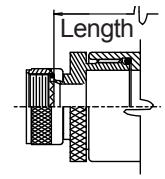
CONNECTOR DESIGNATORS

A-F-H-L

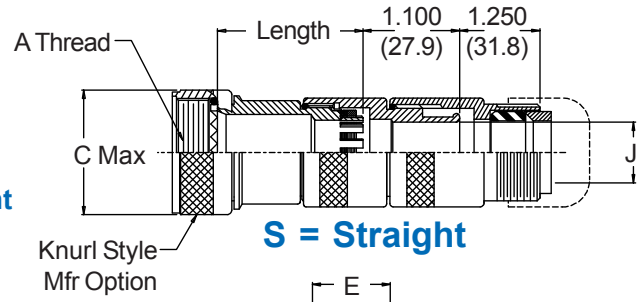
ROTATABLE COUPLING

407 A S 043 M 16 12 06 - 8 H

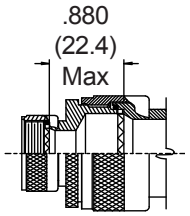
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90° Standard Profile
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Dash No. (Cable Entry Table VI)
- Tag Ring Size (Table VII)
- Length in 1/2" Increments
- Strain Relief Style (H, A, M or D)



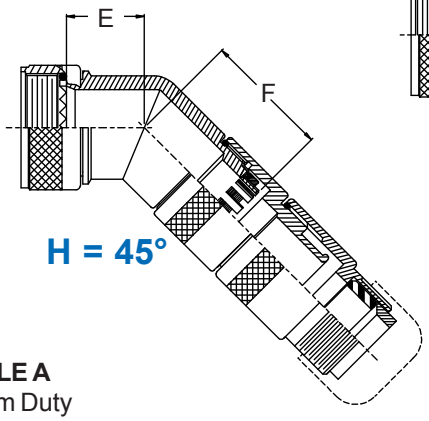
Style II Straight



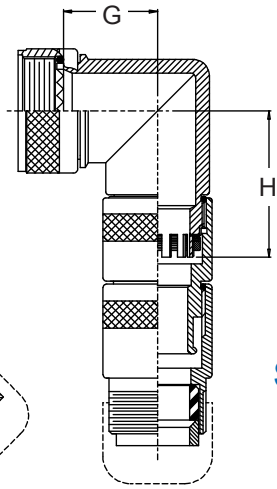
S = Straight



Style II 45° & 90°

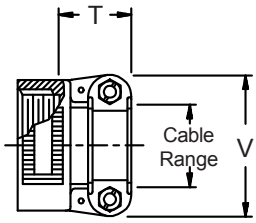


H = 45°

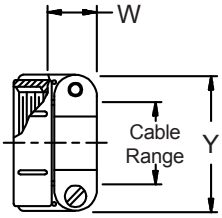


J = 90° Standard Profile

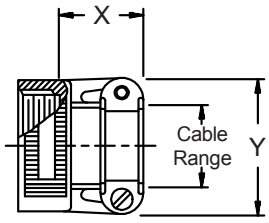
STYLE H
Heavy Duty
(Table V)



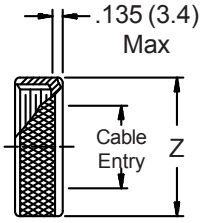
STYLE A
Medium Duty
(Table IV)



STYLE M
Medium Duty
(Table IV)



STYLE D
Medium Duty
(Table IV)



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407-043
TAG® Ring Environmental Backshell
with EMI/RFI Shield Termination Band Adapter
Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L	H	E Max	F Max	G Max	H Max	Max Tag Ring
08	09	.639 (16.2)	1.510 (38.4)	.750 (19.1)	1.620 (41.1)	2
10	11	.664 (16.9)	1.540 (39.1)	.810 (20.6)	1.680 (42.7)	3
12	13	.688 (17.5)	1.560 (39.6)	.870 (22.1)	1.740 (44.2)	4
14	15	.705 (17.9)	1.590 (40.4)	.920 (23.4)	1.810 (46.0)	5
16	17	.732 (18.6)	1.610 (40.9)	.980 (24.9)	1.870 (47.5)	6
18	19	.748 (19.0)	1.620 (41.1)	1.020 (25.9)	1.890 (48.0)	6
20	21	.773 (19.6)	1.640 (41.7)	1.080 (27.4)	1.950 (49.5)	7
22	23	.800 (20.3)	1.680 (42.7)	1.140 (29.0)	2.030 (51.6)	8
24	25	.823 (20.9)	1.710 (43.4)	1.200 (30.5)	2.100 (53.3)	9

TABLE VII: TAG RING

Tag Ring Size	Tag Ring I.D.
02	.250 (6.4)
03	.375 (9.5)
04	.500 (12.7)
05	.625 (15.9)
06	.750 (19.1)
07	.875 (22.2)
08	1.000 (25.4)
09	1.125 (28.6)
10	1.250 (31.8)
11	1.375 (34.9)

TABLE IV: CLAMP SIZE

Clamp Size	Cable Range Min	Cable Range Max	W Max	X Max	Y Max	Z Max
03	.156 (4.0)	.250 (6.4)	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)
04	.188 (4.8)	.312 (7.9)	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)
06	.281 (7.1)	.438 (11.1)	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)
08	.344 (8.7)	.562 (14.3)	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)
10	.375 (9.5)	.625 (15.9)	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)
12	.438 (11.1)	.750 (19.1)	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)
16	.562 (15.9)	.938 (23.8)	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)
20	.750 (22.2)	1.250 (31.8)	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)
24	.781 (25.4)	1.375 (34.9)	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)
28	.969 (31.8)	1.625 (41.3)	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)

TABLE V: CLAMP SIZE

Clamp Size	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (23.4)	.125 (3.2)	312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.438 (11.1)
08	.780 (19.8)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.938 (23.8)
20	1.902 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)

1. When maximum Tag Ring (Table III) is exceeded, Style 2 will be supplied. Dimensions E, F, G, and H will not apply. Please consult factory.
2. Standard mimimum length for Style I is 1.5 inches and 2 inches for Style II. Consult factory for shorter length.
3. Metric dimensions (mm) are indicated in parentheses.
4. Cable range is defined as the accommodations range for the wire bundle or cable.
5. Dimensions shown are not intended for inspection criteria.

TABLE VI: CABLE ENTRY

Dash No.	Clamp Size	J Dia
03	03	.188 (4.8)
04	03	.250 (6.4)
05	04	.312 (7.9)
06	06	.375 (9.5)
07	06	.438 (11.1)
08	08	.500 (12.7)
09	10	.562 (14.3)
10	10	.625 (15.9)
11	12	.688 (17.5)
12	12	.750 (19.1)
13	16	.812 (20.6)
14	16	.875 (22.2)
15	16	.938 (23.8)
17	20	1.000 (25.4)
18	20	1.062 (27.0)
16	20	1.125 (28.6)
20	20	1.250 (31.8)
22	24	1.375 (34.9)
24	28	1.500 (38.1)

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Need something unusual in a multi-contact connector?



Then consider Glenair's expertise in high reliability connector design and development.

Glenair's line of innovative, specialty connectors has grown, year after year, to become one of the most diverse in the industry. Our application engineers have worked directly with commercial, industrial and military customers worldwide to design and build such products as quick disconnects for missile launchers, high temperature connectors for jet engines, shorting plugs to prevent accidental weapon firing, explosion-proof bulkhead feed-throughs for marine and off-shore platform use, and hermetically-sealed MIL-DTL-38999 connectors for military applications. So, for extraordinary applications, consider an extraordinary partner: Glenair.



Commercial and Mil Spec connector accessories



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Electrical and fiber optic cable assemblies



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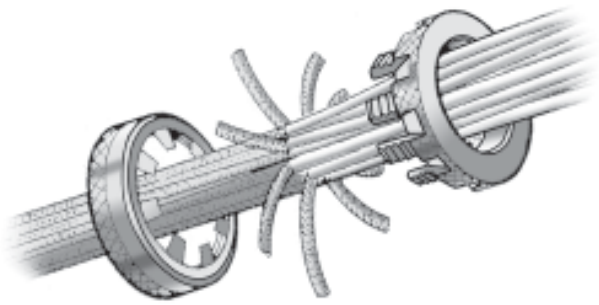
Backshell assembly and termination tools

Glenair®

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Glendale, California 91201-2497
Telephone: 818-247-6000 · Facsimilie: 818-500-9912 · EMail: sales@glenair.com

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PRODUCT FEATURES

- Designed for the termination of indivdually shielded wire media in cables and wire bundles
- Patented Glenair Technology
- Straight Configuration Only
- Enhanced Repirability

TAG® Ring Shield Termination Device

Proven EMI/RFI grounding technology for individual conductors

Glenair's TAG® Ring provides a reliable and convenient method of common termination of groups of individual shields/screens on wire bundles and harnesses. This device offers a repairable alternative to inner-outer crimp rings, daisy chains and other termination systems and as supplied may be incorporated in a broad range of standard backshell assemblies.

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Glenair®

410-003
TAG Ring® Shield Termination

410-003-06

Basic Part No. — Dash No. (Table III)

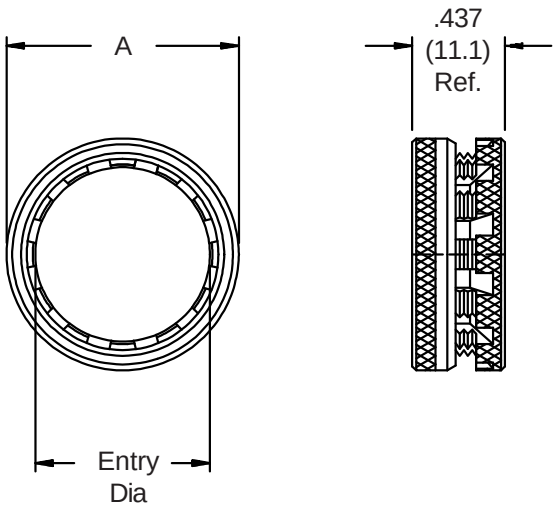
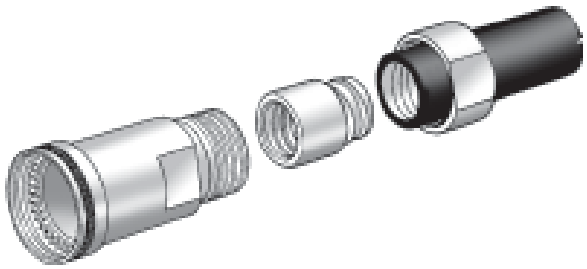


TABLE III: DIMENSIONS

Dash No.	A Dia		Entry Dia.		No. of Slots	Weight in Grams
02	.545	(13.8)	.250	(6.4)	3	2.268
03	.670	(17.0)	.375	(9.5)	4	2.722
04	.795	(20.2)	.500	(12.7)	6	3.175
05	.920	(23.4)	.625	(15.9)	8	4.082
06	1.045	(26.5)	.750	(19.1)	10	4.536
07	1.170	(29.7)	.875	(22.2)	10	4.990
08	1.295	(32.9)	1.000	(25.4)	12	5.443
09	1.420	(36.1)	1.125	(28.6)	15	6.350
10	1.687	(42.8)	1.250	(31.8)	15	10.433
11	1.812	(46.0)	1.375	(34.9)	15	14.515

1. Finish: Body and Nut - Gold Iridite; Spring - Gold Plate.
2. Metric dimensions (mm) are indicated in parentheses.

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PRODUCT FEATURES

- **Secure Electrical Grounding of Metallic Conduit to Circular Conector Backshells**
- **Rotatable and Direct Coupling Styles**
- **Low Profile Designs**
- **Straight, 45° and 90° Configurations**

Fool-Proof Integration of Sealtite/Liquidtite Conduit into Safety-Critical Interconnect Systems

For EMI/RFI and environmental applications

This series of backshells provide a convenient method of terminating Sealtite/Liquidtite conduit (or equivalent) to a variety of circular connectors. A malleable ferrule which fits over the exposed end of the conduit is compressed into the outer jackets as the lock nut is tightened. This also provides a secure electrical ground for the metal core of the conduit to the backshell body. No special tools are required for assembly. For conduit information, see Glenair's *Convoluted Tubing, Braiding and Flexible Metal-Core Conduit Systems* catalog.

Sealtite™ is a registered trademark of Anaconda Corp.

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420-001
Sealtite™/Liquidtite Conduit Backshell
Rotatable Coupling - Low Profile

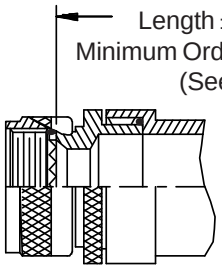
CONNECTOR DESIGNATORS

A-F-H-L-S

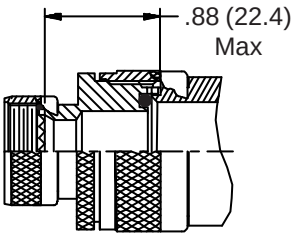
ROTATABLE COUPLING

420 F S 001 M 16 03-6

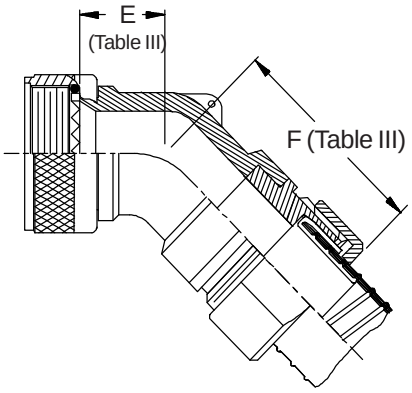
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

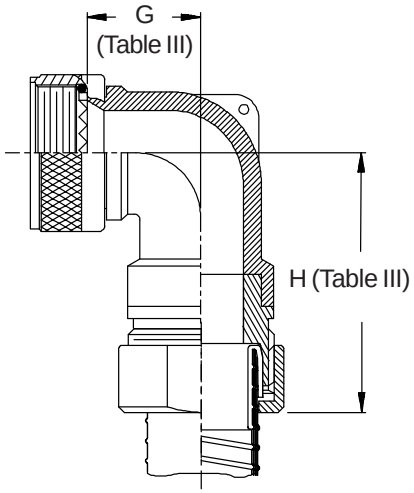


STYLE 2 (STRAIGHT)



STYLE 2 (45° & 90°)





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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.457	(11.6)	1.810	(46.0)	.500	(12.7)	1.820	(46.2)
10	11	.520	(13.2)	1.870	(47.5)	.595	(15.1)	1.940	(49.3)
12	13	.582	(14.8)	1.930	(49.0)	.610	(15.5)	1.960	(49.8)
14	15	.645	(16.4)	2.020	(51.3)	.700	(17.8)	2.030	(51.6)
16	17	.738	(18.7)	2.130	(54.1)	.885	(22.5)	2.120	(53.8)
18	19	.926	(23.5)	2.320	(58.9)	.975	(24.8)	2.290	(58.2)
20	21	.926	(23.5)	2.320	(58.9)	.975	(24.8)	2.290	(58.2)
22	23	1.020	(25.9)	2.470	(62.7)	1.125	(28.6)	2.400	(61.0)
24	25	1.020	(25.9)	2.470	(62.7)	1.125	(28.6)	2.400	(61.0)
28		1.145	(29.1)	2.520	(64.0)	1.225	(31.1)	2.570	(65.3)
32		1.207	(30.7)	2.620	(66.5)	1.575	(40.0)	2.820	(71.6)
36		1.238	(31.4)	2.710	(68.8)	1.775	(45.1)	2.820	(71.6)

TABLE IV: CABLE ENTRY

Dash No.	Conduit Size (Ref.)	K Dimension (Ref) Min		K Dimension (Ref) Max		L Dimension (Ref) Min		L Dimension (Ref) Max		M Max		N Max Wrench Flats	
01	3/8	.484	(12.3)	.504	(12.8)	.690	(17.5)	.710	(18.0)	1.155	(29.3)	1.000	(25.4)
02	1/2	.622	(15.8)	.642	(16.3)	.820	(20.8)	.840	(21.3)	1.282	(32.6)	1.125	(28.6)
03	3/4	.820	(20.8)	.840	(21.3)	1.030	(26.2)	1.050	(26.7)	1.531	(38.9)	1.375	(34.9)
04	1	1.041	(26.4)	1.066	(27.1)	1.290	(32.8)	1.315	(33.4)	1.781	(45.2)	1.625	(41.3)
05	1 1/4	1.380	(35.1)	1.410	(35.8)	1.630	(41.4)	1.660	(42.2)	2.218	(56.3)	2.062	(52.4)
06	1 1/2	1.575	(40.0)	1.600	(40.6)	1.875	(47.6)	1.900	(48.3)	2.468	(62.7)	2.312	(58.7)
07	2	2.020	(51.3)	2.045	(51.9)	2.350	(59.7)	2.375	(60.3)	3.031	(77.0)	2.875	(73.0)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. O-Ring not supplied with Connector Designator A.
6. Sealtite is a trademark of Anaconda Corp.

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420-002
Sealtite™/Liquidtite Conduit Backshell
Direct Coupling - Low Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

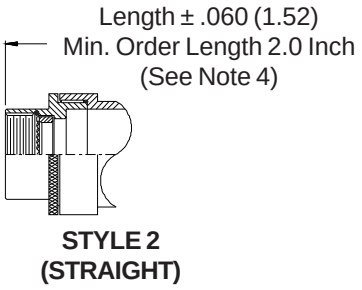
G-H-J-K-L-S

*** Conn. Desig. B See Note 6**

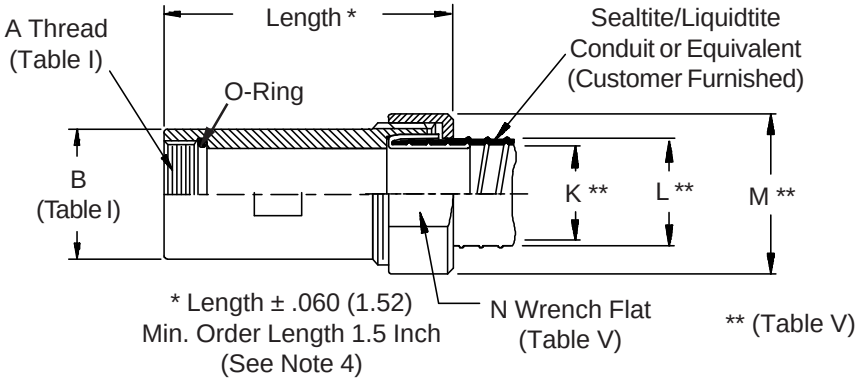
DIRECT COUPLING

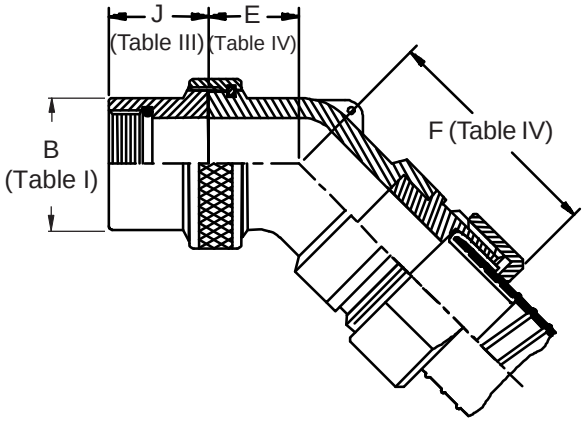
420 F S 002 M 16 03-6

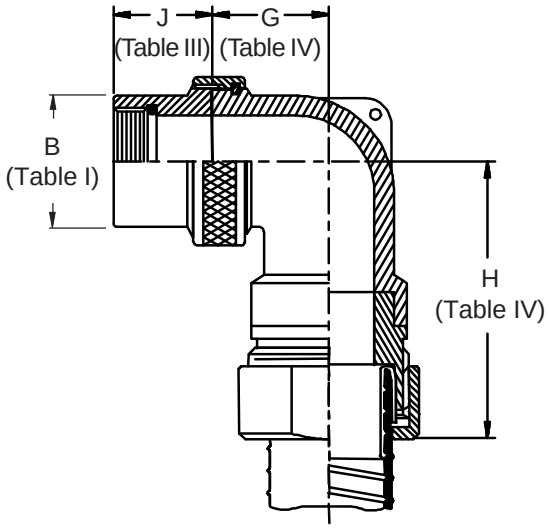
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



STYLE 2 (STRAIGHT)







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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Sealtite is a trademark of Anaconda Corp.
6. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE IV: ELBOW DIMENSIONS

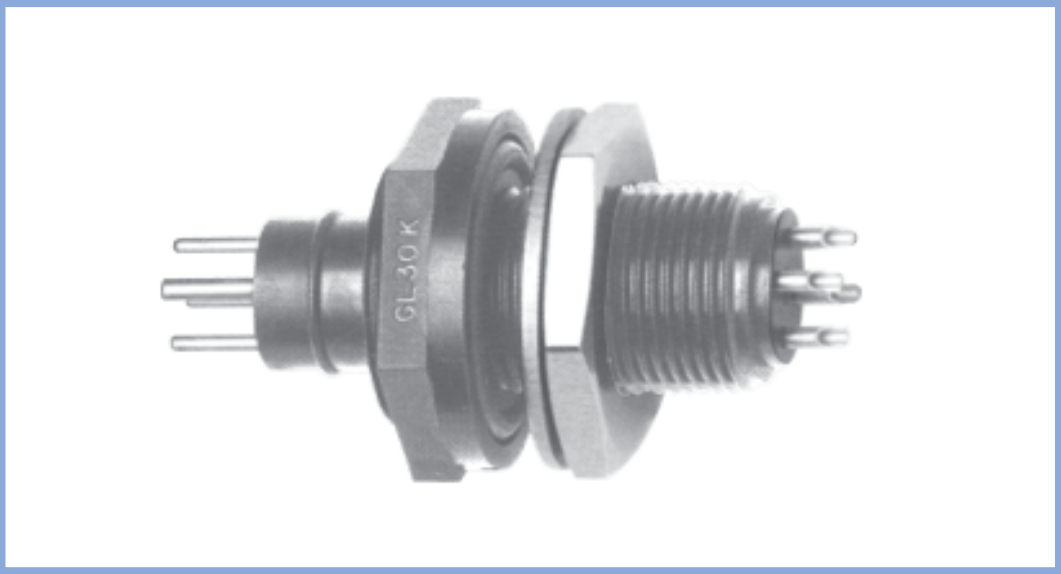
Elbow Size	E Max		F Max		G Max		H Max	
01	.630	(16.0)	1.870	(47.5)	.709	(18.0)	1.940	(49.3)
02	.692	(17.6)	1.930	(49.0)	.734	(18.6)	1.960	(49.8)
03	.848	(21.5)	2.130	(54.1)	.990	(25.1)	2.120	(53.8)
04	1.036	(26.3)	2.320	(58.9)	1.090	(27.7)	2.290	(58.2)
05	1.130	(28.7)	2.470	(62.7)	1.325	(33.7)	2.400	(61.0)
06	1.317	(33.5)	2.620	(66.5)	1.827	(46.4)	2.820	(71.6)
07	1.348	(34.2)	2.710	(68.8)	2.027	(51.5)	2.820	(71.6)

TABLE V: CABLE ENTRY

Dash No.	Conduit Size (Ref.)	K Dimension Min		K Dimension Max		L Dimension Min		L Dimension Max		M Max		N Max Wrench Flat	
01	3/8	.484	(12.3)	.504	(12.8)	.690	(17.5)	.710	(18.0)	1.155	(29.3)	1.000	(25.4)
02	1/2	.622	(15.8)	.642	(16.3)	.820	(20.8)	.840	(21.3)	1.282	(32.6)	1.125	(28.6)
03	3/4	.820	(20.8)	.840	(21.3)	1.030	(26.2)	1.050	(26.7)	1.531	(38.9)	1.375	(34.9)
04	1	1.041	(26.4)	1.066	(27.1)	1.290	(32.8)	1.315	(33.4)	1.781	(45.2)	1.625	(41.3)
05	1 1/4	1.380	(35.1)	1.410	(35.8)	1.630	(41.4)	1.660	(42.2)	2.218	(56.3)	2.062	(52.4)
06	1 1/2	1.575	(40.0)	1.600	(40.6)	1.875	(47.6)	1.900	(48.3)	2.468	(62.7)	2.312	(58.7)
07	2	2.020	(51.3)	2.045	(51.9)	2.350	(59.7)	2.375	(60.3)	3.031	(77.0)	2.875	(73.0)

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To Glenair
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Tinel-Lock® is a registered trademark of Tyco

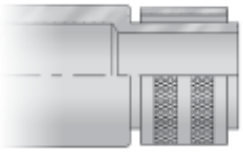
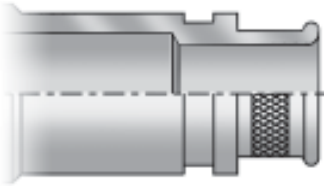
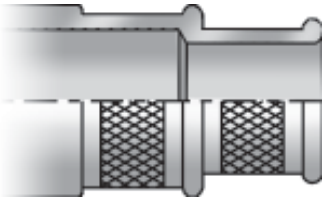
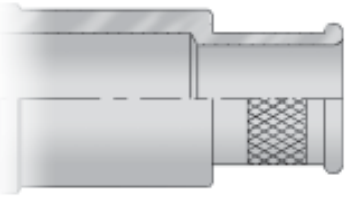
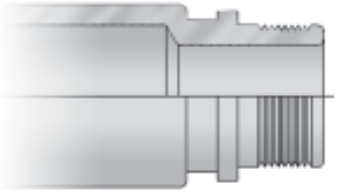
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Glenair®

Series 440
Banding and Crimping EMI/RFI Backshells
Quick Reference Guide

Quick Page Number Reference Guide

Consult factory for additional designs not included within this catalog.

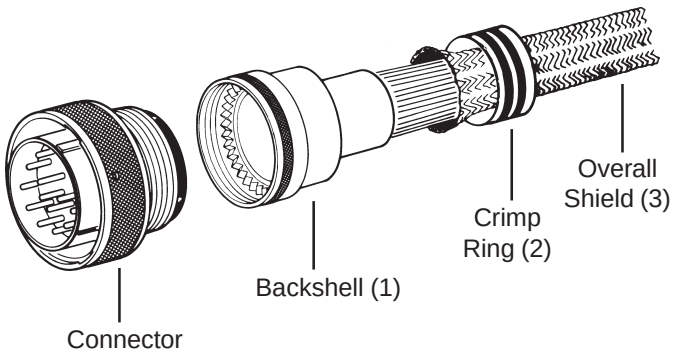
Shield Termination/ Cable Entry Design	Coupling Type	Connector Designators	Page Number			
			Straight	Standard Profile	Full Radius Profile	Split Shell Elbows
 Crimp Ring Adapter	Rotatable 440-063	A F H L S	440-4	440-4		440-6
	Direct 440-001	All	440-8	440-8		440-10
 Banding Platform with Shrink Boot Adapter	Rotatable 440-030	A F H L S	440-12	440-12	440-14	440-16
	Direct 440-031	All	440-18	440-18		440-20
	Self-Locking Rotatable 440-069	All	440-22	440-22	440-24	440-26
 Dual Banding Platform	Rotatable 440-070	A F H L S	440-28	440-28	440-30	440-32
	Direct 440-071	All	440-34	440-34		440-36
	Self-Locking Rotatable 440-072	A F H L S	440-38	440-38	440-40	440-42
 Single Banding Platform	Rotatable 440-073	A F H L S	440-44	440-44	440-46	440-48
	Direct 440-074	All	440-50	440-50		440-52
	Self-Locking Rotatable 440-075	A F H L S	440-54	440-54	440-56	440-58
 Tinel-Lock® Ring with Shrink Boot Adapter	Rotatable 440-084	A F H L S	440-60	440-60		440-62
	Direct 440-085	All	440-64	440-64		
	Self-Locking Rotatable 440-086	A F H L S	440-66	440-66		440-68

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Crimp Ring Backshells
Assembly Instructions 44-1



The following suggested prodedure serves as a guide for proper assembly and installation of Glenair EMI/RFI Crimp Ring Backshells. It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield, individual conductors, and cable jacket where applicable.

a. Temporarily assemble backshell (1) to connector.

b. Place crimp ring (2) on cable or harness, and keep it at a convenient distance from the end of the cable so it will not interfere with subsequent assembly steps.

c. Insert cable or harness into backshell (1) and bottom against connector. Hold cable in position and mark outer shield (or jacket) at rear end of backshell.

d. Remove backshell from connector and place on cable with crimp ring (2).

e. Trim outer shield (and jacket if necessary) at mark made in step (c) above.

f. Prepare and terminate individual conductors in accordance with established practices.

g. Assemble backshell (1) to connector and tighten securely.

h. Flare shield over rear crimping area of backshell (1) and slide crimp ring (2) into place over shield.

i. Hold crimp ring and shield in position as in step (h) and crimp with proper tool, making sure accepted crimping practices are observed. Trim any exposed shield strands at forward end of crimp ring.

j. Depending on the particular application, subsequent molding, potting or shrink boot installation may be accomplished at this point, using the knurled surface or molding grooves provided on the backshell body.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. Be sure the proper crimp tool and die head is used. For convenient reliable assembly of the backshell to the connector it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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440-063
EMI/RFI Crimp Ring Adapter
Rotatable Coupling - Standard Profile

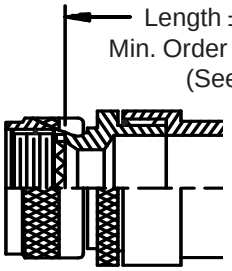
CONNECTOR DESIGNATORS

A-F-H-L-S

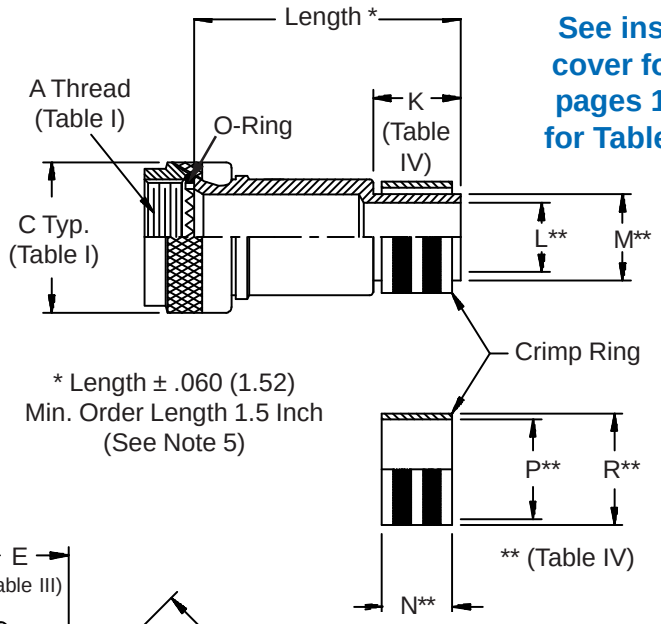
ROTATABLE COUPLING

440 F S 063 M 16 32-6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

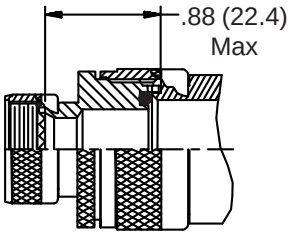


STYLE 2 (STRAIGHT See Note 1)

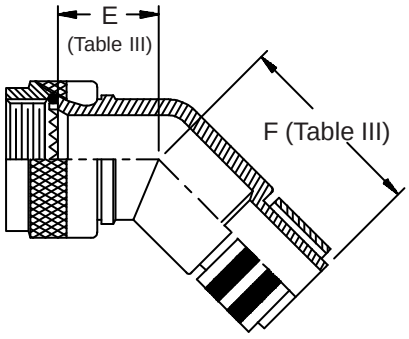


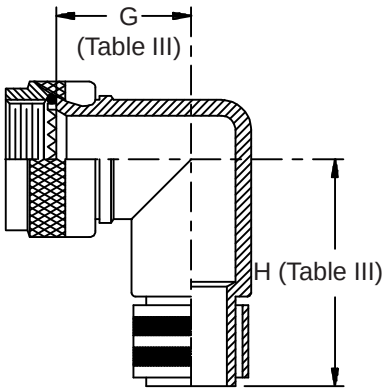
* Length ± .060 (1.52)
Min. Order Length 1.5 Inch
(See Note 5)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.



STYLE 2 (45° & 90° See Note 1)





Metric dimensions (mm) are indicated in parentheses.

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440-063
EMI/RFI Crimp Ring Adapter
Rotatable Coupling - Standard Profile

Glenair®

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	.702	(17.8)	.750	(19.1)	.812	(20.6)
10	11	.664	(16.9)	.732	(18.6)	.812	(20.6)	.875	(22.2)
12	13	.688	(17.5)	1.040	(26.4)	.875	(22.2)	1.220	(31.0)
14	15	.705	(17.9)	1.070	(27.2)	.920	(23.4)	1.290	(32.8)
16	17	.732	(18.6)	1.090	(27.7)	.980	(24.9)	1.350	(34.3)
18	19	.748	(19.0)	1.100	(27.9)	1.020	(25.9)	1.370	(34.8)
20	21	.773	(19.6)	1.120	(28.4)	1.080	(27.4)	1.430	(36.3)
22	23	.800	(20.3)	1.160	(29.5)	1.140	(29.0)	1.510	(38.4)
24	25	.823	(20.9)	1.190	(30.2)	1.200	(30.5)	1.580	(40.1)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. For proper installation of crimp ring, use Thomas & Betts (or equivalent) installation dies listed (Table IV) for each dash no.
3. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. Interface O-Ring not supplied with Connector Designator A.

TABLE IV: CABLE ENTRY

Dash No.	K Nom		L Nom		M Nom		N Nom		P Nom		R Nom		Color Code (Ref.)	Inst. Tool Die No. (Note 2)
06	.312	(7.9)	.090	(2.3)	.113	(2.9)	.250	(6.4)	.156	(4.0)	.194	(4.9)	Yellow	WT402
10	.312	(7.9)	.124	(3.1)	.145	(3.7)	.250	(6.4)	.187	(4.7)	.227	(5.8)	Orange	WT406
13	.312	(7.9)	.149	(3.8)	.179	(4.5)	.250	(6.4)	.225	(5.7)	.256	(6.5)	Purple	WT409
16	.312	(7.9)	.175	(4.4)	.215	(5.5)	.250	(6.4)	.261	(6.6)	.297	(7.5)	Yellow	WT411
20	.312	(7.9)	.219	(5.6)	.250	(6.4)	.250	(6.4)	.297	(7.5)	.335	(8.5)	Green	WT414
23	.312	(7.9)	.250	(6.4)	.281	(7.1)	.250	(6.4)	.327	(8.3)	.372	(9.4)	Tin	WT416
26	.312	(7.9)	.275	(7.0)	.306	(7.8)	.250	(6.4)	.375	(9.5)	.406	(10.3)	Yellow	WT440/5451
29	.312	(7.9)	.297	(7.5)	.335	(8.5)	.250	(6.4)	.405	(10.3)	.453	(11.5)	Red	WT440/5452
30	.312	(7.9)	.312	(7.9)	.365	(9.3)	.250	(6.4)	.425	(10.8)	.473	(12.0)	Tin	WT440/5454
31	.312	(7.9)	.375	(9.5)	.406	(10.3)	.250	(6.4)	.500	(12.7)	.560	(14.2)	Green	WT440/5457
32	.600	(15.2)	.430	(10.9)	.500	(12.7)	.440	(11.2)	.590	(15.0)	.670	(17.0)	Red	GS590
33	.600	(15.2)	.550	(14.0)	.620	(15.7)	.440	(11.2)	.710	(18.0)	.790	(20.1)	Blue	GS710
34	.600	(15.2)	.670	(17.0)	.750	(19.1)	.440	(11.2)	.840	(21.3)	.920	(23.4)	Gray	GS840
35	.600	(15.2)	.810	(20.6)	.880	(22.4)	.440	(11.2)	1.010	(25.7)	1.090	(27.7)	Brown	GS1010
36	.600	(15.2)	.920	(23.4)	1.000	(25.4)	.440	(11.2)	1.130	(28.7)	1.210	(30.7)	Green	GS1130
38	.600	(15.2)	1.040	(26.4)	1.120	(28.4)	.440	(11.2)	1.250	(31.8)	1.330	(33.8)	Pink	GS1250
39	.600	(15.2)	1.122	(28.5)	1.192	(30.3)	.440	(11.2)	1.332	(33.8)	1.412	(35.9)	Orange	GS1332
40	.600	(15.2)	1.224	(31.1)	1.294	(32.9)	.440	(11.2)	1.440	(36.6)	1.520	(38.6)	Purple	GS1440
41	.600	(15.2)	1.353	(34.4)	1.423	(36.1)	.440	(11.2)	1.562	(39.7)	1.643	(41.7)	Yellow	GS1563
42	.600	(15.2)	1.425	(36.2)	1.545	(39.2)	.440	(11.2)	1.670	(42.4)	1.750	(44.5)	Red	GS1670
43	.600	(15.2)	1.550	(39.4)	1.670	(42.4)	.440	(11.2)	1.795	(45.6)	1.875	(47.6)	Blue	GS1795
44	.600	(15.2)	1.675	(42.5)	1.795	(45.6)	.440	(11.2)	1.920	(48.8)	2.000	(50.8)	Gray	GS1920
45	.600	(15.2)	1.800	(45.7)	1.920	(48.8)	.440	(11.2)	2.045	(51.9)	2.125	(54.0)	Brown	GS2045
46	.600	(15.2)	1.925	(48.9)	2.045	(51.9)	.440	(11.2)	2.170	(55.1)	2.250	(57.2)	Green	GS2170
47	.600	(15.2)	2.050	(52.1)	2.170	(55.1)	.440	(11.2)	2.295	(58.3)	2.375	(60.3)	Pink	GS2295
48	.600	(15.2)	2.175	(55.2)	2.295	(58.3)	.440	(11.2)	2.420	(61.5)	2.500	(63.5)	Orange	GS2420
49	.600	(15.2)	2.300	(58.4)	2.420	(61.5)	.440	(11.2)	2.545	(64.6)	2.625	(66.7)	Purple	GS2545
50	.600	(15.2)	2.425	(61.6)	2.545	(64.6)	.440	(11.2)	2.670	(67.8)	2.750	(69.9)	Yellow	GS2670
51	.600	(15.2)	2.530	(64.3)	2.670	(67.8)	.440	(11.2)	2.795	(71.0)	2.875	(73.0)	Red	GS2795
52	.600	(15.2)	2.655	(67.4)	2.795	(71.0)	.440	(11.2)	2.920	(74.2)	3.000	(76.2)	Blue	GS2920
53	.600	(15.2)	2.780	(70.6)	2.920	(74.2)	.440	(11.2)	3.045	(77.3)	3.125	(79.4)	Gray	GS3045
54	.600	(15.2)	2.905	(73.8)	3.045	(77.3)	.440	(11.2)	3.170	(80.5)	3.250	(82.6)	Brown	GS3170

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440-063
EMI/RFI Crimp Ring Adapter
Rotatable Coupling - Split Shell

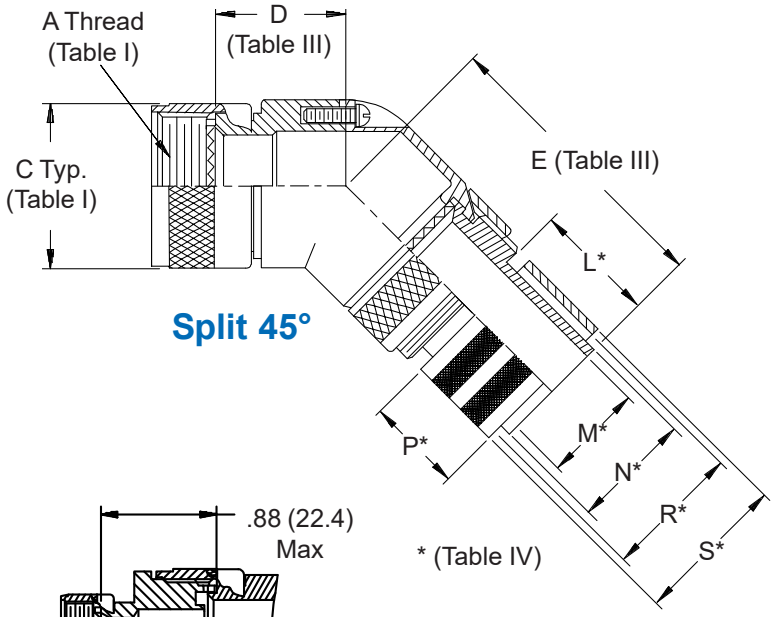
CONNECTOR DESIGNATORS

A-F-H-L-S

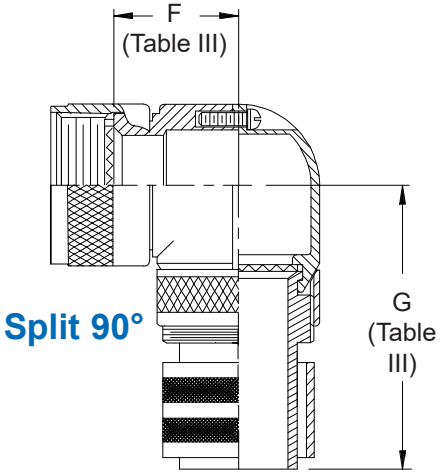
ROTATABLE COUPLING

440 F D 063 M 16 32

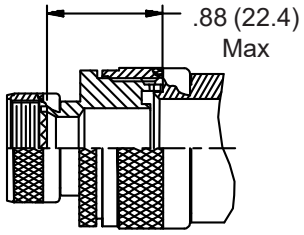
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)



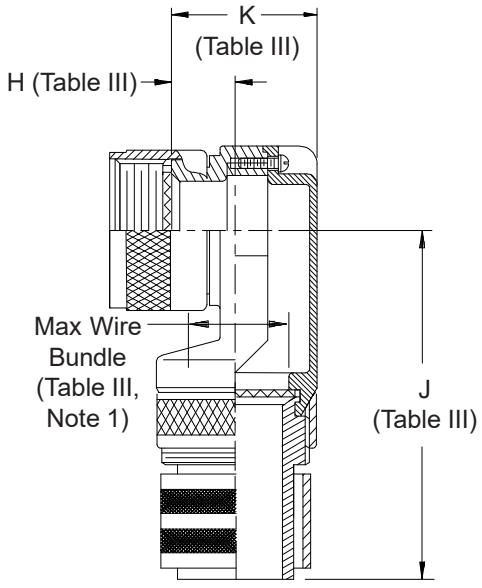
Split 45°



Split 90°



STYLE 2
(See Note 1)



Ultra Low-Profile Split 90°

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions D, E, F and G will not apply. Please consult factory.
2. For proper installation of crimp ring, use Thomas & Betts (or equivalent) installation dies listed (Table IV) for each dash no.
3. Metric dimensions (mm) are indicated in parentheses.
4. Dimensions shown are not intended for inspection criteria.
5. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	D Max	E Max	F Max	G Max	H Ref	J Max	K Max	Function C Max Wire Bundle
08/09	.440 (11.2)	1.402 (35.6)	.680 (17.3)	1.342 (34.1)	.340 (8.6)	1.682 (42.7)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	1.462 (37.1)	.750 (19.1)	1.402 (35.6)	.270 (6.9)	1.842 (46.8)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	1.820 (46.2)	.810 (20.6)	1.760 (44.7)	.270 (6.9)	2.130 (54.1)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	1.850 (47.0)	.870 (22.1)	1.790 (45.5)	.280 (7.1)	2.200 (55.9)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	1.950 (49.5)	.930 (23.6)	1.890 (48.0)	.420 (10.7)	2.250 (57.2)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	2.010 (51.1)	1.000 (25.4)	1.950 (49.5)	.640 (16.3)	2.280 (57.9)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	2.070 (52.6)	1.060 (26.9)	2.010 (51.1)	.640 (16.3)	2.280 (57.9)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	2.130 (54.1)	1.120 (28.4)	2.070 (52.6)	.540 (13.7)	2.430 (61.7)	1.181 (30.0)	.750 (19.1)
24/25	.940 (23.9)	2.190 (55.6)	1.180 (30.0)	2.130 (54.1)	.540 (13.7)	2.430 (61.7)	1.181 (30.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	L Nom	M Nom	N Nom	P Nom	R Nom	S Nom	Color Code (Ref.)	Inst. Tool Die No. (Note 2)
06	.312 (7.9)	.090 (2.3)	.113 (2.9)	.250 (6.4)	.156 (4.0)	.194 (4.9)	Yellow	WT402
10	.312 (7.9)	.124 (3.1)	.145 (3.7)	.250 (6.4)	.187 (4.7)	.227 (5.8)	Orange	WT406
13	.312 (7.9)	.149 (3.8)	.179 (4.5)	.250 (6.4)	.225 (5.7)	.256 (6.5)	Purple	WT409
16	.312 (7.9)	.175 (4.4)	.215 (5.5)	.250 (6.4)	.261 (6.6)	.297 (7.5)	Yellow	WT411
20	.312 (7.9)	.219 (5.6)	.250 (6.4)	.250 (6.4)	.297 (7.5)	.335 (8.5)	Green	WT414
23	.312 (7.9)	.250 (6.4)	.281 (7.1)	.250 (6.4)	.327 (8.3)	.372 (9.4)	Tin	WT416
26	.312 (7.9)	.275 (7.0)	.306 (7.8)	.250 (6.4)	.375 (9.5)	.406 (10.3)	Yellow	WT440/5451
29	.312 (7.9)	.297 (7.5)	.335 (8.5)	.250 (6.4)	.405 (10.3)	.453 (11.5)	Red	WT440/5452
30	.312 (7.9)	.312 (7.9)	.365 (9.3)	.250 (6.4)	.425 (10.8)	.473 (12.0)	Tin	WT440/5454
31	.312 (7.9)	.375 (9.5)	.406 (10.3)	.250 (6.4)	.500 (12.7)	.560 (14.2)	Green	WT440/5457
32	.600 (15.2)	.430 (10.9)	.500 (12.7)	.440 (11.2)	.590 (15.0)	.670 (17.0)	Red	GS590
33	.600 (15.2)	.550 (14.0)	.620 (15.7)	.440 (11.2)	.710 (18.0)	.790 (20.1)	Blue	GS710
34	.600 (15.2)	.670 (17.0)	.750 (19.1)	.440 (11.2)	.840 (21.3)	.920 (23.4)	Gray	GS840
35	.600 (15.2)	.810 (20.6)	.880 (22.4)	.440 (11.2)	1.010 (25.7)	1.090 (27.7)	Brown	GS1010
36	.600 (15.2)	.920 (23.4)	1.000 (25.4)	.440 (11.2)	1.130 (28.7)	1.210 (30.7)	Green	GS1130
38	.600 (15.2)	1.040 (26.4)	1.120 (28.4)	.440 (11.2)	1.250 (31.8)	1.330 (33.8)	Pink	GS1250
39	.600 (15.2)	1.122 (28.5)	1.192 (30.3)	.440 (11.2)	1.332 (33.8)	1.412 (35.9)	Orange	GS1332
40	.600 (15.2)	1.224 (31.1)	1.294 (32.9)	.440 (11.2)	1.440 (36.6)	1.520 (38.6)	Purple	GS1440
41	.600 (15.2)	1.353 (34.4)	1.423 (36.1)	.440 (11.2)	1.562 (39.7)	1.643 (41.7)	Yellow	GS1563
42	.600 (15.2)	1.425 (36.2)	1.545 (39.2)	.440 (11.2)	1.670 (42.4)	1.750 (44.5)	Red	GS1670
43	.600 (15.2)	1.550 (39.4)	1.670 (42.4)	.440 (11.2)	1.795 (45.6)	1.875 (47.6)	Blue	GS1795
44	.600 (15.2)	1.675 (42.5)	1.795 (45.6)	.440 (11.2)	1.920 (48.8)	2.000 (50.8)	Gray	GS1920
45	.600 (15.2)	1.800 (45.7)	1.920 (48.8)	.440 (11.2)	2.045 (51.9)	2.125 (54.0)	Brown	GS2045
46	.600 (15.2)	1.925 (48.9)	2.045 (51.9)	.440 (11.2)	2.170 (55.1)	2.250 (57.2)	Green	GS2170
47	.600 (15.2)	2.050 (52.1)	2.170 (55.1)	.440 (11.2)	2.295 (58.3)	2.375 (60.3)	Pink	GS2295
48	.600 (15.2)	2.175 (55.2)	2.295 (58.3)	.440 (11.2)	2.420 (61.5)	2.500 (63.5)	Orange	GS2420
49	.600 (15.2)	2.300 (58.4)	2.420 (61.5)	.440 (11.2)	2.545 (64.6)	2.625 (66.7)	Purple	GS2545
50	.600 (15.2)	2.425 (61.6)	2.545 (64.6)	.440 (11.2)	2.670 (67.8)	2.750 (69.9)	Yellow	GS2670
51	.600 (15.2)	2.530 (64.3)	2.670 (67.8)	.440 (11.2)	2.795 (71.0)	2.875 (73.0)	Red	GS2795
52	.600 (15.2)	2.655 (67.4)	2.795 (71.0)	.440 (11.2)	2.920 (74.2)	3.000 (76.2)	Blue	GS2920
53	.600 (15.2)	2.780 (70.6)	2.920 (74.2)	.440 (11.2)	3.045 (77.3)	3.125 (79.4)	Gray	GS3045
54	.600 (15.2)	2.905 (73.8)	3.045 (77.3)	.440 (11.2)	3.170 (80.5)	3.250 (82.6)	Brown	GS3170

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440-001
EMI/RFI Crimp Ring Adapter
Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

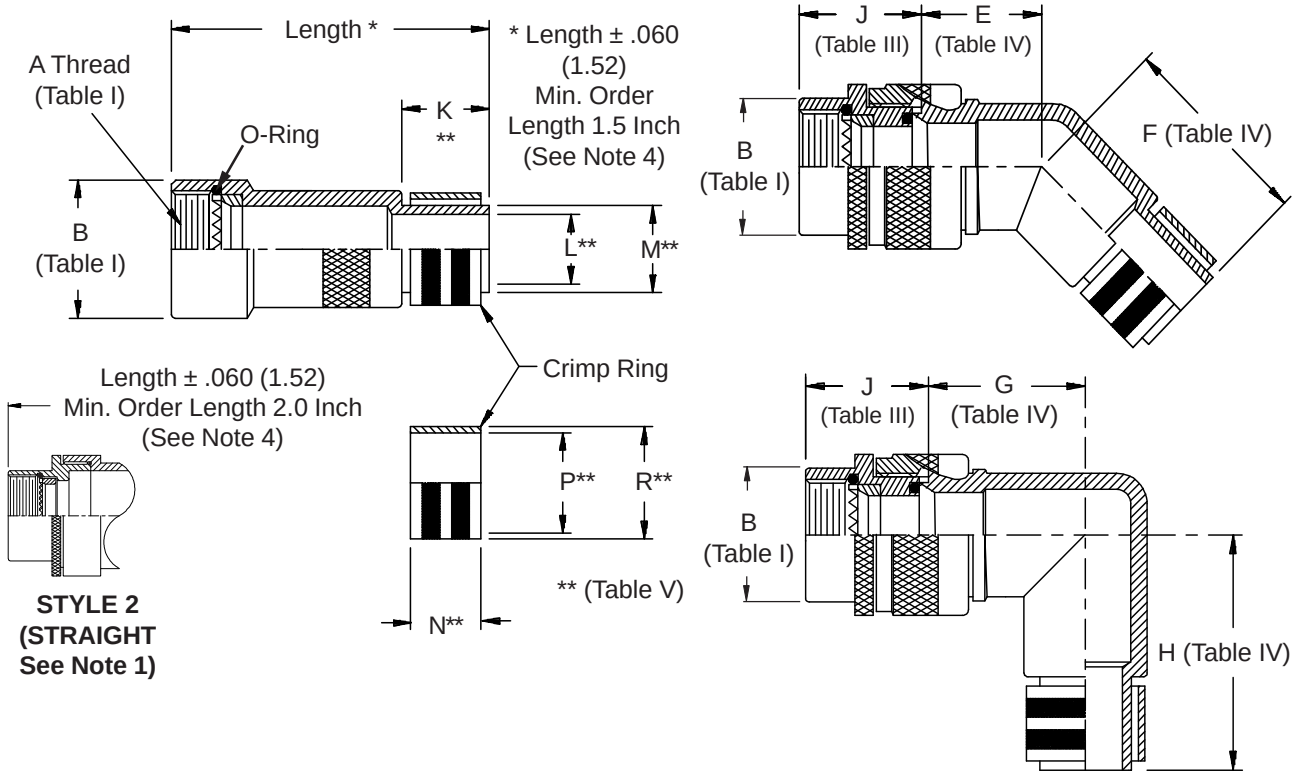
G-H-J-K-L-S

*** Conn. Desig. B See Note 5**

DIRECT COUPLING

440 F S 001 M 16 32-6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)



See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. When maximum cable entry (page 22- Introduction) is exceeded, Style 2 will be supplied. (Function S only).
2. For proper installation of crimp ring, use Thomas & Betts (or equivalent) installation dies listed (Table V) for each dash no.
3. Metric dimensions (mm) are indicated in parentheses.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.

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TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Dash No.'s (Table V)	E Max	F Max	G Max	H Max
06-23	.639 (16.2)	.702 (17.8)	.750 (19.1)	.812 (20.6)
26-30	.664 (16.9)	.732 (18.6)	.812 (20.6)	.875 (22.2)
31-32	.688 (17.5)	1.040 (26.4)	.875 (22.2)	1.220 (31.0)
33	.705 (17.9)	1.070 (27.2)	.920 (23.4)	1.290 (32.8)
34	.732 (18.6)	1.090 (27.7)	.980 (24.9)	1.350 (34.3)
35	.773 (19.6)	1.100 (27.9)	1.020 (25.9)	1.370 (34.8)
36	.800 (20.3)	1.160 (29.5)	1.140 (29.0)	1.510 (38.4)
38-39	.823 (20.9)	1.190 (30.2)	1.200 (30.5)	1.580 (40.1)

TABLE V: CABLE ENTRY

Dash No.	K Nom		L Nom		M Nom		N Nom		P Nom		R Nom		Color Code (Ref.)	Inst. Tool Die No. (Note 2)
06	.312	(7.9)	.090	(2.3)	.113	(2.9)	.250	(6.4)	.156	(4.0)	.194	(4.9)	Yellow	WT402
10	.312	(7.9)	.124	(3.1)	.145	(3.7)	.250	(6.4)	.187	(4.7)	.227	(5.8)	Orange	WT406
13	.312	(7.9)	.149	(3.8)	.179	(4.5)	.250	(6.4)	.225	(5.7)	.256	(6.5)	Purple	WT409
16	.312	(7.9)	.175	(4.4)	.215	(5.5)	.250	(6.4)	.261	(6.6)	.297	(7.5)	Yellow	WT411
20	.312	(7.9)	.219	(5.6)	.250	(6.4)	.250	(6.4)	.297	(7.5)	.335	(8.5)	Green	WT414
23	.312	(7.9)	.250	(6.4)	.281	(7.1)	.250	(6.4)	.327	(8.3)	.372	(9.4)	Tin	WT416
26	.312	(7.9)	.275	(7.0)	.306	(7.8)	.250	(6.4)	.375	(9.5)	.406	(10.3)	Yellow	WT440/5451
29	.312	(7.9)	.297	(7.5)	.335	(8.5)	.250	(6.4)	.405	(10.3)	.453	(11.5)	Red	WT440/5452
30	.312	(7.9)	.312	(7.9)	.365	(9.3)	.250	(6.4)	.425	(10.8)	.473	(12.0)	Tin	WT440/5454
31	.312	(7.9)	.375	(9.5)	.406	(10.3)	.250	(6.4)	.500	(12.7)	.560	(14.2)	Green	WT440/5457
32	.600	(15.2)	.430	(10.9)	.500	(12.7)	.440	(11.2)	.590	(15.0)	.670	(17.0)	Red	GS590
33	.600	(15.2)	.550	(14.0)	.620	(15.7)	.440	(11.2)	.710	(18.0)	.790	(20.1)	Blue	GS710
34	.600	(15.2)	.670	(17.0)	.750	(19.1)	.440	(11.2)	.840	(21.3)	.920	(23.4)	Gray	GS840
35	.600	(15.2)	.810	(20.6)	.880	(22.4)	.440	(11.2)	1.010	(25.7)	1.090	(27.7)	Brown	GS1010
36	.600	(15.2)	.920	(23.4)	1.000	(25.4)	.440	(11.2)	1.130	(28.7)	1.210	(30.7)	Green	GS1130
38	.600	(15.2)	1.040	(26.4)	1.120	(28.4)	.440	(11.2)	1.250	(31.8)	1.330	(33.8)	Pink	GS1250
39	.600	(15.2)	1.122	(28.5)	1.192	(30.3)	.440	(11.2)	1.332	(33.8)	1.412	(35.9)	Orange	GS1332
40	.600	(15.2)	1.224	(31.1)	1.294	(32.9)	.440	(11.2)	1.440	(36.6)	1.520	(38.6)	Purple	GS1440
41	.600	(15.2)	1.353	(34.4)	1.423	(36.1)	.440	(11.2)	1.562	(39.7)	1.643	(41.7)	Yellow	GS1563
42	.600	(15.2)	1.425	(36.2)	1.545	(39.2)	.440	(11.2)	1.670	(42.4)	1.750	(44.5)	Red	GS1670
43	.600	(15.2)	1.550	(39.4)	1.670	(42.4)	.440	(11.2)	1.795	(45.6)	1.875	(47.6)	Blue	GS1795
44	.600	(15.2)	1.675	(42.5)	1.795	(45.6)	.440	(11.2)	1.920	(48.8)	2.000	(50.8)	Gray	GS1920
45	.600	(15.2)	1.800	(45.7)	1.920	(48.8)	.440	(11.2)	2.045	(51.9)	2.125	(54.0)	Brown	GS2045
46	.600	(15.2)	1.925	(48.9)	2.045	(51.9)	.440	(11.2)	2.170	(55.1)	2.250	(57.2)	Green	GS2170
47	.600	(15.2)	2.050	(52.1)	2.170	(55.1)	.440	(11.2)	2.295	(58.3)	2.375	(60.3)	Pink	GS2295
48	.600	(15.2)	2.175	(55.2)	2.295	(58.3)	.440	(11.2)	2.420	(61.5)	2.500	(63.5)	Orange	GS2420
49	.600	(15.2)	2.300	(58.4)	2.420	(61.5)	.440	(11.2)	2.545	(64.6)	2.625	(66.7)	Purple	GS2545
50	.600	(15.2)	2.425	(61.6)	2.545	(64.6)	.440	(11.2)	2.670	(67.8)	2.750	(69.9)	Yellow	GS2670
51	.600	(15.2)	2.530	(64.3)	2.670	(67.8)	.440	(11.2)	2.795	(71.0)	2.875	(73.0)	Red	GS2795
52	.600	(15.2)	2.655	(67.4)	2.795	(71.0)	.440	(11.2)	2.920	(74.2)	3.000	(76.2)	Blue	GS2920
53	.600	(15.2)	2.780	(70.6)	2.920	(74.2)	.440	(11.2)	3.045	(77.3)	3.125	(79.4)	Gray	GS3045
54	.600	(15.2)	2.905	(73.8)	3.045	(77.3)	.440	(11.2)	3.170	(80.5)	3.250	(82.6)	Brown	GS3170

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440-001
EMI/RFI Crimp Ring Adapter
Direct Coupling - Split Shell

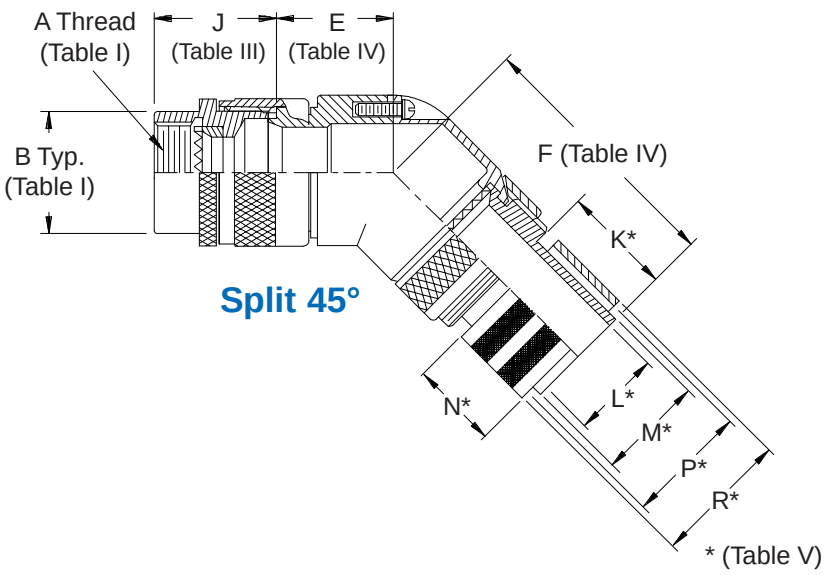
CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

*** Conn. Desig. B See Note 4**

DIRECT COUPLING

440 F D 001 M 16 32

- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)



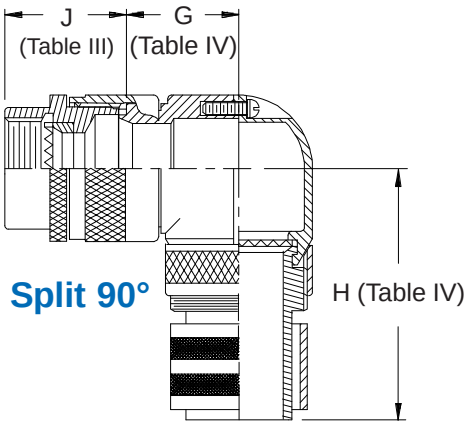


TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. For proper installation of crimp ring, use Thomas & Betts (or equivalent) installation dies listed (Table V) for each dash no.
2. Metric dimensions (mm) are indicated in parentheses.
3. Dimensions shown are not intended for inspection criteria.
4. When using Connector Designator B refer to pages 18 and 19 for part number development.

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TABLE IV: ELBOW DIMENSIONS

Dash No.'s (Table V)	E Max		F Max		G Max		H Max	
06-23	.440	(11.2)	1.402	(35.6)	.680	(17.3)	1.342	(34.1)
26-30	.500	(12.7)	1.462	(37.1)	.750	(19.1)	1.402	(35.6)
31-32	.560	(14.2)	1.820	(46.2)	.810	(20.6)	1.760	(44.7)
33	.620	(15.7)	1.850	(47.0)	.870	(22.1)	1.790	(45.5)
34	.680	(17.3)	1.950	(49.5)	.930	(23.6)	1.890	(48.0)
35	.820	(20.8)	2.070	(52.6)	1.060	(26.9)	2.010	(51.1)
36	.880	(22.4)	2.130	(54.1)	1.120	(28.4)	2.070	(52.6)
38-39	.940	(23.9)	2.190	(55.6)	1.180	(30.0)	2.130	(54.1)

TABLE V: CABLE ENTRY

Dash No.	K Nom		L Nom		M Nom		N Nom		P Nom		R Nom		Color Code (Ref.)	Inst. Tool Die No. (Note 2)
06	.312	(7.9)	.090	(2.3)	.113	(2.9)	.250	(6.4)	.156	(4.0)	.194	(4.9)	Yellow	WT402
10	.312	(7.9)	.124	(3.1)	.145	(3.7)	.250	(6.4)	.187	(4.7)	.227	(5.8)	Orange	WT406
13	.312	(7.9)	.149	(3.8)	.179	(4.5)	.250	(6.4)	.225	(5.7)	.256	(6.5)	Purple	WT409
16	.312	(7.9)	.175	(4.4)	.215	(5.5)	.250	(6.4)	.261	(6.6)	.297	(7.5)	Yellow	WT411
20	.312	(7.9)	.219	(5.6)	.250	(6.4)	.250	(6.4)	.297	(7.5)	.335	(8.5)	Green	WT414
23	.312	(7.9)	.250	(6.4)	.281	(7.1)	.250	(6.4)	.327	(8.3)	.372	(9.4)	Tin	WT416
26	.312	(7.9)	.275	(7.0)	.306	(7.8)	.250	(6.4)	.375	(9.5)	.406	(10.3)	Yellow	WT440/5451
29	.312	(7.9)	.297	(7.5)	.335	(8.5)	.250	(6.4)	.405	(10.3)	.453	(11.5)	Red	WT440/5452
30	.312	(7.9)	.312	(7.9)	.365	(9.3)	.250	(6.4)	.425	(10.8)	.473	(12.0)	Tin	WT440/5454
31	.312	(7.9)	.375	(9.5)	.406	(10.3)	.250	(6.4)	.500	(12.7)	.560	(14.2)	Green	WT440/5457
32	.600	(15.2)	.430	(10.9)	.500	(12.7)	.440	(11.2)	.590	(15.0)	.670	(17.0)	Red	GS590
33	.600	(15.2)	.550	(14.0)	.620	(15.7)	.440	(11.2)	.710	(18.0)	.790	(20.1)	Blue	GS710
34	.600	(15.2)	.670	(17.0)	.750	(19.1)	.440	(11.2)	.840	(21.3)	.920	(23.4)	Gray	GS840
35	.600	(15.2)	.810	(20.6)	.880	(22.4)	.440	(11.2)	1.010	(25.7)	1.090	(27.7)	Brown	GS1010
36	.600	(15.2)	.920	(23.4)	1.000	(25.4)	.440	(11.2)	1.130	(28.7)	1.210	(30.7)	Green	GS1130
38	.600	(15.2)	1.040	(26.4)	1.120	(28.4)	.440	(11.2)	1.250	(31.8)	1.330	(33.8)	Pink	GS1250
39	.600	(15.2)	1.122	(28.5)	1.192	(30.3)	.440	(11.2)	1.332	(33.8)	1.412	(35.9)	Orange	GS1332
40	.600	(15.2)	1.224	(31.1)	1.294	(32.9)	.440	(11.2)	1.440	(36.6)	1.520	(38.6)	Purple	GS1440
41	.600	(15.2)	1.353	(34.4)	1.423	(36.1)	.440	(11.2)	1.562	(39.7)	1.643	(41.7)	Yellow	GS1563
42	.600	(15.2)	1.425	(36.2)	1.545	(39.2)	.440	(11.2)	1.670	(42.4)	1.750	(44.5)	Red	GS1670
43	.600	(15.2)	1.550	(39.4)	1.670	(42.4)	.440	(11.2)	1.795	(45.6)	1.875	(47.6)	Blue	GS1795
44	.600	(15.2)	1.675	(42.5)	1.795	(45.6)	.440	(11.2)	1.920	(48.8)	2.000	(50.8)	Gray	GS1920
45	.600	(15.2)	1.800	(45.7)	1.920	(48.8)	.440	(11.2)	2.045	(51.9)	2.125	(54.0)	Brown	GS2045
46	.600	(15.2)	1.925	(48.9)	2.045	(51.9)	.440	(11.2)	2.170	(55.1)	2.250	(57.2)	Green	GS2170
47	.600	(15.2)	2.050	(52.1)	2.170	(55.1)	.440	(11.2)	2.295	(58.3)	2.375	(60.3)	Pink	GS2295
48	.600	(15.2)	2.175	(55.2)	2.295	(58.3)	.440	(11.2)	2.420	(61.5)	2.500	(63.5)	Orange	GS2420
49	.600	(15.2)	2.300	(58.4)	2.420	(61.5)	.440	(11.2)	2.545	(64.6)	2.625	(66.7)	Purple	GS2545
50	.600	(15.2)	2.425	(61.6)	2.545	(64.6)	.440	(11.2)	2.670	(67.8)	2.750	(69.9)	Yellow	GS2670
51	.600	(15.2)	2.530	(64.3)	2.670	(67.8)	.440	(11.2)	2.795	(71.0)	2.875	(73.0)	Red	GS2795
52	.600	(15.2)	2.655	(67.4)	2.795	(71.0)	.440	(11.2)	2.920	(74.2)	3.000	(76.2)	Blue	GS2920
53	.600	(15.2)	2.780	(70.6)	2.920	(74.2)	.440	(11.2)	3.045	(77.3)	3.125	(79.4)	Gray	GS3045
54	.600	(15.2)	2.905	(73.8)	3.045	(77.3)	.440	(11.2)	3.170	(80.5)	3.250	(82.6)	Brown	GS3170

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440-030
EMI/RFI Banding and Shrink Boot Adapter
Rotatable Coupling - Standard Profile

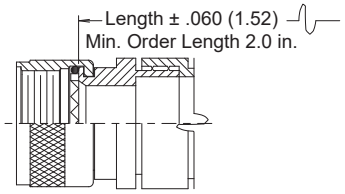
CONNECTOR DESIGNATORS

A-F-H-L

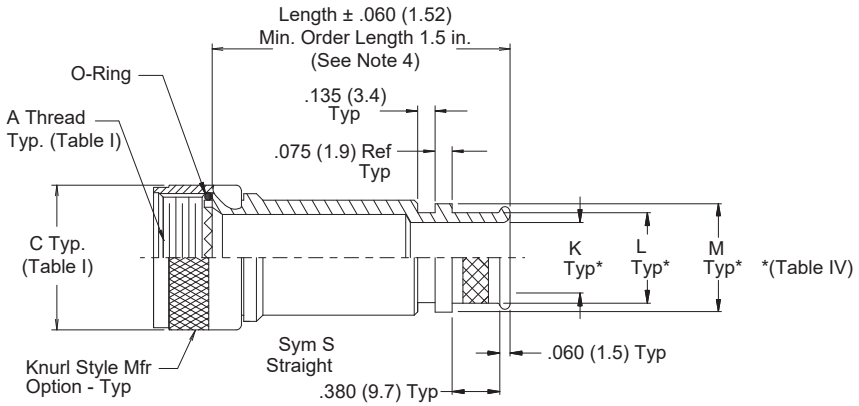
ROTATABLE COUPLING

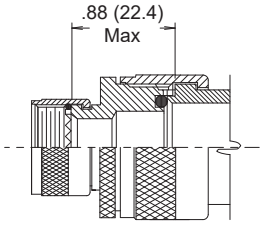
440 F S 030 M 20 12-8 B P T S

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)
- Shrink Boot (Table IV - Omit for none)
- Slot Option (Omit if not required)

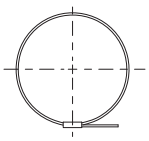


STYLE 2
STRAIGHT
(See Note 1)

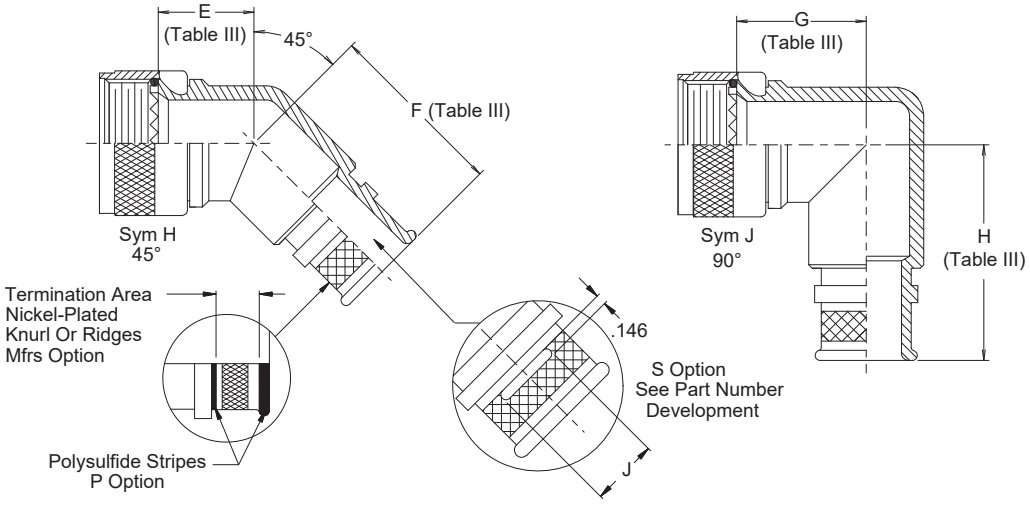




STYLE 2
45° & 90°
(See Note 1)



Band Option
(K Option Shown
See Note 6)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L	H	E * Max		F Max		G * Max		H * Max	
08	09	.531	(13.5)	.940	(23.9)	.639	(16.2)	1.110	(28.2)
10	11	.594	(15.1)	1.000	(25.4)	.664	(16.9)	1.140	(29.0)
12	13	.618	(15.7)	1.050	(26.7)	.688	(17.5)	1.160	(29.5)
14	15	.656	(16.7)	1.090	(27.7)	.705	(17.9)	1.190	(30.2)
16	17	.688	(17.5)	1.150	(29.2)	.732	(18.6)	1.210	(30.7)
18	19	.748	(19.0)	1.190	(30.2)	.803	(20.4)	1.221	(31.0)
20	21	.773	(19.6)	1.250	(31.8)	1.031	(26.2)	1.281	(32.5)
22	23	.800	(20.3)	1.320	(33.5)	1.156	(29.4)	1.351	(34.3)
24	25	.823	(20.9)	1.380	(35.1)	1.219	(31.0)	1.410	(35.8)
28		1.041	(26.4)	1.500	(38.1)	1.281	(32.5)	1.531	(38.9)
32		1.092	(27.7)	1.620	(41.1)	1.593	(40.5)	1.651	(41.9)
36		1.136	(28.9)	1.750	(44.5)	1.718	(43.6)	1.781	(45.2)

*These maximum dimensions are increased by .187 (4.7) when parts are fabricated from stainless steel, and connector designator is “S”.

TABLE IV: CABLE ENTRY

Dash No.	K		L		M		Shrink Boot
01	.125	(3.2)	.250	(6.4)	.312	(7.9)	770-003S111
31	.188	(4.8)	.312	(7.9)	.374	(9.5)	770-003S111
02	.250	(6.4)	.375	(9.5)	.437	(11.1)	770-003S112
32	.312	(7.9)	.438	(11.1)	.500	(12.7)	770-003S112
03	.375	(9.5)	.500	(12.7)	.562	(14.3)	770-001S103
33	.438	(11.1)	.562	(14.3)	.624	(15.8)	770-001S104
04	.500	(12.7)	.625	(15.9)	.687	(17.4)	770-001S104
34	.562	(14.3)	.688	(17.5)	.750	(19.1)	770-001S104
05	.625	(15.9)	.750	(19.1)	.812	(20.6)	770-001S104
35	.688	(17.5)	.812	(20.6)	.874	(22.2)	770-001S104
06	.750	(19.1)	.875	(22.2)	.937	(23.8)	770-001S105
36	.812	(20.6)	.938	(23.8)	1.000	(25.4)	770-001S105
07	.875	(22.2)	1.000	(25.4)	1.062	(27.0)	770-001S105
37	.938	(23.8)	1.062	(27.0)	1.124	(28.5)	770-001S105
08	1.000	(25.4)	1.125	(28.6)	1.187	(30.1)	770-001S106
38	1.062	(27.0)	1.188	(30.2)	1.250	(31.8)	770-001S106
09	1.125	(28.6)	1.250	(31.8)	1.312	(33.3)	770-001S107
10	1.250	(31.8)	1.375	(34.9)	1.437	(36.5)	770-001S107
11	1.375	(34.9)	1.500	(38.1)	1.562	(39.7)	770-001S107
12	1.500	(38.1)	1.625	(41.3)	1.687	(42.8)	770-001S107
13	1.625	(41.3)	1.750	(44.5)	1.812	(46.0)	770-001S108
14	1.750	(44.5)	1.875	(47.6)	1.937	(49.2)	770-001S108
15	1.875	(47.6)	2.000	(50.8)	2.062	(52.4)	770-001S109
16	2.000	(50.8)	2.125	(54.0)	2.187	(55.5)	770-001S109

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Interface O-Ring not supplied with Connector Designator A.
4. Consult factory for shorter lengths on straight backshells.
5. See page 40 Shrink Boot Reference Information.
6. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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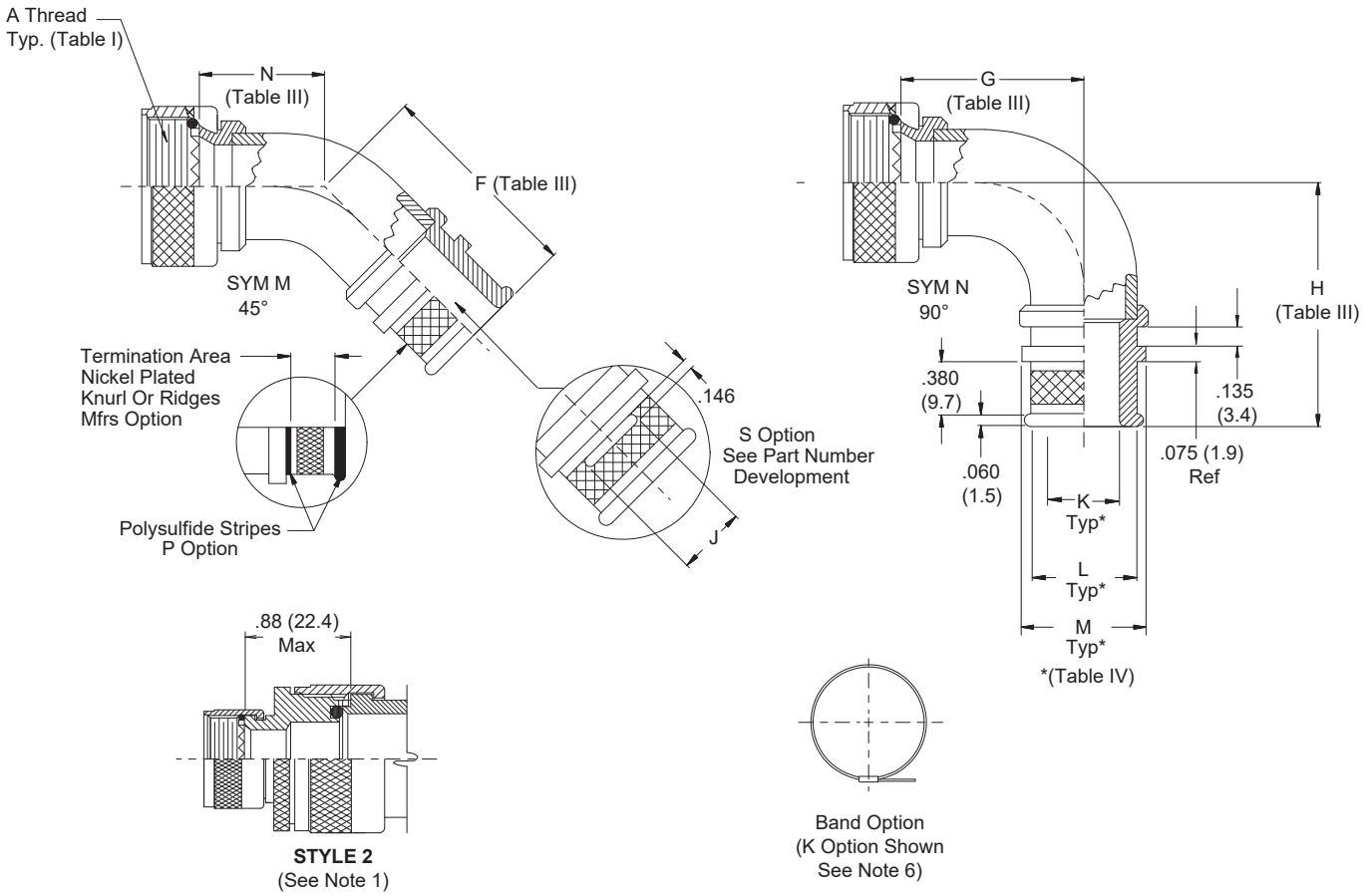
Glenair®

440-030
EMI/RFI Banding and Shrink Boot Adapter
Rotatable Coupling - Full Radius Profile

CONNECTOR DESIGNATORS
A-F-H-L
ROTATABLE COUPLING

440 F N 030 M 20 12-B P T S

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See 440-12 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)
- Shrink Boot (Table IV - Omit for none)
- Slot Option
  (Omit if not required)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L	H	E Max	F Max	G Max	H Max
08	09	.812 (20.6)	1.017 (25.8)	1.125 (28.6)	1.335 (33.9)
10	11	.875 (22.2)	1.071 (27.2)	1.250 (31.8)	1.460 (37.1)
12	13	.938 (23.8)	1.121 (28.5)	1.375 (34.9)	1.585 (40.3)
14	15	1.000 (25.4)	1.175 (29.8)	1.500 (38.1)	1.710 (43.4)
16	17	1.062 (27.0)	1.224 (31.1)	1.625 (41.3)	1.835 (46.6)
18	19	1.094 (27.8)	1.274 (32.4)	1.750 (44.5)	1.960 (49.8)
20	21	1.156 (29.4)	1.328 (33.7)	1.875 (47.6)	2.085 (53.0)
22	23	1.188 (30.2)	1.382 (35.1)	2.000 (50.8)	2.210 (56.1)
24	25	1.250 (31.8)	1.431 (36.3)	2.125 (54.0)	2.335 (59.3)

TABLE IV: CABLE ENTRY

Dash No.	K	L	M	Shrink Boot
01	.125 (3.2)	.250 (6.4)	.312 (7.9)	770-003S111
31	.188 (4.8)	.312 (7.9)	.374 (9.5)	770-003S111
02	.250 (6.4)	.375 (9.5)	.437 (11.1)	770-003S112
32	.312 (7.9)	.438 (11.1)	.500 (12.7)	770-003S112
03	.375 (9.5)	.500 (12.7)	.562 (14.3)	770-003S112
33	.438 (11.1)	.562 (14.3)	.624 (15.8)	770-001S104
04	.500 (12.7)	.625 (15.9)	.687 (17.4)	770-001S104
34	.562 (14.3)	.688 (17.5)	.750 (19.1)	770-001S104
05	.625 (15.9)	.750 (19.1)	.812 (20.6)	770-001S104
35	.688 (17.5)	.812 (20.6)	.874 (22.2)	770-001S104
06	.750 (19.1)	.875 (22.2)	.937 (23.8)	770-001S105
36	.812 (20.6)	.938 (23.8)	1.000 (25.4)	770-001S105
07	.875 (22.2)	1.000 (25.4)	1.062 (27.0)	770-001S105
37	.938 (23.8)	1.062 (27.0)	1.124 (28.5)	770-001S105
08	1.000 (25.4)	1.125 (28.6)	1.187 (30.1)	770-001S106
38	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)	770-001S106
09	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)	770-001S107
10	1.250 (31.8)	1.375 (34.9)	1.437 (36.5)	770-001S107
11	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)	770-001S107
12	1.500 (38.1)	1.625 (41.3)	1.687 (42.8)	770-001S107
13	1.625 (41.3)	1.750 (44.5)	1.812 (46.0)	770-001S108
14	1.750 (44.5)	1.875 (47.6)	1.937 (49.2)	770-001S108
15	1.875 (47.6)	2.000 (50.8)	2.062 (52.4)	770-001S109
16	2.000 (50.8)	2.125 (54.0)	2.187 (55.5)	770-001S109

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Interface O-Ring not supplied with Connector Designator A.
4. Consult factory for shorter lengths on straight backshells.
5. See page 40 for Shrink Boot Reference Information.
6. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-030
EMI/RFI Banding and Shrink Boot Adapter
Rotatable Coupling - Split Shell

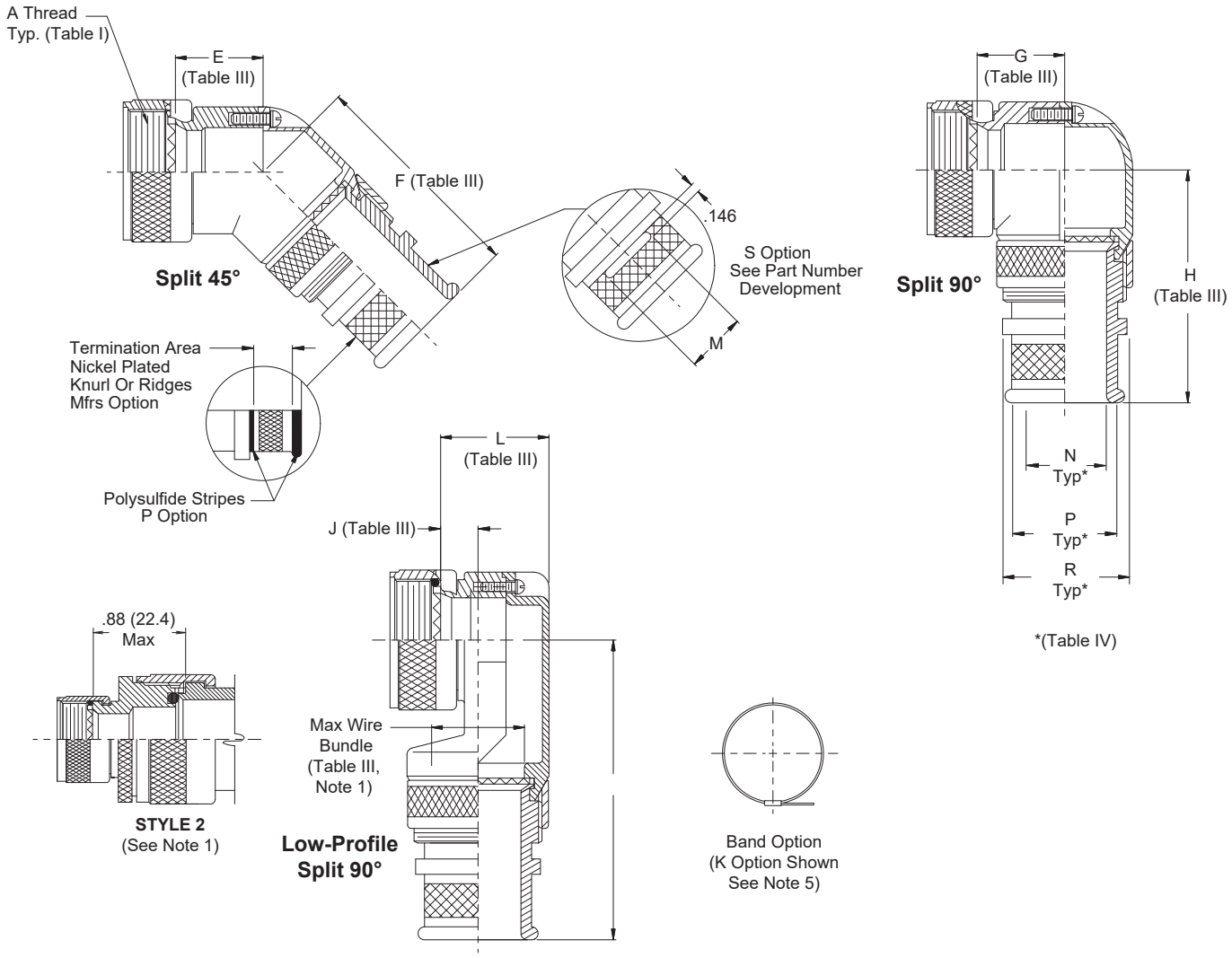
CONNECTOR DESIGNATORS

A-F-H-L-S

ROTATABLE COUPLING

440 F D 030 M 20 12 - B P T S

- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)
- Shrink Boot (Table IV - Omit for none)
- Slot Option (Omit if not required)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max	F Max	G Max	H Max	J Ref	K Max	L Max	Function C Max Wire Bundle
08/09	.440 (11.2)	1.635 (41.5)	.680 (17.3)	1.575 (40.0)	.340 (8.6)	1.915 (48.6)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	1.695 (43.1)	.750 (19.1)	1.635 (41.5)	.270 (6.9)	2.075 (52.7)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	1.765 (44.8)	.810 (20.6)	1.705 (43.3)	.270 (6.9)	2.075 (52.7)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	1.795 (45.6)	.870 (22.1)	1.735 (44.1)	.280 (7.1)	2.145 (54.5)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	1.895 (48.1)	.930 (23.6)	1.835 (46.6)	.420 (10.7)	2.195 (55.8)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	1.955 (49.7)	1.000 (25.4)	1.895 (48.1)	.640 (16.3)	2.225 (56.5)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	2.015 (51.2)	1.060 (26.9)	1.955 (49.7)	.640 (16.3)	2.225 (56.5)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	2.075 (52.7)	1.120 (28.4)	2.015 (51.2)	.610 (15.5)	2.375 (60.3)	1.311 (33.3)	.875 (22.2)
24/25	.940 (23.9)	2.135 (54.2)	1.180 (30.0)	2.075 (52.7)	.680 (17.3)	2.500 (63.5)	1.431 (36.3)	1.000 (25.4)

TABLE IV: CABLE ENTRY

Dash No.	M	N	P	Shrink Boot
01	.125 (3.2)	.250 (6.4)	.312 (7.9)	770-003S111
31	.188 (4.8)	.312 (7.9)	.374 (9.5)	770-003S111
02	.250 (6.4)	.375 (9.5)	.437 (11.1)	770-003S112
32	.312 (7.9)	.438 (11.1)	.500 (12.7)	770-003S112
03	.375 (9.5)	.500 (12.7)	.562 (14.3)	770-003S112
33	.438 (11.1)	.562 (14.3)	.624 (15.8)	770-001S104
04	.500 (12.7)	.625 (15.9)	.687 (17.4)	770-001S104
34	.562 (14.3)	.688 (17.5)	.750 (19.1)	770-001S104
05	.625 (15.9)	.750 (19.1)	.812 (20.6)	770-001S104
35	.688 (17.5)	.812 (20.6)	.874 (22.2)	770-001S104
06	.750 (19.1)	.875 (22.2)	.937 (23.8)	770-001S105
36	.812 (20.6)	.938 (23.8)	1.000 (25.4)	770-001S105
07	.875 (22.2)	1.000 (25.4)	1.062 (27.0)	770-001S105
37	.938 (23.8)	1.062 (27.0)	1.124 (28.5)	770-001S105
08	1.000 (25.4)	1.125 (28.6)	1.187 (30.1)	770-001S106
38	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)	770-001S106
09	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)	770-001S107
10	1.250 (31.8)	1.375 (34.9)	1.437 (36.5)	770-001S107
11	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)	770-001S107
12	1.500 (38.1)	1.625 (41.3)	1.687 (42.8)	770-001S107
13	1.625 (41.3)	1.750 (44.5)	1.812 (46.0)	770-001S108
14	1.750 (44.5)	1.875 (47.6)	1.937 (49.2)	770-001S108
15	1.875 (47.6)	2.000 (50.8)	2.062 (52.4)	770-001S109
16	2.000 (50.8)	2.125 (54.0)	2.187 (55.5)	770-001S109

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. See page 40 for Shrink Boot Reference Information.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.
5. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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440-031
EMI/RFI Banding and Shrink Boot Adapter
Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

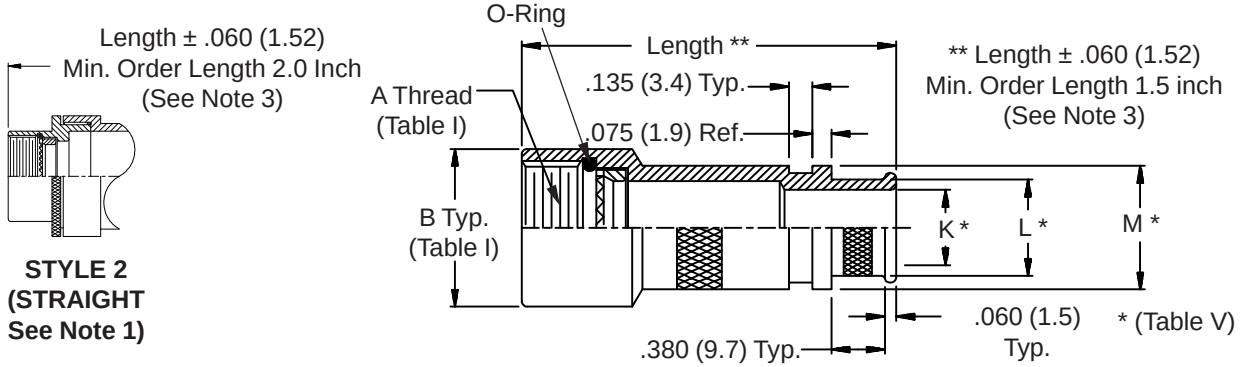
G-H-J-K-L-S

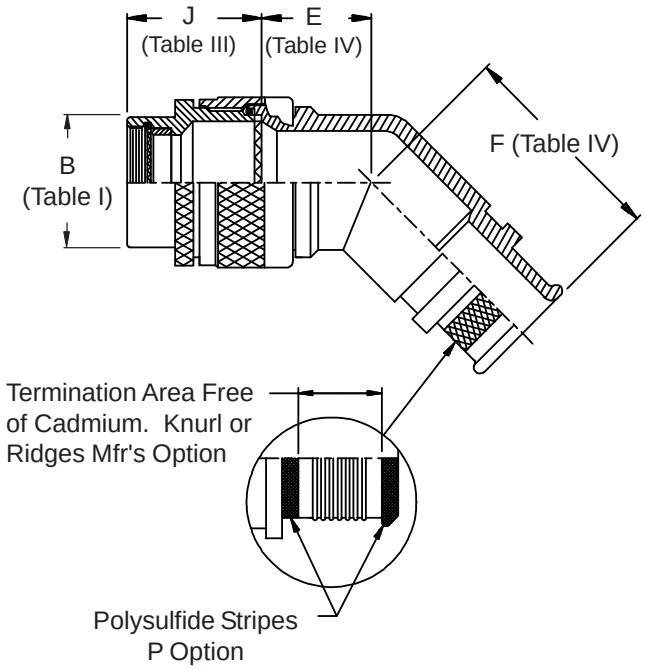
*** Conn. Desig. B See Note 5**

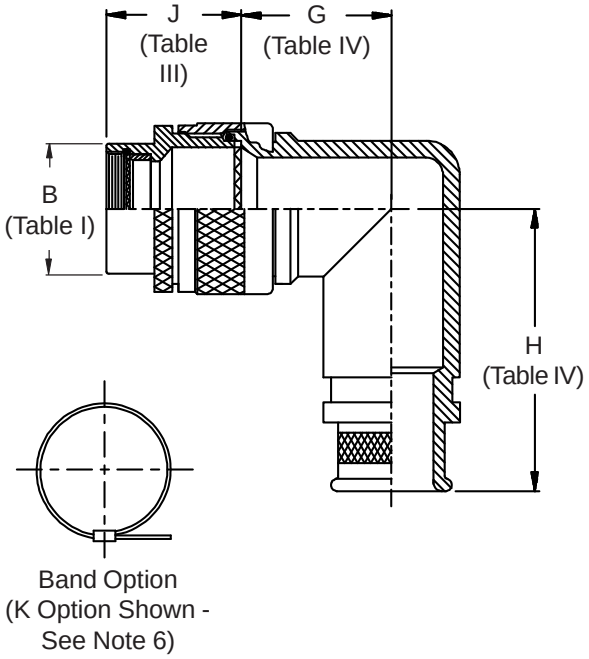
DIRECT COUPLING

440 F S 031 M 20 12-8 B P T

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)
- Shrink Boot (Table V - Omit for none)







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440-031
EMI/RFI Banding and Shrink Boot Adapter
Direct Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Dash No.(s)	E Max		F Max		G Max		H Max	
01	.625	(15.9)	.940	(23.9)	.732	(18.6)	1.078	(27.4)
02 & 31	.625	(15.9)	.940	(23.9)	.732	(18.6)	1.078	(27.4)
03 & 32	.688	(17.5)	1.000	(25.4)	.757	(19.2)	1.108	(28.1)
04 & 33	.711	(18.1)	1.050	(26.7)	.781	(19.8)	1.128	(28.7)
05 & 34	.781	(19.8)	1.150	(29.2)	.825	(21.0)	1.178	(29.9)
06 & 35	.841	(21.4)	1.188	(30.2)	.896	(22.8)	1.190	(30.2)
07 & 36	.866	(22.0)	1.208	(30.7)	1.093	(27.8)	1.250	(31.8)
08 & 37	.893	(22.7)	1.248	(31.7)	1.250	(31.8)	1.320	(33.5)
09 & 38	.916	(23.3)	1.278	(32.5)	1.312	(33.3)	1.380	(35.1)
10	1.134	(28.8)	1.448	(36.8)	1.375	(34.9)	1.500	(38.1)
11	1.134	(28.8)	1.448	(36.8)	1.375	(34.9)	1.500	(38.1)
12	1.185	(30.1)	1.488	(37.8)	1.687	(42.8)	1.620	(41.1)
13	1.185	(30.1)	1.488	(37.8)	1.687	(42.8)	1.620	(41.1)
14	1.225	(31.1)	1.538	(39.1)	1.812	(46.0)	1.750	(44.5)
15	1.225	(31.1)	1.538	(39.1)	1.812	(46.0)	1.750	(44.5)

TABLE V: CABLE ENTRY

Dash No.	K		L		M		Shrink Boot
01	.125	(3.2)	.250	(6.4)	.312	(7.9)	770-003S111
31	.188	(4.8)	.312	(7.9)	.374	(9.5)	770-003S111
02	.250	(6.4)	.375	(9.5)	.437	(11.1)	770-003S112
32	.312	(7.9)	.438	(11.1)	.500	(12.7)	770-003S112
03	.375	(9.5)	.500	(12.7)	.562	(14.3)	770-001S103
33	.438	(11.1)	.562	(14.3)	.624	(15.8)	770-001S104
04	.500	(12.7)	.625	(15.9)	.687	(17.4)	770-001S104
34	.562	(14.3)	.688	(17.5)	.750	(19.1)	770-001S104
05	.625	(15.9)	.750	(19.1)	.812	(20.6)	770-001S104
35	.688	(17.5)	.812	(20.6)	.874	(22.2)	770-001S104
06	.750	(19.1)	.875	(22.2)	.937	(23.8)	770-001S105
36	.812	(20.6)	.938	(23.8)	1.000	(25.4)	770-001S105
07	.875	(22.2)	1.000	(25.4)	1.062	(27.0)	770-001S105
37	.938	(23.8)	1.062	(27.0)	1.124	(28.5)	770-001S105
08	1.000	(25.4)	1.125	(28.6)	1.187	(30.1)	770-001S106
38	1.062	(27.0)	1.188	(30.2)	1.250	(31.8)	770-001S106
09	1.125	(28.6)	1.250	(31.8)	1.312	(33.3)	770-001S107
10	1.250	(31.8)	1.375	(34.9)	1.437	(36.5)	770-001S107
11	1.375	(34.9)	1.500	(38.1)	1.562	(39.7)	770-001S107
12	1.500	(38.1)	1.625	(41.3)	1.687	(42.8)	770-001S107
13	1.625	(41.3)	1.750	(44.5)	1.812	(46.0)	770-001S108
14	1.750	(44.5)	1.875	(47.6)	1.937	(49.2)	770-001S108
15	1.875	(47.6)	2.000	(50.8)	2.062	(52.4)	770-001S109
16	2.000	(50.8)	2.125	(54.0)	2.187	(55.5)	770-001S109

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. See page 40 for Shrink Boot Reference Information.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.
6. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-031
EMI/RFI Banding and Shrink Boot Adapter
Direct Coupling - Split Shell

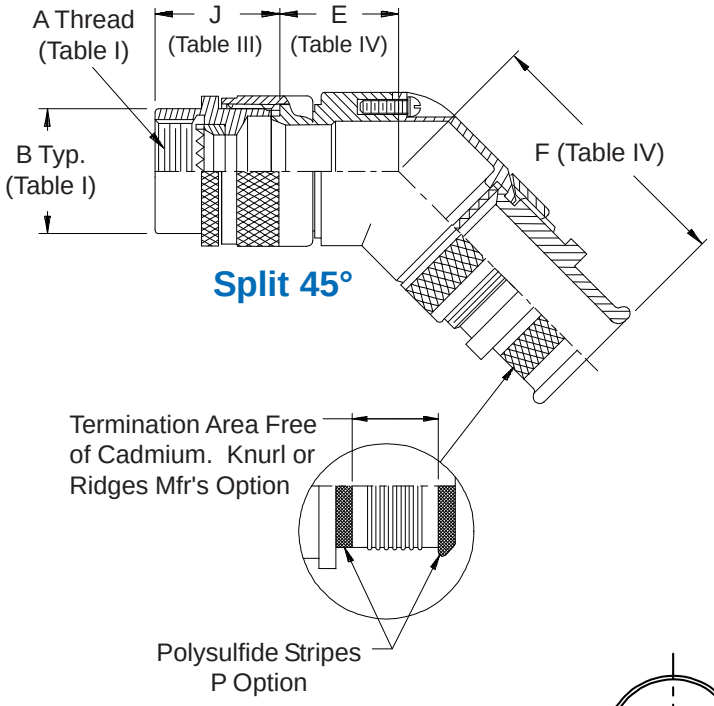
CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

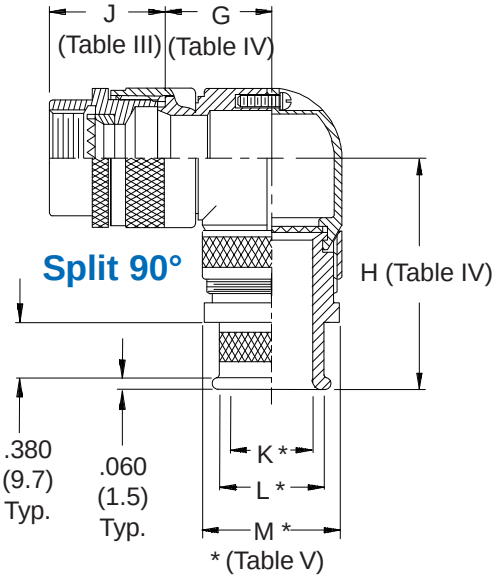
*** Conn. Desig. B See Note 3**

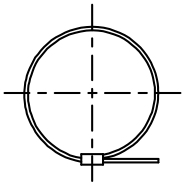
DIRECT COUPLING

440 F D 031 M 20 12-B P T

- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)
- Shrink Boot (Table V - Omit for none)







Band Option
(K Option Shown -
See Note 4)

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440-031
EMI/RFI Banding and Shrink Boot Adapter
Direct Coupling - Split Shell

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Dash No.	E Max	F Max	G Max	H Max
01	.440 (11.2)	1.635 (41.5)	.680 (17.3)	1.575 (40.0)
02	.440 (11.2)	1.635 (41.5)	.680 (17.3)	1.575 (40.0)
03	.440 (11.2)	1.635 (41.5)	.680 (17.3)	1.575 (40.0)
04	.440 (11.2)	1.635 (41.5)	.680 (17.3)	1.575 (40.0)
05	.500 (12.7)	1.695 (43.1)	.750 (19.1)	1.635 (41.5)
06	.500 (12.7)	1.695 (43.1)	.750 (19.1)	1.635 (41.5)
07	.560 (14.2)	1.765 (44.8)	.810 (20.6)	1.705 (43.3)
08	.560 (14.2)	1.765 (44.8)	.810 (20.6)	1.705 (43.3)
09	.620 (15.7)	1.795 (45.6)	.870 (22.1)	1.735 (44.1)
10	.680 (17.3)	1.895 (48.1)	.930 (23.6)	1.835 (46.6)
11	.680 (17.3)	1.895 (48.1)	.930 (23.6)	1.835 (46.6)
12	.750 (19.1)	1.955 (49.7)	1.000 (25.4)	1.895 (48.1)
13	.820 (20.8)	2.015 (51.2)	1.060 (26.9)	1.955 (49.7)
14	.820 (20.8)	2.015 (51.2)	1.060 (26.9)	1.955 (49.7)
15	.880 (22.4)	2.075 (52.7)	1.120 (28.4)	2.015 (51.2)
16	.880 (22.4)	2.075 (52.7)	1.120 (28.4)	2.015 (51.2)

TABLE V: CABLE ENTRY

Dash No.	K	L	M	Shrink Boot
01	.125 (3.2)	.250 (6.4)	.312 (7.9)	770-003S111
31	.188 (4.8)	.312 (7.9)	.374 (9.5)	770-003S111
02	.250 (6.4)	.375 (9.5)	.437 (11.1)	770-003S112
32	.312 (7.9)	.438 (11.1)	.500 (12.7)	770-003S112
03	.375 (9.5)	.500 (12.7)	.562 (14.3)	770-001S103
33	.438 (11.1)	.562 (14.3)	.624 (15.8)	770-001S104
04	.500 (12.7)	.625 (15.9)	.687 (17.4)	770-001S104
34	.562 (14.3)	.688 (17.5)	.750 (19.1)	770-001S104
05	.625 (15.9)	.750 (19.1)	.812 (20.6)	770-001S104
35	.688 (17.5)	.812 (20.6)	.874 (22.2)	770-001S104
06	.750 (19.1)	.875 (22.2)	.937 (23.8)	770-001S105
36	.812 (20.6)	.938 (23.8)	1.000 (25.4)	770-001S105
07	.875 (22.2)	1.000 (25.4)	1.062 (27.0)	770-001S105
37	.938 (23.8)	1.062 (27.0)	1.124 (28.5)	770-001S105
08	1.000 (25.4)	1.125 (28.6)	1.187 (30.1)	770-001S106
38	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)	770-001S106
09	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)	770-001S107
10	1.250 (31.8)	1.375 (34.9)	1.437 (36.5)	770-001S107
11	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)	770-001S107
12	1.500 (38.1)	1.625 (41.3)	1.687 (42.8)	770-001S107
13	1.625 (41.3)	1.750 (44.5)	1.812 (46.0)	770-001S108
14	1.750 (44.5)	1.875 (47.6)	1.937 (49.2)	770-001S108
15	1.875 (47.6)	2.000 (50.8)	2.062 (52.4)	770-001S109
16	2.000 (50.8)	2.125 (54.0)	2.187 (55.5)	770-001S109

*Equivalent boot may be supplied in lieu of stated part number.

1. Metric dimensions (mm) are indicated in parentheses.
2. See page 40 for Shrink Boot Reference Information.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-069
EMI/RFI Banding and Shrink Boot Adapter
Self-Locking Rotatable Coupling - Standard Profile

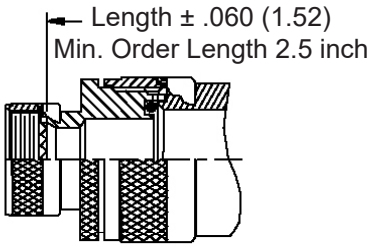
CONNECTOR DESIGNATORS

A-F-H-L

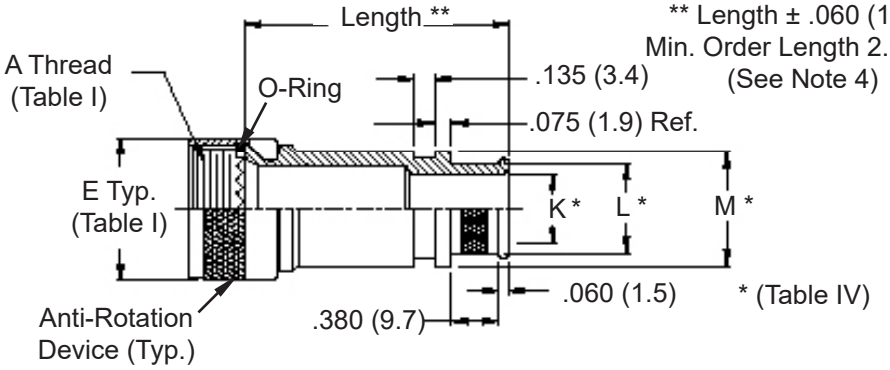
SELF-LOCKING ROTATABLE COUPLING

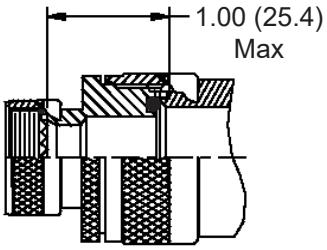
440 F S 069 M 20 12-8 B P T

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)
- Shrink Boot (Table IV - Omit for none)

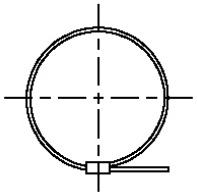


STYLE 2 (STRAIGHT See Note 1)

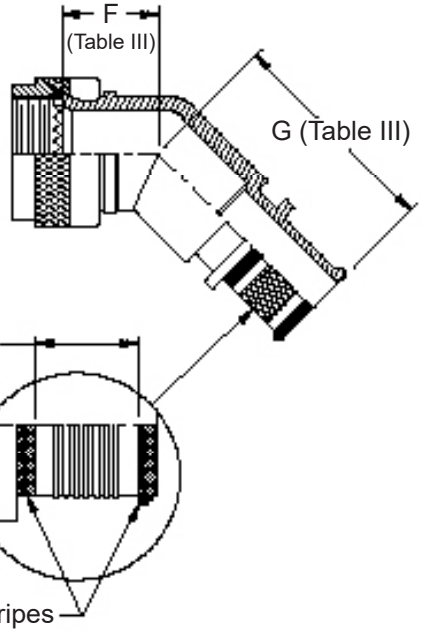


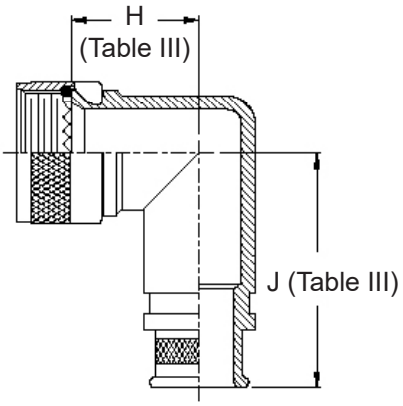


STYLE 2 (45° & 90° See Note 1)



Band Option
(K Option Shown - See Note 6)





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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L	H	F Max		G Max		H Max		J Max	
08	09	.806	(20.5)	1.038	(26.4)	.906	(23.0)	1.146	(29.1)
10	11	.832	(21.1)	1.064	(27.0)	.966	(24.5)	1.210	(30.7)
12	13	.856	(21.7)	1.088	(27.6)	1.026	(26.1)	1.268	(32.2)
14	15	.882	(22.4)	1.114	(28.3)	1.076	(27.3)	1.330	(33.8)
16	17	.908	(23.1)	1.150	(29.2)	1.136	(28.9)	1.392	(35.4)
18	19	.927	(23.5)	1.190	(30.2)	1.176	(29.9)	1.438	(36.5)
20	21	.953	(24.2)	1.250	(31.8)	1.236	(31.4)	1.500	(38.1)
22	23	.979	(24.9)	1.320	(33.5)	1.296	(32.9)	1.562	(39.7)
24	25	1.004	(25.5)	1.380	(35.1)	1.356	(34.4)	1.625	(41.3)
28		1.197	(30.4)	1.500	(38.1)	1.422	(36.1)	1.654	(42.0)
32		1.280	(32.5)	1.620	(41.1)	1.545	(39.2)	1.777	(45.1)
36		1.294	(32.9)	1.750	(44.5)	1.652	(42.0)	1.844	(46.8)
40		1.320	(33.5)	1.870	(47.5)	1.960	(49.8)	2.070	(52.6)

TABLE IV: CABLE ENTRY

Dash No.	K		L		M		Shrink Boot
01	.125	(3.2)	.250	(6.4)	.312	(7.9)	770-003S111
31	.188	(4.8)	.312	(7.9)	.374	(9.5)	770-003S111
02	.250	(6.4)	.375	(9.5)	.437	(11.1)	770-003S112
32	.312	(7.9)	.438	(11.1)	.500	(12.7)	770-003S112
03	.375	(9.5)	.500	(12.7)	.562	(14.3)	770-001S103
33	.438	(11.1)	.562	(14.3)	.624	(15.8)	770-001S104
04	.500	(12.7)	.625	(15.9)	.687	(17.4)	770-001S104
34	.562	(14.3)	.688	(17.5)	.750	(19.1)	770-001S104
05	.625	(15.9)	.750	(19.1)	.812	(20.6)	770-001S104
35	.688	(17.5)	.812	(20.6)	.874	(22.2)	770-001S104
06	.750	(19.1)	.875	(22.2)	.937	(23.8)	770-001S105
36	.812	(20.6)	.938	(23.8)	1.000	(25.4)	770-001S105
07	.875	(22.2)	1.000	(25.4)	1.062	(27.0)	770-001S105
37	.938	(23.8)	1.062	(27.0)	1.124	(28.5)	770-001S105
08	1.000	(25.4)	1.125	(28.6)	1.187	(30.1)	770-001S106
38	1.062	(27.0)	1.188	(30.2)	1.250	(31.8)	770-001S106
09	1.125	(28.6)	1.250	(31.8)	1.312	(33.3)	770-001S107
10	1.250	(31.8)	1.375	(34.9)	1.437	(36.5)	770-001S107
11	1.375	(34.9)	1.500	(38.1)	1.562	(39.7)	770-001S107
12	1.500	(38.1)	1.625	(41.3)	1.687	(42.8)	770-001S107
13	1.625	(41.3)	1.750	(44.5)	1.812	(46.0)	770-001S108
14	1.750	(44.5)	1.875	(47.6)	1.937	(49.2)	770-001S108
15	1.875	(47.6)	2.000	(50.8)	2.062	(52.4)	770-001S109
16	2.000	(50.8)	2.125	(54.0)	2.187	(55.5)	770-001S109

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Interface O-Ring not supplied with Connector Designator A.
4. Consult factory for shorter lengths on straight backshells.
5. See page 40 for Shrink Boot Reference Information.
6. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-069
EMI/RFI Banding and Shrink Boot Adapter
Self-Locking Rotatable Coupling - Full Radius Profile

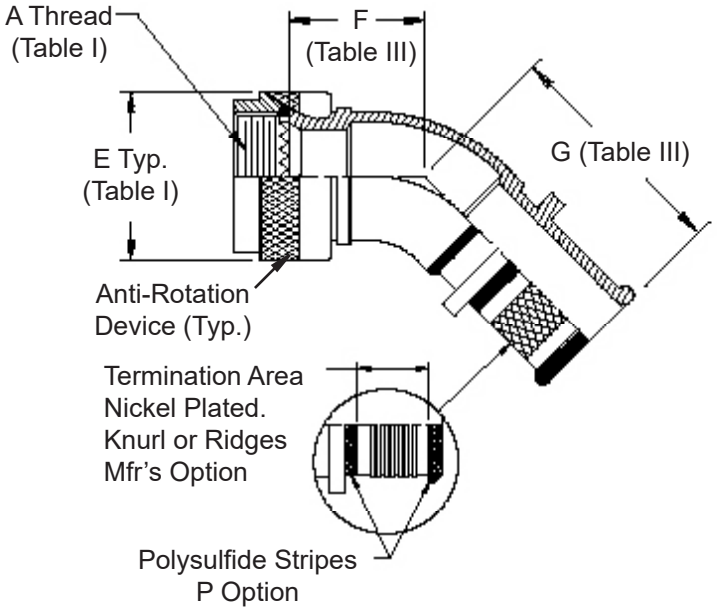
CONNECTOR DESIGNATORS

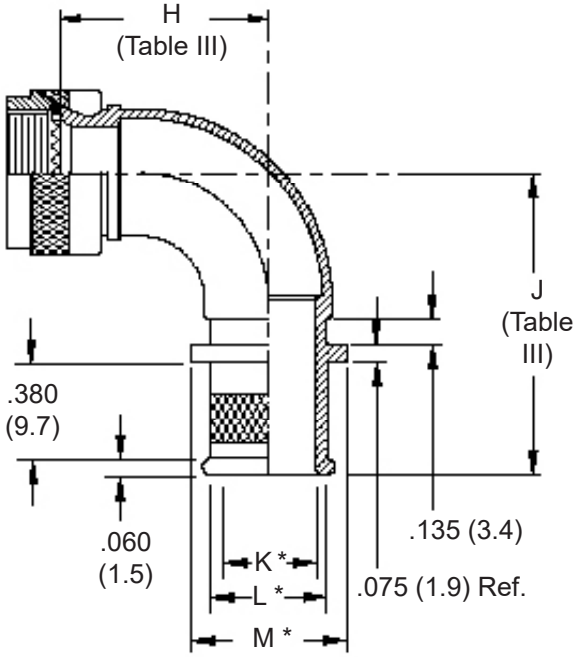
A-F-H-L

SELF-LOCKING ROTATABLE COUPLING

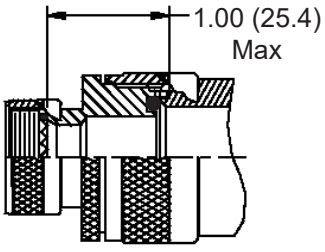
440 F N 069 M 20 12 B P T

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See 440-22 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry(Table IV)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)
- Shrink Boot (Table IV - Omit for none)

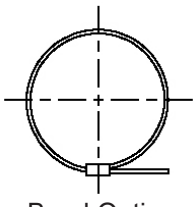




* (Table IV)



STYLE 2
(See Note 1)



Band Option
(K Option Shown - See Note 6)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L	H	F Max	G Max	H Max	J Max
08	09	.968 (24.6)	1.017 (25.8)	1.281 (32.5)	1.335 (33.9)
10	11	1.031 (26.2)	1.071 (27.2)	1.406 (35.7)	1.460 (37.1)
12	13	1.094 (27.8)	1.121 (28.5)	1.531 (38.9)	1.585 (40.3)
14	15	1.156 (29.4)	1.175 (29.8)	1.656 (42.1)	1.710 (43.4)
16	17	1.218 (30.9)	1.224 (31.1)	1.781 (45.2)	1.835 (46.6)
18	19	1.250 (31.8)	1.274 (32.4)	1.906 (48.4)	1.960 (49.8)
20	21	1.312 (33.3)	1.328 (33.7)	2.031 (51.6)	2.085 (53.0)
22	23	1.344 (34.1)	1.382 (35.1)	2.156 (54.8)	2.210 (56.1)
24	25	1.406 (35.7)	1.431 (36.3)	2.281 (57.9)	2.335 (59.3)

TABLE IV: CABLE ENTRY

Dash No.	K	L	M	Shrink Boot
01	.125 (3.2)	.250 (6.4)	.312 (7.9)	770-003S111
31	.188 (4.8)	.312 (7.9)	.374 (9.5)	770-003S111
02	.250 (6.4)	.375 (9.5)	.437 (11.1)	770-003S112
32	.312 (7.9)	.438 (11.1)	.500 (12.7)	770-003S112
03	.375 (9.5)	.500 (12.7)	.562 (14.3)	770-001S103
33	.438 (11.1)	.562 (14.3)	.624 (15.8)	770-001S104
04	.500 (12.7)	.625 (15.9)	.687 (17.4)	770-001S104
34	.562 (14.3)	.688 (17.5)	.750 (19.1)	770-001S104
05	.625 (15.9)	.750 (19.1)	.812 (20.6)	770-001S104
35	.688 (17.5)	.812 (20.6)	.874 (22.2)	770-001S104
06	.750 (19.1)	.875 (22.2)	.937 (23.8)	770-001S105
36	.812 (20.6)	.938 (23.8)	1.000 (25.4)	770-001S105
07	.875 (22.2)	1.000 (25.4)	1.062 (27.0)	770-001S105
37	.938 (23.8)	1.062 (27.0)	1.124 (28.5)	770-001S105
08	1.000 (25.4)	1.125 (28.6)	1.187 (30.1)	770-001S106
38	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)	770-001S106
09	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)	770-001S107
10	1.250 (31.8)	1.375 (34.9)	1.437 (36.5)	770-001S107
11	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)	770-001S107
12	1.500 (38.1)	1.625 (41.3)	1.687 (42.8)	770-001S107
13	1.625 (41.3)	1.750 (44.5)	1.812 (46.0)	770-001S108
14	1.750 (44.5)	1.875 (47.6)	1.937 (49.2)	770-001S108
15	1.875 (47.6)	2.000 (50.8)	2.062 (52.4)	770-001S109
16	2.000 (50.8)	2.125 (54.0)	2.187 (55.5)	770-001S109

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Interface O-Ring not supplied with Connector Designator A.
4. Consult factory for shorter lengths on straight backshells.
5. See page 40 for Shrink Boot Reference Information.
6. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-069
EMI/RFI Banding and Shrink Boot Adapter
Self-Locking Rotatable Coupling - Split Shell

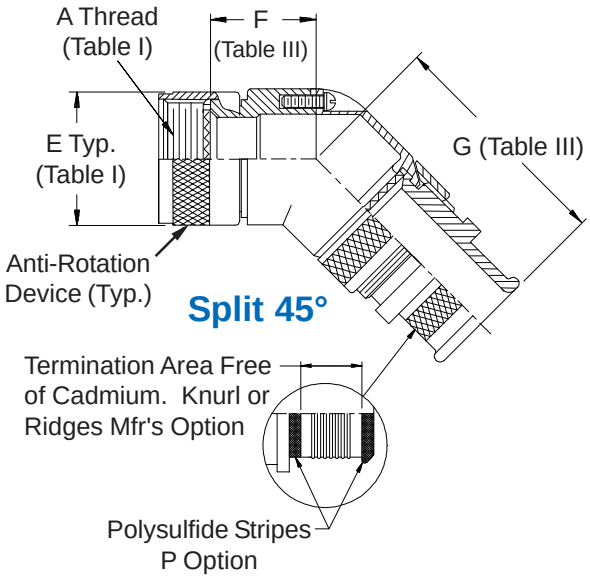
CONNECTOR DESIGNATORS

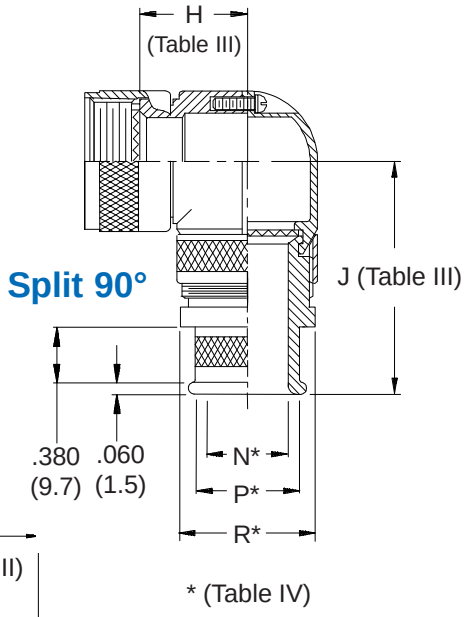
A-F-H-L

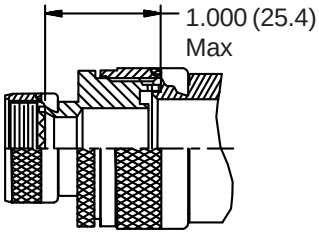
SELF-LOCKING ROTATABLE COUPLING

440 F D 069 M 20 12-B P T

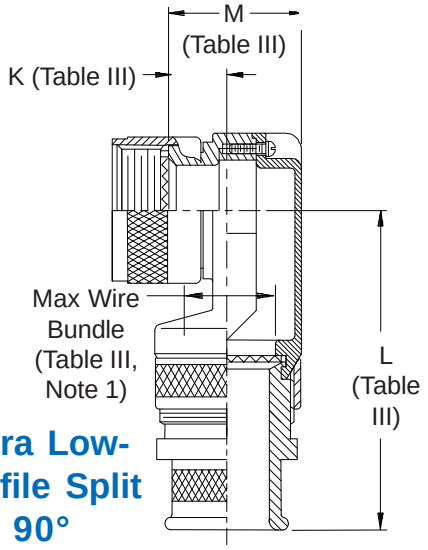
- 440 — Product Series
- F — Connector Designator
- D — Angle and Profile: C = Ultra-Low Split 90°, D = Split 90°, F = Split 45°
- 069 — Basic Part No.
- M — Finish (Table II)
- 20 — Shell Size (Table I)
- 12-B — Cable Entry (Table IV)
- P — Polysulfide (Omit for none)
- T — Shrink Boot (Table IV - Omit for none)

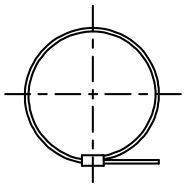






STYLE 2 (See Note 1)





Band Option (K Option Shown - See Note 5)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	F Max	G Max	H Max	J Max	K Ref	L Max	M Max	Function C Max Wire Bundle
08/09	.596 (15.1)	1.635 (41.5)	.836 (21.2)	1.575 (40.0)	.496 (12.6)	1.915 (48.6)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	1.695 (43.1)	.906 (23.0)	1.635 (41.5)	.426 (10.8)	2.075 (52.7)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	1.765 (44.8)	.966 (24.5)	1.705 (43.3)	.426 (10.8)	2.075 (52.7)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	1.795 (45.6)	1.026 (26.1)	1.735 (44.1)	.436 (11.1)	2.145 (54.5)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	1.895 (48.1)	1.086 (27.6)	1.835 (46.6)	.576 (14.6)	2.195 (55.8)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	1.955 (49.7)	1.156 (29.4)	1.895 (48.1)	.796 (20.2)	2.225 (56.5)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	2.015 (51.2)	1.216 (30.9)	1.955 (49.7)	.796 (20.2)	2.225 (56.5)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	2.075 (52.7)	1.276 (32.4)	2.015 (51.2)	.696 (17.7)	2.375 (60.3)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.135 (54.2)	1.336 (33.9)	2.075 (52.7)	.696 (17.7)	2.375 (60.3)	1.337 (34.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	N	P	R	Shrink Boot
01	.125 (3.2)	.250 (6.4)	.312 (7.9)	770-003S111
31	.188 (4.8)	.312 (7.9)	.374 (9.5)	770-003S111
02	.250 (6.4)	.375 (9.5)	.437 (11.1)	770-003S112
32	.312 (7.9)	.438 (11.1)	.500 (12.7)	770-003S112
03	.375 (9.5)	.500 (12.7)	.562 (14.3)	770-001S103
33	.438 (11.1)	.562 (14.3)	.624 (15.8)	770-001S104
04	.500 (12.7)	.625 (15.9)	.687 (17.4)	770-001S104
34	.562 (14.3)	.688 (17.5)	.750 (19.1)	770-001S104
05	.625 (15.9)	.750 (19.1)	.812 (20.6)	770-001S104
35	.688 (17.5)	.812 (20.6)	.874 (22.2)	770-001S104
06	.750 (19.1)	.875 (22.2)	.937 (23.8)	770-001S105
36	.812 (20.6)	.938 (23.8)	1.000 (25.4)	770-001S105
07	.875 (22.2)	1.000 (25.4)	1.062 (27.0)	770-001S105
37	.938 (23.8)	1.062 (27.0)	1.124 (28.5)	770-001S105
08	1.000 (25.4)	1.125 (28.6)	1.187 (30.1)	770-001S106
38	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)	770-001S106
09	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)	770-001S107
10	1.250 (31.8)	1.375 (34.9)	1.437 (36.5)	770-001S107
11	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)	770-001S107
12	1.500 (38.1)	1.625 (41.3)	1.687 (42.8)	770-001S107
13	1.625 (41.3)	1.750 (44.5)	1.812 (46.0)	770-001S108
14	1.750 (44.5)	1.875 (47.6)	1.937 (49.2)	770-001S108
15	1.875 (47.6)	2.000 (50.8)	2.062 (52.4)	770-001S109
16	2.000 (50.8)	2.125 (54.0)	2.187 (55.5)	770-001S109

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. See page 40 for Shrink Boot Reference Information.
5. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.
6. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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440-070
EMI/RFI Dual Banding Adapter
Rotatable Coupling - Standard Profile

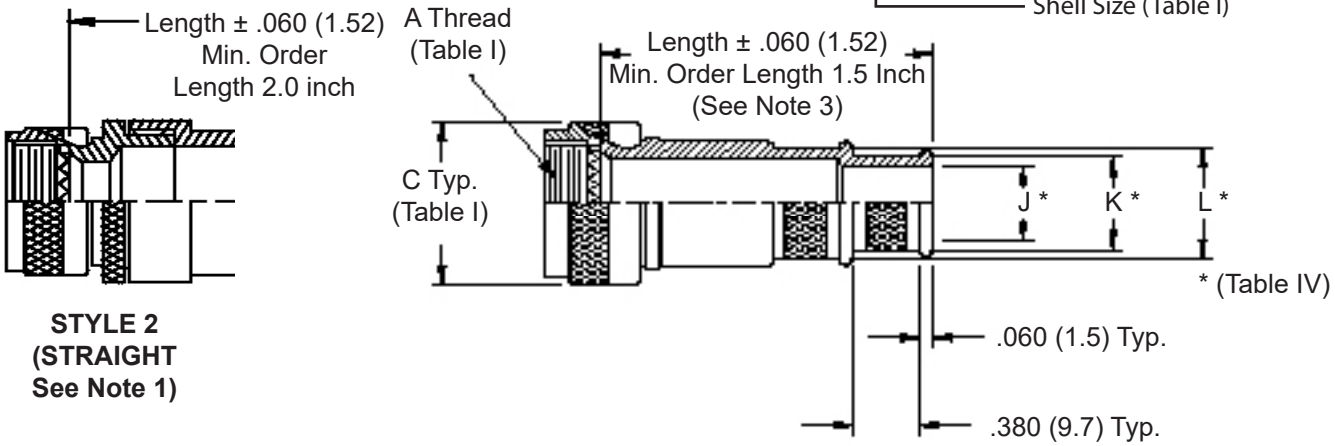
CONNECTOR DESIGNATORS

A-F-H-L-S

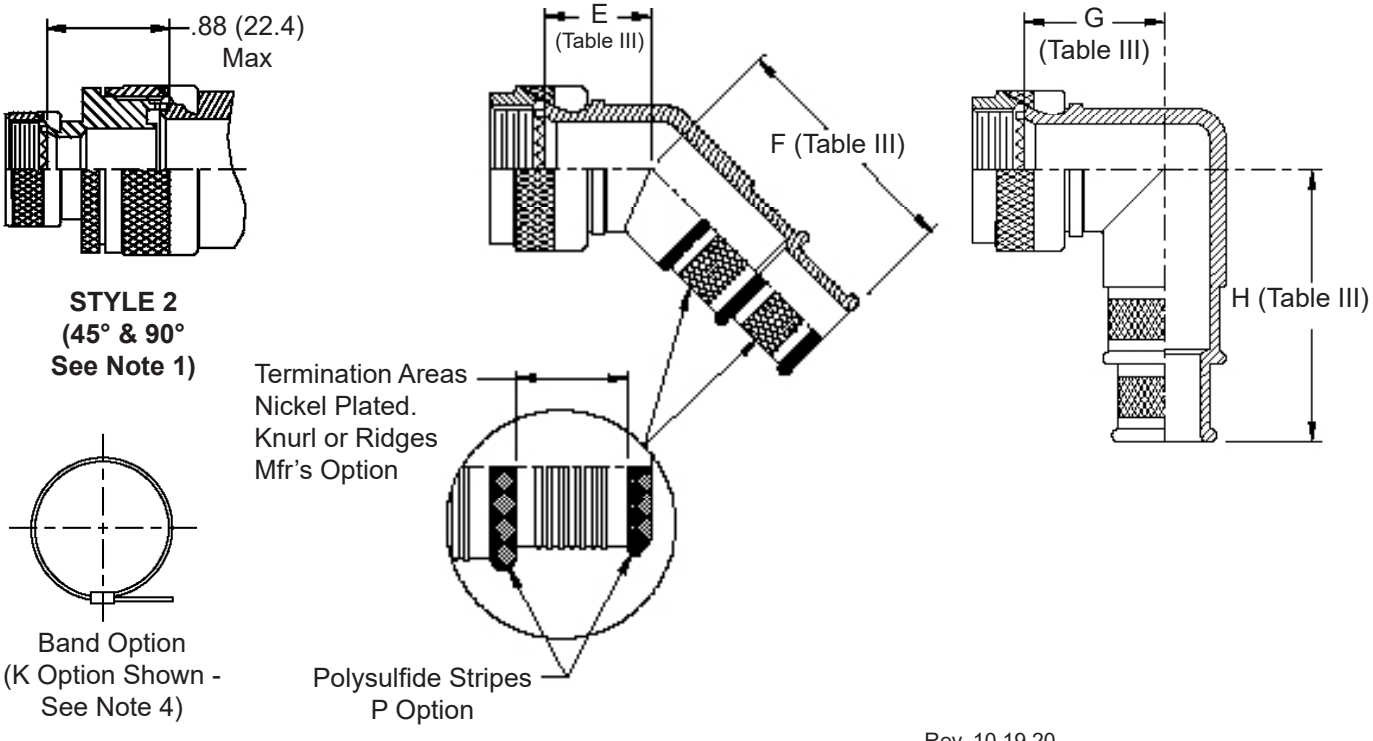
ROTATABLE COUPLING

440 F S 070 NF 16 12-8 K P

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = 2 Bands, K = 2 Precoiled Bands (Omit for none)
- Polysulfide (Omit for none)



STYLE 2
(STRAIGHT
See Note 1)



STYLE 2
(45° & 90°
See Note 1)

Band Option
(K Option Shown -
See Note 4)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	1.328	(33.7)	.750	(19.1)	1.438	(36.5)
10	11	.664	(16.9)	1.358	(34.5)	.810	(20.6)	1.498	(38.0)
12	13	.688	(17.5)	1.378	(35.0)	.870	(22.1)	1.558	(39.6)
14	15	.705	(17.9)	1.408	(35.8)	.920	(23.4)	1.628	(41.4)
16	17	.732	(18.6)	1.428	(36.3)	.980	(24.9)	1.688	(42.9)
18	19	.748	(19.0)	1.438	(36.5)	1.020	(25.9)	1.708	(43.4)
20	21	.773	(19.6)	1.458	(37.0)	1.080	(27.4)	1.768	(44.9)
22	23	.800	(20.3)	1.498	(38.0)	1.140	(29.0)	1.848	(46.9)
24	25	.823	(20.9)	1.528	(38.8)	1.200	(30.5)	1.918	(48.7)

TABLE IV: CABLE ENTRY

Dash No.	J Dia		K Dia		L Dia	
02	.125	(3.2)	.250	(6.4)	.312	(7.9)
03	.188	(4.8)	.312	(7.9)	.375	(9.5)
04	.250	(6.4)	.375	(9.5)	.438	(11.1)
05	.312	(7.9)	.438	(11.1)	.500	(12.7)
06	.375	(9.5)	.500	(12.7)	.562	(14.3)
07	.438	(11.1)	.562	(14.3)	.625	(15.9)
08	.500	(12.7)	.625	(15.9)	.688	(17.5)
09	.562	(14.3)	.688	(17.5)	.750	(19.1)
10	.625	(15.9)	.750	(19.1)	.812	(20.6)
11	.688	(17.5)	.812	(20.6)	.875	(22.2)
12	.750	(19.1)	.875	(22.2)	.938	(23.8)
13	.812	(20.6)	.938	(23.8)	1.000	(25.4)
14	.875	(22.2)	1.000	(25.4)	1.062	(27.0)
15	.938	(23.8)	1.062	(27.0)	1.125	(28.6)
16	1.000	(25.4)	1.125	(28.6)	1.188	(30.2)
17	1.062	(27.0)	1.188	(30.2)	1.250	(31.8)
18	1.125	(28.6)	1.250	(31.8)	1.312	(33.3)
20	1.250	(31.8)	1.375	(34.9)	1.438	(36.5)
22	1.375	(34.9)	1.500	(38.1)	1.562	(39.7)
24	1.500	(38.1)	1.625	(41.3)	1.688	(42.9)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-070
EMI/RFI Dual Banding Adapter
Rotatable Coupling - Full Radius Profile

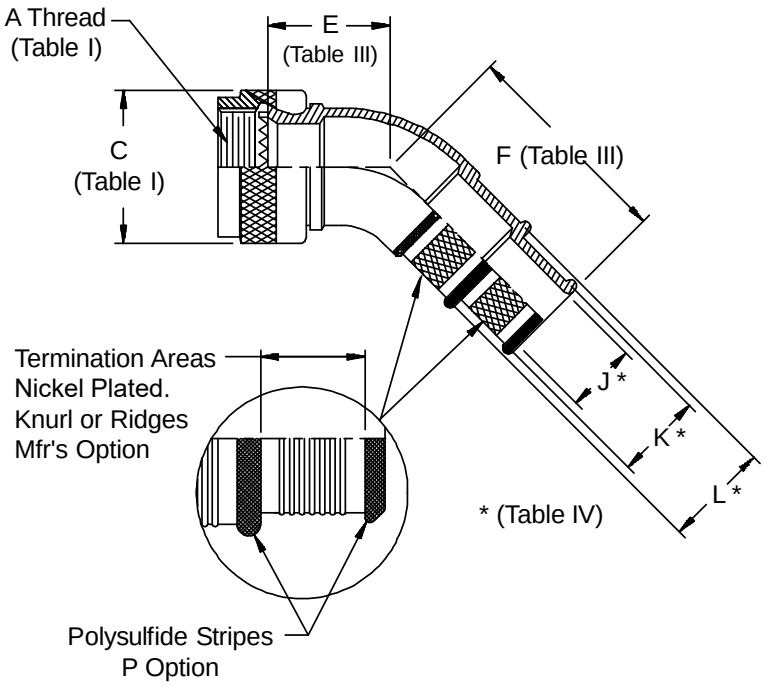
CONNECTOR DESIGNATORS

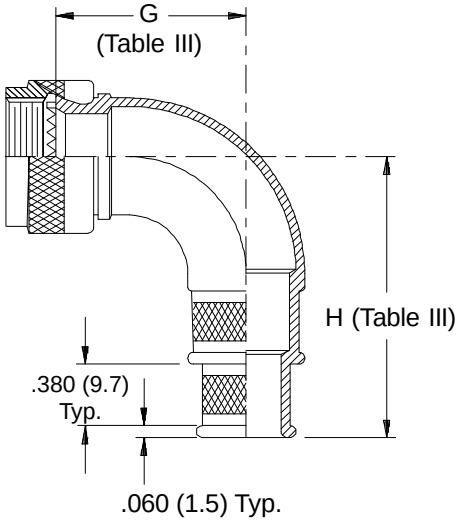
A-F-H-L-S

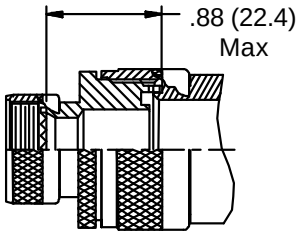
ROTATABLE COUPLING

440 F N 070 NF 16 12 K P

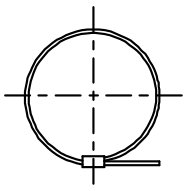
- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 440-28 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- B = 2 Bands
  K = 2 Precoiled Bands
  (Omit for none)
- Polysulfide (Omit for none)







STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.812 (20.6)	1.230 (31.2)	1.125 (28.6)	1.530 (38.9)
10	11	.875 (22.2)	1.290 (32.8)	1.250 (31.8)	1.660 (42.2)
12	13	.938 (23.8)	1.350 (34.3)	1.375 (34.9)	1.790 (45.5)
14	15	1.000 (25.4)	1.410 (35.8)	1.500 (38.1)	1.910 (48.5)
16	17	1.062 (27.0)	1.470 (37.3)	1.625 (41.3)	2.040 (51.8)
18	19	1.094 (27.8)	1.540 (39.1)	1.750 (44.5)	2.160 (54.9)
20	21	1.156 (29.4)	1.600 (40.6)	1.875 (47.6)	2.290 (58.2)
22	23	1.188 (30.2)	1.660 (42.2)	2.000 (50.8)	2.410 (61.2)
24	25	1.250 (31.8)	1.720 (43.7)	2.125 (54.0)	2.540 (64.5)

TABLE IV: CABLE ENTRY

Dash No.	J Dia	K Dia	L Dia
02	.125 (3.2)	.250 (6.4)	.312 (7.9)
03	.188 (4.8)	.312 (7.9)	.375 (9.5)
04	.250 (6.4)	.375 (9.5)	.438 (11.1)
05	.312 (7.9)	.438 (11.1)	.500 (12.7)
06	.375 (9.5)	.500 (12.7)	.562 (14.3)
07	.438 (11.1)	.562 (14.3)	.625 (15.9)
08	.500 (12.7)	.625 (15.9)	.688 (17.5)
09	.562 (14.3)	.688 (17.5)	.750 (19.1)
10	.625 (15.9)	.750 (19.1)	.812 (20.6)
11	.688 (17.5)	.812 (20.6)	.875 (22.2)
12	.750 (19.1)	.875 (22.2)	.938 (23.8)
13	.812 (20.6)	.938 (23.8)	1.000 (25.4)
14	.875 (22.2)	1.000 (25.4)	1.062 (27.0)
15	.938 (23.8)	1.062 (27.0)	1.125 (28.6)
16	1.000 (25.4)	1.125 (28.6)	1.188 (30.2)
17	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)
18	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)
20	1.250 (31.8)	1.375 (34.9)	1.438 (36.5)
22	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)
24	1.500 (38.1)	1.625 (41.3)	1.688 (42.9)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-070
EMI/RFI Dual Banding Adapter
Rotatable Coupling - Split Shell

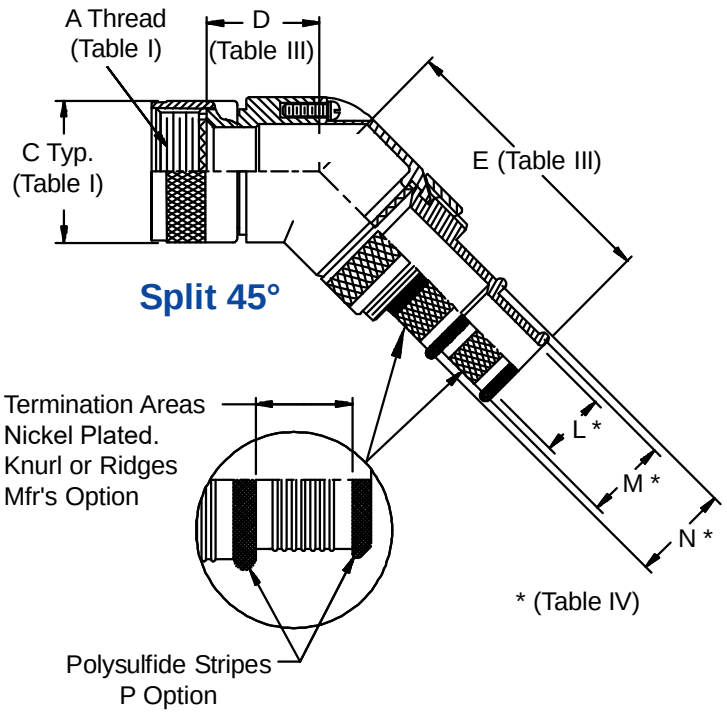
440 A D 070 NF 16 12-K P

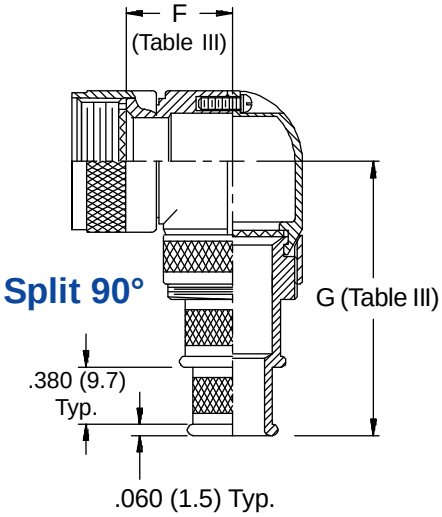
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Dash No. (Table IV)
- B = 2 Bands
  K = 2 Precoiled Bands
  (Omit for none)
- Polysulfide (Omit for none)

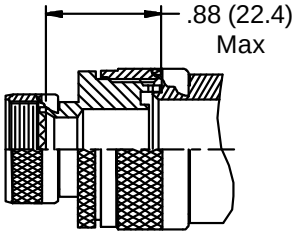
CONNECTOR DESIGNATORS

A-F-H-L-S

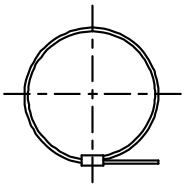
ROTATABLE COUPLING



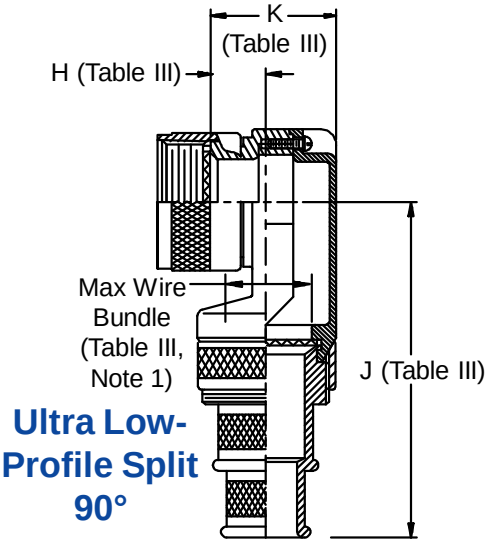




STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	D Max	E Max	F Max	G Max	H Max	J Max	K Max	Function C Max Wire Bundle
08/09	.440 (11.2)	1.940 (49.3)	.680 (17.3)	1.880 (47.8)	.340 (8.6)	2.220 (56.4)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	2.000 (50.8)	.750 (19.1)	1.940 (49.3)	.270 (6.9)	2.380 (60.5)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	2.070 (52.6)	.810 (20.6)	2.010 (51.1)	.270 (6.9)	2.380 (60.5)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	2.100 (53.3)	.870 (22.1)	2.040 (51.8)	.280 (7.1)	2.450 (62.2)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	2.200 (55.9)	.930 (23.6)	2.140 (54.4)	.420 (10.7)	2.500 (63.5)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	2.260 (57.4)	1.000 (25.4)	2.200 (55.9)	.640 (16.3)	2.530 (64.3)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	2.320 (58.9)	1.060 (26.9)	2.260 (57.4)	.640 (16.3)	2.530 (64.3)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	2.380 (60.5)	1.120 (28.4)	2.320 (58.9)	.540 (13.7)	2.680 (68.1)	1.181 (30.0)	.750 (19.1)
24/25	.940 (23.9)	2.440 (62.0)	1.180 (30.0)	2.380 (60.5)	.540 (13.7)	2.680 (68.1)	1.181 (30.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	L Dia	M Dia	N Dia
02	.125 (3.2)	.250 (6.4)	.312 (7.9)
03	.188 (4.8)	.312 (7.9)	.375 (9.5)
04	.250 (6.4)	.375 (9.5)	.438 (11.1)
05	.312 (7.9)	.438 (11.1)	.500 (12.7)
06	.375 (9.5)	.500 (12.7)	.562 (14.3)
07	.438 (11.1)	.562 (14.3)	.625 (15.9)
08	.500 (12.7)	.625 (15.9)	.688 (17.5)
09	.562 (14.3)	.688 (17.5)	.750 (19.1)
10	.625 (15.9)	.750 (19.1)	.812 (20.6)
11	.688 (17.5)	.812 (20.6)	.875 (22.2)
12	.750 (19.1)	.875 (22.2)	.938 (23.8)
13	.812 (20.6)	.938 (23.8)	1.000 (25.4)
14	.875 (22.2)	1.000 (25.4)	1.062 (27.0)
15	.938 (23.8)	1.062 (27.0)	1.125 (28.6)
16	1.000 (25.4)	1.125 (28.6)	1.188 (30.2)
17	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)
18	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)
20	1.250 (31.8)	1.375 (34.9)	1.438 (36.5)
22	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)
24	1.500 (38.1)	1.625 (41.3)	1.688 (42.9)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available on Function C). Dimensions D, E, F and G will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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440-071
EMI/RFI Dual Banding Adapter
Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

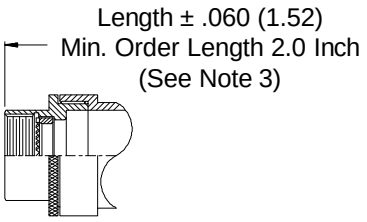
G-H-J-K-L-S

*** Conn. Desig. B See Note 4**

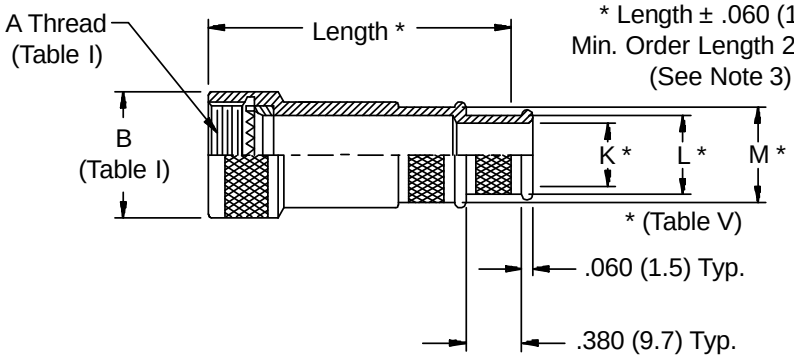
DIRECT COUPLING

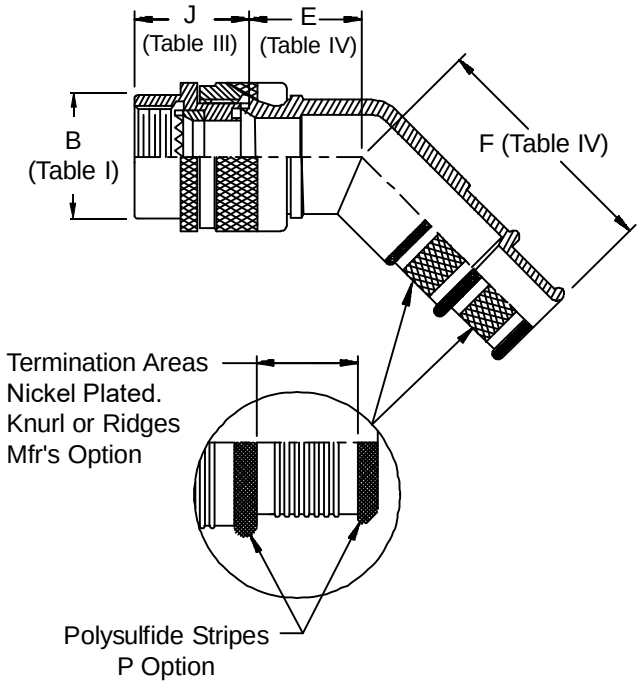
440 F S 071 NF 16 12-8 K P

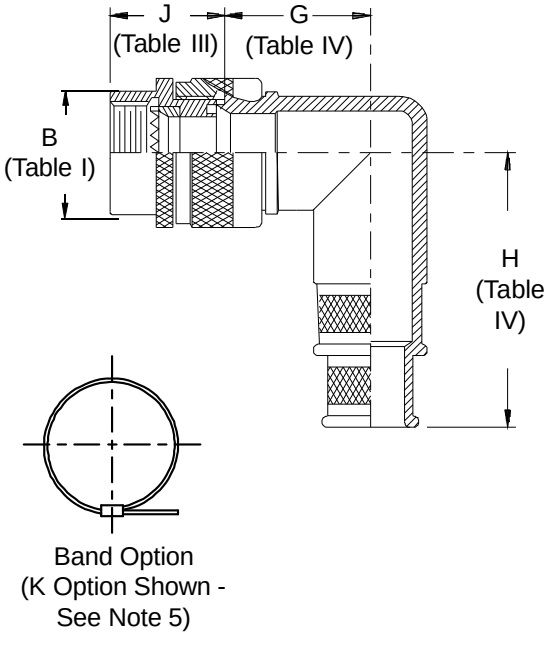
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = 2 Bands, K = 2 Precoiled Bands (Omit for none)
- Polysulfide (Omit for none)



STYLE 2 (STRAIGHT See Note 1)







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440-071
EMI/RFI Dual Banding Adapter
Direct Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
02	.639 (16.2)	1.328 (33.7)	.750 (19.1)	1.438 (36.5)
03	.639 (16.2)	1.328 (33.7)	.750 (19.1)	1.438 (36.5)
04	.639 (16.2)	1.328 (33.7)	.750 (19.1)	1.438 (36.5)
05	.664 (16.9)	1.358 (34.5)	.810 (20.6)	1.498 (38.0)
06	.664 (16.9)	1.358 (34.5)	.810 (20.6)	1.498 (38.0)
07	.688 (17.5)	1.378 (35.0)	.870 (22.1)	1.558 (39.6)
08	.688 (17.5)	1.378 (35.0)	.870 (22.1)	1.558 (39.6)
09	.705 (17.9)	1.408 (35.8)	.920 (23.4)	1.628 (41.4)
10	.732 (18.6)	1.428 (36.3)	.980 (24.9)	1.688 (42.9)
11	.732 (18.6)	1.428 (36.3)	.980 (24.9)	1.688 (42.9)
12	.748 (19.0)	1.438 (36.5)	1.020 (25.9)	1.708 (43.4)
13	.773 (19.6)	1.458 (37.0)	1.080 (27.4)	1.768 (44.9)
14	.773 (19.6)	1.458 (37.0)	1.080 (27.4)	1.768 (44.9)
15	.800 (20.3)	1.498 (38.0)	1.140 (29.0)	1.848 (46.9)
16	.800 (20.3)	1.498 (38.0)	1.140 (29.0)	1.848 (46.9)

TABLE V: CABLE ENTRY

Dash No.	K Dia	L Dia	M Dia
02	.125 (3.2)	.250 (6.4)	.312 (7.9)
03	.188 (4.8)	.312 (7.9)	.375 (9.5)
04	.250 (6.4)	.375 (9.5)	.438 (11.1)
05	.312 (7.9)	.438 (11.1)	.500 (12.7)
06	.375 (9.5)	.500 (12.7)	.562 (14.3)
07	.438 (11.1)	.562 (14.3)	.625 (15.9)
08	.500 (12.7)	.625 (15.9)	.688 (17.5)
09	.562 (14.3)	.688 (17.5)	.750 (19.1)
10	.625 (15.9)	.750 (19.1)	.812 (20.6)
11	.688 (17.5)	.812 (20.6)	.875 (22.2)
12	.750 (19.1)	.875 (22.2)	.938 (23.8)
13	.812 (20.6)	.938 (23.8)	1.000 (25.4)
14	.875 (22.2)	1.000 (25.4)	1.062 (27.0)
15	.938 (23.8)	1.062 (27.0)	1.125 (28.6)
16	1.000 (25.4)	1.125 (28.6)	1.188 (30.2)
17	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)
18	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)
20	1.250 (31.8)	1.375 (34.9)	1.438 (36.5)
22	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)
24	1.500 (38.1)	1.625 (41.3)	1.688 (42.9)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. When using Connector Designator B refer to pages 18 and 19 for part number development.
5. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-071
EMI/RFI Dual Banding Adapter
Direct Coupling - Split Shell

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

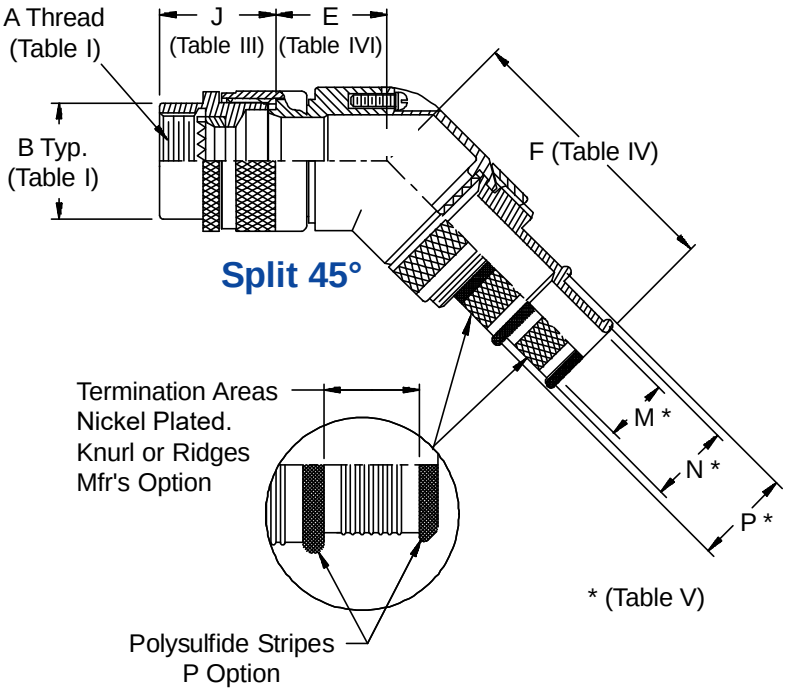
G-H-J-K-L-S

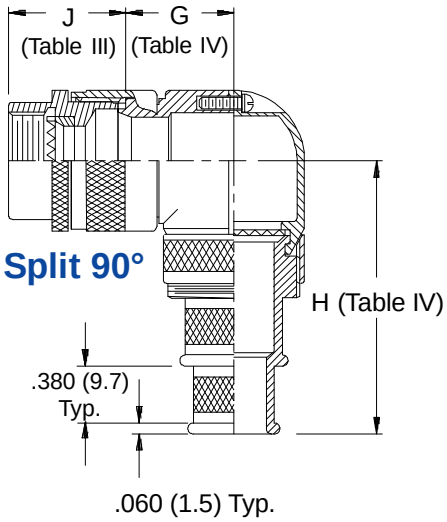
*** Conn. Desig. B See Note 2**

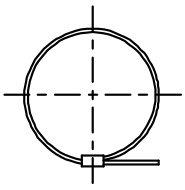
DIRECT COUPLING

440 F D 071 NF 16 12-K P

- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- B = 2 Bands
  K = 2 Precoiled Bands
  (Omit for none)
- Polysulfide (Omit for none)







Band Option
(K Option Shown -
See Note 4)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
02	.440 (11.2)	1.940 (49.3)	.680 (17.3)	1.880 (47.8)
03	.440 (11.2)	1.940 (49.3)	.680 (17.3)	1.880 (47.8)
04	.440 (11.2)	1.940 (49.3)	.680 (17.3)	1.880 (47.8)
05	.500 (12.7)	2.000 (50.8)	.750 (19.1)	1.940 (49.3)
06	.500 (12.7)	2.000 (50.8)	.750 (19.1)	1.940 (49.3)
07	.560 (14.2)	2.070 (52.6)	.810 (20.6)	2.010 (51.1)
08	.560 (14.2)	2.070 (52.6)	.810 (20.6)	2.010 (51.1)
09	.620 (15.7)	2.100 (53.3)	.870 (22.1)	2.040 (51.8)
10	.680 (17.3)	2.200 (55.9)	.930 (23.6)	2.140 (54.4)
11	.680 (17.3)	2.200 (55.9)	.930 (23.6)	2.140 (54.4)
12	.750 (19.1)	2.260 (57.4)	1.000 (25.4)	2.200 (55.9)
13	.820 (20.8)	2.320 (58.9)	1.060 (26.9)	2.260 (57.4)
14	.820 (20.8)	2.320 (58.9)	1.060 (26.9)	2.260 (57.4)
15	.880 (22.4)	2.380 (60.5)	1.120 (28.4)	2.320 (58.9)
16	.880 (22.4)	2.380 (60.5)	1.120 (28.4)	2.320 (58.9)

TABLE V: CABLE ENTRY

Dash No.	M Dia	N Dia	P Dia
02	.125 (3.2)	.250 (6.4)	.312 (7.9)
03	.188 (4.8)	.312 (7.9)	.375 (9.5)
04	.250 (6.4)	.375 (9.5)	.438 (11.1)
05	.312 (7.9)	.438 (11.1)	.500 (12.7)
06	.375 (9.5)	.500 (12.7)	.562 (14.3)
07	.438 (11.1)	.562 (14.3)	.625 (15.9)
08	.500 (12.7)	.625 (15.9)	.688 (17.5)
09	.562 (14.3)	.688 (17.5)	.750 (19.1)
10	.625 (15.9)	.750 (19.1)	.812 (20.6)
11	.688 (17.5)	.812 (20.6)	.875 (22.2)
12	.750 (19.1)	.875 (22.2)	.938 (23.8)
13	.812 (20.6)	.938 (23.8)	1.000 (25.4)
14	.875 (22.2)	1.000 (25.4)	1.062 (27.0)
15	.938 (23.8)	1.062 (27.0)	1.125 (28.6)
16	1.000 (25.4)	1.125 (28.6)	1.188 (30.2)
17	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)
18	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)
20	1.250 (31.8)	1.375 (34.9)	1.438 (36.5)
22	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)
24	1.500 (38.1)	1.625 (41.3)	1.688 (42.9)

1. Metric dimensions (mm) are indicated in parentheses.
2. When using Connector Designator B refer to pages 18 and 19 for part number development.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-072
EMI/RFI Dual Banding Adapter
Self-Locking Rotatable Coupling - Standard Profile

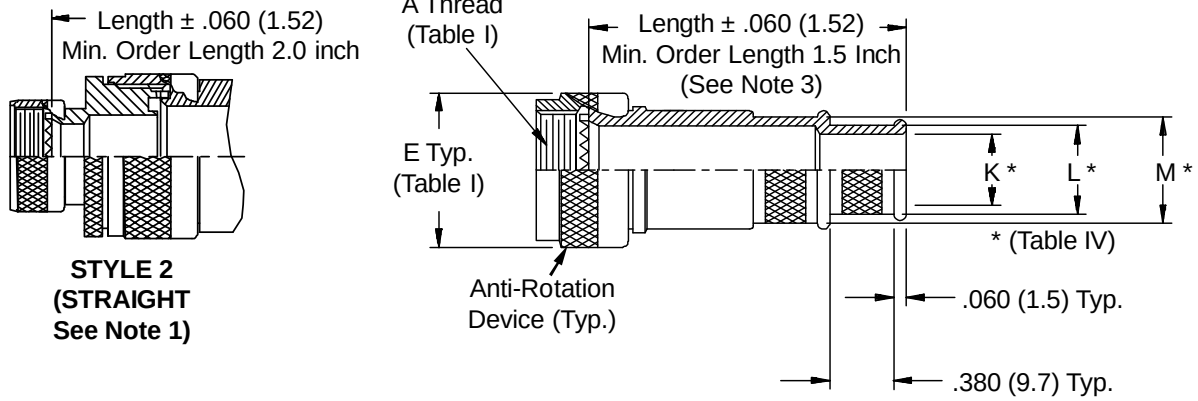
CONNECTOR DESIGNATORS

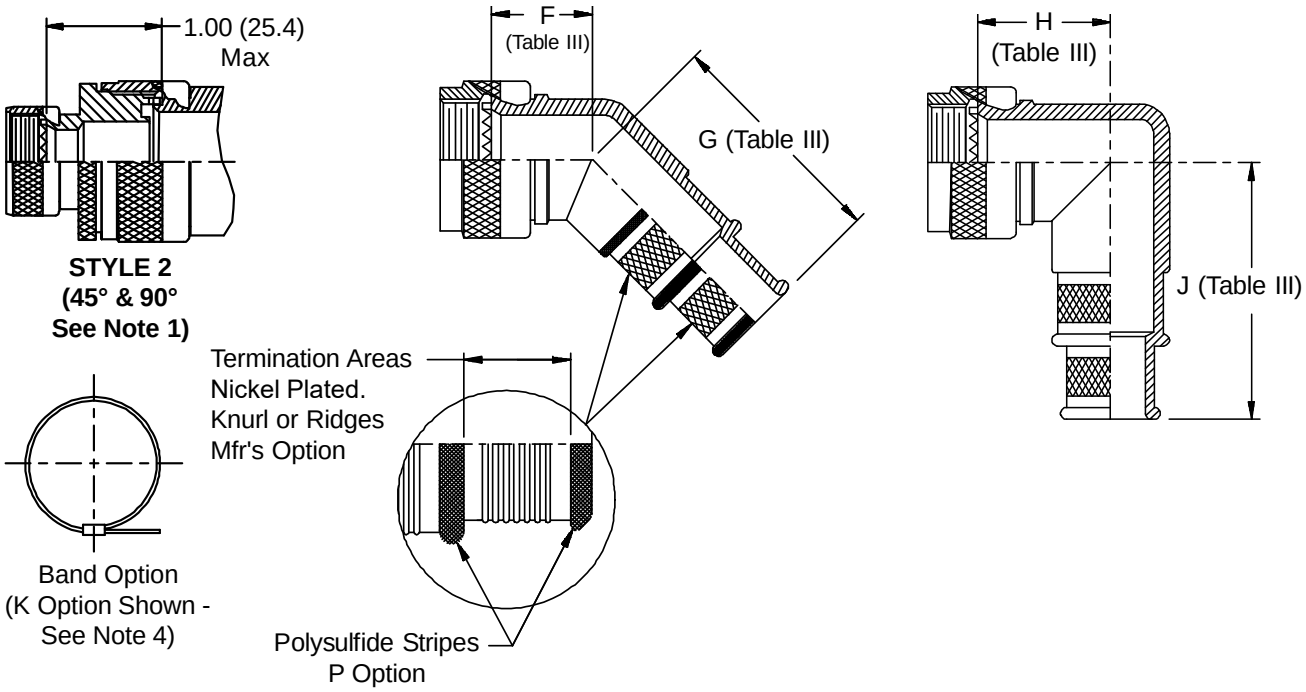
A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

440 F S 072 NF 16 12-8 K P

- 440 — Product Series
- F — Connector Designator
- S — Angle and Profile: H = 45°, J = 90°, S = Straight
- 072 — Basic Part No.
- NF — Finish (Table II)
- 16 — Shell Size (Table I)
- 12-8 — Cable Entry (Table IV)
- K — B = 2 Bands, K = 2 Precoiled Bands (Omit for none)
- P — Polysulfide (Omit for none)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)





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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	1.328	(33.7)	.906	(23.0)	1.438	(36.5)
10	11	.820	(20.8)	1.358	(34.5)	.966	(24.5)	1.498	(38.0)
12	13	.844	(21.4)	1.378	(35.0)	1.026	(26.1)	1.558	(39.6)
14	15	.861	(21.9)	1.408	(35.8)	1.076	(27.3)	1.628	(41.4)
16	17	.888	(22.6)	1.428	(36.3)	1.136	(28.9)	1.688	(42.9)
18	19	.904	(23.0)	1.438	(36.5)	1.176	(29.9)	1.708	(43.4)
20	21	.929	(23.6)	1.458	(37.0)	1.236	(31.4)	1.768	(44.9)
22	23	.956	(24.3)	1.498	(38.0)	1.296	(32.9)	1.848	(46.9)
24	25	.979	(24.9)	1.528	(38.8)	1.356	(34.4)	1.918	(48.7)

TABLE IV: CABLE ENTRY

Dash No.	K Dia		L Dia		M Dia	
02	.125	(3.2)	.250	(6.4)	.312	(7.9)
03	.188	(4.8)	.312	(7.9)	.375	(9.5)
04	.250	(6.4)	.375	(9.5)	.438	(11.1)
05	.312	(7.9)	.438	(11.1)	.500	(12.7)
06	.375	(9.5)	.500	(12.7)	.562	(14.3)
07	.438	(11.1)	.562	(14.3)	.625	(15.9)
08	.500	(12.7)	.625	(15.9)	.688	(17.5)
09	.562	(14.3)	.688	(17.5)	.750	(19.1)
10	.625	(15.9)	.750	(19.1)	.812	(20.6)
11	.688	(17.5)	.812	(20.6)	.875	(22.2)
12	.750	(19.1)	.875	(22.2)	.938	(23.8)
13	.812	(20.6)	.938	(23.8)	1.000	(25.4)
14	.875	(22.2)	1.000	(25.4)	1.062	(27.0)
15	.938	(23.8)	1.062	(27.0)	1.125	(28.6)
16	1.000	(25.4)	1.125	(28.6)	1.188	(30.2)
17	1.062	(27.0)	1.188	(30.2)	1.250	(31.8)
18	1.125	(28.6)	1.250	(31.8)	1.312	(33.3)
20	1.250	(31.8)	1.375	(34.9)	1.438	(36.5)
22	1.375	(34.9)	1.500	(38.1)	1.562	(39.7)
24	1.500	(38.1)	1.625	(41.3)	1.688	(42.9)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-072
EMI/RFI Dual Banding Adapter
Self-Locking Rotatable Coupling - Full Radius Profile

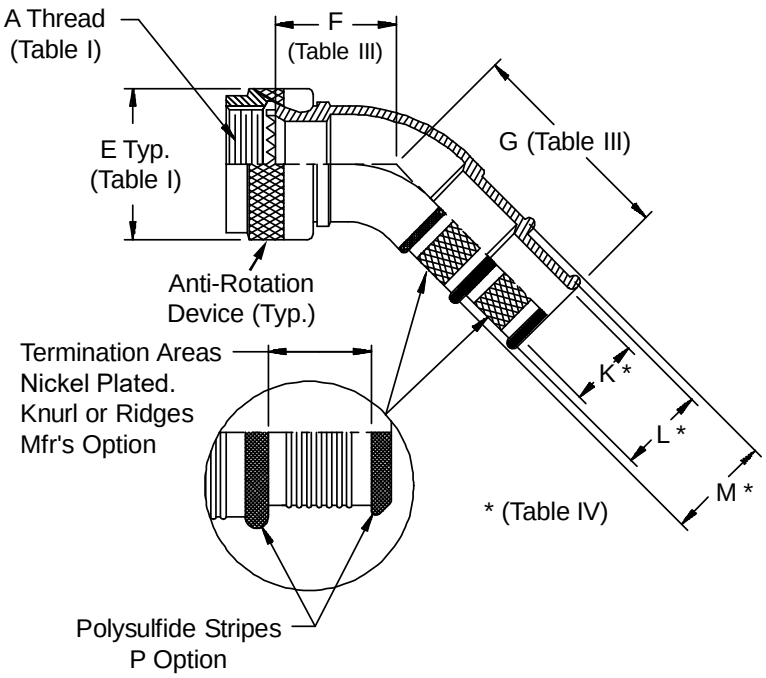
CONNECTOR DESIGNATORS

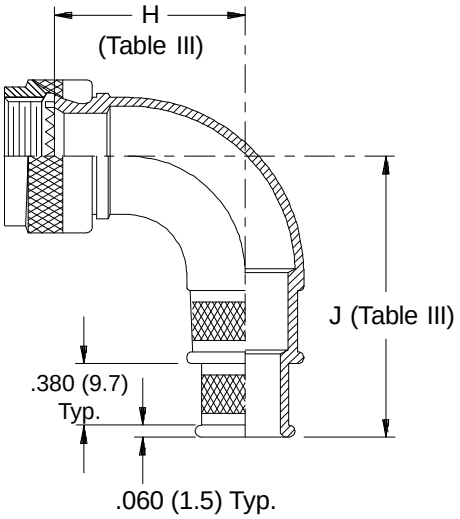
A-F-H-L-S

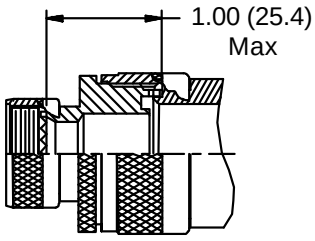
SELF-LOCKING ROTATABLE COUPLING

440 F N 072 NF 16 12 K P

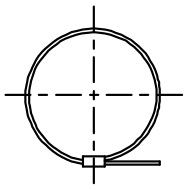
- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 440-38 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- B = 2 Bands
  K = 2 Precoiled Bands
  (Omit for none)
- Polysulfide (Omit for none)







STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
08	09	.968 (24.6)	1.230 (31.2)	1.281 (32.5)	1.530 (38.9)
10	11	1.031 (26.2)	1.290 (32.8)	1.406 (35.7)	1.660 (42.2)
12	13	1.094 (27.8)	1.350 (34.3)	1.531 (38.9)	1.790 (45.5)
14	15	1.156 (29.4)	1.410 (35.8)	1.656 (42.1)	1.910 (48.5)
16	17	1.218 (30.9)	1.470 (37.3)	1.781 (45.2)	2.040 (51.8)
18	19	1.250 (31.8)	1.540 (39.1)	1.906 (48.4)	2.160 (54.9)
20	21	1.312 (33.3)	1.600 (40.6)	2.031 (51.6)	2.290 (58.2)
22	23	1.344 (34.1)	1.660 (42.2)	2.156 (54.8)	2.410 (61.2)
24	25	1.406 (35.7)	1.720 (43.7)	2.281 (57.9)	2.540 (64.5)

TABLE IV:CABLE ENTRY

Dash No.	K Dia	L Dia	M Dia
02	.125 (3.2)	.250 (6.4)	.312 (7.9)
03	.188 (4.8)	.312 (7.9)	.375 (9.5)
04	.250 (6.4)	.375 (9.5)	.438 (11.1)
05	.312 (7.9)	.438 (11.1)	.500 (12.7)
06	.375 (9.5)	.500 (12.7)	.562 (14.3)
07	.438 (11.1)	.562 (14.3)	.625 (15.9)
08	.500 (12.7)	.625 (15.9)	.688 (17.5)
09	.562 (14.3)	.688 (17.5)	.750 (19.1)
10	.625 (15.9)	.750 (19.1)	.812 (20.6)
11	.688 (17.5)	.812 (20.6)	.875 (22.2)
12	.750 (19.1)	.875 (22.2)	.938 (23.8)
13	.812 (20.6)	.938 (23.8)	1.000 (25.4)
14	.875 (22.2)	1.000 (25.4)	1.062 (27.0)
15	.938 (23.8)	1.062 (27.0)	1.125 (28.6)
16	1.000 (25.4)	1.125 (28.6)	1.188 (30.2)
17	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)
18	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)
20	1.250 (31.8)	1.375 (34.9)	1.438 (36.5)
22	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)
24	1.500 (38.1)	1.625 (41.3)	1.688 (42.9)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-072
EMI/RFI Dual Banding Adapter
Self-Locking Rotatable Coupling - Split Shell

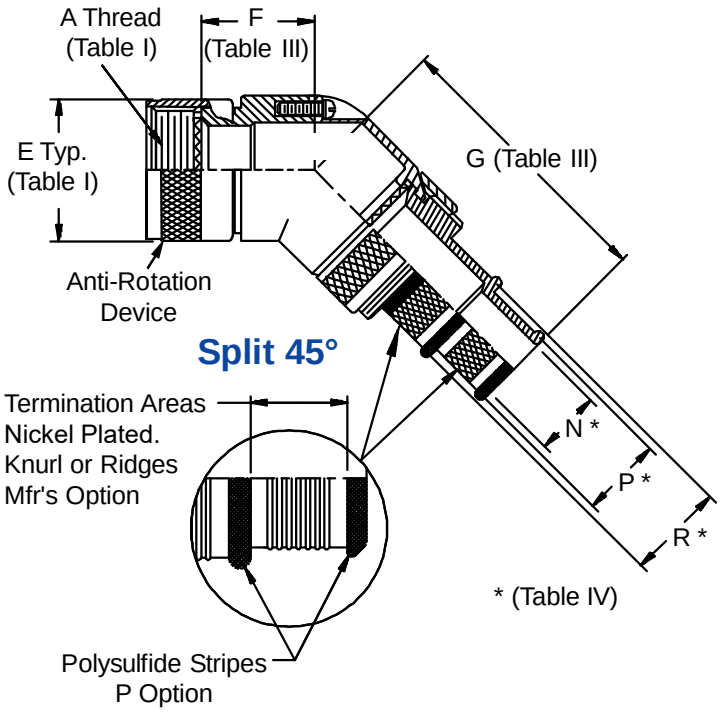
CONNECTOR DESIGNATORS

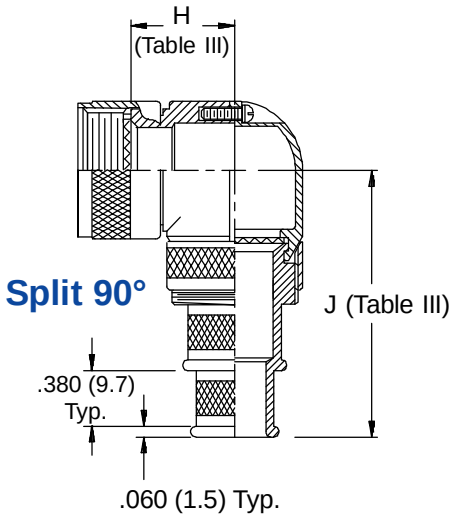
A-F-H-L-S

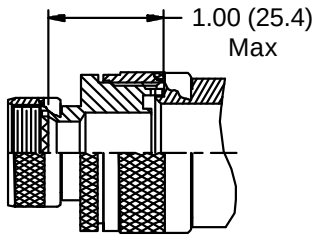
SELF-LOCKING ROTATABLE COUPLING

440 F D 072 NF 16 12-K P

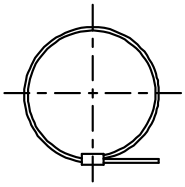
- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- B = 2 Bands
  K = 2 Precoiled Bands
  (Omit for none)
- Polysulfide (Omit for none)



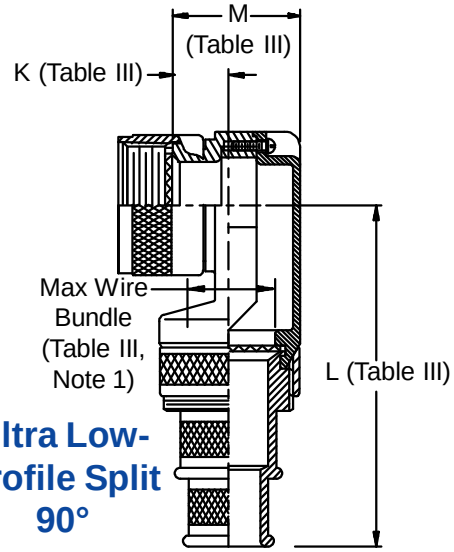




STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	F Max	G Max	H Max	J Max	K Max	L Max	M Max	Function C Max Wire Bundle
08/09	.596 (15.1)	1.940 (49.3)	.836 (21.2)	1.880 (47.8)	.496 (12.6)	2.220 (56.4)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	2.000 (50.8)	.906 (23.0)	1.940 (49.3)	.426 (10.8)	2.380 (60.5)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	2.070 (52.6)	.966 (24.5)	2.010 (51.1)	.426 (10.8)	2.380 (60.5)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	2.100 (53.3)	1.026 (26.1)	2.040 (51.8)	.436 (11.1)	2.450 (62.2)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	2.200 (55.9)	1.086 (27.6)	2.140 (54.4)	.576 (14.6)	2.500 (63.5)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	2.260 (57.4)	1.156 (29.4)	2.200 (55.9)	.796 (20.2)	2.530 (64.3)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	2.320 (58.9)	1.216 (30.9)	2.260 (57.4)	.796 (20.2)	2.530 (64.3)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	2.380 (60.5)	1.276 (32.4)	2.320 (58.9)	.696 (17.7)	2.680 (68.1)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.440 (62.0)	1.336 (33.9)	2.380 (60.5)	.696 (17.7)	2.680 (68.1)	1.337 (34.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	N Dia	P Dia	R Dia
02	.125 (3.2)	.250 (6.4)	.312 (7.9)
03	.188 (4.8)	.312 (7.9)	.375 (9.5)
04	.250 (6.4)	.375 (9.5)	.438 (11.1)
05	.312 (7.9)	.438 (11.1)	.500 (12.7)
06	.375 (9.5)	.500 (12.7)	.562 (14.3)
07	.438 (11.1)	.562 (14.3)	.625 (15.9)
08	.500 (12.7)	.625 (15.9)	.688 (17.5)
09	.562 (14.3)	.688 (17.5)	.750 (19.1)
10	.625 (15.9)	.750 (19.1)	.812 (20.6)
11	.688 (17.5)	.812 (20.6)	.875 (22.2)
12	.750 (19.1)	.875 (22.2)	.938 (23.8)
13	.812 (20.6)	.938 (23.8)	1.000 (25.4)
14	.875 (22.2)	1.000 (25.4)	1.062 (27.0)
15	.938 (23.8)	1.062 (27.0)	1.125 (28.6)
16	1.000 (25.4)	1.125 (28.6)	1.188 (30.2)
17	1.062 (27.0)	1.188 (30.2)	1.250 (31.8)
18	1.125 (28.6)	1.250 (31.8)	1.312 (33.3)
20	1.250 (31.8)	1.375 (34.9)	1.438 (36.5)
22	1.375 (34.9)	1.500 (38.1)	1.562 (39.7)
24	1.500 (38.1)	1.625 (41.3)	1.688 (42.9)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available on Function C). Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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440-074
EMI/RFI Banding Adapter
Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

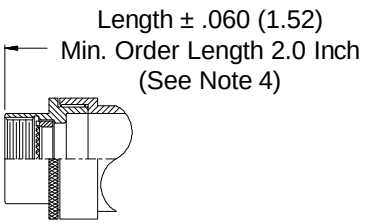
G-H-J-K-L-S

*** Conn. Desig. B See Note 5**

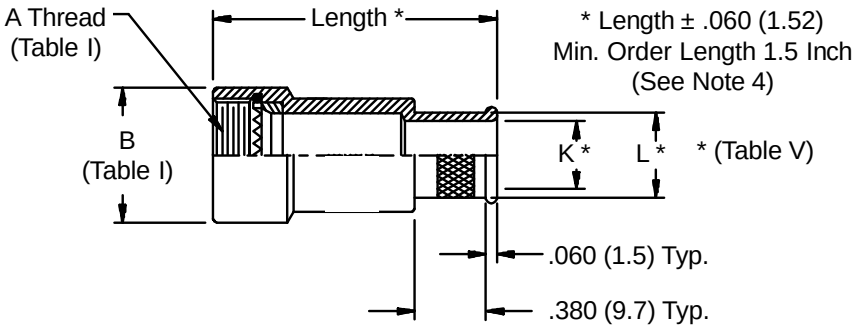
DIRECT COUPLING

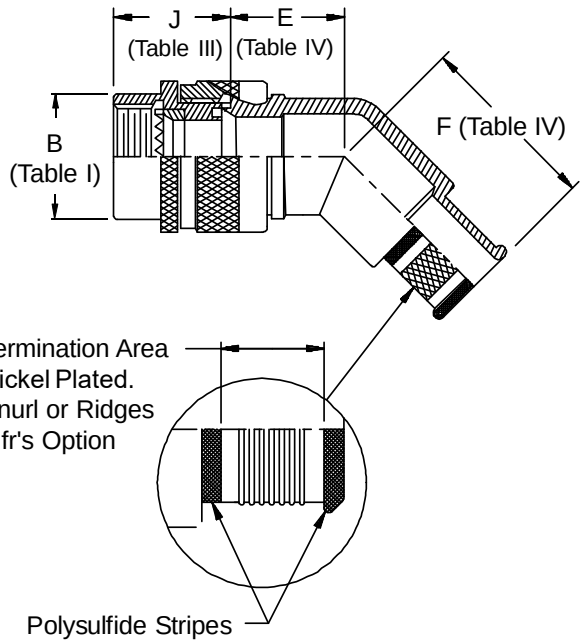
440 F S 074 NF 16 12-8 K P

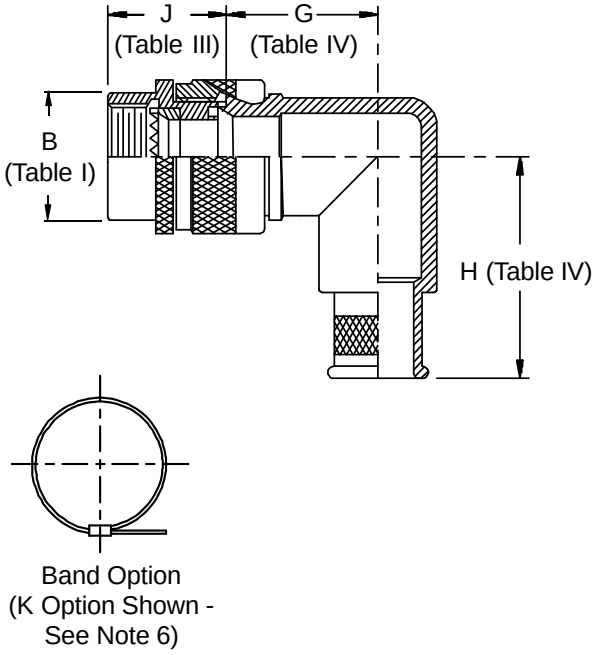
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)



STYLE 2 (STRAIGHT See Note 1)







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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
02	.639 (16.2)	.890 (22.6)	.750 (19.1)	1.000 (25.4)
03	.664 (16.9)	.920 (23.4)	.810 (20.6)	1.060 (26.9)
04	.688 (17.5)	.940 (23.9)	.870 (22.1)	1.120 (28.4)
05	.688 (17.5)	.940 (23.9)	.870 (22.1)	1.120 (28.4)
06	.688 (17.5)	.940 (23.9)	.870 (22.1)	1.120 (28.4)
07	.705 (17.9)	.970 (24.6)	.920 (23.4)	1.190 (30.2)
08	.732 (18.6)	.990 (25.1)	.980 (24.9)	1.250 (31.8)
09	.732 (18.6)	.990 (25.1)	.980 (24.9)	1.250 (31.8)
10	.748 (19.0)	1.000 (25.4)	1.020 (25.9)	1.270 (32.3)
11	.773 (19.6)	1.020 (25.9)	1.080 (27.4)	1.330 (33.8)
12	.773 (19.6)	1.020 (25.9)	1.080 (27.4)	1.330 (33.8)
13	.800 (20.3)	1.060 (26.9)	1.140 (29.0)	1.410 (35.8)
14	.800 (20.3)	1.060 (26.9)	1.140 (29.0)	1.410 (35.8)
15	.823 (20.9)	1.090 (27.7)	1.200 (30.5)	1.480 (37.6)
16	.823 (20.9)	1.090 (27.7)	1.200 (30.5)	1.480 (37.6)

TABLE V: CABLE ENTRY

Dash No.	K Dia	L Dia
02	.125 (3.2)	.250 (6.4)
03	.188 (4.8)	.312 (7.9)
04	.250 (6.4)	.375 (9.5)
05	.312 (7.9)	.438 (11.1)
06	.375 (9.5)	.500 (12.7)
07	.438 (11.1)	.562 (14.3)
08	.500 (12.7)	.625 (15.9)
09	.562 (14.3)	.688 (17.5)
10	.625 (15.9)	.750 (19.1)
11	.688 (17.5)	.812 (20.6)
12	.750 (19.1)	.875 (22.2)
13	.812 (20.6)	.938 (23.8)
14	.875 (22.2)	1.000 (25.4)
15	.938 (23.8)	1.062 (27.0)
16	1.000 (25.4)	1.125 (28.6)
17	1.062 (27.0)	1.188 (30.2)
18	1.125 (28.6)	1.250 (31.8)
20	1.250 (31.8)	1.375 (34.9)
22	1.375 (34.9)	1.500 (38.1)
24	1.500 (38.1)	1.625 (41.3)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.
6. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-074
EMI/RFI Banding Adapter
Direct Coupling - Split Shell

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

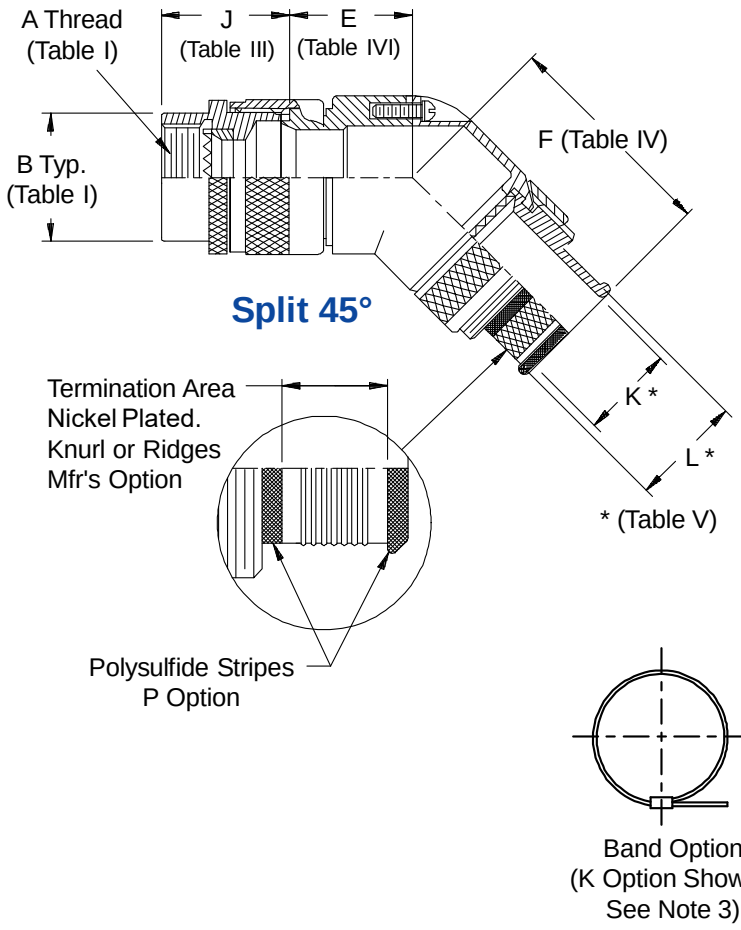
G-H-J-K-L-S

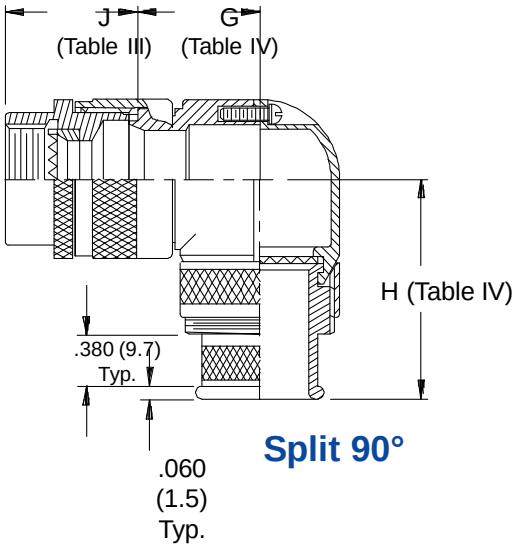
*** Conn. Desig. B See Note 2**

DIRECT COUPLING

440 F D 074 NF 16 12-K P

- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)





Band Option
(K Option Shown -
See Note 3)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
02	.440 (11.2)	1.590 (40.4)	.680 (17.3)	1.530 (38.9)
03	.440 (11.2)	1.590 (40.4)	.680 (17.3)	1.530 (38.9)
04	.440 (11.2)	1.590 (40.4)	.680 (17.3)	1.530 (38.9)
05	.500 (12.7)	1.650 (41.9)	.750 (19.1)	1.590 (40.4)
06	.500 (12.7)	1.650 (41.9)	.750 (19.1)	1.590 (40.4)
07	.560 (14.2)	1.720 (43.7)	.810 (20.6)	1.660 (42.2)
08	.560 (14.2)	1.720 (43.7)	.810 (20.6)	1.660 (42.2)
09	.620 (15.7)	1.750 (44.5)	.870 (22.1)	1.690 (42.9)
10	.680 (17.3)	1.850 (47.0)	.930 (23.6)	1.790 (45.5)
11	.680 (17.3)	1.850 (47.0)	.930 (23.6)	1.790 (45.5)
12	.750 (19.1)	1.910 (48.5)	1.000 (25.4)	1.850 (47.0)
13	.820 (20.8)	1.970 (50.0)	1.060 (26.9)	1.910 (48.5)
14	.820 (20.8)	1.970 (50.0)	1.060 (26.9)	1.910 (48.5)
15	.880 (22.4)	2.030 (51.6)	1.120 (28.4)	1.970 (50.0)
16	.880 (22.4)	2.030 (51.6)	1.120 (28.4)	1.970 (50.0)

TABLE V: CABLE ENTRY

Dash No.	K Dia	L Dia
02	.125 (3.2)	.250 (6.4)
03	.188 (4.8)	.312 (7.9)
04	.250 (6.4)	.375 (9.5)
05	.312 (7.9)	.438 (11.1)
06	.375 (9.5)	.500 (12.7)
07	.438 (11.1)	.562 (14.3)
08	.500 (12.7)	.625 (15.9)
09	.562 (14.3)	.688 (17.5)
10	.625 (15.9)	.750 (19.1)
11	.688 (17.5)	.812 (20.6)
12	.750 (19.1)	.875 (22.2)
13	.812 (20.6)	.938 (23.8)
14	.875 (22.2)	1.000 (25.4)
15	.938 (23.8)	1.062 (27.0)
16	1.000 (25.4)	1.125 (28.6)
17	1.062 (27.0)	1.188 (30.2)
18	1.125 (28.6)	1.250 (31.8)
20	1.250 (31.8)	1.375 (34.9)
22	1.375 (34.9)	1.500 (38.1)
24	1.500 (38.1)	1.625 (41.3)

1. Metric dimensions (mm) are indicated in parentheses.
2. When using Connector Designator B refer to pages 18 and 19 for part number development.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-075
EMI/RFI Banding Adapter
Self-Locking Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

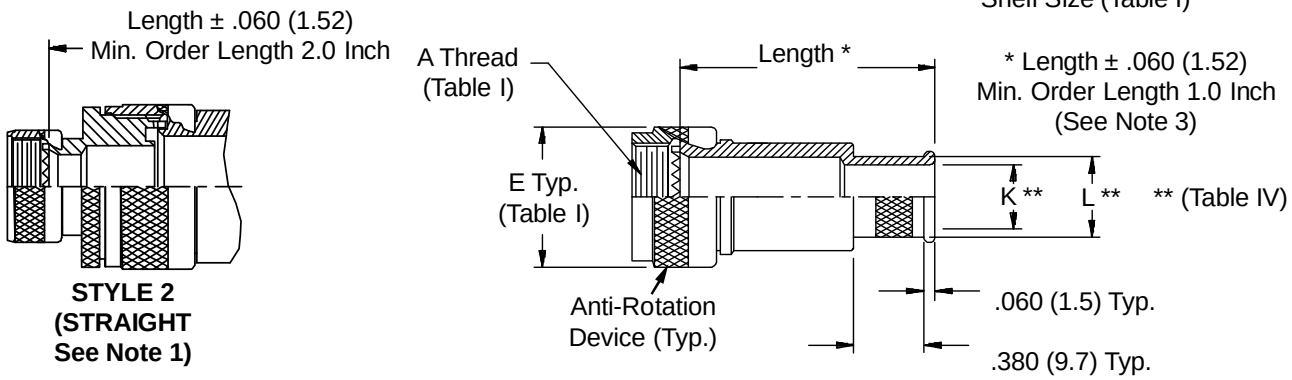
A-F-H-L-S

SELF-LOCKING

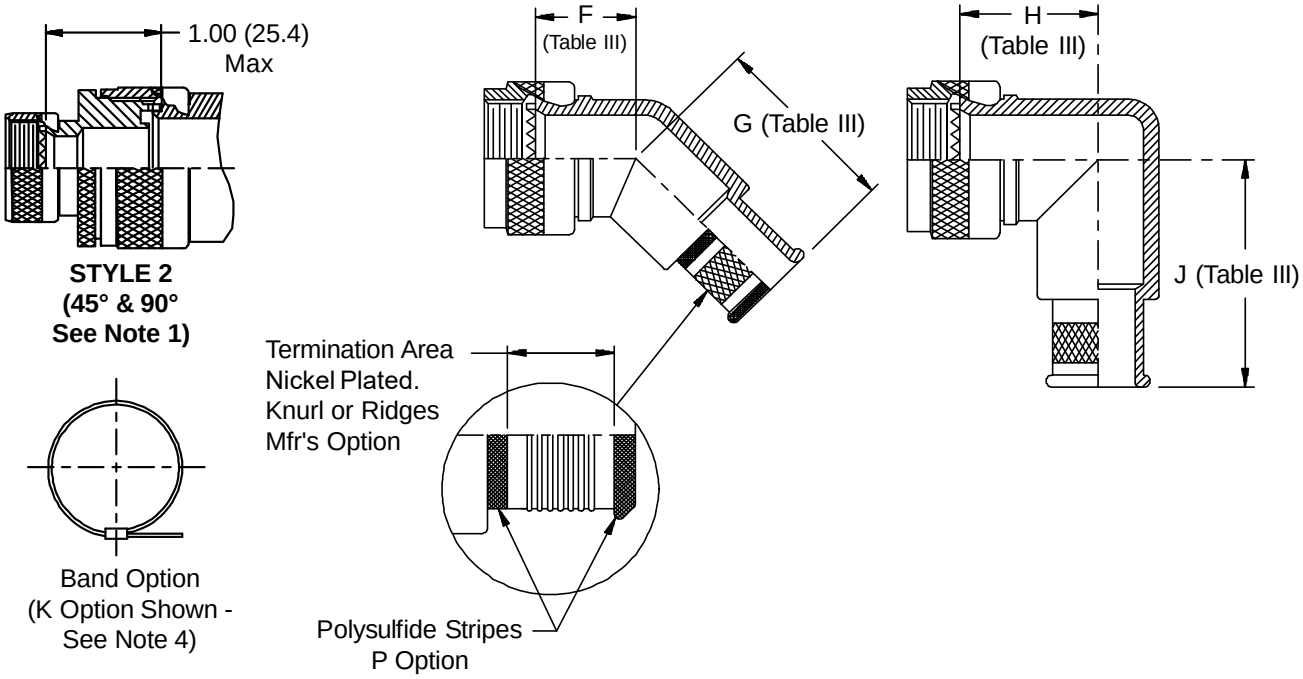
ROTATABLE COUPLING

440 F S 075 NF 16 12-8 K P

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)



STYLE 2
(STRAIGHT
See Note 1)



STYLE 2
(45° & 90°
See Note 1)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
08	09	.795 (20.2)	.890 (22.6)	.906 (23.0)	1.000 (25.4)
10	11	.820 (20.8)	.920 (23.4)	.966 (24.5)	1.060 (26.9)
12	13	.844 (21.4)	.940 (23.9)	1.026 (26.1)	1.120 (28.4)
14	15	.861 (21.9)	.970 (24.6)	1.076 (27.3)	1.190 (30.2)
16	17	.888 (22.6)	.990 (25.1)	1.136 (28.9)	1.250 (31.8)
18	19	.904 (23.0)	1.000 (25.4)	1.176 (29.9)	1.270 (32.3)
20	21	.929 (23.6)	1.020 (25.9)	1.236 (31.4)	1.330 (33.8)
22	23	.956 (24.3)	1.060 (26.9)	1.296 (32.9)	1.410 (35.8)
24	25	.979 (24.9)	1.090 (27.7)	1.356 (34.4)	1.480 (37.6)

TABLE IV: CABLE ENTRY

Dash No.	K Dia	L Dia
02	.125 (3.2)	.250 (6.4)
03	.188 (4.8)	.312 (7.9)
04	.250 (6.4)	.375 (9.5)
05	.312 (7.9)	.438 (11.1)
06	.375 (9.5)	.500 (12.7)
07	.438 (11.1)	.562 (14.3)
08	.500 (12.7)	.625 (15.9)
09	.562 (14.3)	.688 (17.5)
10	.625 (15.9)	.750 (19.1)
11	.688 (17.5)	.812 (20.6)
12	.750 (19.1)	.875 (22.2)
13	.812 (20.6)	.938 (23.8)
14	.875 (22.2)	1.000 (25.4)
15	.938 (23.8)	1.062 (27.0)
16	1.000 (25.4)	1.125 (28.6)
17	1.062 (27.0)	1.188 (30.2)
18	1.125 (28.6)	1.250 (31.8)
20	1.250 (31.8)	1.375 (34.9)
22	1.375 (34.9)	1.500 (38.1)
24	1.500 (38.1)	1.625 (41.3)
26	1.625 (41.3)	1.750 (44.5)
28	1.750 (44.5)	1.875 (47.6)
30	1.875 (47.6)	2.000 (50.8)
32	2.000 (50.8)	2.125 (54.0)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-075
EMI/RFI Banding Adapter
Self-Locking Rotatable Coupling - Full Radius Profile

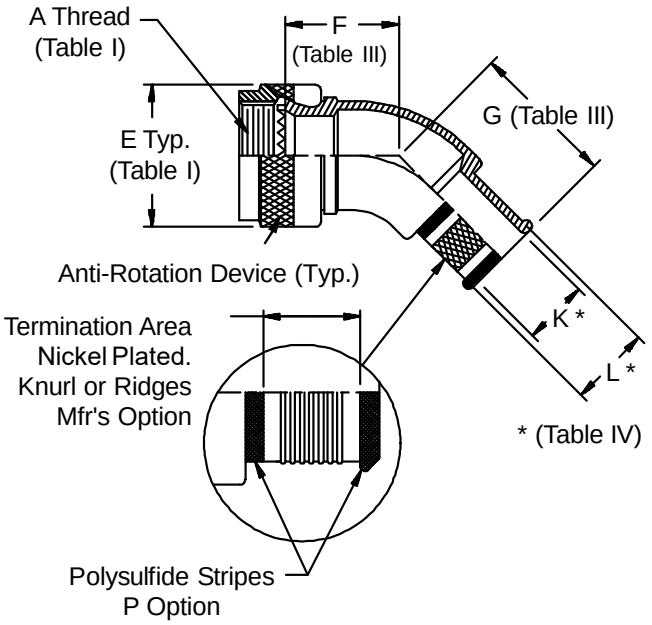
CONNECTOR DESIGNATORS

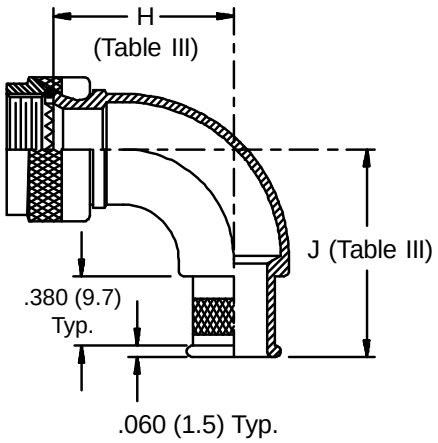
A-F-H-L-S

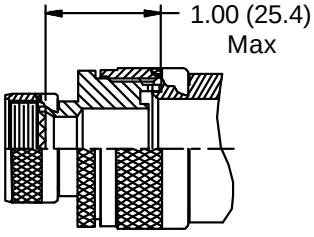
SELF-LOCKING ROTATABLE COUPLING

440 F N 075 NF 16 12 K P

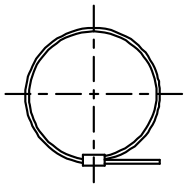
- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 440-54 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)







STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.968	(24.6)	.807	(20.5)	1.281	(32.5)	1.125	(28.6)
10	11	1.031	(26.2)	.861	(21.9)	1.406	(35.7)	1.250	(31.8)
12	13	1.094	(27.8)	.911	(23.1)	1.531	(38.9)	1.375	(34.9)
14	15	1.156	(29.4)	.965	(24.5)	1.656	(42.1)	1.500	(38.1)
16	17	1.219	(31.0)	1.014	(25.8)	1.781	(45.2)	1.625	(41.3)
18	19	1.250	(31.8)	1.064	(27.0)	1.906	(48.4)	1.750	(44.5)
20	21	1.312	(33.3)	1.118	(28.4)	2.031	(51.6)	1.875	(47.6)
22	23	1.344	(34.1)	1.172	(29.8)	2.156	(54.8)	2.000	(50.8)
24	25	1.406	(35.7)	1.221	(31.0)	2.281	(57.9)	2.125	(54.0)

TABLE IV: CABLE ENTRY

Dash No.	K Dia		L Dia	
02	.125	(3.2)	.250	(6.4)
03	.188	(4.8)	.312	(7.9)
04	.250	(6.4)	.375	(9.5)
05	.312	(7.9)	.438	(11.1)
06	.375	(9.5)	.500	(12.7)
07	.438	(11.1)	.562	(14.3)
08	.500	(12.7)	.625	(15.9)
09	.562	(14.3)	.688	(17.5)
10	.625	(15.9)	.750	(19.1)
11	.688	(17.5)	.812	(20.6)
12	.750	(19.1)	.875	(22.2)
13	.812	(20.6)	.938	(23.8)
14	.875	(22.2)	1.000	(25.4)
15	.938	(23.8)	1.062	(27.0)
16	1.000	(25.4)	1.125	(28.6)
17	1.062	(27.0)	1.188	(30.2)
18	1.125	(28.6)	1.250	(31.8)
20	1.250	(31.8)	1.375	(34.9)
22	1.375	(34.9)	1.500	(38.1)
24	1.500	(38.1)	1.625	(41.3)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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440-075
EMI/RFI Banding Adapter
Self-Locking Rotatable Coupling - Split Shell

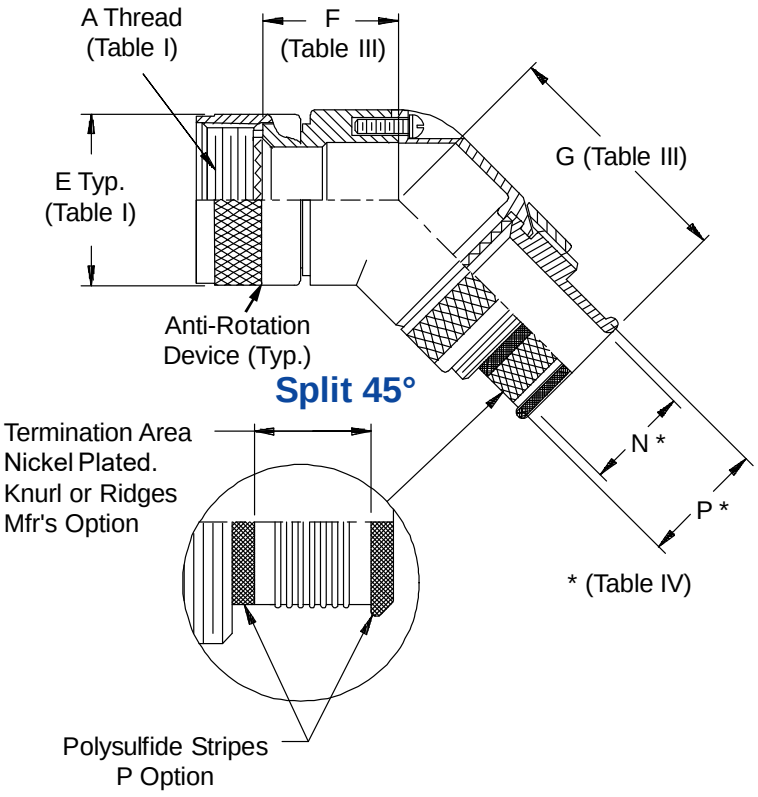
CONNECTOR DESIGNATORS

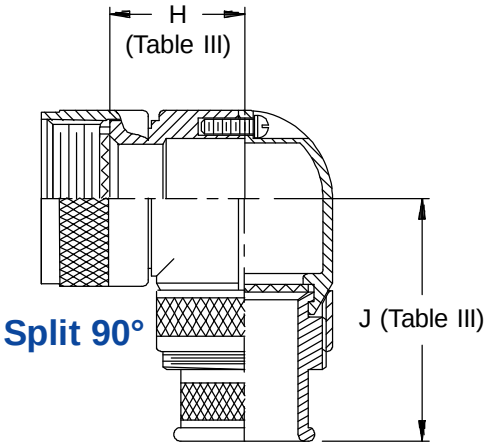
A-F-H-L-S

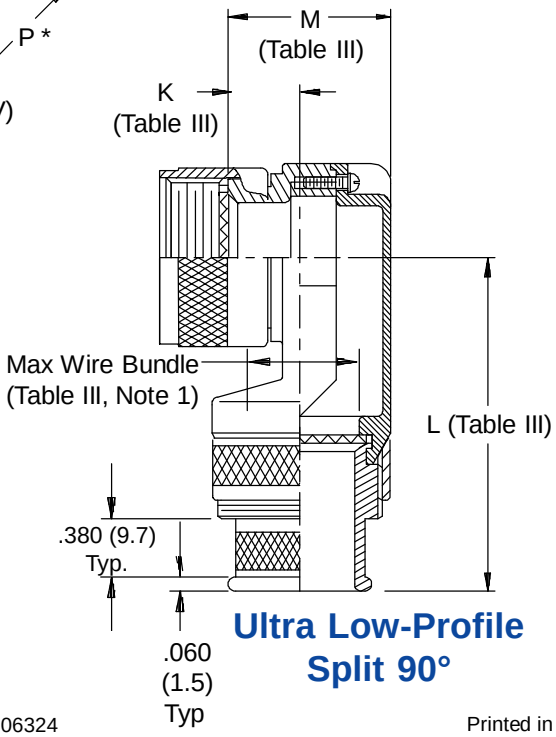
SELF-LOCKING ROTATABLE COUPLING

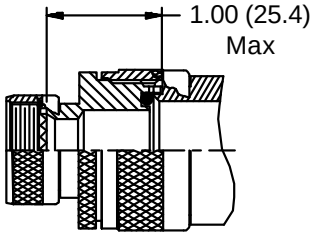
440 F D 075 NF 16 12-K P

- Product Series
- Connector Designator
- Angle and Profile
  - C = Ultra-Low Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)

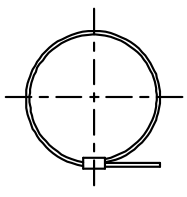








STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	F Max	G Max	H Max	J Max	K Max	L Max	M Max	Max Wire Bundle
08/09	.596 (15.1)	1.590 (40.4)	.836 (21.2)	1.530 (38.9)	.496 (12.6)	1.870 (47.5)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	1.650 (41.9)	.906 (23.0)	1.590 (40.4)	.426 (10.8)	2.030 (51.6)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	1.720 (43.7)	.966 (24.5)	1.660 (42.2)	.426 (10.8)	2.030 (51.6)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	1.750 (44.5)	1.026 (26.1)	1.690 (42.9)	.436 (11.1)	2.100 (53.3)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	1.850 (47.0)	1.086 (27.6)	1.790 (45.5)	.576 (14.6)	2.150 (54.6)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	1.910 (48.5)	1.156 (29.4)	1.850 (47.0)	.796 (20.2)	2.180 (55.4)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	1.970 (50.0)	1.216 (30.9)	1.910 (48.5)	.796 (20.2)	2.180 (55.4)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	2.030 (51.6)	1.276 (32.4)	1.970 (50.0)	.696 (17.7)	2.330 (59.2)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.090 (53.1)	1.336 (33.9)	2.030 (51.6)	.696 (17.7)	2.330 (59.2)	1.337 (34.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	N Dia		P Dia	
02	.125	(3.2)	.250	(6.4)
03	.188	(4.8)	.312	(7.9)
04	.250	(6.4)	.375	(9.5)
05	.312	(7.9)	.438	(11.1)
06	.375	(9.5)	.500	(12.7)
07	.438	(11.1)	.562	(14.3)
08	.500	(12.7)	.625	(15.9)
09	.562	(14.3)	.688	(17.5)
10	.625	(15.9)	.750	(19.1)
11	.688	(17.5)	.812	(20.6)
12	.750	(19.1)	.875	(22.2)
13	.812	(20.6)	.938	(23.8)
14	.875	(22.2)	1.000	(25.4)
15	.938	(23.8)	1.062	(27.0)
16	1.000	(25.4)	1.125	(28.6)
17	1.062	(27.0)	1.188	(30.2)
18	1.125	(28.6)	1.250	(31.8)
20	1.250	(31.8)	1.375	(34.9)
22	1.375	(34.9)	1.500	(38.1)
24	1.500	(38.1)	1.625	(41.3)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available on Function C). Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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Glenair®

440-084
EMI/RFI Tinel-Lock® Ring Adapter
Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

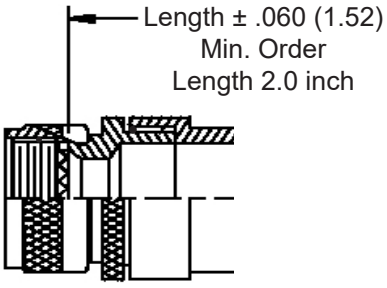
A-F-H-L-S

ROTATABLE COUPLING

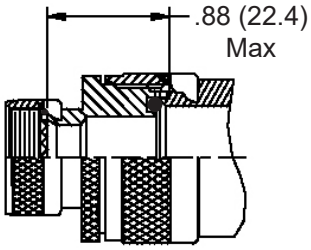
FOR TINEL-LOCK® RING TERMINATIONS

440 F S 084 M 20 12-8 AI T1

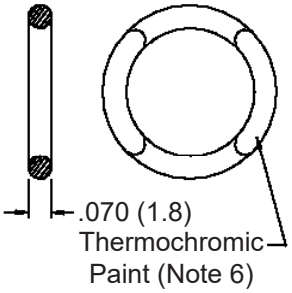
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- Tinel-Lock® Ring Supplied (Table V - Omit for none)
- Shrink Boot Options (Table IV - Omit for none)



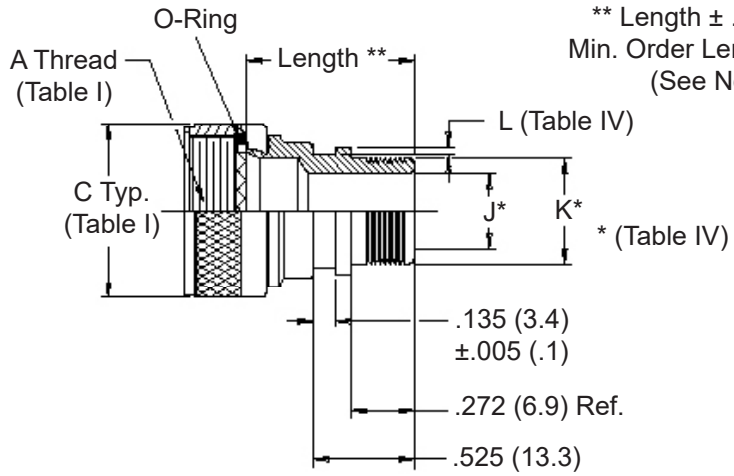
STYLE 2 (STRAIGHT See Note 1)



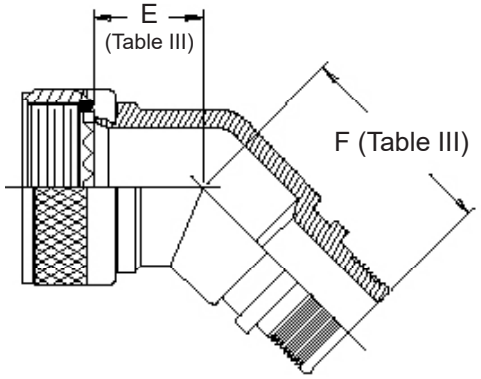
STYLE 2 (45° & 90° See Note 1)

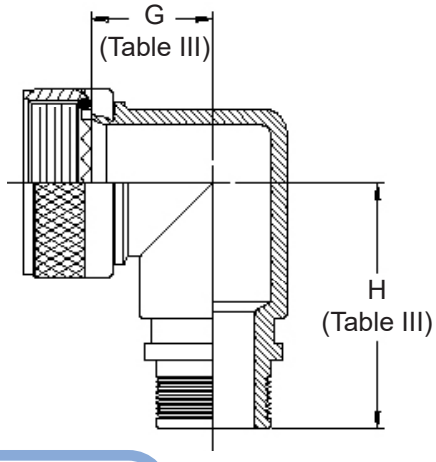


Tinel-Lock® Ring Option (See Table V)



** Length ± .060 (1.52)
Min. Order Length 1.0 inch
(See Note 4)





-445 **Add "-445" to Specify Glenair's Non-Detent, ("NESTOR") Spring-Loaded, Self-Locking Coupling. See Page 41 for Details.**

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
03		.64	(16.3)	.89	(22.6)	.75	(19.1)	1.00	(25.4)
08	09	.64	(16.3)	.89	(22.6)	.75	(19.1)	1.00	(25.4)
10	11	.66	(16.8)	.92	(23.4)	.81	(20.6)	1.06	(26.9)
12	13	.69	(17.5)	.94	(23.9)	.87	(22.1)	1.12	(28.4)
14	15	.71	(18.0)	.97	(24.6)	.92	(23.4)	1.19	(30.2)
16	17	.73	(18.5)	.99	(25.1)	.98	(24.9)	1.25	(31.8)
18	19	.75	(19.1)	1.00	(25.4)	1.02	(25.9)	1.27	(32.3)
20	21	.77	(19.6)	1.02	(25.9)	1.08	(27.4)	1.33	(33.8)
22	23	.80	(20.3)	1.06	(26.9)	1.14	(29.0)	1.41	(35.8)
24	25	.82	(20.8)	1.09	(27.7)	1.20	(30.5)	1.48	(37.6)
28		1.04	(26.4)	1.26	(32.0)	1.48	(37.6)	1.72	(43.7)
32		1.09	(27.7)	1.30	(33.0)	1.61	(40.9)	1.81	(46.0)
36		1.14	(29.0)	1.35	(34.3)	1.72	(43.7)	1.92	(48.8)
40		1.18	(30.0)	1.39	(35.3)	1.83	(46.5)	2.03	(51.6)
44		1.24	(31.5)	1.44	(36.6)	1.95	(49.5)	2.16	(54.9)
48		1.29	(32.8)	1.49	(37.8)	2.08	(52.8)	2.28	(57.9)
61		1.00	(25.4)	1.21	(30.7)	1.39	(35.3)	1.57	(39.9)

TABLE IV: CABLE ENTRY

Dash No.	J I.D.		K Dia Max		L +.008 -.000	(.2) (.0)	Shrink Boot Option T1*	Shrink Boot Option T2*	Tinel-Lock® Ring Entry Size
04	.250	(6.4)	.375	(9.5)	.044	(1.1)	770-001S112W1	770-001S212W1	04
05	.312	(7.9)	.437	(11.1)	.044	(1.1)	770-001S103W1	770-001S203W1	05
06	.375	(9.5)	.500	(12.7)	.044	(1.1)	770-001S103W1	770-001S203W1	06
07	.437	(11.1)	.562	(14.3)	.044	(1.1)	770-001S103W1	770-001S203W1	07
08	.500	(12.7)	.625	(15.9)	.044	(1.1)	770-001S103W1	770-001S203W1	08
10	.625	(15.9)	.750	(19.1)	.044	(1.1)	770-001S104W1	770-001S204W1	10
12	.750	(19.1)	.875	(22.2)	.084	(2.1)	770-001S104W1	770-001S204W1	12
14	.875	(22.2)	1.000	(25.4)	.084	(2.1)	770-001S106W1	770-001S206W1	14
16	1.000	(25.4)	1.125	(28.6)	.084	(2.1)	770-001S106W1	770-001S206W1	16
18	1.125	(28.6)	1.250	(31.8)	.084	(2.1)	770-001S107W1	770-001S207W1	18
20	1.250	(31.8)	1.375	(34.9)	.084	(2.1)	770-001S107W1	770-001S207W1	20
22	1.375	(34.9)	1.500	(38.1)	.084	(2.1)	770-001S108W1	770-001S208W1	22

* T1 Option: Glenair shrink boot supplied with W1 high temperature hot melt adhesive.

** T2 Option: ***This is a halogen-free system***. Glenair shrink boot supplied with W1 high temperature hot melt adhesive.

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, and H will not apply. Please consult factory.
2. Interface O-Ring not supplied with Connector Designator A.
3. Consult factory for shorter lengths on straight backshells.
4. See pages 40 for Shrink Boot Reference Information.
5. The Tinel-Lock® ring designator must be specified according to the type of cable braid used. Tinel-Lock® rings are marked with thermochromic paint which changes color when the correct installation temperature is reached. BI rings are identified with a red spot. CI rings are identified with a blue spot.

TABLE V: TINEL-LOCK® RING

Braid Type	Ring Designator
Single Layer 36 AWG	AI
Single Layer 34 AWG	AI
Single Layer 32 AWG	BI
Single Layer 30 AWG	BI
Double Layer 36 AWG	BI
Double Layer 34 AWG	BI
Double Layer 32 AWG	CI

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440-084
EMI/RFI Tinel-Lock® Ring Adapter
Rotatable Coupling - Split Shell

CONNECTOR DESIGNATORS

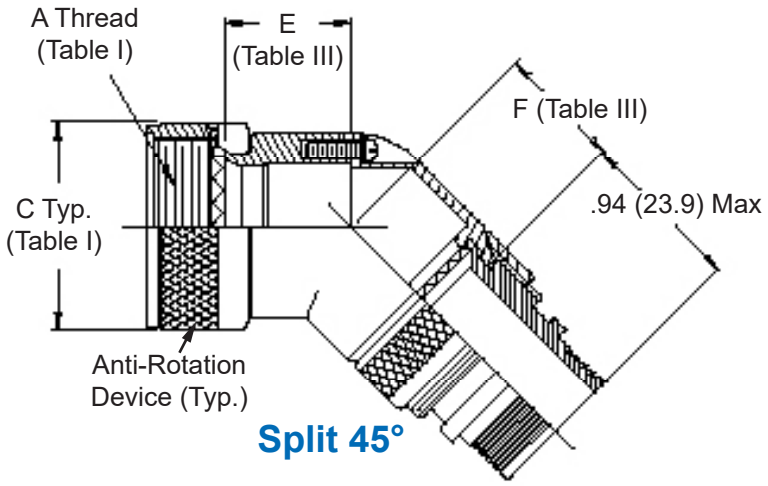
A-F-H-L-S

ROTATABLE COUPLING

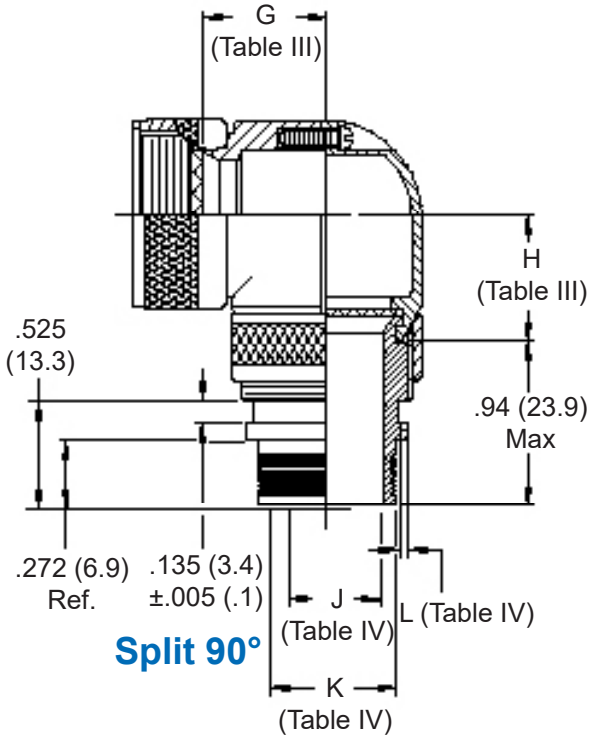
FOR TINEL-LOCK® RING TERMINATIONS

440 F F 084 M 20 12 AI T1

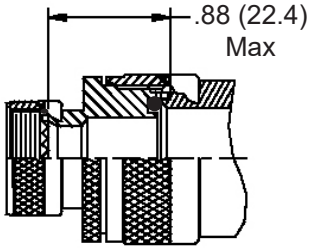
- Product Series
- Connector Designator
- Angle and Profile
  - F = Split 45°
  - D = Split 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Tinel-Lock® Ring Supplied (Table V - Omit for none)
- Shrink Boot Options (Table IV - Omit for none)



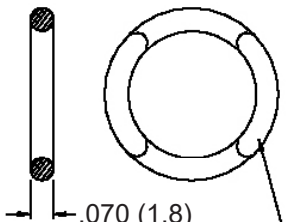
Split 45°



Split 90°



STYLE 2
(45° & 90°
See Note 1)



Tinel-Lock® Ring Option (See Table V)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max	F Max	G Max	H Max
08	09	.664 (16.9)	.62 (15.7)	.684 (17.4)	.56 (14.2)
10	11	.664 (16.9)	.68 (17.3)	.754 (19.2)	.62 (15.7)
12	13	.724 (18.4)	.75 (19.1)	.814 (20.7)	.69 (17.5)
14	15	.784 (19.9)	.78 (19.8)	.874 (22.2)	.72 (18.3)
16	17	.844 (21.4)	.88 (22.4)	.934 (23.7)	.81 (20.6)
18	19	.914 (23.2)	.94 (23.9)	1.004 (25.5)	.87 (22.1)
20	21	.984 (25.0)	1.00 (25.4)	1.064 (27.0)	.94 (23.9)
22	23	1.044 (26.5)	1.06 (26.9)	1.124 (28.5)	1.00 (25.4)
24	25	1.104 (28.0)	1.12 (28.4)	1.184 (30.1)	1.06 (26.9)

TABLE IV: CABLE ENTRY

Dash No.	J I.D.	K Dia Max	L +.008 -.000 (.2) (.0)	Shrink Boot Option T1*	Shrink Boot Option T2*	Tinel-Lock® Ring Entry Size
04	.250 (6.4)	.375 (9.5)	.044 (1.1)	770-001S112W1	770-001S212W1	04
05	.312 (7.9)	.437 (11.1)	.044 (1.1)	770-001S103W1	770-001S203W1	05
06	.375 (9.5)	.500 (12.7)	.044 (1.1)	770-001S103W1	770-001S203W1	06
07	.437 (11.1)	.562 (14.3)	.044 (1.1)	770-001S103W1	770-001S203W1	07
08	.500 (12.7)	.625 (15.9)	.044 (1.1)	770-001S103W1	770-001S203W1	08
10	.625 (15.9)	.750 (19.1)	.044 (1.1)	770-001S104W1	770-001S204W1	10
12	.750 (19.1)	.875 (22.2)	.084 (2.1)	770-001S104W1	770-001S204W1	12
14	.875 (22.2)	1.000 (25.4)	.084 (2.1)	770-001S106W1	770-001S206W1	14
16	1.000 (25.4)	1.125 (28.6)	.084 (2.1)	770-001S106W1	770-001S206W1	16
18	1.125 (28.6)	1.250 (31.8)	.084 (2.1)	770-001S107W1	770-001S207W1	18
20	1.250 (31.8)	1.375 (34.9)	.084 (2.1)	770-001S107W1	770-001S207W1	20

* T1 Option: Glenair shrink boot supplied with W1 high temperature hot melt adhesive.
** T2 Option: ***This is a halogen-free system***. Glenair shrink boot supplied with W1 high temperature hot melt adhesive.

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied.
   Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. See page 40 for Shrink Boot Reference Information.
4. The Tinel-Lock® ring designator must be specified according to the type of cable braid used. Tinel-Lock® rings are marked with thermochromic paint which changes color when the correct installation temperature is reached.
   BI rings are identified with a red spot.

TABLE V: TINEL-LOCK® RING

Braid Type	Ring Designator
Single Layer 36 AWG	AI
Single Layer 34 AWG	AI
Single Layer 32 AWG	BI
Single Layer 30 AWG	BI
Double Layer 36 AWG	BI
Double Layer 34 AWG	BI
Double Layer 32 AWG	CI

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440-085
EMI/RFI Tinel-Lock® Ring Adapter
Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

G-H-J-K-L-S

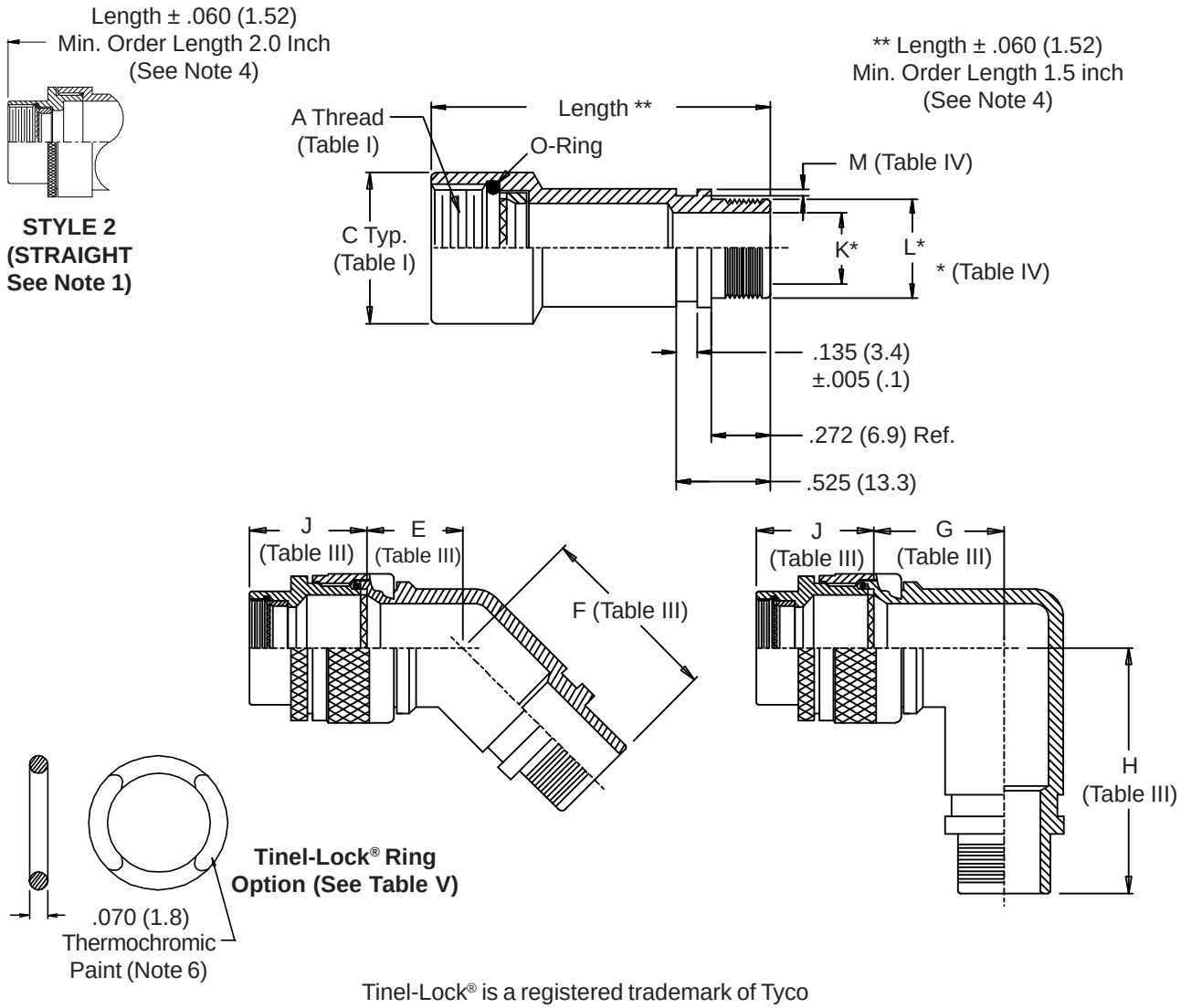
*** Conn. Desig. B See Note 7**

DIRECT COUPLING

FOR TINEL-LOCK® RING TERMINATIONS

440 F S 085 M 20 12-8 AI T1

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- Tinel-Lock® Ring Supplied (Table V - Omit for none)
- Shrink Boot Options (Table IV - Omit for none)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735(44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915(48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915(48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915(48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915(48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915(48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915(48.6)

TABLE IV: ELBOW DIMENSIONS

Dash No.(s)	E Max	F Max	G Max	H Max
04	.64 (16.3)	.89 (22.6)	.75 (19.1)	1.00 (25.4)
05	.66 (16.8)	.92 (23.4)	.81 (20.6)	1.06 (26.9)
06	.66 (16.8)	.92 (23.4)	.81 (20.6)	1.06 (26.9)
07	.69 (17.5)	.94 (23.9)	.87 (22.1)	1.12 (28.4)
08	.69 (17.5)	.94 (23.9)	.87 (22.1)	1.12 (28.4)
10	.73 (18.5)	.99 (25.1)	.98 (24.9)	1.25 (31.8)
12	.75 (19.1)	1.00 (25.4)	1.02 (25.9)	1.27 (32.3)
14	.77 (19.6)	1.02 (25.9)	1.08 (27.4)	1.33 (33.8)
16	.80 (20.3)	1.06 (26.9)	1.14 (29.0)	1.41 (35.8)
18	.82 (20.8)	1.09 (27.7)	1.20 (30.5)	1.48 (37.6)
20	1.04 (26.4)	1.26 (32.0)	1.48 (37.6)	1.72 (43.7)

TABLE V: CABLE ENTRY

Dash No.	K I.D.	L Dia Max	M +.008 -.000 (.2) (.0)	Shrink Boot Option T1*	Shrink Boot Option T2*	Tinel-Lock® Ring Entry Size
04	.250 (6.4)	.375 (9.5)	.044 (1.1)	770-001S112W1	770-001S212W1	04
05	.312 (7.9)	.437 (11.1)	.044 (1.1)	770-001S103W1	770-001S203W1	05
06	.375 (9.5)	.500 (12.7)	.044 (1.1)	770-001S103W1	770-001S203W1	06
07	.437 (11.1)	.562 (14.3)	.044 (1.1)	770-001S103W1	770-001S203W1	07
08	.500 (12.7)	.625 (15.9)	.044 (1.1)	770-001S103W1	770-001S203W1	08
10	.625 (15.9)	.750 (19.1)	.044 (1.1)	770-001S104W1	770-001S204W1	10
12	.750 (19.1)	.875 (22.2)	.069 (1.8)	770-001S104W1	770-001S204W1	12
14	.875 (22.2)	1.000 (25.4)	.069 (1.8)	770-001S106W1	770-001S206W1	14
16	1.000 (25.4)	1.125 (28.6)	.069 (1.8)	770-001S106W1	770-001S206W1	16
18	1.125 (28.6)	1.250 (31.8)	.069 (1.8)	770-001S107W1	770-001S207W1	18
20	1.250 (31.8)	1.375 (34.9)	.069 (1.8)	770-001S107W1	770-001S207W1	20

* T1 Option: Glenair shrink boot supplied with W1 high temperature hot melt adhesive.
** T2 Option: ***This is a halogen-free system***. Glenair shrink boot supplied with W1 high temperature hot melt adhesive.

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Interface O-Ring not supplied with Connector Designator A.
4. Consult factory for shorter lengths on straight backshells.
5. See page 40 for Shrink Boot Reference Information.
6. The Tinel-Lock® ring designator must be specified according to the type of cable braid used. Tinel-Lock® rings are marked with thermochromic paint which changes color when the correct installation temperature is reached. BI rings are identified with a red spot. CI rings are identified with a blue spot.
7. When using Connector Designator B refer to pages 18 and 19 for part number development.

TABLE V: TINEL-LOCK® RING

Braid Type	Ring Designator
Single Layer 36 AWG	AI
Single Layer 34 AWG	AI
Single Layer 32 AWG	BI
Single Layer 30 AWG	BI
Double Layer 36 AWG	BI
Double Layer 34 AWG	BI
Double Layer 32 AWG	CI

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440-086
EMI/RFI Tinel-Lock® Ring Adapter
Self-Locking Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

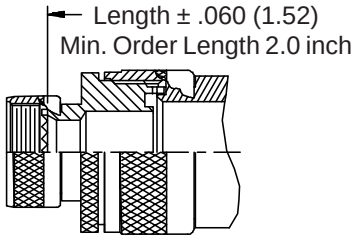
A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

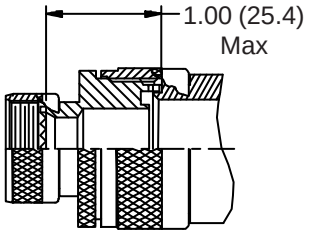
FOR TINEL-LOCK® RING TERMINATIONS

440 F S 086 M 20 12-8 AI T1

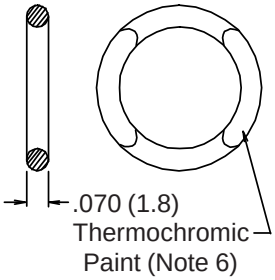
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- Tinel-Lock® Ring Supplied (Table V - Omit for none)
- Shrink Boot Options (Table IV - Omit for none)



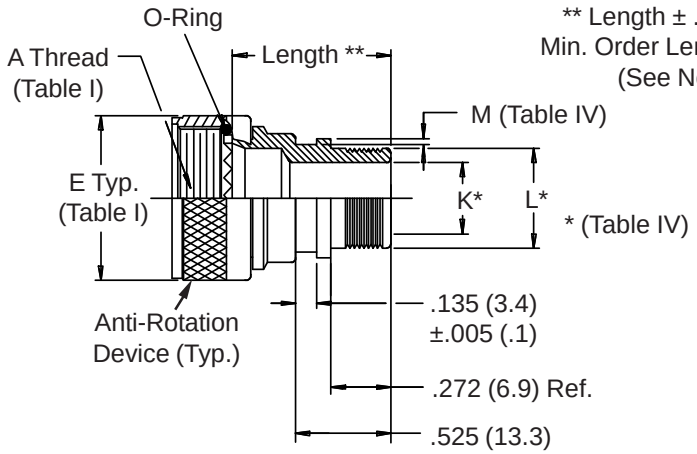
STYLE 2 (STRAIGHT See Note 1)



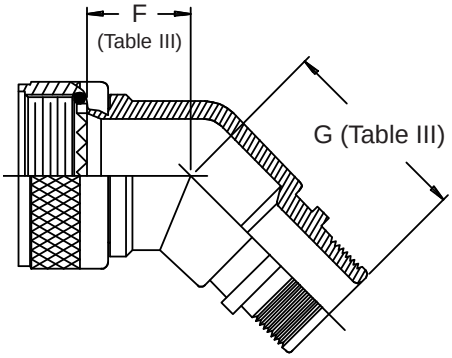
STYLE 2 (45° & 90° See Note 1)

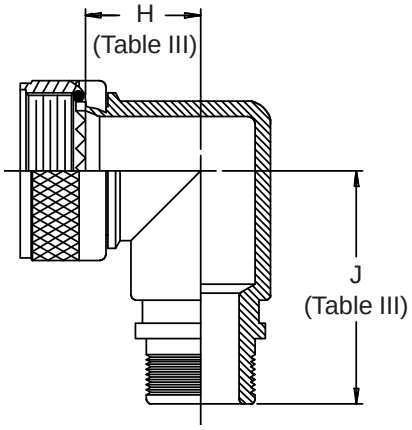


Tinel-Lock® Ring Option (See Table V)



** Length ± .060 (1.52)
Min. Order Length 1.0 inch
(See Note 4)





Note: The Tinel-Lock® ring designator must be specified according to the type of cable braid used. Tinel-Lock® rings are marked with thermochromic paint which changes color when the correct installation temperature is reached. BI rings are identified with a red spot. CI rings are identified with a blue spot.

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
03		.796 (20.2)	.89 (22.6)	.906 (23.0)	1.00 (25.4)
08	09	.796 (20.2)	.89 (22.6)	.906 (23.0)	1.00 (25.4)
10	11	.816 (20.7)	.92 (23.4)	.966 (24.5)	1.06 (26.9)
12	13	.846 (21.5)	.94 (23.9)	1.026 (26.1)	1.12 (28.4)
14	15	.866 (22.0)	.97 (24.6)	1.076 (27.3)	1.19 (30.2)
16	17	.886 (22.5)	.99 (25.1)	1.136 (28.9)	1.25 (31.8)
18	19	.906 (23.0)	1.00 (25.4)	1.176 (29.9)	1.27 (32.3)
20	21	.926 (23.5)	1.02 (25.9)	1.236 (31.4)	1.33 (33.8)
22	23	.956 (24.3)	1.06 (26.9)	1.296 (32.9)	1.41 (35.8)
24	25	.976 (24.8)	1.09 (27.7)	1.356 (34.4)	1.48 (37.6)
28		1.196 (30.4)	1.26 (32.0)	1.636 (41.6)	1.72 (43.7)
32		1.246 (31.6)	1.30 (33.0)	1.766 (44.9)	1.81 (46.0)
36		1.296 (32.9)	1.35 (34.3)	1.876 (47.7)	1.92 (48.8)
40		1.336 (33.9)	1.39 (35.3)	1.986 (50.4)	2.03 (51.6)
44		1.396 (35.5)	1.44 (36.6)	2.106 (53.5)	2.16 (54.9)
48		1.446 (36.7)	1.49 (37.8)	2.236 (56.8)	2.28 (57.9)
61		1.156 (29.4)	1.21 (30.7)	1.546 (39.3)	1.57 (39.9)

TABLE IV: CABLE ENTRY

Dash No.	K I.D.	L Dia Max	M +.008 -.000 (.2) (.0)	Shrink Boot Option T1*	Shrink Boot Option T2**	Tinel-Lock® Ring Entry Size
04	.250 (6.4)	.375 (9.5)	.044 (1.1)	770-001S103W1	770-001S203W1	04
05	.312 (7.9)	.437 (11.1)	.044 (1.1)	770-001S104W1	770-001S204W1	05
06	.375 (9.5)	.500 (12.7)	.044 (1.1)	770-001S104W1	770-001S204W1	06
07	.437 (11.1)	.562 (14.3)	.044 (1.1)	770-001S105W1	770-001S205W1	07
08	.500 (12.7)	.625 (15.9)	.044 (1.1)	770-001S105W1	770-001S205W1	08
10	.625 (15.9)	.750 (19.1)	.044 (1.1)	770-001S106W1	770-001S206W1	10
12	.750 (19.1)	.875 (22.2)	.044 (1.1)	770-001S107W1	770-001S206W1	12
14	.875 (22.2)	1.000 (25.4)	.069 (1.8)	770-001S107W1	770-001S207W1	14
16	1.000 (25.4)	1.125 (28.6)	.069 (1.8)	770-001S107W1	770-001S207W1	16
18	1.125 (28.6)	1.250 (31.8)	.069 (1.8)	770-001S108W1	770-001S208W1	18
20	1.250 (31.8)	1.375 (34.9)	.069 (1.8)	770-001S108W1	770-001S208W1	20

*T1 Option: Glenair shrink boot supplied with W1 high temperature hot melt adhesive.
T2 Option: ***This is a halogen-free system.* Glenair shrink boot supplied with W1 high temperature hot melt adhesive.

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied.
   Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Interface O-Ring not supplied with Connector Designator A.
4. Consult factory for shorter lengths on straight backshells.
5. See pages 40 for Shrink Boot Reference Information.

TABLE V: TINEL-LOCK® RING

Braid Type	Ring Designator
Single Layer 36 AWG	AI
Single Layer 34 AWG	AI
Single Layer 32 AWG	BI
Single Layer 30 AWG	BI
Double Layer 36 AWG	BI
Double Layer 34 AWG	BI
Double Layer 32 AWG	CI

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440-086
EMI/RFI Tinel-Lock® Ring Adapter
Self-Locking Rotatable Coupling - Standard Profile

CONNECTOR DESIGNATORS

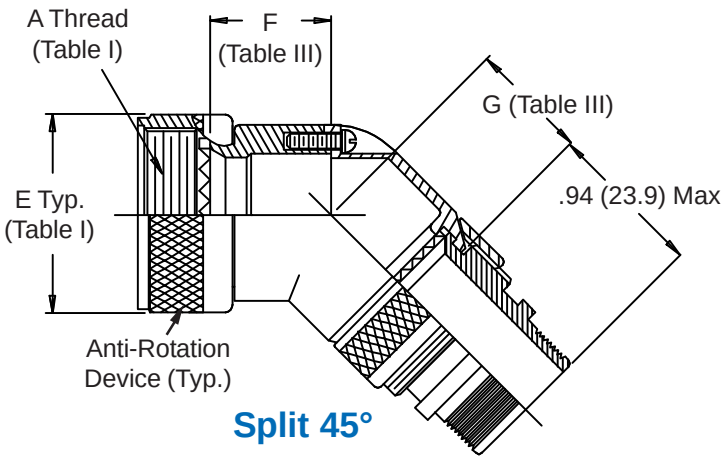
A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

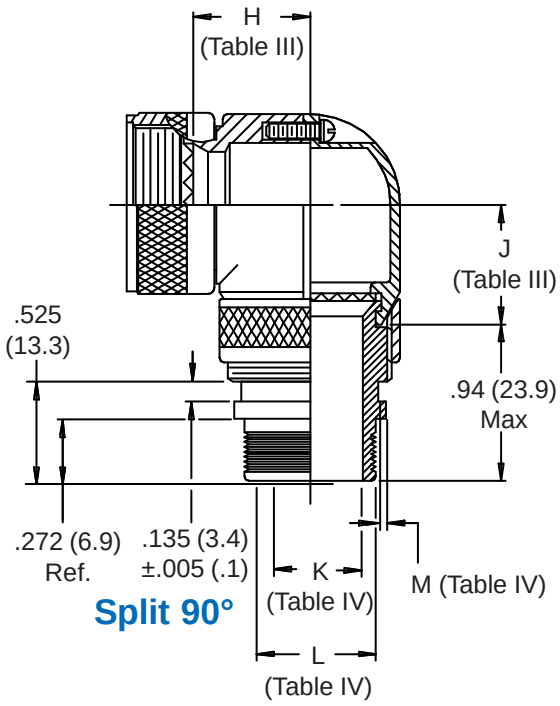
FOR TINEL-LOCK® RING TERMINATIONS

440 F F 086 M 20 12 AI T1

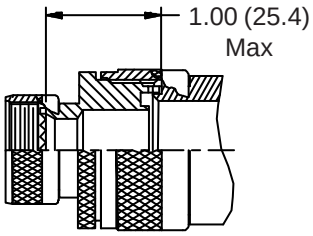
- Product Series
- Connector Designator
- Angle and Profile
  - F = Split 45°
  - D = Split 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Tinel-Lock® Ring Supplied (Table V - Omit for none)
- Shrink Boot Options (Table IV - Omit for none)



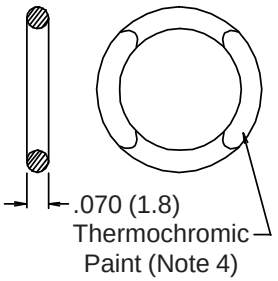
Split 45°



Split 90°



STYLE 2
(45° & 90°
See Note 1)



Tinel-Lock® Ring Option (See Table V)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.82	(20.8)	.62	(15.7)	.84	(21.3)	.56	(14.2)
10	11	.82	(20.8)	.68	(17.3)	.91	(23.1)	.62	(15.7)
12	13	.88	(22.4)	.75	(19.1)	.97	(24.6)	.69	(17.5)
14	15	.94	(23.9)	.78	(19.8)	1.03	(26.2)	.72	(18.3)
16	17	1.00	(25.4)	.88	(22.4)	1.09	(27.7)	.81	(20.6)
18	19	1.07	(27.2)	.94	(23.9)	1.16	(29.5)	.87	(22.1)
20	21	1.14	(29.0)	1.00	(25.4)	1.22	(31.0)	.94	(23.9)
22	23	1.20	(30.5)	1.06	(26.9)	1.28	(32.5)	1.00	(25.4)
24	25	1.26	(32.0)	1.12	(28.4)	1.34	(34.0)	1.06	(26.9)

TABLE IV: CABLE ENTRY

Dash No.	K I.D.		L Dia Max		M +.008 -.000	M (.2) (.0)	Shrink Boot Option T1*	Shrink Boot Option T2**	Tinel-Lock® Ring Entry Size
04	.250	(6.4)	.375	(9.5)	.044	(1.1)	770-001S103W1	770-001S203W1	04
05	.312	(7.9)	.437	(11.1)	.044	(1.1)	770-001S104W1	770-001S204W1	05
06	.375	(9.5)	.500	(12.7)	.044	(1.1)	770-001S104W1	770-001S204W1	06
07	.437	(11.1)	.562	(14.3)	.044	(1.1)	770-001S105W1	770-001S205W1	07
08	.500	(12.7)	.625	(15.9)	.044	(1.1)	770-001S105W1	770-001S205W1	08
10	.625	(15.9)	.750	(19.1)	.044	(1.1)	770-001S106W1	770-001S206W1	10
12	.750	(19.1)	.875	(22.2)	.044	(1.1)	770-001S107W1	770-001S206W1	12
14	.875	(22.2)	1.000	(25.4)	.069	(1.8)	770-001S107W1	770-001S207W1	14
16	1.000	(25.4)	1.125	(28.6)	.069	(1.8)	770-001S107W1	770-001S207W1	16
18	1.125	(28.6)	1.250	(31.8)	.069	(1.8)	770-001S108W1	770-001S208W1	18
20	1.250	(31.8)	1.375	(34.9)	.069	(1.8)	770-001S108W1	770-001S208W1	20

*T1 Option: Glenair shrink boot supplied with W1 high temperature hot melt adhesive.
T2 Option: ***This is a halogen-free system.* Glenair shrink boot supplied with W1 high temperature hot melt adhesive.

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied.
   Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. See pages 40 and 41 for Shrink Boot Reference Information.
4. The Tinel-Lock® ring designator must be specified according to the type of cable braid used. Tinel-Lock® rings are marked with thermochromic paint which changes color when the correct installation temperature is reached.
   BI rings are identified with a red spot.

TABLE V: TINEL-LOCK® RING

Braid Type	Ring Designator
Single Layer 36 AWG	AI
Single Layer 34 AWG	AI
Single Layer 32 AWG	BI
Single Layer 30 AWG	BI
Double Layer 36 AWG	BI
Double Layer 34 AWG	BI
Double Layer 32 AWG	CI

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Series 440 Banding Adapter
Shield Termination Assembly Process

1. Prepare Cable Braid for termination process (Figure 1).
2. Push Braid forward over Adapter Retention Lip to the Adapter Incline Point (or .4" [10.2mm] minimum braid length). Milk Braid as required to remove slack and insure a snug fit around the shield termination area (Figure 2).
3. Prepare the Band in the following manner:

   ***IMPORTANT:* Due to Connector/ Adapter circumference, it may be necessary to prepare the Band around the Cable or Retention Area.**

   A. Roll Band through the Buckle Slot twice. (Bands must be double-coiled.)

   B. Pull on Band until Mark (▷|) is within approximately .250 inch (6.4mm) of Buckle Slot (Figure 3). The Band may be tightened further if desired.

   ***NOTE:* Prepared Band should have (▷|) Mark visible approximately where shown in Figure 3.**

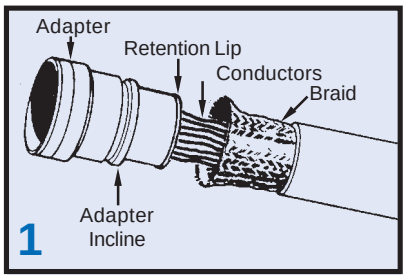
SHIELD TERMINATION CLAMPING PROCESS: (Figures 4 thru 8):

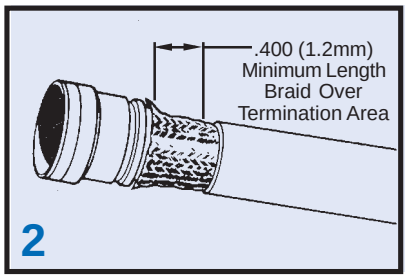
***NOTE:* To free Tool Handles, move Holding Clips to center of Tool.**

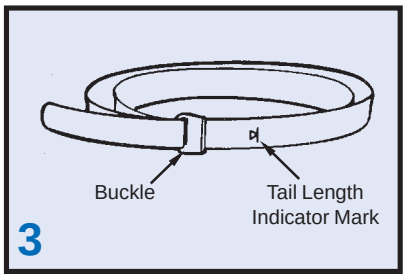
4. Squeeze Gripper Release Lever and insert Band into the front end opening of the Tool. (NOTE: Circular portion of looped band must always face downward.)
5. Aligning the Band and Tool with the Shield Termination Area, squeeze Black Pull-Up Handle repeatedly using short strokes until it locks against Tool Body. (This indicates the Band is compressed to the Tool Precalibrated Tension.)

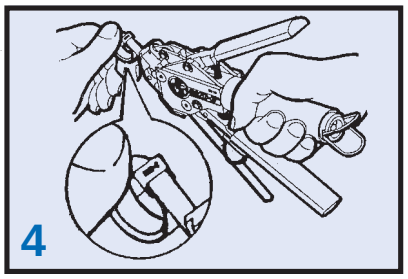
   ***NOTE:* If alignment of band and shield is unsatisfactory, tension on band can be relaxed by pushing on slotted release lever on top of tool. Make adjustments as necessary and again squeeze black pull-up handle..**

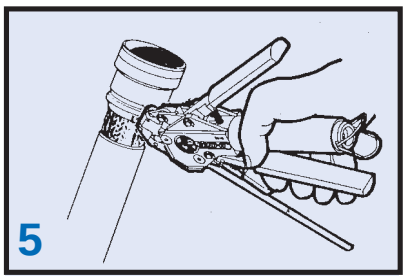
6. Complete the Clamping Process by squeezing the Gray Cut-Off Handle.
7. Remove excess Band from Tool.
8. Inspect Shield Termination.

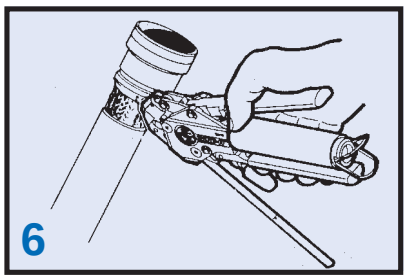


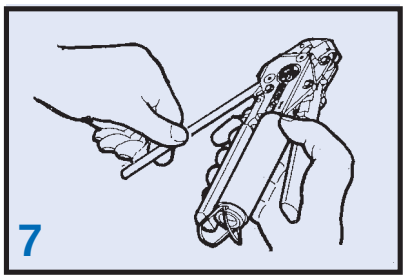


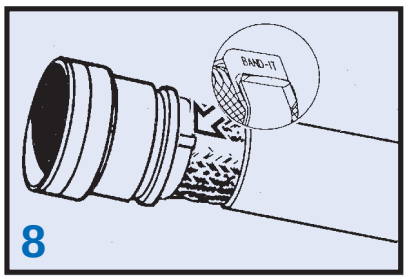












IMPORTANT: Always roll band through the buckle slot twice (see Step 3). Bands must be double-coiled to function correctly. The failure to roll the band through the buckle slot twice is the most common user error in band style terminations.

Metric Dimensions (mm) are indicated in parentheses.

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PRODUCT FEATURES

- Unique EMI/RFI and Environmental Backshell Design Features an Enclosed Banding Porch
- Cable Sealing Immersion Protection to 6 ft.
- Rotatable, Self-Locking and Direct Coupling Styles
- Standard and Full-Radius Designs
- Straight, 45° and 90° Configurations
- Selection of Strain-Relief Styles

The convenience of banding in an environmental backshell

Band-in-a-Can design protects shield termination from handling damage and corrosion

A banding backshell assembly, that utilizes a secondary adapter that covers the banding area, along with providing options for environmental sealing and strain relief. This backshell combines the efficiency and convenience of band style shieled termination with a protective backshell which seals and protects the shield termination area from damage due to rough handling and also provides cable sealing and environmental protection to 6 ft. Recommended for use in harsh application environments where banding is the preferred shield termination technology.

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443-009
Submersible EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Rotatable Coupling - Standard Profile

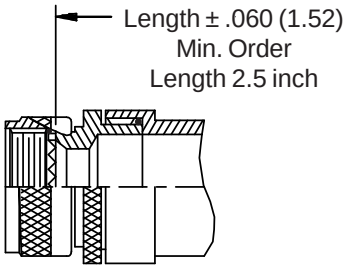
CONNECTOR DESIGNATORS

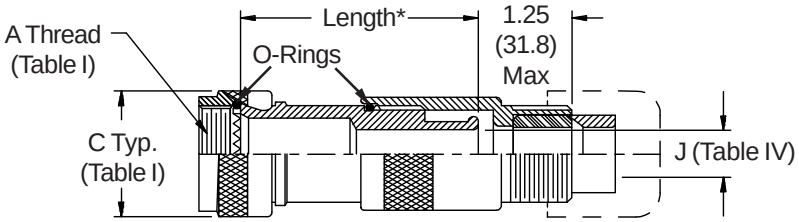
A-F-H-L-S

ROTATABLE COUPLING

443 F S 009 NF 16 12-8 H K P

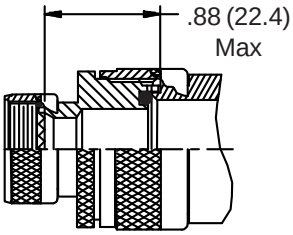
- 443 — Product Series
- F — Connector Designator
- S — Angle and Profile: H = 45°, J = 90°, S = Straight
- 009 — Basic Part No.
- NF — Finish (Table II)
- 16 — Shell Size (Table I)
- 12-8 — Dash No. (Table IV)
- H — Strain Relief Style (H, A, M, D, Tables X & XI)
- K — Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- P — B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)



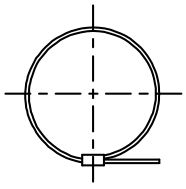


* Length ± .060 (1.52)
Min. Order Length 2.0 inch
(Consult factory for shorter lengths)

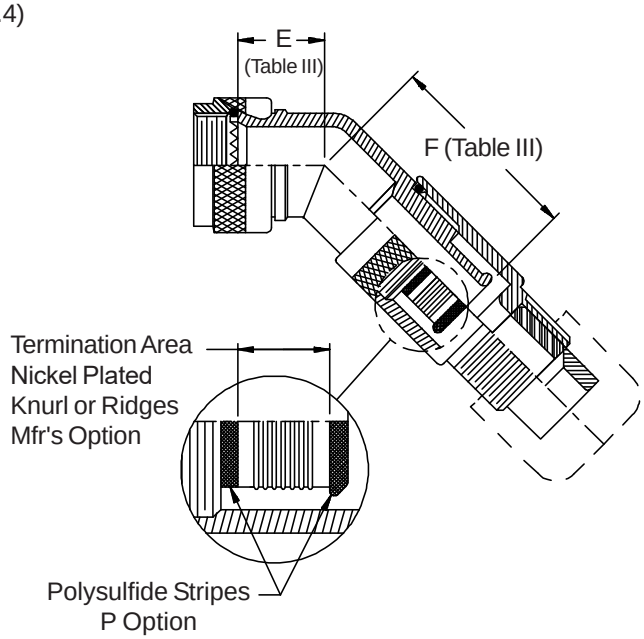
STYLE 2
(STRAIGHT
See Note 1)

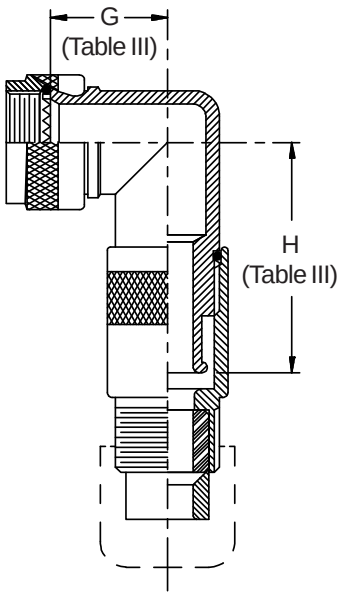


STYLE 2
(45° & 90°
See Note 1)



Band Option
(K Option Shown -
See Note 4)





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443-009
Submersible EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	1.380	(35.1)	.750	(19.1)	1.500	(38.1)
10	11	.664	(16.9)	1.410	(35.8)	.810	(20.6)	1.550	(39.4)
12	13	.688	(17.5)	1.430	(36.3)	.870	(22.1)	1.610	(40.9)
14	15	.705	(17.9)	1.460	(37.1)	.920	(23.4)	1.680	(42.7)
16	17	.732	(18.6)	1.480	(37.6)	.980	(24.9)	1.740	(44.2)
18	19	.748	(19.0)	1.490	(37.8)	1.020	(25.9)	1.760	(44.7)
20	21	.773	(19.6)	1.510	(38.4)	1.080	(27.4)	1.820	(46.2)
22	23	.800	(20.3)	1.550	(39.4)	1.140	(29.0)	1.900	(48.3)
24	25	.823	(20.9)	1.580	(40.1)	1.200	(30.5)	1.970	(50.0)

TABLE IV: CABLE ENTRY

Dash No.	Clamp Size	J Dia	
02	03	.125	(3.2)
03	03	.188	(4.8)
04	03	.250	(6.4)
05	04	.312	(7.9)
06	06	.375	(9.5)
07	06	.438	(11.1)
08	08	.500	(12.7)
09	10	.562	(14.3)
10	10	.625	(15.9)
11	12	.688	(17.5)
12	12	.750	(19.1)
13	16	.812	(20.6)
14	16	.875	(22.2)
15	16	.938	(23.8)
16	20	1.000	(25.4)
17	20	1.062	(27.0)
18	20	1.125	(28.6)
20	20	1.250	(31.8)
22	24	1.375	(34.9)
24	28	1.500	(38.1)

TABLE X: CABLE ENTRY

Clamp Size	T Max		V Max		Cable Range Min		Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)

TABLE XI: CABLE ENTRY

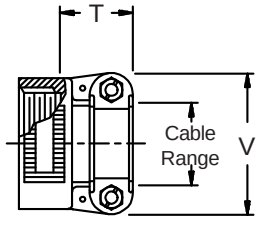
Clamp Size	W Max		X Max		Y Max		Z Max		Cable Range Min **		Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)

* Not available in Style M clamp.

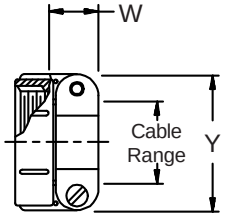
** Not Applicable Style D

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. O-Ring not supplied with Connector Designator A.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

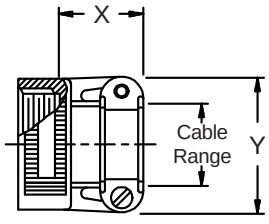
STYLE H
Heavy Duty (Table X)



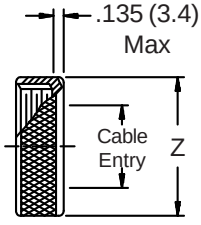
STYLE A
Medium Duty (Table XI)



STYLE M
Medium Duty (Table XI)



STYLE D
Medium Duty (Table XI)



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Submersible EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Direct Coupling - Full Radius Profile

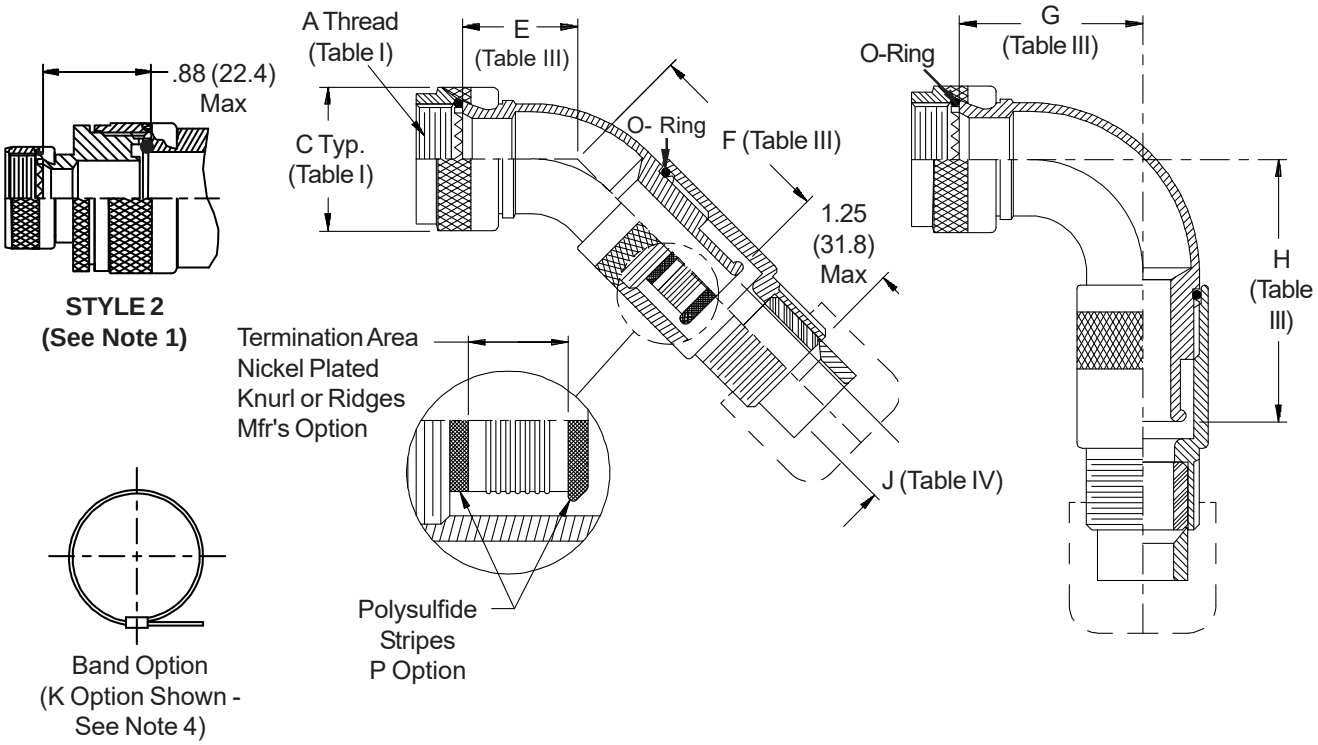
CONNECTOR DESIGNATORS

A-F-H-L-S

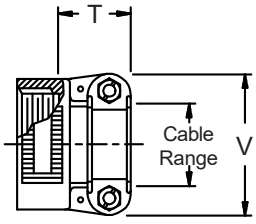
ROTATABLE COUPLING

443 F N 009 NF 16 12 H K P

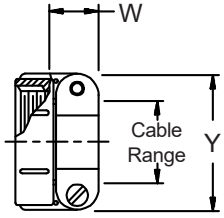
- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 443-2 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Dash No. (Table IV)
- Strain Relief Style (H, A, M, D, Tables X, & XI)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)



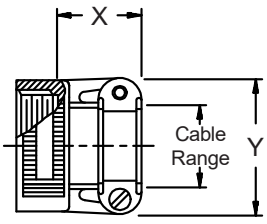
STYLE H
Heavy Duty (Table X)



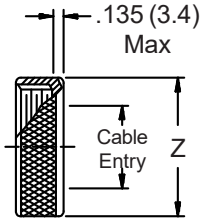
STYLE A
Medium Duty (Table XI)



STYLE M
Medium Duty (Table XI)



STYLE D
Medium Duty (Table XI)



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443-009
Submersible EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Direct Coupling - Full Radius Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.817	(20.8)	1.057	(26.8)	1.125	(28.6)	1.375	(34.9)
10	11	.861	(21.9)	1.111	(28.2)	1.250	(31.8)	1.500	(38.1)
12	13	.911	(23.1)	1.161	(29.5)	1.375	(34.9)	1.625	(41.3)
14	15	.965	(24.5)	1.215	(30.9)	1.500	(38.1)	1.750	(44.5)
16	17	1.014	(25.8)	1.264	(32.1)	1.625	(41.3)	1.875	(47.6)
18	19	1.064	(27.0)	1.314	(33.4)	1.750	(44.5)	2.000	(50.8)
20	21	1.118	(28.4)	1.368	(34.7)	1.875	(47.6)	2.125	(54.0)
22	23	1.172	(29.8)	1.422	(36.1)	2.000	(50.8)	2.250	(57.2)
24	25	1.221	(31.0)	1.471	(37.4)	2.125	(54.0)	2.375	(60.3)

TABLE IV: CABLE ENTRY

Dash No.	Clamp Size	J Dia	
02	03	.125	(3.2)
03	03	.188	(4.8)
04	03	.250	(6.4)
05	04	.312	(7.9)
06	06	.375	(9.5)
07	06	.438	(11.1)
08	08	.500	(12.7)
09	10	.562	(14.3)
10	10	.625	(15.9)
11	12	.688	(17.5)
12	12	.750	(19.1)
13	16	.812	(20.6)
14	16	.875	(22.2)
15	16	.938	(23.8)
16	20	1.000	(25.4)
17	20	1.062	(27.0)
18	20	1.125	(28.6)
20	20	1.250	(31.8)
22	24	1.375	(34.9)
24	28	1.500	(38.1)

TABLE X: CABLE ENTRY

Clamp Size	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)

TABLE XI: CABLE ENTRY

Clamp Size	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)

* Not available in Style M clamp.

** Not Applicable Style D

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. O-Ring not supplied with Connector Designator A.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

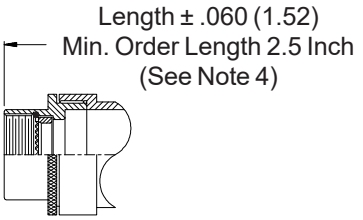
G-H-J-K-L-S

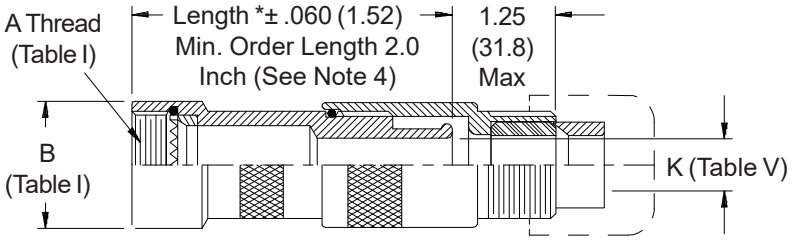
*** Conn. Desig. B See Note 5**

DIRECT COUPLING

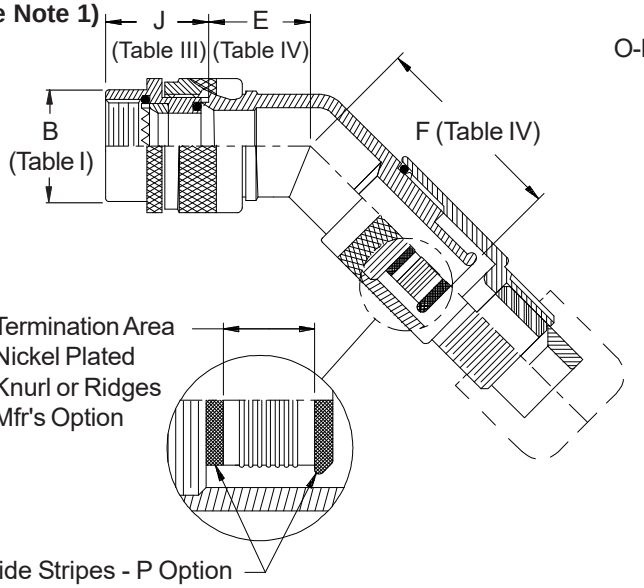
443 F S 010 NF 16 12-8 H K P

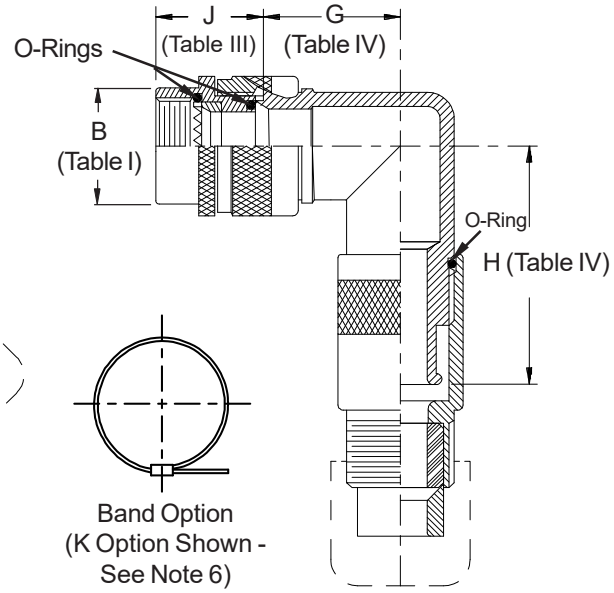
- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Dash No. (Table V)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- Strain Relief Style (H, A, M, D, Tables X & XI)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)



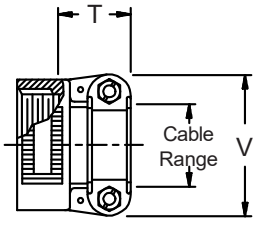


STYLE 2 (STRAIGHT See Note 1)

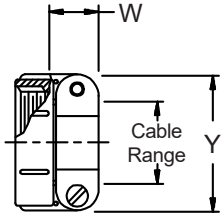




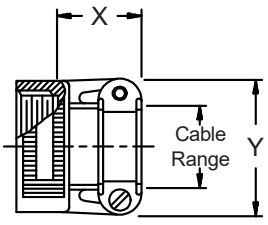
STYLE H
Heavy Duty (Table X)



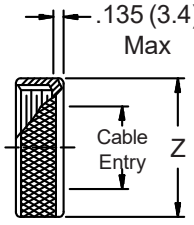
STYLE A
Medium Duty (Table XI)



STYLE M
Medium Duty (Table XI)



STYLE D
Medium Duty (Table XI)



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EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Direct Coupling - Standard Profile

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
04	.664 (16.9)	1.410 (35.8)	.810 (20.6)	1.550 (39.4)
06	.688 (17.5)	1.430 (36.3)	.870 (22.1)	1.610 (40.9)
08	.688 (17.5)	1.430 (36.3)	.870 (22.1)	1.610 (40.9)
10	.732 (18.6)	1.480 (37.6)	.980 (24.9)	1.740 (44.2)
12	.748 (19.0)	1.490 (37.8)	1.020 (25.9)	1.760 (44.7)
16	.773 (19.6)	1.510 (38.4)	1.080 (27.4)	1.820 (46.2)
20	1.041 (26.4)	1.750 (44.5)	1.480 (37.6)	2.210 (56.1)
24	1.041 (26.4)	1.750 (44.5)	1.480 (37.6)	2.210 (56.1)
28	1.092 (27.7)	1.790 (45.5)	1.610 (40.9)	2.300 (58.4)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE V: CABLE ENTRY

Dash No.	Clamp Size	K Dia
02	03	.125 (3.2)
03	03	.188 (4.8)
04	03	.250 (6.4)
05	04	.312 (7.9)
06	06	.375 (9.5)
07	06	.438 (11.1)
08	08	.500 (12.7)
09	10	.562 (14.3)
10	10	.625 (15.9)
11	12	.688 (17.5)
12	12	.750 (19.1)
13	16	.812 (20.6)
14	16	.875 (22.2)
15	16	.938 (23.8)
16	20	1.000 (25.4)
17	20	1.062 (27.0)
18	20	1.125 (28.6)
20	20	1.250 (31.8)
22	24	1.375 (34.9)
24	28	1.500 (38.1)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
4. Consult factory for shorter lengths on straight backshells.
5. When using Connector Designator B refer to pages 18 and 19 for part number development.
6. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

TABLE X: CABLE ENTRY

Clamp Size	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)

TABLE XI: CABLE ENTRY

Clamp Size	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)

* Not available in Style M clamp.

** Not Applicable Style D

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CAGE Code 06324

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443-010
EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Direct Coupling - Full Radius Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

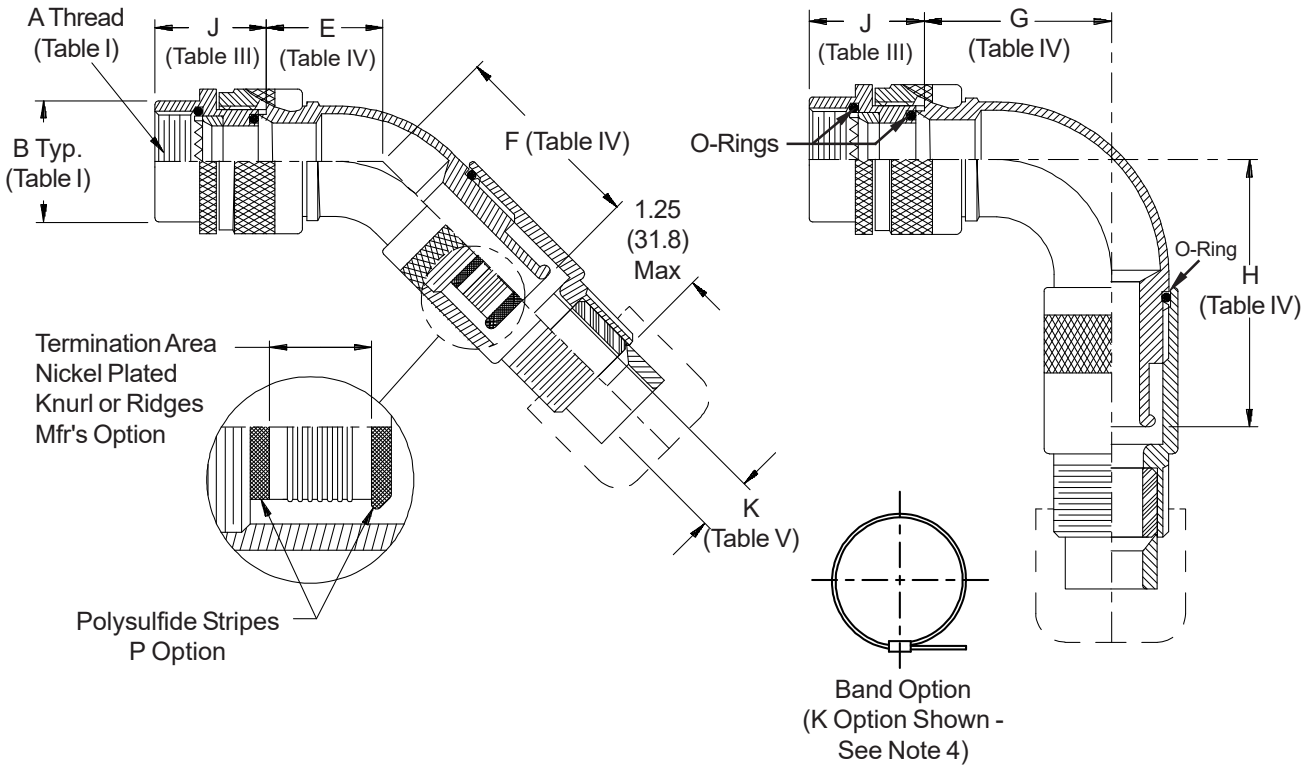
G-H-J-K-L-S

*** Conn. Desig. B See Note 3**

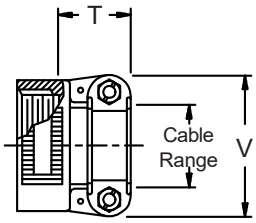
DIRECT COUPLING

443 F N 010 NF 16 12 H K P

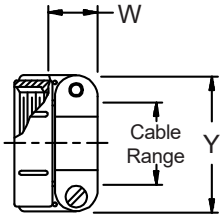
- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See 443-6 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Dash No. (Tables V)
- Strain Relief Style (H, A, M, D, Tables X & XI)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)



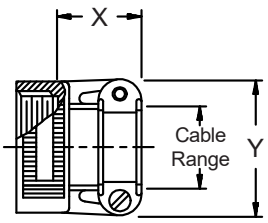
STYLE H
Heavy Duty (Table X)



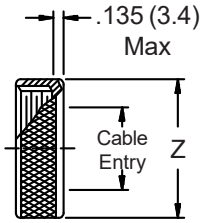
STYLE A
Medium Duty (Table XI)



STYLE M
Medium Duty (Table XI)



STYLE D
Medium Duty (Table XI)



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443-010
EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Direct Coupling - Full Radius Profile

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
04	.875 (22.2)	1.100 (27.9)	1.250 (31.8)	1.505 (38.2)
06	.938 (23.8)	1.160 (29.5)	1.375 (34.9)	1.625 (41.3)
08	.938 (23.8)	1.160 (29.5)	1.375 (34.9)	1.625 (41.3)
10	1.062 (27.0)	1.290 (32.8)	1.625 (41.3)	1.875 (47.6)
12	1.094 (27.8)	1.350 (34.3)	1.750 (44.5)	1.995 (50.7)
16	1.156 (29.4)	1.410 (35.8)	1.875 (47.6)	2.125 (54.0)
20	1.570 (39.9)	1.820 (46.2)	2.765 (70.2)	2.500 (63.5)
24	1.570 (39.9)	1.820 (46.2)	2.765 (70.2)	2.500 (63.5)
28	1.820 (46.2)	2.070 (52.6)	3.225 (81.9)	2.620 (66.5)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE V: CABLE ENTRY

Dash No.	Clamp Size	K Dia
05	04	.312 (7.9)
06	06	.375 (9.5)
07	06	.438 (11.1)
08	08	.500 (12.7)
09	10	.562 (14.3)
10	10	.625 (15.9)
11	12	.688 (17.5)
12	12	.750 (19.1)
13	16	.812 (20.6)
14	16	.875 (22.2)
15	16	.938 (23.8)
16	20	1.000 (25.4)
17	20	1.062 (27.0)
18	20	1.125 (28.6)
20	20	1.250 (31.8)
22	24	1.375 (34.9)
24	28	1.500 (38.1)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. When using Connector Designator B refer to pages 18 and 19 for part number development.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

TABLE X: CABLE ENTRY

Clamp Size	T Max	V Max	Cable Range Min	Cable Range Max
04	.780 (19.8)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	.780 (19.8)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	.780 (19.8)	1.332 (33.8)	.387 (9.8)	.562 (14.3)
10	.780 (19.8)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	.811 (20.6)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	.905 (23.0)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.092 (27.7)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.124 (28.5)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.399 (35.5)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)

TABLE XI: CABLE ENTRY

Clamp Size	W Max	X Max	Y Max	Z Max	Cable Range Min **	Cable Range Max
03*	.437 (11.1)	.760 (19.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.437 (11.1)	.760 (19.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.500 (12.7)	.760 (19.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.563 (14.3)	.760 (19.3)	1.187 (30.1)	1.067 (27.1)	.387 (9.8)	.562 (14.3)
10	.563 (14.3)	.760 (19.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.563 (14.3)	.760 (19.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	.656 (16.7)	1.073 (27.3)	1.719 (43.7)	1.535 (39.0)	.625 (15.9)	.938 (23.8)
20	.656 (16.7)	1.323 (33.6)	2.062 (52.4)	1.848 (46.9)	.875 (22.2)	1.250 (31.8)
24	.656 (16.7)	1.323 (33.6)	2.312 (58.7)	2.255 (57.3)	1.000 (25.4)	1.375 (34.9)
28	1.188 (30.2)	1.572 (39.9)	2.719 (69.1)	2.505 (63.6)	1.250 (31.8)	1.625 (41.3)

* Not available in Style M clamp.

** Not Applicable Style D

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CAGE Code 06324

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443-011
-EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Self-Locking Rotatable Coupling - Standard Profile

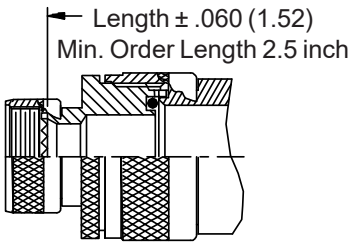
CONNECTOR DESIGNATORS

A-F-H-L-S

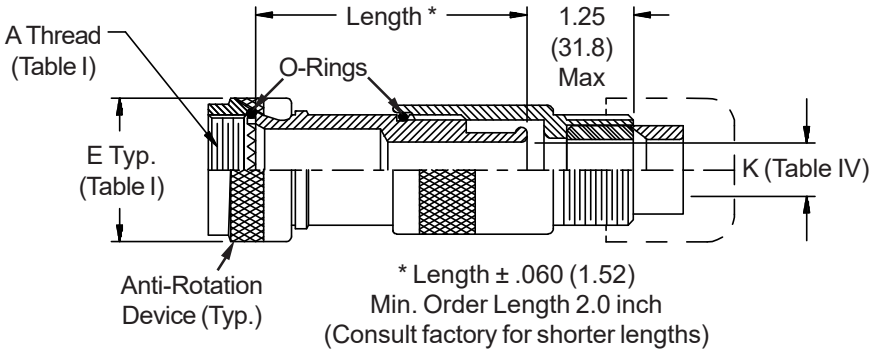
SELF-LOCKING ROTATABLE COUPLING

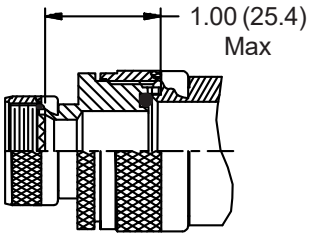
443 F S 011 NF 16 12-8 H K P

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Dash No. (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- Strain Relief Style (H, A, M, D, Tables X &XI)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)

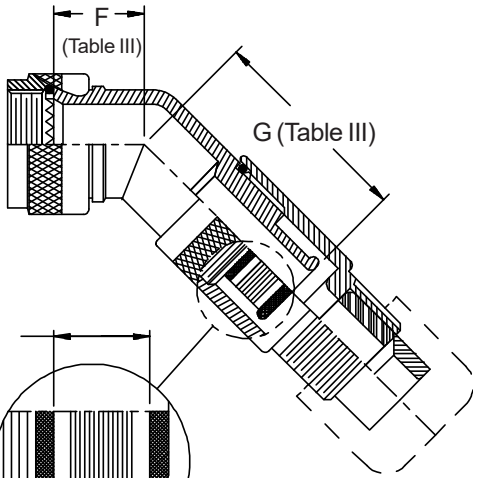


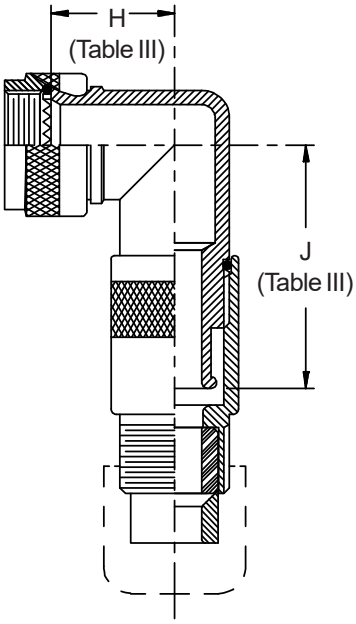
STYLE 2 (STRAIGHT See Note 1)

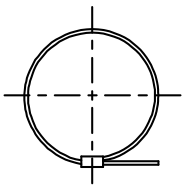




STYLE 2 (45° & 90° See Note 1)







Band Option (K Option Shown - See Note 4)

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443-011
EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Self-Locking Rotatable Coupling - Standard Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	1.380	(35.1)	.906	(23.0)	1.500	(38.1)
10	11	.820	(20.8)	1.410	(35.8)	.966	(24.5)	1.550	(39.4)
12	13	.844	(21.4)	1.430	(36.3)	1.026	(26.1)	1.610	(40.9)
14	15	.861	(21.9)	1.460	(37.1)	1.076	(27.3)	1.680	(42.7)
16	17	.888	(22.6)	1.480	(37.6)	1.136	(28.9)	1.740	(44.2)
18	19	.904	(23.0)	1.490	(37.8)	1.176	(29.9)	1.760	(44.7)
20	21	.929	(23.6)	1.510	(38.4)	1.236	(31.4)	1.820	(46.2)
22	23	.956	(24.3)	1.550	(39.4)	1.296	(32.9)	1.900	(48.3)
24	25	.979	(24.9)	1.580	(40.1)	1.356	(34.4)	1.970	(50.0)

TABLE IV: CABLE ENTRY

Dash No.	Clamp Size	K Dia	
02	03	.125	(3.2)
03	03	.188	(4.8)
04	03	.250	(6.4)
05	04	.312	(7.9)
06	06	.375	(9.5)
07	06	.438	(11.1)
08	08	.500	(12.7)
09	10	.562	(14.3)
10	10	.625	(15.9)
11	12	.688	(17.5)
12	12	.750	(19.1)
13	16	.812	(20.6)
14	16	.875	(22.2)
15	16	.938	(23.8)
16	20	1.000	(25.4)
17	20	1.062	(27.0)
18	20	1.125	(28.6)
20	20	1.250	(31.8)
22	24	1.375	(34.9)
24	28	1.500	(38.1)

TABLE X: CABLE ENTRY

Clamp Size	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)

TABLE XI: CABLE ENTRY

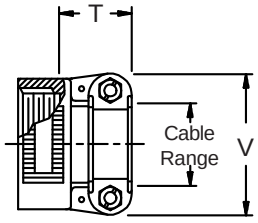
Clamp Size	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)

* Not available in Style M clamp.

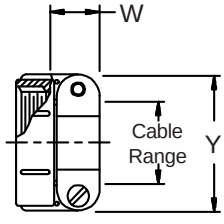
** Not Applicable Style D

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. O-Ring not supplied with Connector Designator A.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

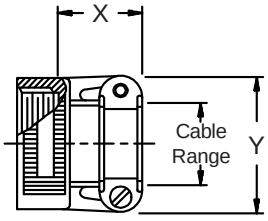
STYLE H
Heavy Duty (Table X)



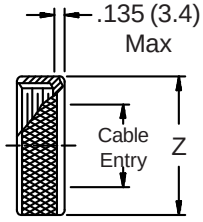
STYLE A
Medium Duty (Table XI)



STYLE M
Medium Duty (Table XI)



STYLE D
Medium Duty (Table XI)



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443-011
EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Self-Locking Rotatable Coupling - Full Radius Profile

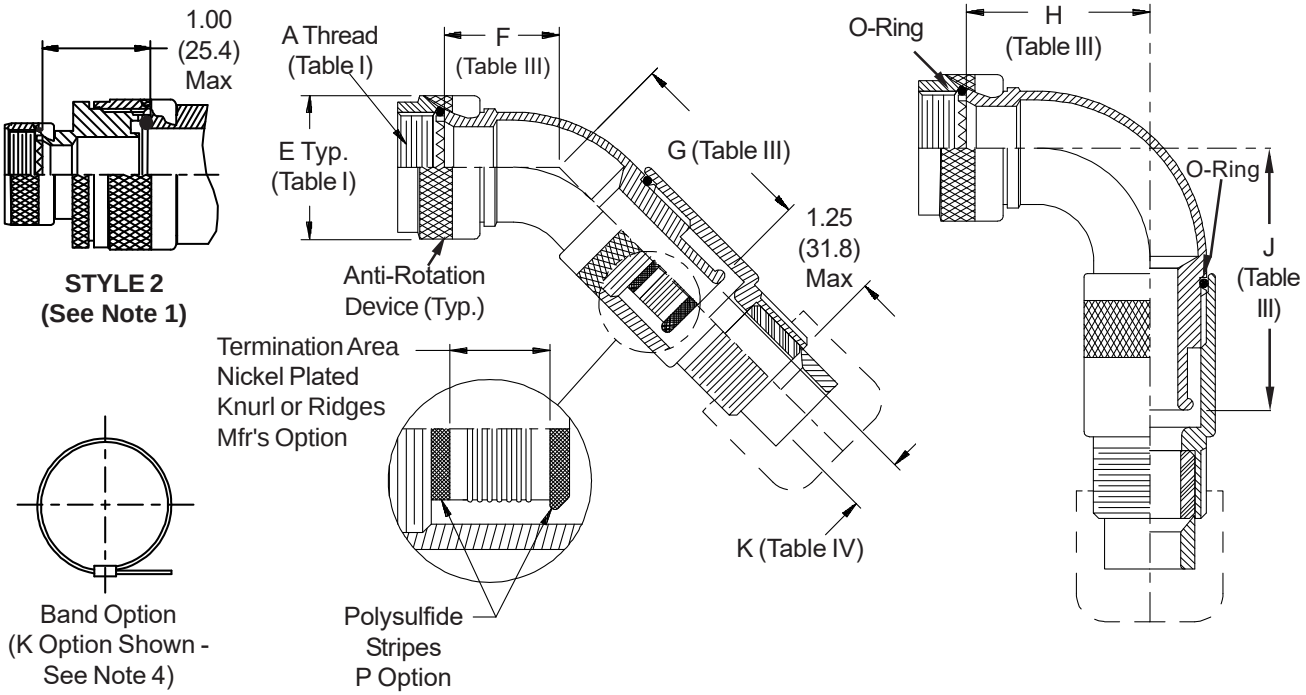
CONNECTOR DESIGNATORS

A-F-H-L-S

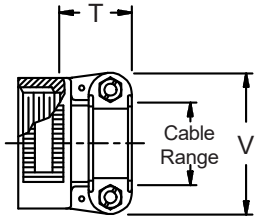
SELF-LOCKING ROTATABLE COUPLING

443 F N 011 NF 16 12 H K P

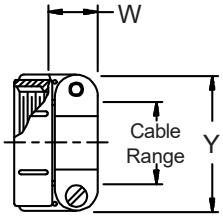
- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See page 443-10 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Dash No. (Table IV)
- Strain Relief Style (H, A, M, D, Tables X & XI)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)



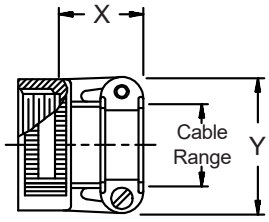
STYLE H
Heavy Duty (Table X)



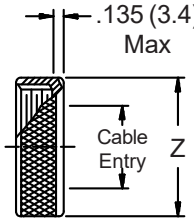
STYLE A
Medium Duty (Table XI)



STYLE M
Medium Duty (Table XI)



STYLE D
Medium Duty (Table XI)



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443-011
EMI/RFI Cable Sealing Backshell
Band-in-a-Can with Strain-Relief
Self-Locking Rotatable Coupling - Full Radius Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.968	(24.6)	1.057	(26.8)	1.281	(32.5)	1.375	(34.9)
10	11	1.031	(26.2)	1.111	(28.2)	1.406	(35.7)	1.500	(38.1)
12	13	1.094	(27.8)	1.161	(29.5)	1.531	(38.9)	1.625	(41.3)
14	15	1.156	(29.4)	1.215	(30.9)	1.656	(42.1)	1.750	(44.5)
16	17	1.219	(31.0)	1.264	(32.1)	1.781	(45.2)	1.875	(47.6)
18	19	1.250	(31.8)	1.314	(33.4)	1.906	(48.4)	2.000	(50.8)
20	21	1.312	(33.3)	1.368	(34.7)	2.031	(51.6)	2.125	(54.0)
22	23	1.344	(34.1)	1.422	(36.1)	2.156	(54.8)	2.250	(57.2)
24	25	1.406	(35.7)	1.471	(37.4)	2.281	(57.9)	2.375	(60.3)

TABLE IV: CABLE ENTRY

Dash No.	Clamp Size	K Dia	
02	03	.125	(3.2)
03	03	.188	(4.8)
04	03	.250	(6.4)
05	04	.312	(7.9)
06	06	.375	(9.5)
07	06	.438	(11.1)
08	08	.500	(12.7)
09	10	.562	(14.3)
10	10	.625	(15.9)
11	12	.688	(17.5)
12	12	.750	(19.1)
13	16	.812	(20.6)
14	16	.875	(22.2)
15	16	.938	(23.8)
16	20	1.000	(25.4)
17	20	1.062	(27.0)
18	20	1.125	(28.6)
20	20	1.250	(31.8)
22	24	1.375	(34.9)
24	28	1.500	(38.1)

TABLE X: CABLE ENTRY

Clamp Size	T Max		V Max		Cable Range Min		Cable Range Max	
04	.780	(19.8)	.957	(24.3)	.125	(3.2)	.312	(7.9)
06	.780	(19.8)	1.145	(29.1)	.250	(6.4)	.437	(11.1)
08	.780	(19.8)	1.332	(33.8)	.387	(9.8)	.562	(14.3)
10	.780	(19.8)	1.332	(33.8)	.350	(8.9)	.625	(15.9)
12	.811	(20.6)	1.551	(39.4)	.500	(12.7)	.750	(19.1)
16	.905	(23.0)	1.770	(45.0)	.625	(15.9)	.937	(23.8)
20	1.092	(27.7)	2.113	(53.7)	.875	(22.2)	1.250	(31.8)
24	1.124	(28.5)	2.363	(60.0)	1.000	(25.4)	1.375	(34.9)
28	1.399	(35.5)	2.770	(70.4)	1.250	(31.8)	1.625	(41.3)

TABLE XI: CABLE ENTRY

Clamp Size	W Max		X Max		Y Max		Z Max		Cable Range Min **		Cable Range Max	
03*	.437	(11.1)	.760	(19.3)	.843	(21.4)	.630	(16.0)	.156	(4.0)	.250	(6.4)
04*	.437	(11.1)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.188	(4.8)	.312	(7.9)
06*	.500	(12.7)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.281	(7.1)	.438	(11.1)
08	.563	(14.3)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.387	(9.8)	.562	(14.3)
10	.563	(14.3)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.375	(9.5)	.625	(15.9)
12	.563	(14.3)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	.438	(11.1)	.750	(19.1)
16	.656	(16.7)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	.625	(15.9)	.938	(23.8)
20	.656	(16.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	.875	(22.2)	1.250	(31.8)
24	.656	(16.7)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.000	(25.4)	1.375	(34.9)
28	1.188	(30.2)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.250	(31.8)	1.625	(41.3)

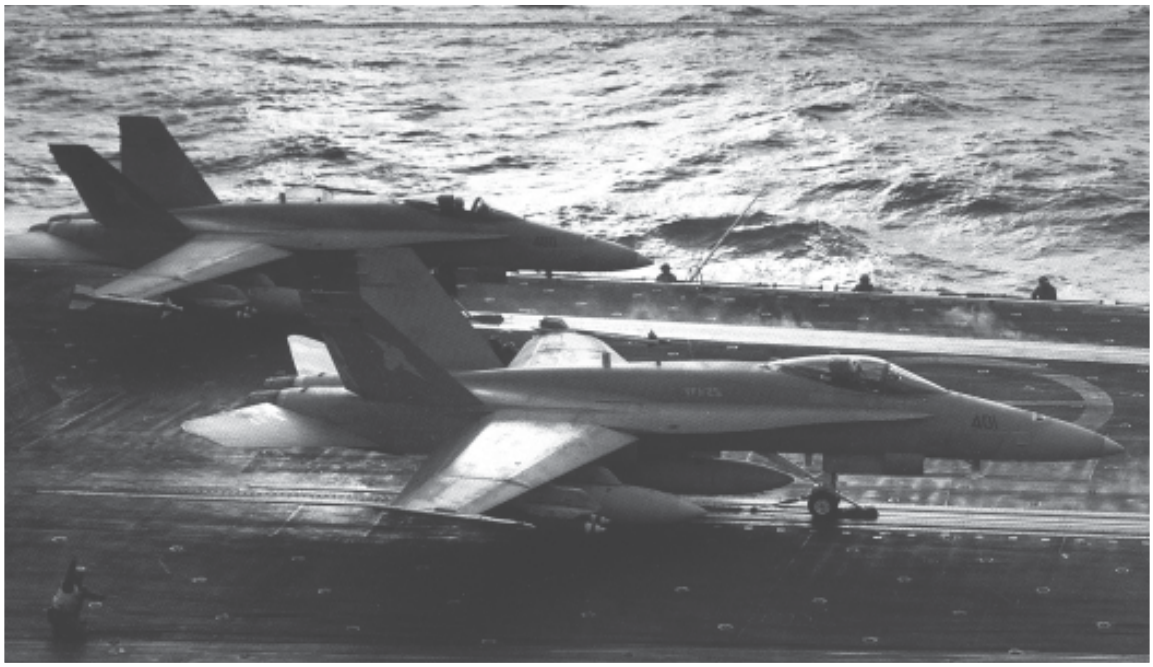
* Not available in Style M clamp.

** Not Applicable Style D

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. O-Ring not supplied with Connector Designator A.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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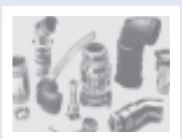
Corrosion resistance and weight reduction high on your list?



Upgrade to Glenair's composite thermoplastic backshells and accessories.

For most applications, backshells and accessories made from aluminum, stainless and carbon steel are recommended. But for applications where additional weight savings and corrosion resistance are required, many customers are now specifying composite thermoplastic materials.

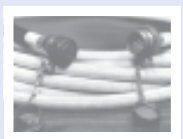
Glenair is the recognized leader in composite thermoplastic research and development for the interconnect accessory industry. In fact, no one else has tooled even a small fraction of the composite products available today from Glenair—in stock and ready for same-day shipment.



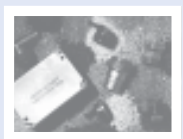
Commercial and Mil Spec connector accessories



Convoluted tubing and metal-core conduit



Electrical and fiber optic cable assemblies



Composite thermoplastic components



Microminiature connectors and accessories



Backshell assembly and termination tools

Glenair®

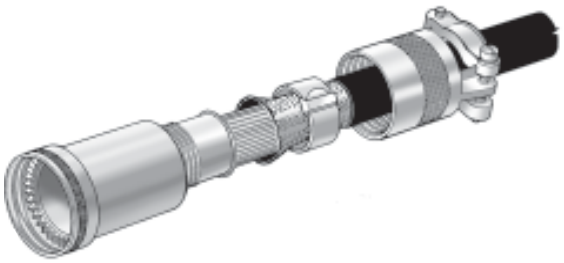
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Glendale, California 91201-2497
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Series 447
EMI/RFI Non-Environmental
Band-in-a-Can Backshells

Glenair®



PRODUCT FEATURES

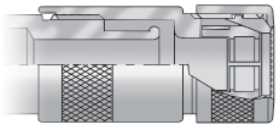
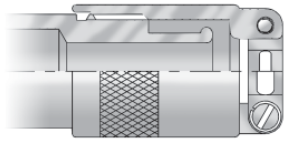
- Unique EMI/RFI Backshell Design Features an Enclosed Banding Porch
- Rotatable, Self-Locking and Direct Coupling Styles
- Standard and Full-Radius Designs
- Straight, 45°, 90° and Split-Shell Configurations
- Selection of Strain-Relief Styles

The convenience of banding with enhanced mechanical protection and strain-relief

Band-in-a-Can design adds strain-relief and enhanced mechanical protection to popular banding backshells

A banding backshell assembly, that utilizes a secondary adapter that covers the banding area, along with providing options for strain relief. This backshell combines the efficiency and convenience of band style shield termination with a protective backshell which protects the shield termination area from damage due to rough handling and provides for robust cable strain-relief. Recommended for use in severe application environments where banding is the preferred shield termination technology.

Quick Page Number Reference Guide

Cable Entry Design	Coupling Type	Connector Designator	Page Number: Straight	Standard Profile Elbows	Full Radius Profile Elbows	Split-Shell Elbows
 QwikClamp Style Strain-Relief	Rotatable 447-420	A F H L S	447-2	447-2		
	Self-Locking Rotatable 447-421	A F H L S	447-4	447-4		
 Cable Clamp Style Strain-Relief	Rotatable 447-425	A F H L S	447-6	447-6	447-8	447-10
	Direct 447-426	All	447-12	447-12		447-14
	Self-Locking Rotatable 447-427	A F H L S	447-16	447-16	447-18	447-20

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447-420
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with QwikClamp Strain-Relief
Rotatable Coupling - Standard Profile

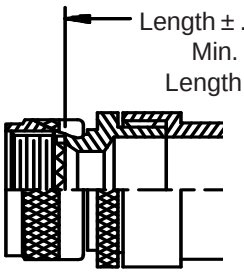
447 F S 420 NF 16 12-8 K P

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)

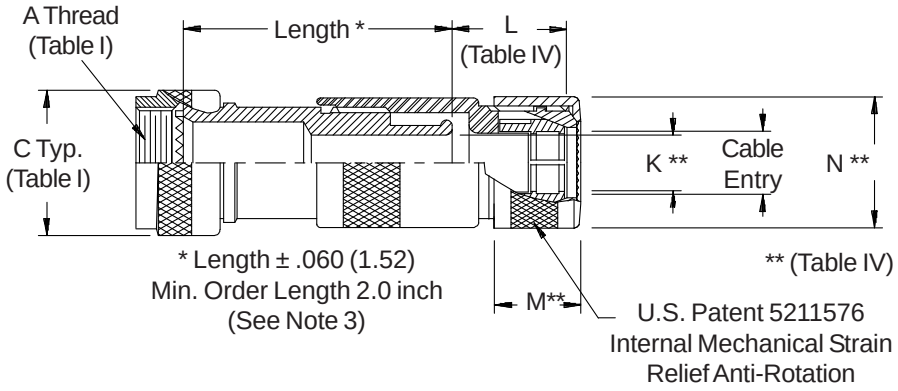
CONNECTOR DESIGNATORS

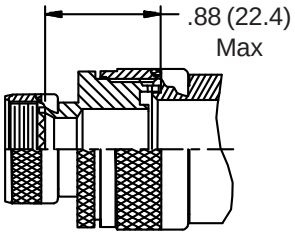
A-F-H-L-S

ROTATABLE COUPLING

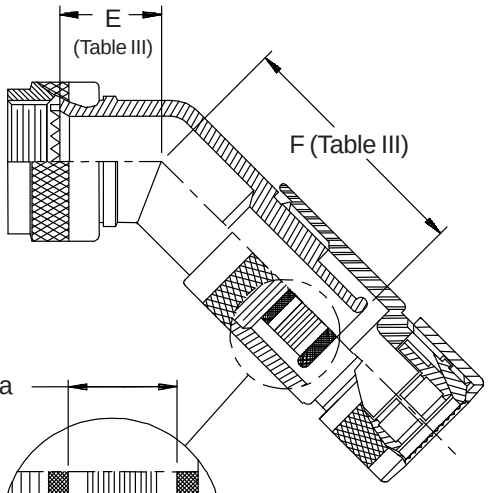


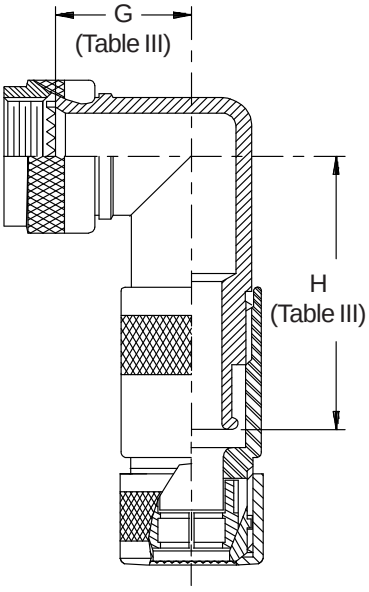
STYLE 2
(STRAIGHT
See Note 1)

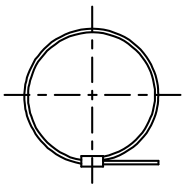




STYLE 2
(45° & 90°
See Note 1)







Band Option
(K Option Shown -
See Note 4)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	1.380	(35.1)	.750	(19.1)	1.500	(38.1)
10	11	.664	(16.9)	1.410	(35.8)	.810	(20.6)	1.550	(39.4)
12	13	.688	(17.5)	1.430	(36.3)	.870	(22.1)	1.610	(40.9)
14	15	.705	(17.9)	1.460	(37.1)	.920	(23.4)	1.680	(42.7)
16	17	.732	(18.6)	1.480	(37.6)	.980	(24.9)	1.740	(44.2)
18	19	.748	(19.0)	1.490	(37.8)	1.020	(25.9)	1.760	(44.7)
20	21	.773	(19.6)	1.510	(38.4)	1.080	(27.4)	1.820	(46.2)
22	23	.800	(20.3)	1.550	(39.4)	1.140	(29.0)	1.900	(48.3)
24	25	.823	(20.9)	1.580	(40.1)	1.200	(30.5)	1.970	(50.0)

TABLE IV: CABLE ENTRY

Dash No.	Clamp Size (Ref)	K Dia		L Max		M Max		N Max		Cable Range Min		Cable Range Max	
02	08	.125	(3.2)	.970	(24.6)	.530	(13.5)	.720	(18.3)	.100	(2.5)	.250	(6.4)
03	08	.188	(4.8)	.970	(24.6)	.530	(13.5)	.720	(18.3)	.098	(2.5)	.200	(5.1)
04	08	.250	(6.4)	.970	(24.6)	.530	(13.5)	.720	(18.3)	.098	(2.5)	.250	(6.4)
05	12	.312	(7.9)	1.110	(28.2)	.710	(18.0)	.910	(23.1)	.203	(5.2)	.375	(9.5)
06	12	.375	(9.5)	1.110	(28.2)	.710	(18.0)	.910	(23.1)	.203	(5.2)	.375	(9.5)
07	16	.438	(11.1)	1.210	(30.7)	.720	(18.3)	1.090	(27.7)	.328	(8.3)	.500	(12.7)
08	16	.500	(12.7)	1.210	(30.7)	.720	(18.3)	1.090	(27.7)	.328	(8.3)	.500	(12.7)
09	20	.562	(14.3)	1.210	(30.7)	.720	(18.3)	1.220	(31.0)	.452	(11.5)	.625	(15.9)
10	20	.625	(15.9)	1.210	(30.7)	.720	(18.3)	1.220	(31.0)	.452	(11.5)	.625	(15.9)
11	24	.688	(17.5)	1.210	(30.7)	.660	(16.8)	1.340	(34.0)	.515	(13.1)	.750	(19.1)
12	24	.750	(19.1)	1.360	(34.5)	.660	(16.8)	1.340	(34.0)	.515	(13.1)	.750	(19.1)
13	28	.812	(20.6)	1.360	(34.5)	.790	(20.1)	1.530	(38.9)	.640	(16.3)	.875	(22.2)
14	28	.875	(22.2)	1.510	(38.4)	.790	(20.1)	1.530	(38.9)	.640	(16.3)	.875	(22.2)
15	32	.938	(23.8)	1.510	(38.4)	.870	(22.1)	1.720	(43.7)	.765	(19.4)	1.000	(25.4)
16	32	1.000	(25.4)	1.510	(38.4)	.870	(22.1)	1.720	(43.7)	.765	(19.4)	1.000	(25.4)
17	36	1.062	(27.0)	1.510	(38.4)	.830	(21.1)	1.850	(47.0)	.859	(21.8)	1.125	(28.6)
18	36	1.125	(28.6)	1.510	(38.4)	.830	(21.1)	1.850	(47.0)	.859	(21.8)	1.125	(28.6)
20	40	1.250	(31.8)	1.510	(38.4)	.820	(20.8)	1.970	(50.0)	.984	(25.0)	1.250	(31.8)
22	44	1.375	(34.9)	1.510	(38.4)	.910	(23.1)	2.090	(53.1)	1.125	(28.6)	1.375	(34.9)
24	48	1.500	(38.1)	1.510	(38.4)	.900	(22.9)	2.280	(57.9)	1.250	(31.8)	1.500	(38.1)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied.
   Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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447-421
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with QwikClamp Strain-Relief
Self-Locking Rotatable Coupling - Standard Profile

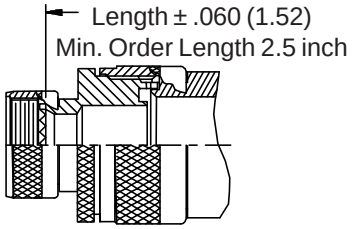
CONNECTOR DESIGNATORS

A-F-H-L-S

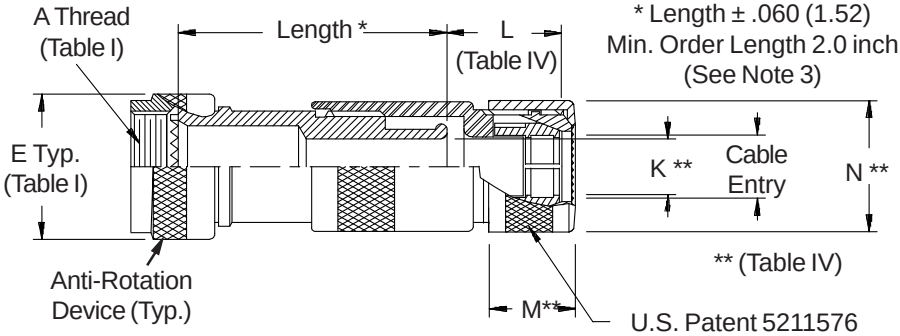
SELF-LOCKING ROTATABLE COUPLING

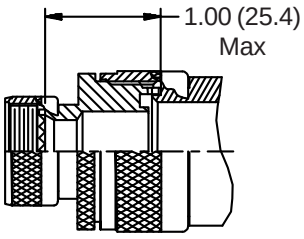
447 F S 421 NF 16 12-8 K P

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cabe Entry (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)

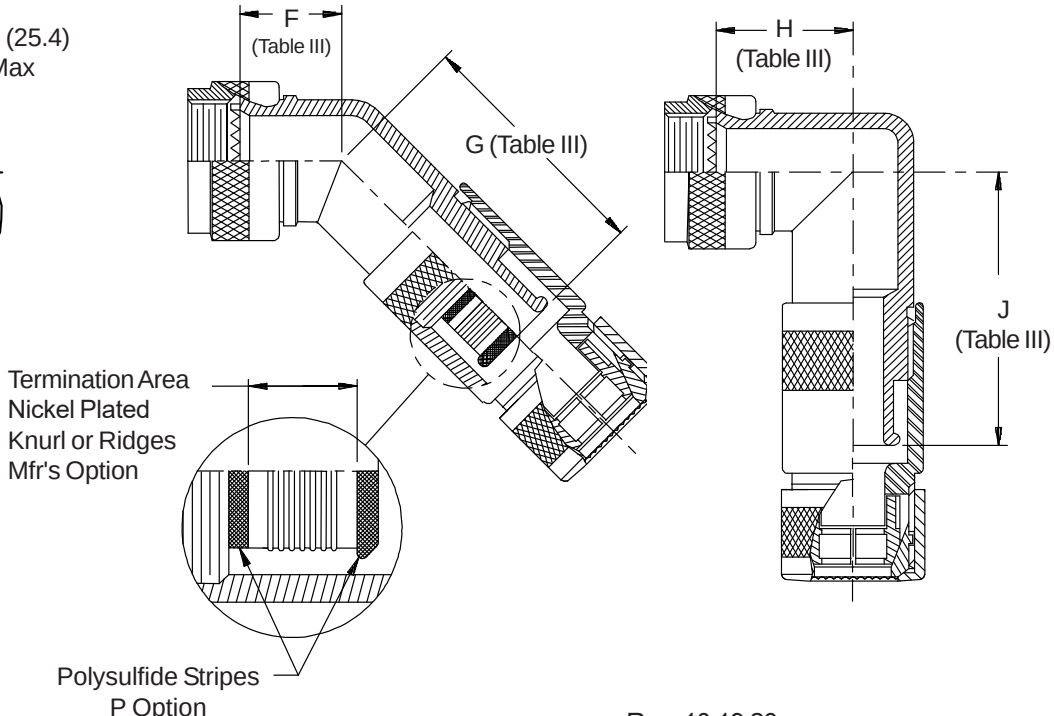


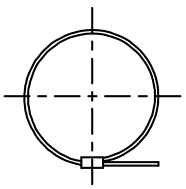
STYLE 2 (STRAIGHT See Note 1)





STYLE 2 (45° & 90° See Note 1)





Band Option (K Option Shown - See Note 4)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	1.380	(35.1)	.906	(23.0)	1.500	(38.1)
10	11	.820	(20.8)	1.410	(35.8)	.966	(24.5)	1.550	(39.4)
12	13	.844	(21.4)	1.430	(36.3)	1.026	(26.1)	1.610	(40.9)
14	15	.861	(21.9)	1.460	(37.1)	1.076	(27.3)	1.680	(42.7)
16	17	.888	(22.6)	1.480	(37.6)	1.136	(28.9)	1.740	(44.2)
18	19	.904	(23.0)	1.490	(37.8)	1.176	(29.9)	1.760	(44.7)
20	21	.929	(23.6)	1.510	(38.4)	1.236	(31.4)	1.820	(46.2)
22	23	.956	(24.3)	1.550	(39.4)	1.296	(32.9)	1.900	(48.3)
24	25	.979	(24.9)	1.580	(40.1)	1.356	(34.4)	1.970	(50.0)

TABLE IV: CABLE RANGE

Dash No.	Clamp Size (Ref)	K Dia		L Max		M Max		N Max		Cable Range Min		Cable Range Max	
02	08	.125	(3.2)	.970	(24.6)	.530	(13.5)	.720	(18.3)	.100	(2.5)	.250	(6.4)
03	08	.188	(4.8)	.970	(24.6)	.530	(13.5)	.720	(18.3)	.098	(2.5)	.200	(5.1)
04	08	.250	(6.4)	.970	(24.6)	.530	(13.5)	.720	(18.3)	.098	(2.5)	.250	(6.4)
05	12	.312	(7.9)	1.110	(28.2)	.710	(18.0)	.910	(23.1)	.203	(5.2)	.375	(9.5)
06	12	.375	(9.5)	1.110	(28.2)	.710	(18.0)	.910	(23.1)	.203	(5.2)	.375	(9.5)
07	16	.438	(11.1)	1.210	(30.7)	.720	(18.3)	1.090	(27.7)	.328	(8.3)	.500	(12.7)
08	16	.500	(12.7)	1.210	(30.7)	.720	(18.3)	1.090	(27.7)	.328	(8.3)	.500	(12.7)
09	20	.562	(14.3)	1.210	(30.7)	.720	(18.3)	1.220	(31.0)	.452	(11.5)	.625	(15.9)
10	20	.625	(15.9)	1.210	(30.7)	.720	(18.3)	1.220	(31.0)	.452	(11.5)	.625	(15.9)
11	24	.688	(17.5)	1.210	(30.7)	.660	(16.8)	1.340	(34.0)	.515	(13.1)	.750	(19.1)
12	24	.750	(19.1)	1.360	(34.5)	.660	(16.8)	1.340	(34.0)	.515	(13.1)	.750	(19.1)
13	28	.812	(20.6)	1.360	(34.5)	.790	(20.1)	1.530	(38.9)	.640	(16.3)	.875	(22.2)
14	28	.875	(22.2)	1.510	(38.4)	.790	(20.1)	1.530	(38.9)	.640	(16.3)	.875	(22.2)
15	32	.938	(23.8)	1.510	(38.4)	.870	(22.1)	1.720	(43.7)	.765	(19.4)	1.000	(25.4)
16	32	1.000	(25.4)	1.510	(38.4)	.870	(22.1)	1.720	(43.7)	.765	(19.4)	1.000	(25.4)
17	36	1.062	(27.0)	1.510	(38.4)	.830	(21.1)	1.850	(47.0)	.859	(21.8)	1.125	(28.6)
18	36	1.125	(28.6)	1.510	(38.4)	.830	(21.1)	1.850	(47.0)	.859	(21.8)	1.125	(28.6)
20	40	1.250	(31.8)	1.510	(38.4)	.820	(20.8)	1.970	(50.0)	.984	(25.0)	1.250	(31.8)
22	44	1.375	(34.9)	1.510	(38.4)	.910	(23.1)	2.090	(53.1)	1.125	(28.6)	1.375	(34.9)
24	48	1.500	(38.1)	1.510	(38.4)	.900	(22.9)	2.280	(57.9)	1.250	(31.8)	1.500	(38.1)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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447-425
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with Cable Clamp Strain-Relief
Rotatable Coupling - Standard Profile

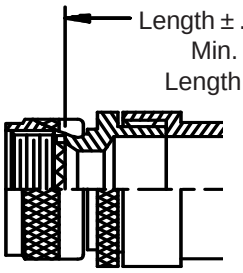
CONNECTOR DESIGNATORS

A-F-H-L-S

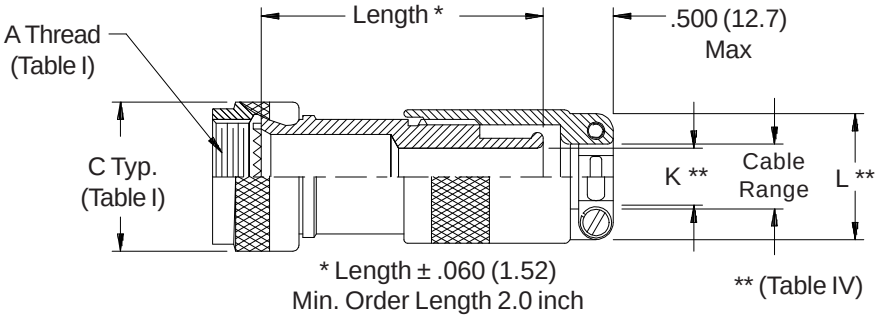
ROTATABLE COUPLING

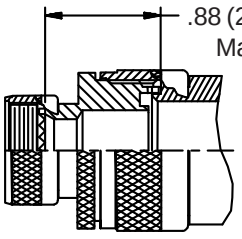
447 F S 425 NF 16 12-8 K P

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)

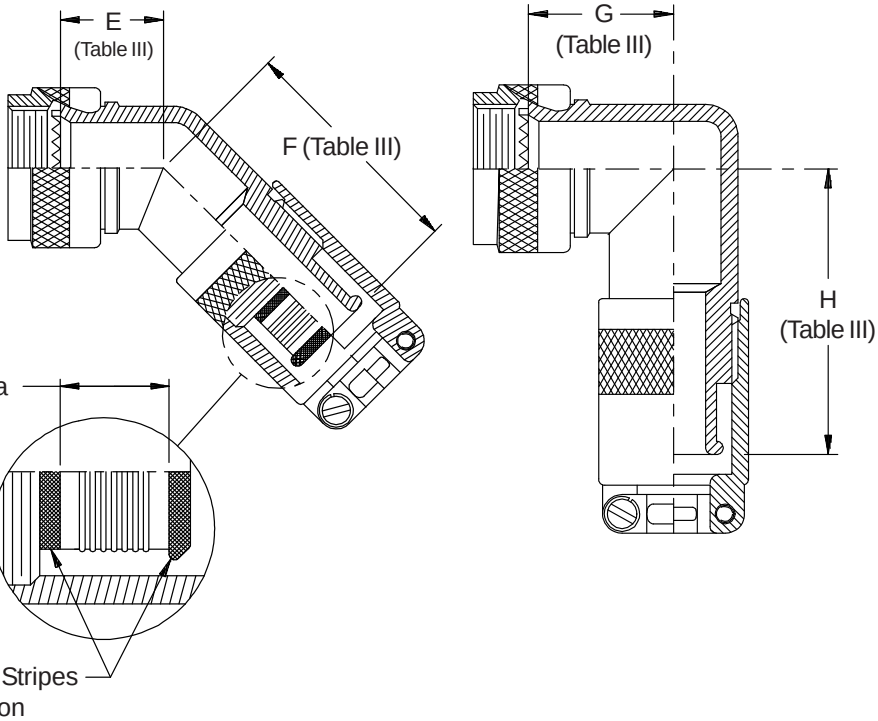


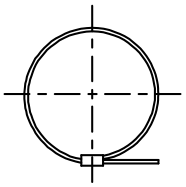
STYLE 2 (STRAIGHT See Note 1)





STYLE 2 (45° & 90° See Note 1)





Band Option
(K Option Shown - See Note 4)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.639	(16.2)	1.380	(35.1)	.750	(19.1)	1.500	(38.1)
10	11	.664	(16.9)	1.410	(35.8)	.810	(20.6)	1.550	(39.4)
12	13	.688	(17.5)	1.430	(36.3)	.870	(22.1)	1.610	(40.9)
14	15	.705	(17.9)	1.460	(37.1)	.920	(23.4)	1.680	(42.7)
16	17	.732	(18.6)	1.480	(37.6)	.980	(24.9)	1.740	(44.2)
18	19	.748	(19.0)	1.490	(37.8)	1.020	(25.9)	1.760	(44.7)
20	21	.773	(19.6)	1.510	(38.4)	1.080	(27.4)	1.820	(46.2)
22	23	.800	(20.3)	1.550	(39.4)	1.140	(29.0)	1.900	(48.3)
24	25	.823	(20.9)	1.580	(40.1)	1.200	(30.5)	1.970	(50.0)

TABLE IV: CABLE ENTRY

Dash No.	K ±.030	K ±(.8)	L Max		Cable Range Min		Cable Range Max	
10	.220	(5.6)	1.000	(25.4)	.130	(3.3)	.250	(6.4)
12	.310	(7.9)	1.250	(31.8)	.250	(6.4)	.380	(9.7)
14	.440	(11.2)	1.340	(34.0)	.310	(7.9)	.440	(11.2)
16	.560	(14.2)	1.470	(37.3)	.375	(9.5)	.630	(16.0)
18	.630	(16.0)	1.560	(39.6)	.560	(14.2)	.690	(17.5)
20	.750	(19.1)	1.620	(41.1)	.630	(16.0)	.750	(19.1)
22	.880	(22.4)	1.750	(44.5)	.750	(19.1)	.880	(22.4)
24	1.000	(25.4)	1.870	(47.5)	.880	(22.4)	1.000	(25.4)
28	1.060	(26.9)	1.970	(50.0)	1.000	(25.4)	1.130	(28.7)
32	1.190	(30.2)	2.090	(53.1)	1.130	(28.7)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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447-425
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with Cable Clamp Strain-Relief
Rotatable Coupling - Full Radius Profile

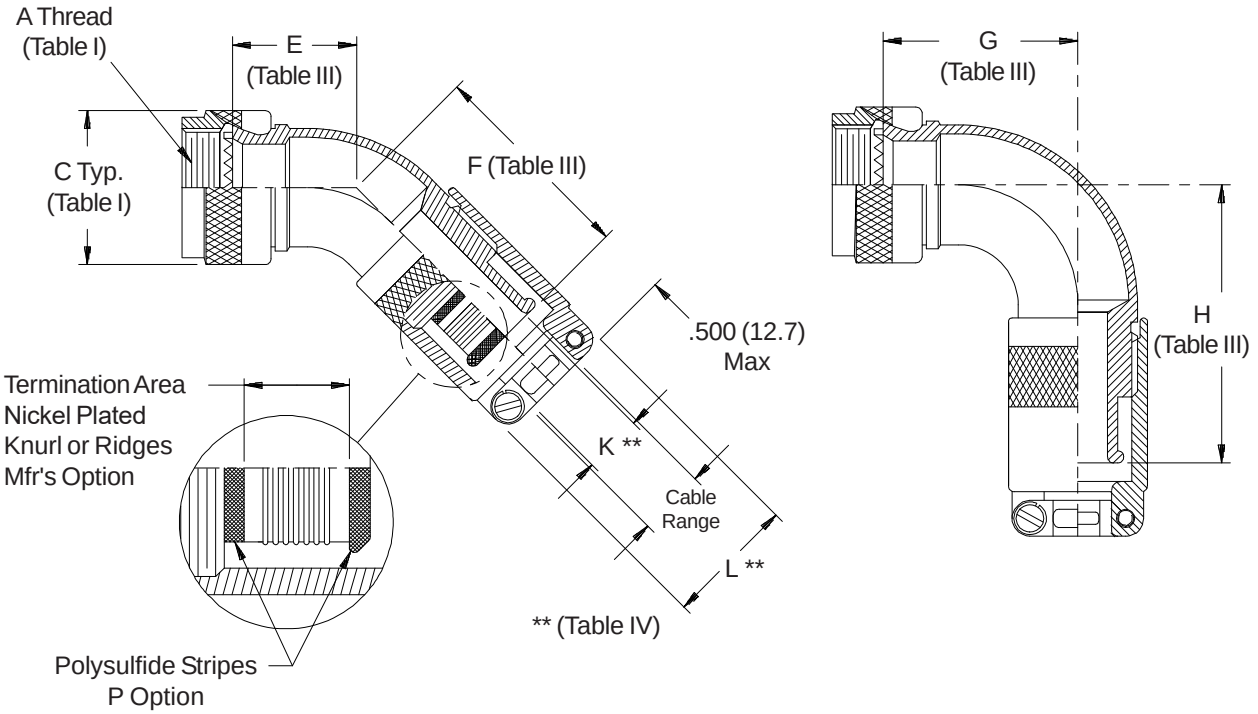
CONNECTOR DESIGNATORS

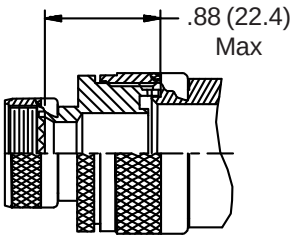
A-F-H-L-S

ROTATABLE COUPLING

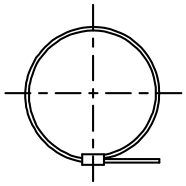
447 F N 425 NF 16 12 K P

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See 447-6 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)





STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.817	(20.8)	1.057	(26.8)	1.125	(28.6)	1.375	(34.9)
10	11	.861	(21.9)	1.111	(28.2)	1.250	(31.8)	1.500	(38.1)
12	13	.911	(23.1)	1.161	(29.5)	1.375	(34.9)	1.625	(41.3)
14	15	.965	(24.5)	1.215	(30.9)	1.500	(38.1)	1.750	(44.5)
16	17	1.014	(25.8)	1.264	(32.1)	1.625	(41.3)	1.875	(47.6)
18	19	1.064	(27.0)	1.314	(33.4)	1.750	(44.5)	2.000	(50.8)
20	21	1.118	(28.4)	1.368	(34.7)	1.875	(47.6)	2.125	(54.0)
22	23	1.172	(29.8)	1.422	(36.1)	2.000	(50.8)	2.250	(57.2)
24	25	1.221	(31.0)	1.471	(37.4)	2.125	(54.0)	2.375	(60.3)

TABLE IV: CABLE RANGE

Dash No.	K ±.030	K ±(.8)	L Max		Cable Range Min		Cable Range Max	
10	.220	(5.6)	1.000	(25.4)	.130	(3.3)	.250	(6.4)
12	.310	(7.9)	1.250	(31.8)	.250	(6.4)	.380	(9.7)
14	.440	(11.2)	1.340	(34.0)	.310	(7.9)	.440	(11.2)
16	.560	(14.2)	1.470	(37.3)	.375	(9.5)	.630	(16.0)
18	.630	(16.0)	1.560	(39.6)	.560	(14.2)	.690	(17.5)
20	.750	(19.1)	1.620	(41.1)	.630	(16.0)	.750	(19.1)
22	.880	(22.4)	1.750	(44.5)	.750	(19.1)	.880	(22.4)
24	1.000	(25.4)	1.870	(47.5)	.880	(22.4)	1.000	(25.4)
28	1.060	(26.9)	1.970	(50.0)	1.000	(25.4)	1.130	(28.7)
32	1.190	(30.2)	2.090	(53.1)	1.130	(28.7)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, and H will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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447-425
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with Cable Clamp Strain-Relief
Rotatable Coupling - Split Shell

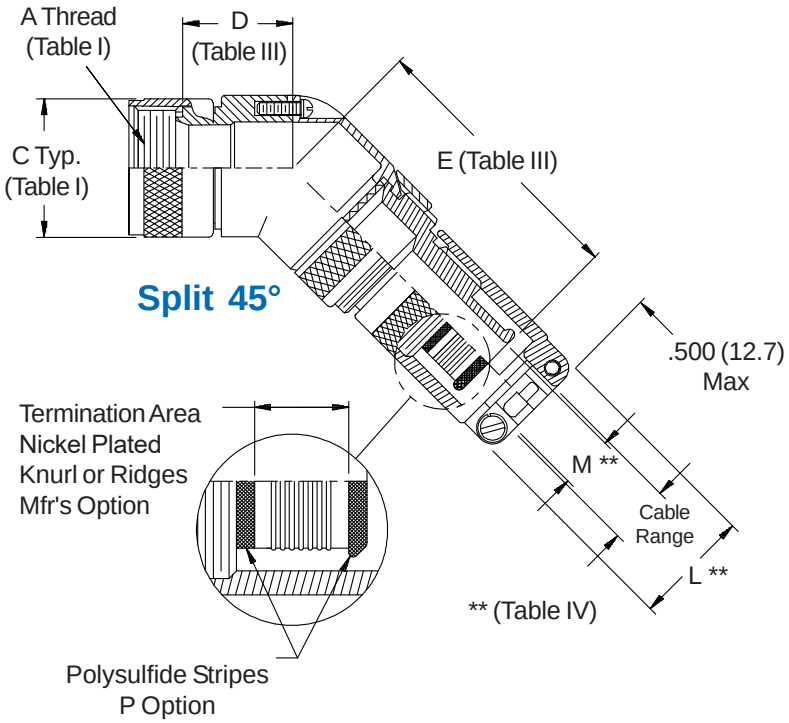
CONNECTOR DESIGNATORS

A-F-H-L-S

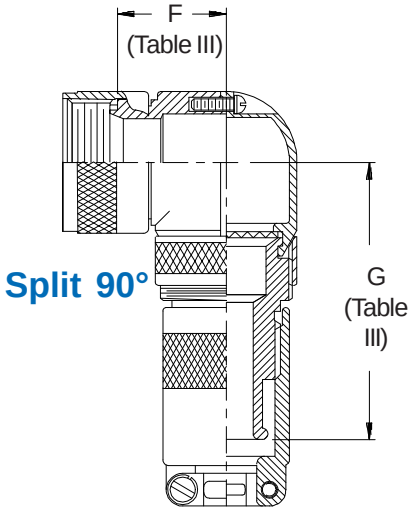
ROTATABLE COUPLING

447 F D 425 NF 16 12 K P

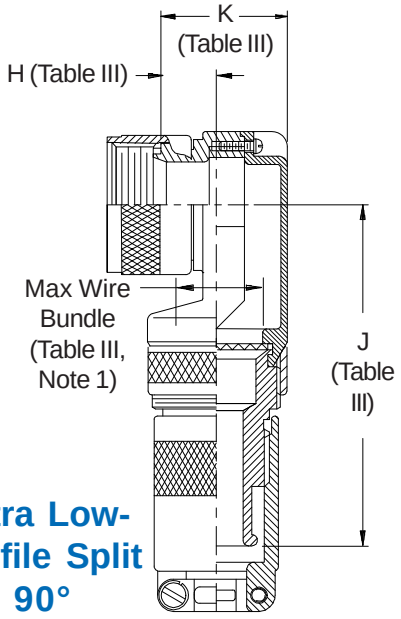
- Product Series
- Connector Designator
- Angle and Profile
  - C = Low Profile Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)



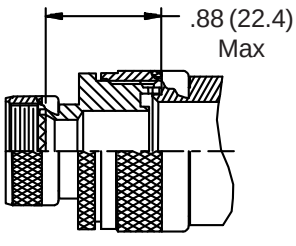
Split 45°



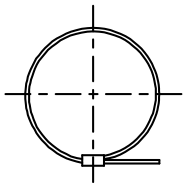
Split 90°



Ultra Low-Profile Split 90°



STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	D Max	E Max	F Max	G Max	H Ref	J Max	K Max	Function C Max Wire Bundle
08/09	.440 (11.2)	1.840 (46.7)	.680 (17.3)	1.780 (45.2)	.340 (8.6)	2.120 (53.8)	.681 (17.3)	.250 (6.4)
10/11	.500 (12.7)	1.900 (48.3)	.750 (19.1)	1.840 (46.7)	.270 (6.9)	2.280 (57.9)	.731 (18.6)	.375 (9.5)
12/13	.560 (14.2)	1.970 (50.0)	.810 (20.6)	1.910 (48.5)	.270 (6.9)	2.280 (57.9)	.731 (18.6)	.375 (9.5)
14/15	.620 (15.7)	2.000 (50.8)	.870 (22.1)	1.940 (49.3)	.280 (7.1)	2.350 (59.7)	.831 (21.1)	.500 (12.7)
16/17	.680 (17.3)	2.100 (53.3)	.930 (23.6)	2.040 (51.8)	.420 (10.7)	2.400 (61.0)	.981 (24.9)	.625 (15.9)
18/19	.750 (19.1)	2.160 (54.9)	1.000 (25.4)	2.100 (53.3)	.640 (16.3)	2.430 (61.7)	1.181 (30.0)	.625 (15.9)
20/21	.820 (20.8)	2.220 (56.4)	1.060 (26.9)	2.160 (54.9)	.640 (16.3)	2.430 (61.7)	1.181 (30.0)	.625 (15.9)
22/23	.880 (22.4)	2.280 (57.9)	1.120 (28.4)	2.220 (56.4)	.540 (13.7)	2.580 (65.5)	1.181 (30.0)	.750 (19.1)
24/25	.940 (23.9)	2.340 (59.4)	1.180 (30.0)	2.280 (57.9)	.540 (13.7)	2.580 (65.5)	1.181 (30.0)	.750 (19.1)

TABLE IV: CABLE ENTRY

Dash No.	K ±.030	K ±(.8)	L Max		Cable Range Min		Cable Range Max	
10	.220	(5.6)	1.000	(25.4)	.130	(3.3)	.250	(6.4)
12	.310	(7.9)	1.250	(31.8)	.250	(6.4)	.380	(9.7)
14	.440	(11.2)	1.340	(34.0)	.310	(7.9)	.440	(11.2)
16	.560	(14.2)	1.470	(37.3)	.375	(9.5)	.630	(16.0)
18	.630	(16.0)	1.560	(39.6)	.560	(14.2)	.690	(17.5)
20	.750	(19.1)	1.620	(41.1)	.630	(16.0)	.750	(19.1)
22	.880	(22.4)	1.750	(44.5)	.750	(19.1)	.880	(22.4)
24	1.000	(25.4)	1.870	(47.5)	.880	(22.4)	1.000	(25.4)
28	1.060	(26.9)	1.970	(50.0)	1.000	(25.4)	1.130	(28.7)
32	1.190	(30.2)	2.090	(53.1)	1.130	(28.7)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied (not available in Function C). Dimensions D, E, F, and G will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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447-426
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with Cable Clamp Strain-Relief
Direct Coupling - Standard Profile

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

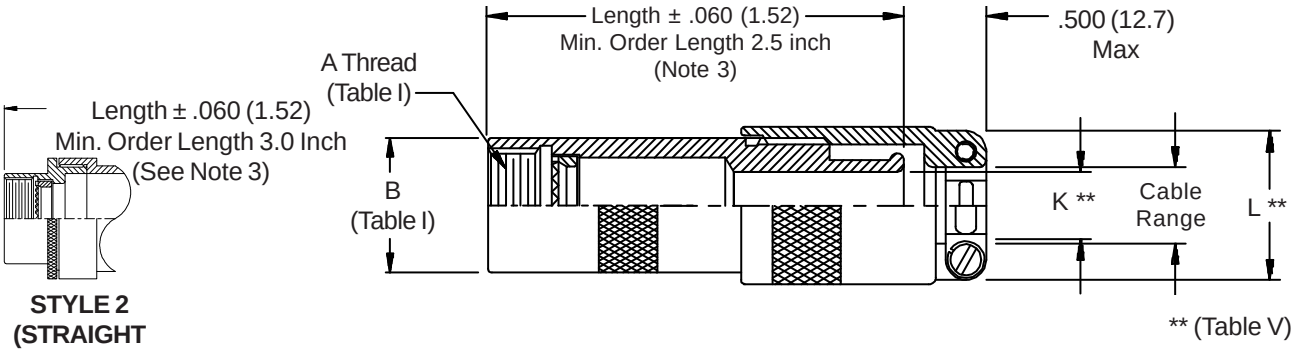
G-H-J-K-L-S

*** Conn. Desig. B See Note 4**

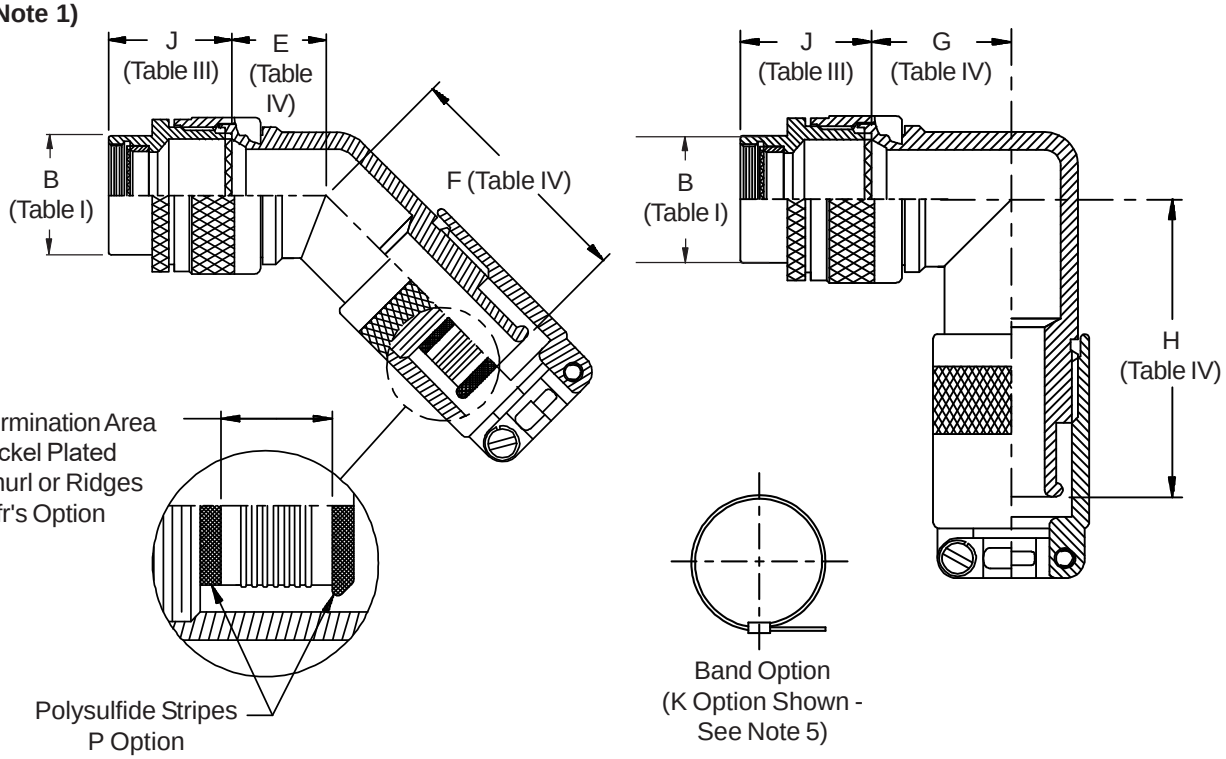
DIRECT COUPLING

447 F S 426 NF 16 12-8 K P

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table V)
- Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)
- B = Band, K = Precoiled Band (Omit for none)
- Polysulfide (Omit for none)



STYLE 2 (STRAIGHT See Note 1)



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See inside back cover fold-out or
pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
10/12	.664	(16.9)	1.410	(35.8)	.810	(20.6)	1.550	(39.4)
14	.688	(17.5)	1.430	(36.3)	.870	(22.1)	1.610	(40.9)
16/18	.732	(18.6)	1.480	(37.6)	.980	(24.9)	1.740	(44.2)
20	.748	(19.0)	1.490	(37.8)	1.020	(25.9)	1.760	(44.7)
22	.773	(19.6)	1.510	(38.4)	1.080	(27.4)	1.820	(46.2)
24	.800	(20.3)	1.550	(39.4)	1.140	(29.0)	1.900	(48.3)
28	.823	(20.9)	1.580	(40.1)	1.200	(30.5)	1.970	(50.0)
32	1.041	(26.4)	1.750	(44.5)	1.480	(37.6)	2.210	(56.1)

TABLE V: CABLE RANGE

Dash No.	K ±.030	K ±(.8)	L Max		Cable Range Min		Cable Range Max	
10	.220	(5.6)	1.000	(25.4)	.130	(3.3)	.250	(6.4)
12	.310	(7.9)	1.250	(31.8)	.250	(6.4)	.380	(9.7)
14	.440	(11.2)	1.340	(34.0)	.310	(7.9)	.440	(11.2)
16	.560	(14.2)	1.470	(37.3)	.375	(9.5)	.630	(16.0)
18	.630	(16.0)	1.560	(39.6)	.560	(14.2)	.690	(17.5)
20	.750	(19.1)	1.620	(41.1)	.630	(16.0)	.750	(19.1)
22	.880	(22.4)	1.750	(44.5)	.750	(19.1)	.880	(22.4)
24	1.000	(25.4)	1.870	(47.5)	.880	(22.4)	1.000	(25.4)
28	1.060	(26.9)	1.970	(50.0)	1.000	(25.4)	1.130	(28.7)
32	1.190	(30.2)	2.090	(53.1)	1.130	(28.7)	1.250	(31.8)

1. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. (Function S only).
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. When using Connector Designator B refer to pages 18 and 19 for part number development.
5. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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447-426
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with Cable Clamp Strain-Relief
Direct Coupling - Split Shell

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

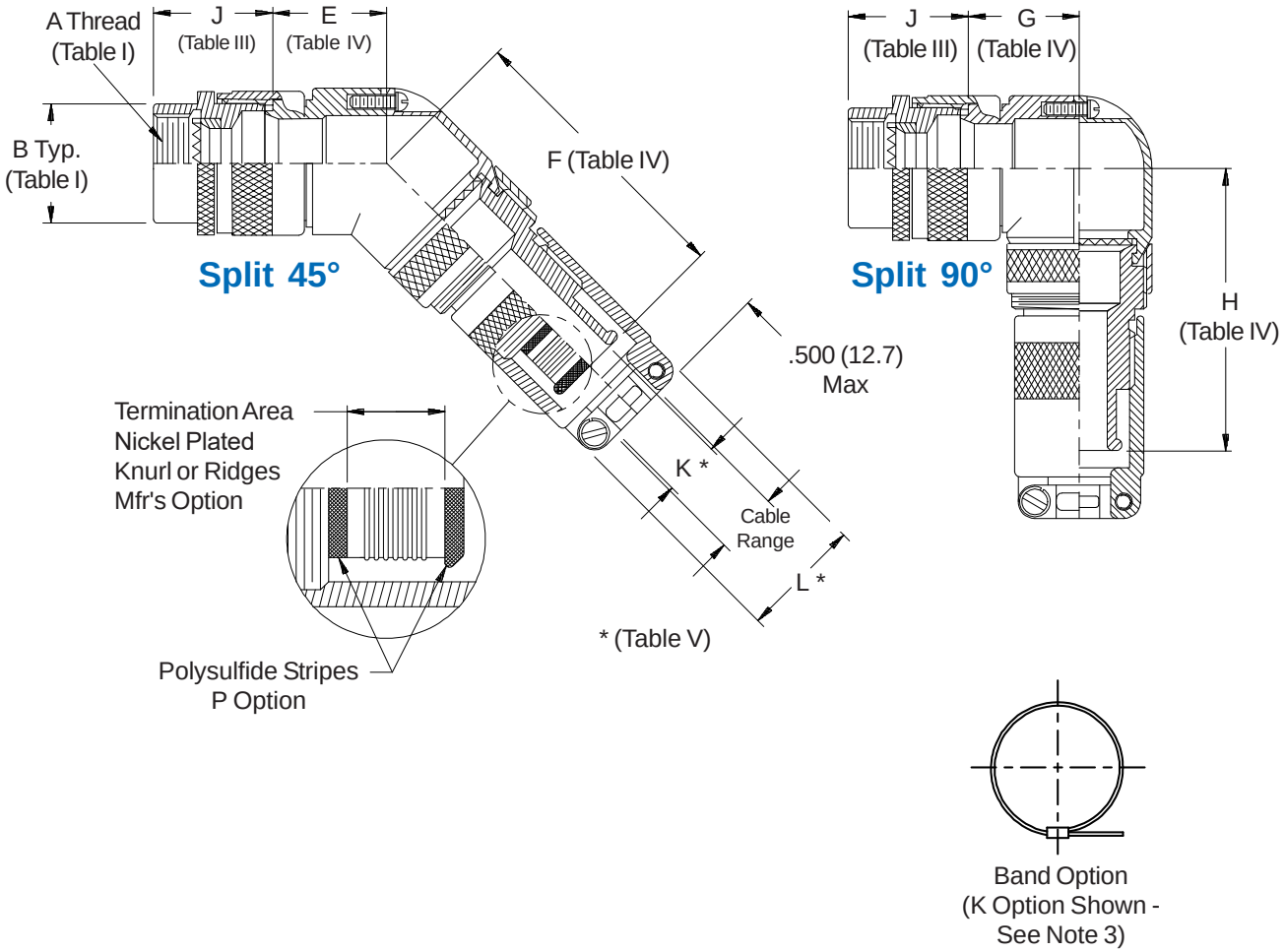
G-H-J-K-L-S

*** Conn. Desig. B See Note 2**

DIRECT COUPLING

447 F D 426 NF 16 12 K P

- Product Series
- Connector Designator
- Angle and Profile
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Polysulfide (Omit for none)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Cable Range (Table V)
- Shell Size (Table I)
- Finish (Table II)



Band Option
(K Option Shown -
See Note 3)

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447-426
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with Cable Clamp Strain-Relief
Direct Coupling - Split Shell

See inside back cover fold-out or
pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180 (30.0)	1.250 (31.8)	
10/11	1.180 (30.0)	1.250 (31.8)	
12/13	1.180 (30.0)	1.250 (31.8)	1.735 (44.1)
14/15	1.180 (30.0)	1.250 (31.8)	1.915 (48.6)
16/17	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
18/19	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
20/21	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
22/23	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
24/25	1.380 (35.0)	1.560 (39.6)	1.915 (48.6)
28/29	1.610 (40.9)	1.560 (39.6)	1.915 (48.6)
32/33	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
36	1.610 (40.9)	1.750 (44.5)	1.915 (48.6)
40	1.610 (40.9)	2.190 (55.6)	1.915 (48.6)

TABLE IV: ELBOW DIMENSIONS

Elbow Size	E Max		F Max		G Max		H Max	
10/12	.500	(12.7)	1.870	(47.5)	.750	(19.1)	1.810	(46.0)
14	.560	(14.2)	1.940	(49.3)	.810	(20.6)	1.880	(47.8)
16/18	.680	(17.3)	2.070	(52.6)	.930	(23.6)	2.010	(51.1)
20	.750	(19.1)	2.130	(54.1)	1.000	(25.4)	2.070	(52.6)
22	.820	(20.8)	2.190	(55.6)	1.060	(26.9)	2.130	(54.1)
24	.880	(22.4)	2.250	(57.2)	1.120	(28.4)	2.190	(55.6)
28	.940	(23.9)	3.100	(78.7)	1.180	(30.0)	2.250	(57.2)
32	.990	(25.1)	2.400	(61.0)	1.340	(34.0)	2.410	(61.2)

TABLE V: CABLE RANGE

Dash No.	K ±.030	±(.8)	L Max		Cable Range Min		Max	
10	.220	(5.6)	1.000	(25.4)	.130	(3.3)	.250	(6.4)
12	.310	(7.9)	1.250	(31.8)	.250	(6.4)	.380	(9.7)
14	.440	(11.2)	1.340	(34.0)	.310	(7.9)	.440	(11.2)
16	.560	(14.2)	1.470	(37.3)	.375	(9.5)	.630	(16.0)
18	.630	(16.0)	1.560	(39.6)	.560	(14.2)	.690	(17.5)
20	.750	(19.1)	1.620	(41.1)	.630	(16.0)	.750	(19.1)
22	.880	(22.4)	1.750	(44.5)	.750	(19.1)	.880	(22.4)
24	1.000	(25.4)	1.870	(47.5)	.880	(22.4)	1.000	(25.4)
28	1.060	(26.9)	1.970	(50.0)	1.000	(25.4)	1.130	(28.7)
32	1.190	(30.2)	2.090	(53.1)	1.130	(28.7)	1.250	(31.8)

1. Metric dimensions (mm) are indicated in parentheses.
2. When using Connector Designator B refer to pages 18 and 19 for part number development.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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447-427
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with Cable Clamp Strain-Relief
Self-Locking Rotatable Coupling - Standard Profile

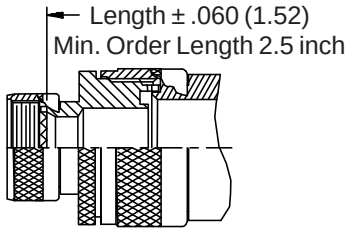
CONNECTOR DESIGNATORS

A-F-H-L-S

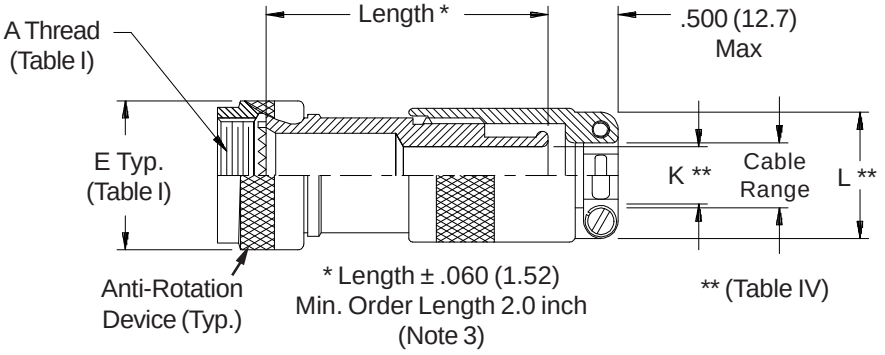
SELF-LOCKING ROTATABLE COUPLING

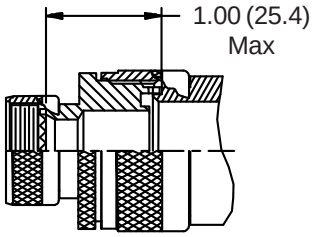
447 F S 427 NF 16 12-8 K P

- 447 — Product Series
- F — Connector Designator
- S — Angle and Profile: H = 45°, J = 90°, S = Straight
- 427 — Basic Part No.
- NF — Finish (Table II)
- 16 — Shell Size (Table I)
- 12-8 — Cable Range (Table IV)
- K — B = Band, K = Precoiled Band (Omit for none)
- P — Polysulfide (Omit for none)
- 8 — Length: S only (1/2 inch increments, e.g. 8 = 4.000 inches)

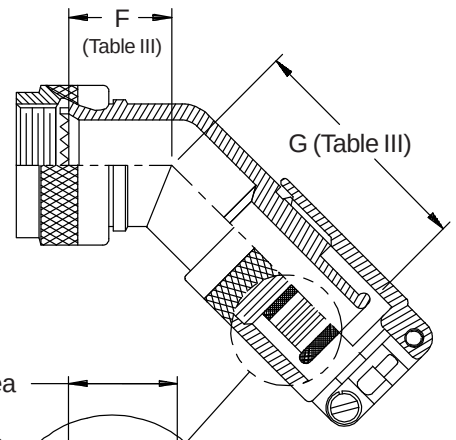


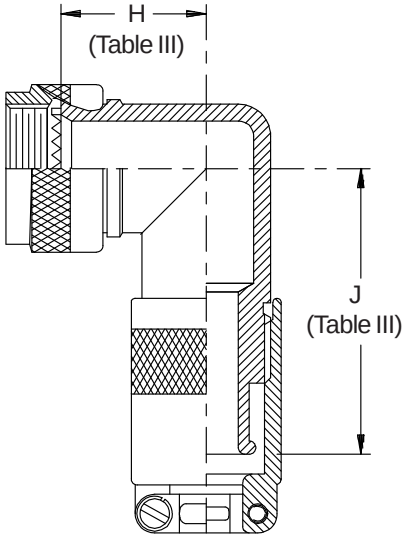
STYLE 2 (STRAIGHT See Note 1)

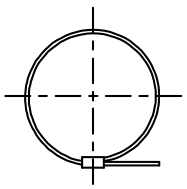




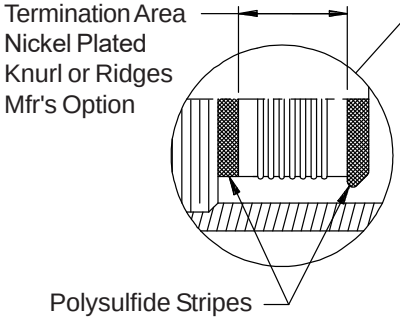
STYLE 2 (45° & 90° See Note 1)







Band Option (K Option Shown - See Note 4)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	1.380	(35.1)	.906	(23.0)	1.500	(38.1)
10	11	.820	(20.8)	1.410	(35.8)	.966	(24.5)	1.550	(39.4)
12	13	.844	(21.4)	1.430	(36.3)	1.026	(26.1)	1.610	(40.9)
14	15	.861	(21.9)	1.460	(37.1)	1.076	(27.3)	1.680	(42.7)
16	17	.888	(22.6)	1.480	(37.6)	1.136	(28.9)	1.740	(44.2)
18	19	.904	(23.0)	1.490	(37.8)	1.176	(29.9)	1.760	(44.7)
20	21	.929	(23.6)	1.510	(38.4)	1.236	(31.4)	1.820	(46.2)
22	23	.956	(24.3)	1.550	(39.4)	1.296	(32.9)	1.900	(48.3)
24	25	.979	(24.9)	1.580	(40.1)	1.356	(34.4)	1.970	(50.0)

TABLE IV: CABLE RANGE

Dash No.	K ±.030	K ±(.8)	L Max		Cable Range Min		Cable Range Max	
10	.220	(5.6)	1.000	(25.4)	.130	(3.3)	.250	(6.4)
12	.310	(7.9)	1.250	(31.8)	.250	(6.4)	.380	(9.7)
14	.440	(11.2)	1.340	(34.0)	.310	(7.9)	.440	(11.2)
16	.560	(14.2)	1.470	(37.3)	.375	(9.5)	.630	(16.0)
18	.630	(16.0)	1.560	(39.6)	.560	(14.2)	.690	(17.5)
20	.750	(19.1)	1.620	(41.1)	.630	(16.0)	.750	(19.1)
22	.880	(22.4)	1.750	(44.5)	.750	(19.1)	.880	(22.4)
24	1.000	(25.4)	1.870	(47.5)	.880	(22.4)	1.000	(25.4)
28	1.060	(26.9)	1.970	(50.0)	1.000	(25.4)	1.130	(28.7)
32	1.190	(30.2)	2.090	(53.1)	1.130	(28.7)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Consult factory for shorter lengths on straight backshells.
4. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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447-427
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with Cable Clamp Strain-Relief
Self-Locking Rotatable Coupling - Full Radius Profile

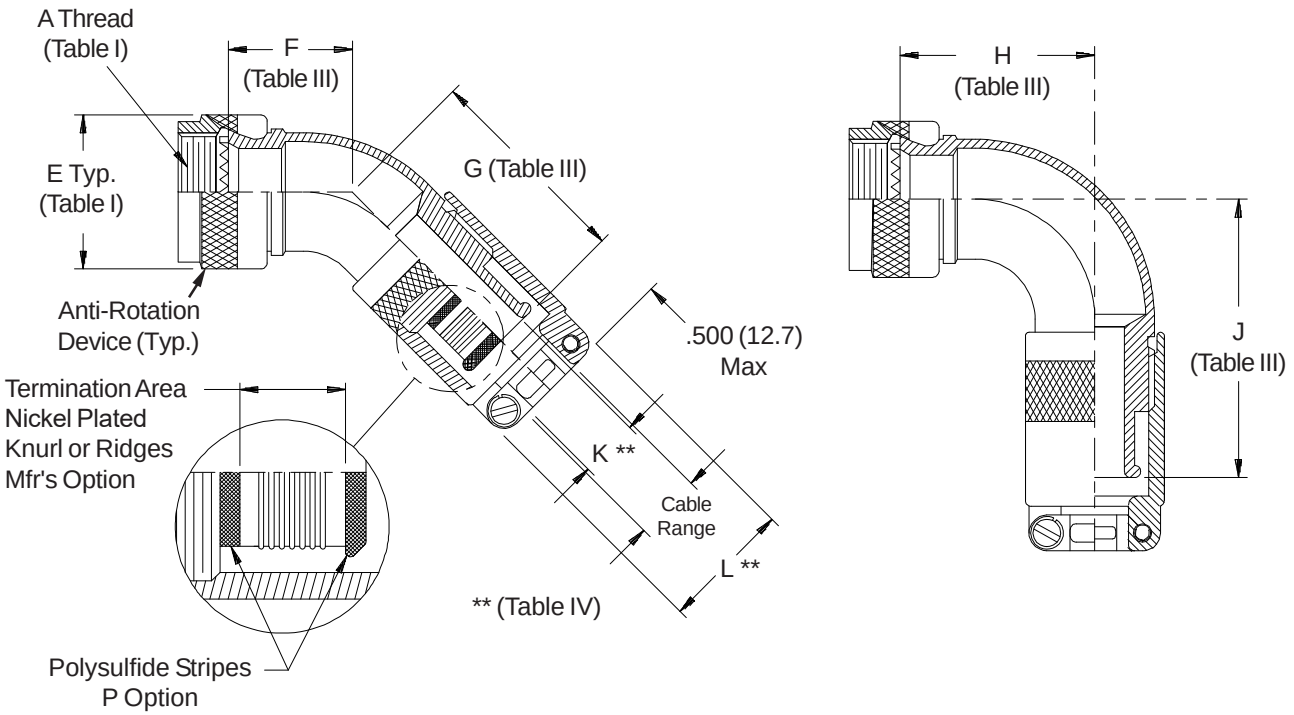
CONNECTOR DESIGNATORS

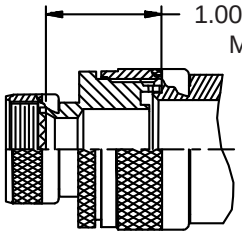
A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING

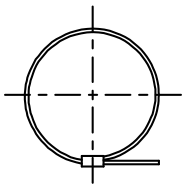
447 F N 427 NF 16 12 K P

- Product Series
- Connector Designator
- Angle and Profile
  - M = 45°
  - N = 90°
  - See 447-16 for straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Range (Table IV)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)





STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max	G Max	H Max	J Max
08	09	.973 (24.7)	1.057 (26.8)	1.281 (32.5)	1.375 (34.9)
10	11	1.017 (25.8)	1.111 (28.2)	1.406 (35.7)	1.500 (38.1)
12	13	1.067 (27.1)	1.161 (29.5)	1.531 (38.9)	1.625 (41.3)
14	15	1.121 (28.5)	1.215 (30.9)	1.656 (42.1)	1.750 (44.5)
16	17	1.170 (29.7)	1.264 (32.1)	1.781 (45.2)	1.875 (47.6)
18	19	1.220 (31.0)	1.314 (33.4)	1.906 (48.4)	2.000 (50.8)
20	21	1.274 (32.4)	1.368 (34.7)	2.031 (51.6)	2.125 (54.0)
22	23	1.328 (33.7)	1.422 (36.1)	2.156 (54.8)	2.250 (57.2)
24	25	1.377 (35.0)	1.471 (37.4)	2.281 (57.9)	2.375 (60.3)

TABLE IV: CABLE RANGE

Dash No.	K ±.030	K ±(.8)	L Max	Cable Range Min	Cable Range Max
10	.220	(5.6)	1.000 (25.4)	.130 (3.3)	.250 (6.4)
12	.310	(7.9)	1.250 (31.8)	.250 (6.4)	.380 (9.7)
14	.440	(11.2)	1.340 (34.0)	.310 (7.9)	.440 (11.2)
16	.560	(14.2)	1.470 (37.3)	.375 (9.5)	.630 (16.0)
18	.630	(16.0)	1.560 (39.6)	.560 (14.2)	.690 (17.5)
20	.750	(19.1)	1.620 (41.1)	.630 (16.0)	.750 (19.1)
22	.880	(22.4)	1.750 (44.5)	.750 (19.1)	.880 (22.4)
24	1.000	(25.4)	1.870 (47.5)	.880 (22.4)	1.000 (25.4)
28	1.060	(26.9)	1.970 (50.0)	1.000 (25.4)	1.130 (28.7)
32	1.190	(30.2)	2.090 (53.1)	1.130 (28.7)	1.250 (31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.

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447-427
EMI/RFI Non-Environmental Band-in-a-Can Backshell
with Cable Clamp Strain-Relief
Self-Locking Rotatable Coupling - Split Shell

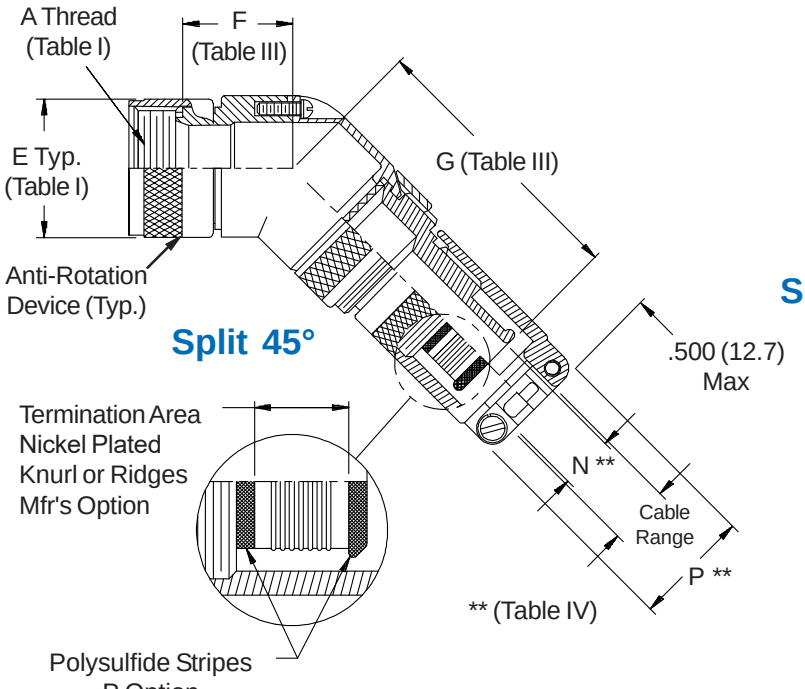
CONNECTOR DESIGNATORS

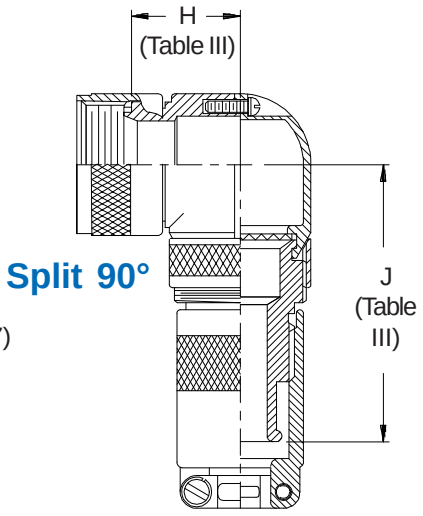
A-F-H-L-S

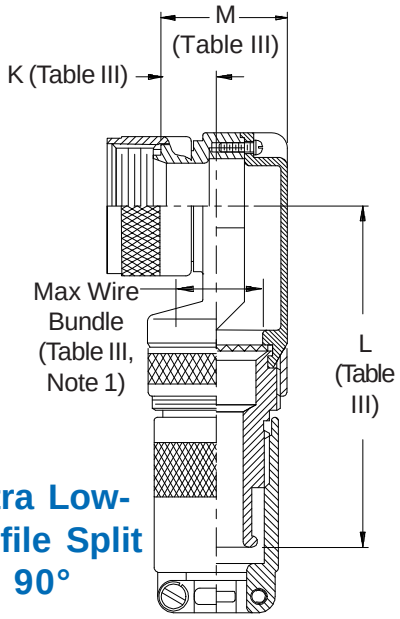
SELF-LOCKING ROTATABLE COUPLING

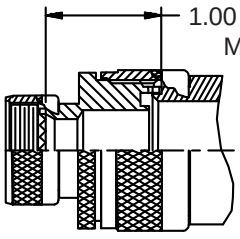
447 F D 427 NF 16 12 K P

- Product Series
- Connector Designator
- Angel and Profile
  - C = Low Profile Split 90°
  - D = Split 90°
  - F = Split 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Range (Table IV)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)

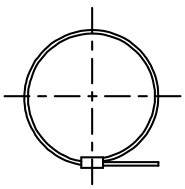








STYLE 2
(See Note 1)



Band Option
(K Option Shown -
See Note 3)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	F Max	G Max	H Max	J Max	K Ref	L Max	M Max	Function C Max Wire Bundle
08/09	.596 (15.1)	1.840 (46.7)	.836 (21.2)	1.780 (45.2)	.496 (12.6)	2.120 (53.8)	.837 (21.3)	.250 (6.4)
10/11	.656 (16.7)	1.900 (48.3)	.906 (23.0)	1.840 (46.7)	.426 (10.8)	2.280 (57.9)	.887 (22.5)	.375 (9.5)
12/13	.716 (18.2)	1.970 (50.0)	.966 (24.5)	1.910 (48.5)	.426 (10.8)	2.280 (57.9)	.887 (22.5)	.375 (9.5)
14/15	.776 (19.7)	2.000 (50.8)	1.026 (26.1)	1.940 (49.3)	.436 (11.1)	2.350 (59.7)	.987 (25.1)	.500 (12.7)
16/17	.836 (21.2)	2.100 (53.3)	1.086 (27.6)	2.040 (51.8)	.576 (14.6)	2.400 (61.0)	1.137 (28.9)	.625 (15.9)
18/19	.906 (23.0)	2.160 (54.9)	1.156 (29.4)	2.100 (53.3)	.796 (20.2)	2.430 (61.7)	1.337 (34.0)	.625 (15.9)
20/21	.976 (24.8)	2.220 (56.4)	1.216 (30.9)	2.160 (54.9)	.796 (20.2)	2.430 (61.7)	1.337 (34.0)	.625 (15.9)
22/23	1.036 (26.3)	2.280 (57.9)	1.276 (32.4)	2.220 (56.4)	.696 (17.7)	2.580 (65.5)	1.337 (34.0)	.750 (19.1)
24/25	1.096 (27.8)	2.340 (59.4)	1.336 (33.9)	2.280 (57.9)	.696 (17.7)	2.580 (65.5)	1.337 (34.0)	.750 (19.1)

TABLE IV: CABLE RANGE

Dash No.	N ±.030	N ±(.8)	P Max		Cable Range Min		Cable Range Max	
10	.220	(5.6)	1.000	(25.4)	.130	(3.3)	.250	(6.4)
12	.310	(7.9)	1.250	(31.8)	.250	(6.4)	.380	(9.7)
14	.440	(11.2)	1.340	(34.0)	.310	(7.9)	.440	(11.2)
16	.560	(14.2)	1.470	(37.3)	.375	(9.5)	.630	(16.0)
18	.630	(16.0)	1.560	(39.6)	.560	(14.2)	.690	(17.5)
20	.750	(19.1)	1.620	(41.1)	.630	(16.0)	.750	(19.1)
22	.880	(22.4)	1.750	(44.5)	.750	(19.1)	.880	(22.4)
24	1.000	(25.4)	1.870	(47.5)	.880	(22.4)	1.000	(25.4)
28	1.060	(26.9)	1.970	(50.0)	1.000	(25.4)	1.130	(28.7)
32	1.190	(30.2)	2.090	(53.1)	1.130	(28.7)	1.250	(31.8)

1. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions F, G, H, and J will not apply. Please consult factory.
2. Metric dimensions (mm) are indicated in parentheses.
3. Backshells supplied with 600-052-* band, see Glenair Series 600 Tool Catalog for installation.
4. Angular function "C", low-profile split elbow, not available with "S" connector designator.

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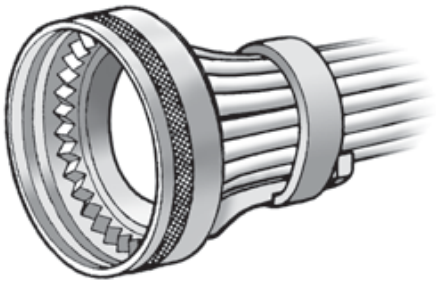

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PRODUCT FEATURES

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- Rotatable and Direct Coupling Styles
- Straight, 45° and 90° Configurations
- Optional Ground Lugs

The perfect strain-relief choice for high-volume, non-environmental applications

Light weight backshells, combined with plastic ties or lacing tape, provide medium-duty strain-relief for wire bundle applications

Glenair's Qwik-Ty® Strain Reliefs offer a unique method of providing strain relief to open wire bundles used with circular connectors. The Qwik-Ty® offers a low profile, reduced weight and simple installation. Installation is quick and secure, using either plastic tie straps or lacing tape. This simple, but secure attachment eliminates the frequent need of wrapping the wire bundle with tape to increase the bundle diameter to the size necessary to make conventional clamps function effectively. Many conventional cable clamps do not have adequate clamping range for modern day, small size wire bundles.

NOTE: Qwik-Ty® Strain Reliefs are not recommended for use with wire bundles containing wire sizes in excesses of 12 AWG (3 mm^2).

Qwik-Ty® is a registered trademark of Glenair, Inc.

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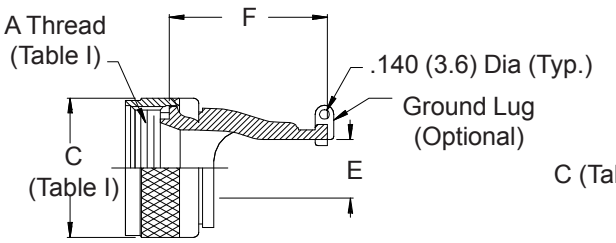
450-001
Qwik-Ty® Strain Relief - Connector Designator A
Rotatable Coupling (Straight, 45° and 90° Elbows)

CONNECTOR DESIGNATOR

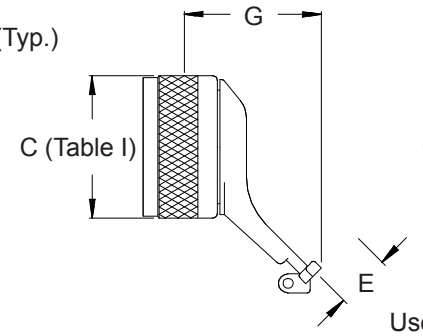
A

450 A S 001 M 16 G

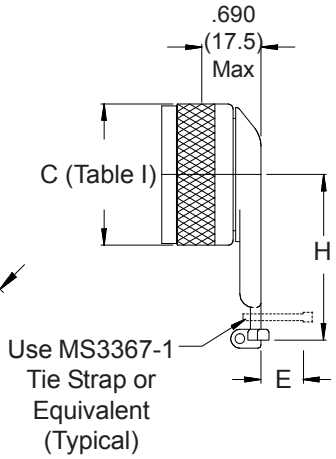
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



STRAIGHT ROTATABLE COUPLING



45° ROTATABLE COUPLING



90° ROTATABLE COUPLING

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Cable Entry		F Max		G Max		H Max	
08	.260	(6.6)	.866	(22.0)	1.066	(27.1)	.890	(22.6)
10	.365	(9.3)	.866	(22.0)	1.066	(27.1)	.950	(24.1)
12	.501	(12.7)	.926	(23.5)	1.066	(27.1)	1.010	(25.7)
14	.575	(14.6)	1.106	(28.1)	1.188	(30.2)	1.330	(33.8)
16	.700	(17.8)	1.106	(28.1)	1.226	(31.1)	1.390	(35.3)
18	.779	(19.8)	1.176	(29.9)	1.226	(31.1)	1.460	(37.1)
20	.904	(23.0)	1.306	(33.2)	1.226	(31.1)	1.510	(38.4)
22	1.029	(26.1)	1.426	(36.2)	1.226	(31.1)	1.570	(39.9)
24	1.144	(29.1)	1.556	(39.5)	1.226	(31.1)	1.640	(41.7)

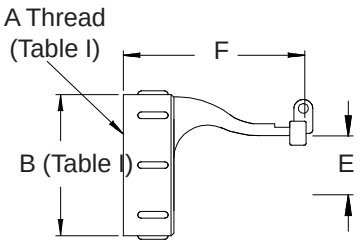
1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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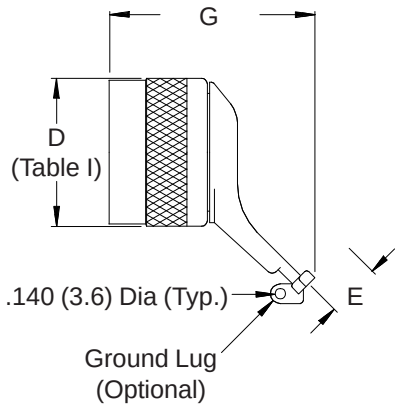
CONNECTOR DESIGNATOR
D

450 D S 001 M 16 G

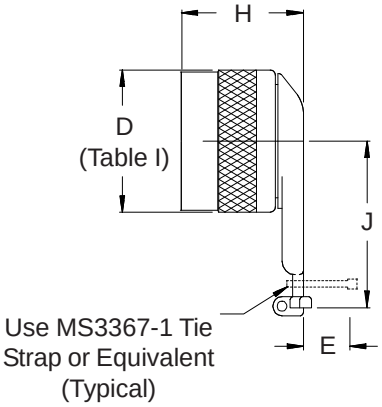
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



STRAIGHT DIRECT COUPLING



45° ROTATABLE COUPLING



90° ROTATABLE COUPLING

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Cable Entry	F Max	G Max	H Max	J Max
08	.275 (7.0)	1.400 (35.6)	1.850 (47.0)	1.240 (31.5)	.880 (22.4)
10	.402 (10.2)	1.400 (35.6)	1.850 (47.0)	1.240 (31.5)	.940 (23.9)
12	.516 (13.1)	1.400 (35.6)	1.850 (47.0)	1.240 (31.5)	1.000 (25.4)
14	.651 (16.5)	1.610 (40.9)	2.350 (59.7)	1.230 (31.2)	1.320 (33.5)
16	.766 (19.5)	1.610 (40.9)	2.350 (59.7)	1.230 (31.2)	1.380 (35.1)
18	.872 (22.1)	1.610 (40.9)	2.440 (62.0)	1.260 (32.0)	1.460 (37.1)
20	.997 (25.3)	1.680 (42.7)	2.510 (63.8)	1.260 (32.0)	1.510 (38.4)
22	1.125 (28.6)	1.680 (42.7)	2.510 (63.8)	1.260 (32.0)	1.560 (39.6)
24	1.247 (31.7)	1.770 (45.0)	2.650 (67.3)	1.260 (32.0)	1.630 (41.4)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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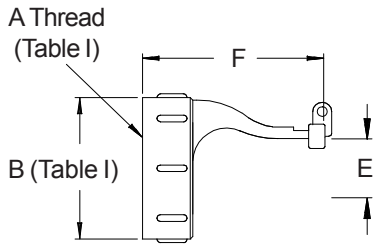
450-001 and 450-002
Qwik-Ty® Strain Relief - Connector Designator E
Direct Coupling (Straight)
Rotatable Coupling (Straight, 45° and 90° Elbows)

CONNECTOR DESIGNATOR

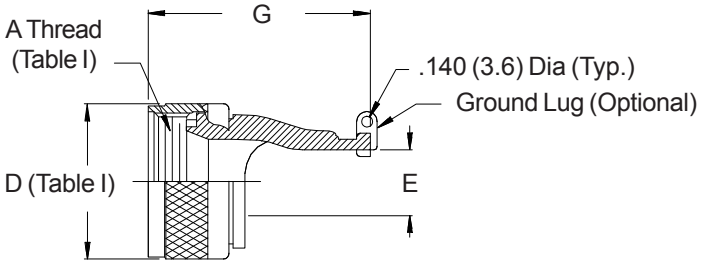
E

450 E S 001 M 16 G

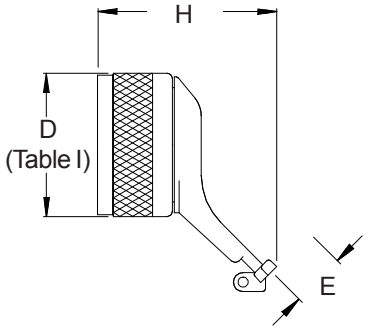
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°, B = 45°
  - S = Straight
- Basic Part Number
  - 001, 002
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



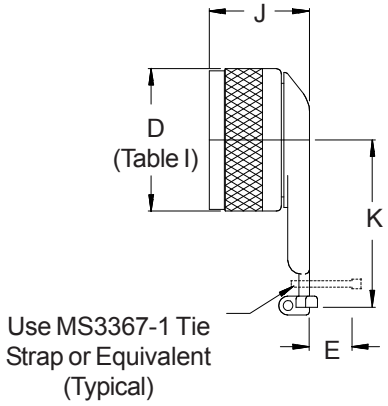
450ES001
STRAIGHT DIRECT COUPLING



450ES002
STRAIGHT ROTATABLE COUPLING



450EB001
45° ROTATABLE COUPLING



450EA001
90° ROTATABLE COUPLING

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Cable Entry	F Max	G Max	H Max	J Max	K Max
08	.355 (9.0)	1.060 (26.9)	1.350 (34.3)	1.320 (33.5)	.880 (22.4)	.940 (23.9)
10	.465 (11.8)	1.060 (26.9)	1.410 (35.8)	1.440 (36.6)	.880 (22.4)	1.000 (25.4)
12	.625 (15.9)	1.060 (26.9)	1.600 (40.6)	1.580 (40.1)	.880 (22.4)	1.320 (33.5)
14	.695 (17.7)	1.310 (33.3)	1.600 (40.6)	1.600 (40.6)	.970 (24.6)	1.410 (35.8)
16	.810 (20.6)	1.310 (33.3)	1.650 (41.9)	1.600 (40.6)	1.020 (25.9)	1.460 (37.1)
18	.942 (23.9)	1.310 (33.3)	1.780 (45.2)	1.630 (41.4)	1.020 (25.9)	1510 (38.4)
20	.968 (24.6)	1.310 (33.3)	1.900 (48.3)	1.630 (41.4)	.970 (24.6)	1.560 (39.6)
22	1.079 (27.4)	1.310 (33.3)	2.030 (51.6)	1.630 (41.4)	.970 (24.6)	1.560 (39.6)
24	1.300 (331.0)	1.310 (33.3)	2.060 (52.3)	1.630 (41.4)	.920 (23.4)	1.630 (41.4)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

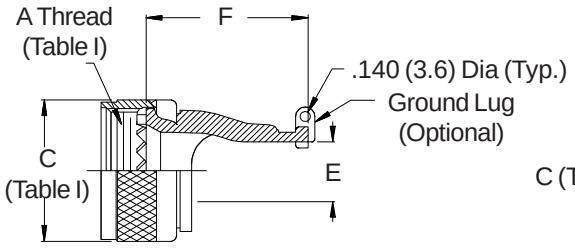
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CONNECTOR DESIGNATOR

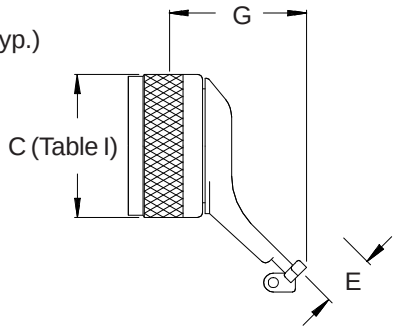
F

450 F S 001 M 16 G

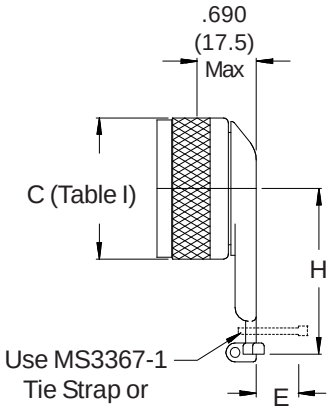
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



STRAIGHT ROTATABLE COUPLING



45° ROTATABLE COUPLING



90° ROTATABLE COUPLING

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Cable Entry		F Max		G Max		H Max	
08	.264	(6.7)	.866	(22.0)	1.066	(27.1)	.890	(22.6)
10	.392	(10.0)	.866	(22.0)	1.066	(27.1)	.950	(24.1)
12	.506	(12.9)	.926	(23.5)	1.066	(27.1)	1.010	(25.7)
14	.631	(16.0)	1.106	(28.1)	1.188	(30.2)	1.330	(33.8)
16	.756	(19.2)	1.106	(28.1)	1.226	(31.1)	1.390	(35.3)
18	.845	(21.5)	1.176	(29.9)	1.226	(31.1)	1.460	(37.1)
20	.970	(24.6)	1.306	(33.2)	1.226	(31.1)	1.510	(38.4)
22	1.095	(27.8)	1.426	(36.2)	1.226	(31.1)	1.510	(38.4)
24	1.220	(31.0)	1.556	(39.5)	1.226	(31.1)	1.640	(41.7)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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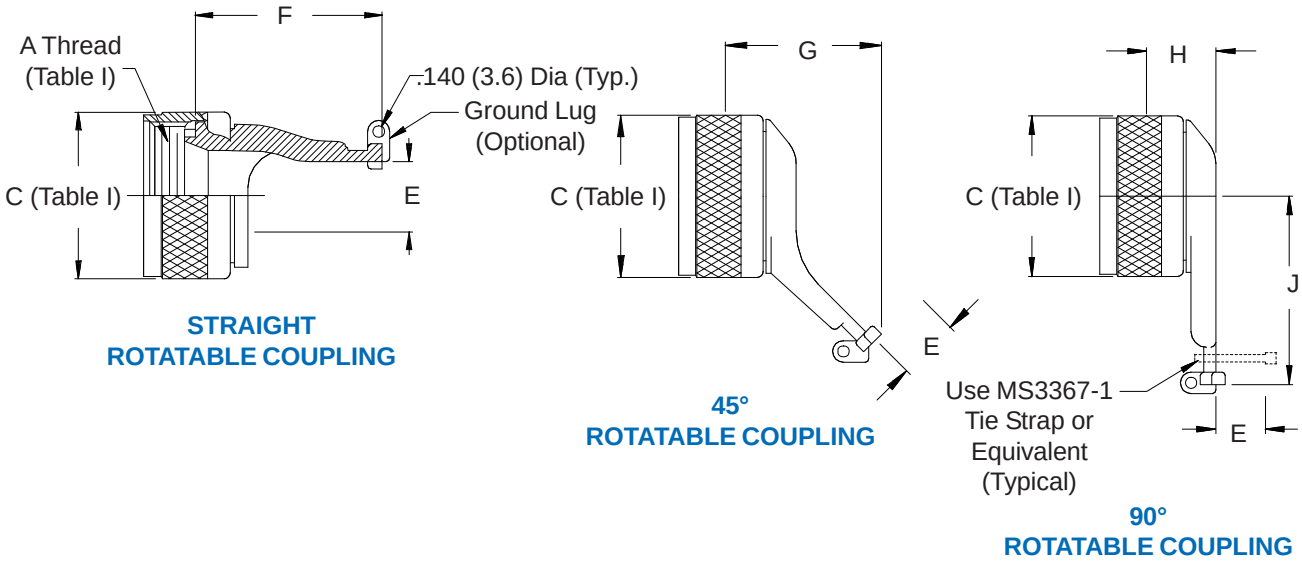
450-001
Qwik-Ty® Strain Relief - Connector Designator H
Rotatable Coupling (Straight, 45° and 90° Elbows)

CONNECTOR DESIGNATOR

H

450 H S 001 M 17 G

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Cable Entry	F Max	G Max	H Max	J Max
09	.250 (6.4)	.866 (22.0)	1.066 (27.1)	.406 (10.3)	.889 (22.6)
11	.382 (9.7)	.866 (22.0)	1.066 (27.1)	.406 (10.3)	.948 (24.1)
13	.500 (12.7)	.925 (23.5)	1.066 (27.1)	.406 (10.3)	1.070 (27.2)
15	.630 (16.0)	1.102 (28.0)	1.188 (30.2)	.438 (11.1)	1.330 (33.8)
17	.750 (19.1)	1.102 (28.0)	1.224 (31.1)	.438 (11.1)	1.389 (35.3)
19	.838 (21.3)	1.177 (29.9)	1.224 (31.1)	.438 (11.1)	1.480 (37.6)
21	.968 (24.6)	1.307 (33.2)	1.224 (31.1)	.438 (11.1)	1.661 (42.2)
23	1.090 (27.7)	1.425 (36.2)	1.224 (31.1)	.438 (11.1)	1.850 (47.0)
25	1.220 (31.0)	1.555 (39.5)	1.224 (31.1)	.438 (11.1)	1.909 (48.5)

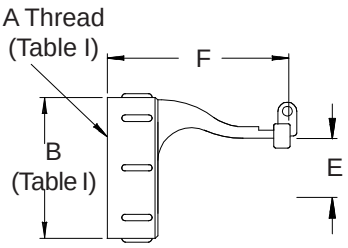
1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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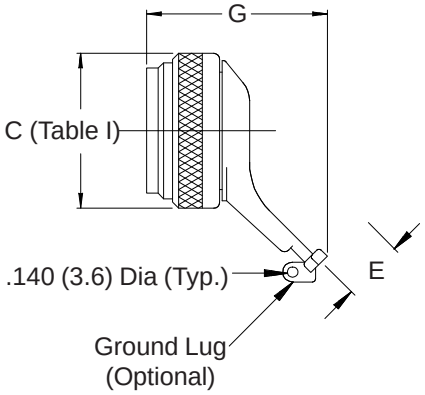
CONNECTOR DESIGNATOR J

450 J S 001 M 16 G

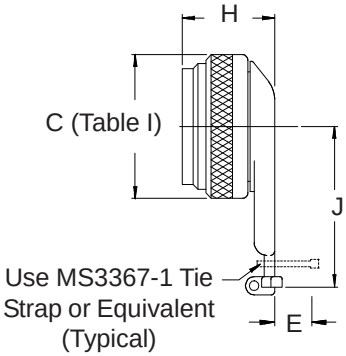
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



STRAIGHT DIRECT COUPLING



45° ROTATABLE COUPLING



90° ROTATABLE COUPLING

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Cable Entry	F Max	G Max	H Max	J Max
08	.375 (9.5)	1.250 (31.8)	1.630 (41.4)	.750 (19.1)	.940 (23.9)
10	.500 (12.7)	1.250 (31.8)	1.670 (42.4)	.750 (19.1)	1.000 (25.4)
14	.750 (19.1)	1.500 (38.1)	2.200 (55.9)	.750 (19.1)	1.380 (35.1)
16	.875 (22.2)	1.500 (38.1)	2.270 (57.7)	.780 (19.8)	1.460 (37.1)
18	1.000 (25.4)	1.500 (38.1)	2.330 (59.2)	.780 (19.8)	1.510 (38.4)
20	1.125 (28.6)	1.500 (38.1)	2.410 (61.2)	.810 (20.6)	1.560 (39.6)
22	1.250 (31.8)	1.500 (38.1)	2.550 (64.8)	.810 (20.6)	1.630 (41.4)
24	1.375 (34.9)	1.500 (38.1)	2.590 (65.8)	.810 (20.6)	1.710 (43.4)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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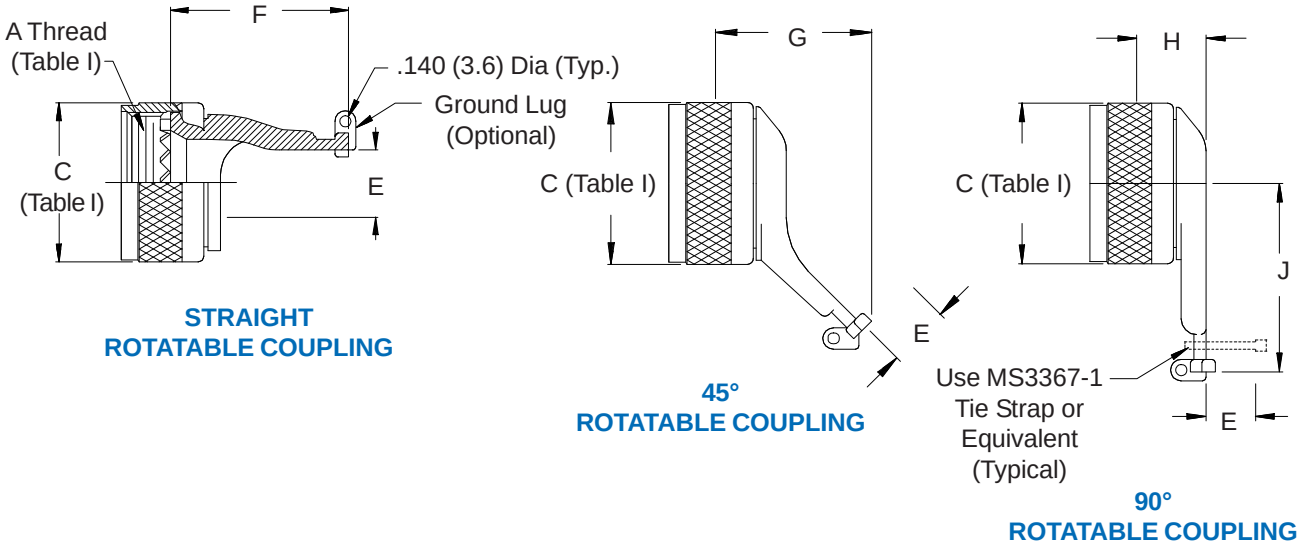
450-001
Qwik-Ty® Strain Relief - Connector Designator L
Rotatable Coupling (Straight, 45° and 90° Elbows)

CONNECTOR DESIGNATOR

L

450 L S 001 M 16 G

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: DIMENSIONS

Shell Size	E Cable Entry	F Max	G Max	H Max	J Max
08	.269 (6.8)	.866 (22.0)	1.066 (27.1)	.464 (11.8)	.890 (22.6)
10	.397 (10.1)	.866 (22.0)	1.066 (27.1)	.496 (12.6)	.950 (24.1)
12	.511 (13.0)	.926 (23.5)	1.066 (27.1)	.535 (13.6)	1.070 (27.2)
14	.636 (16.2)	1.106 (28.1)	1.188 (30.2)	.574 (14.6)	1.330 (33.8)
16	.761 (19.3)	1.106 (28.1)	1.224 (31.1)	.590 (15.0)	1.390 (35.3)
18	.850 (21.6)	1.176 (29.9)	1.224 (31.1)	.685 (17.4)	1.480 (37.6)
20	.975 (24.8)	1.306 (33.2)	1.224 (31.1)	.685 (17.4)	1.660 (42.2)
22	1.100 (27.9)	1.426 (36.2)	1.224 (31.1)	.716 (18.2)	1.850 (47.0)
24	1.225 (31.1)	1.556 (39.5)	1.224 (31.1)	.755 (19.2)	1.910 (48.5)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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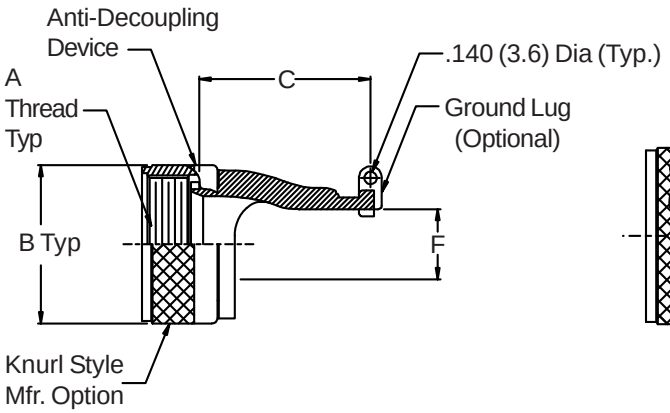
450-043
Qwik-Ty® Strain Relief - Connector Designator A
Rotatable Coupling (Straight, 45° and 90° Elbows) for Connectors per Table III

CONNECTOR DESIGNATOR

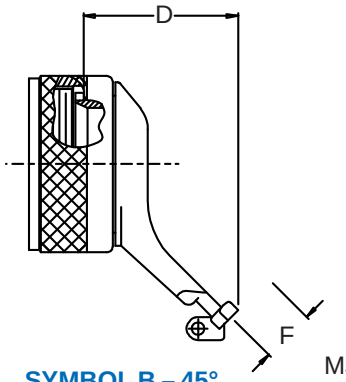
A

450 A S 043 M 16 G

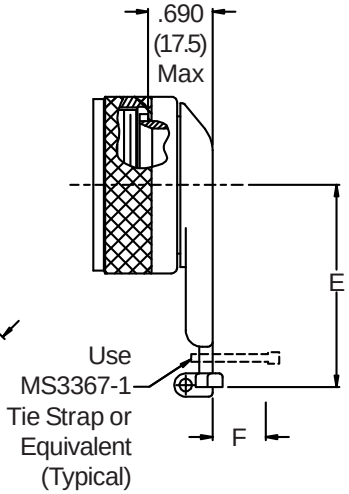
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



SYMBOL S – STRAIGHT ROTATABLE COUPLING



SYMBOL B – 45° ROTATABLE COUPLING



SYMBOL A – 90° ROTATABLE COUPLING

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CONNECTOR SHELL SIZE AND DIMENSIONS

Dash No.	CONNECTOR SHELL SIZE: MIL-DTL-83723 Series I & III	MIL-DTL-5015 MS3400 Series	AS81703 Series III	MIL-DTL-26482 Series II	A Thread Class 2B	B Max	C Max	D Max	E Max	F Cable Entry (See Note 1)
08	8	8S	–	8	1/2 – 20 UNF	.690 (17.5)	.950 (24.1)	1.190 (30.2)	.890 (22.6)	.260 (6.6)
10	10	10S, 10SL	–	10	5/8 – 24 UNEF	.820 (20.8)	1.000 (25.4)	1.190 (30.2)	.950 (24.1)	.395 (9.3)
12	12	12S, 12SL	7	12	3/4 – 20 UNEF	.940 (24.8)	1.020 (25.9)	1.190 (30.2)	1.010 (25.7)	.501 (12.7)
14	14	12, 14S	12	14	7/8 – 20 UNEF	1.060 (26.9)	1.190 (30.2)	1.320 (33.5)	1.330 (33.8)	.575 (14.6)
16	16	16, 16S	19	16	1 – 20 UNEF	1.170 (29.7)	1.190 (30.2)	1.320 (33.5)	1.390 (35.3)	.700 (17.8)
18	18	18	27	18	1 1/16 – 18 UNEF	1.290 (32.7)	1.300 (33.0)	1.320 (33.5)	1.460 (37.1)	.779 (19.8)
20	20	20	37	20	1 3/16 – 18 UNEF	1.420 (36.0)	1.430 (36.3)	1.320 (33.5)	1.510 (38.4)	.904 (23.0)
22	22	22	–	22	1 5/16 – 18 UNEF	1.540 (39.1)	1.520 (38.9)	1.320 (33.5)	1.570 (39.9)	1.029 (26.1)
24	24	24	–	24	1 7/16 – 18 UNEF	1.660 (42.2)	1.635 (41.5)	1.320 (33.5)	1.640 (41.7)	1.444 (29.1)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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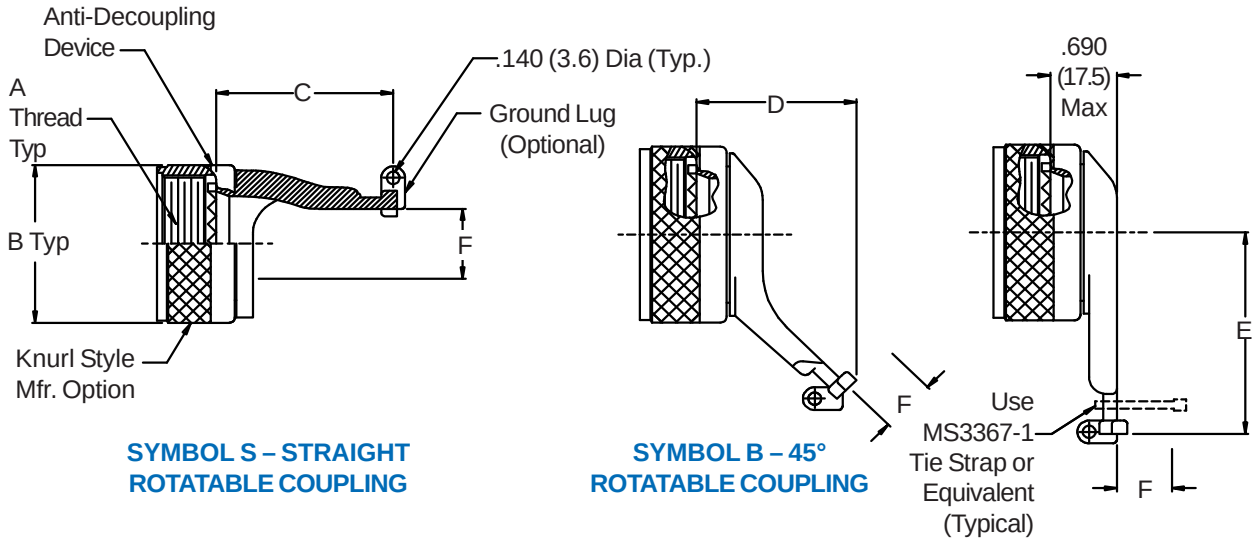
450-043
Qwik-Ty® Strain Relief - Connector Designator F
Rotatable Coupling (Straight, 45° and 90° Elbows) for MIL-DTL-38999 Series I & II Connectors

CONNECTOR DESIGNATOR

F

450 F S 043 M 16 G

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



SYMBOL S – STRAIGHT ROTATABLE COUPLING

SYMBOL B – 45° ROTATABLE COUPLING

SYMBOL A – 90° ROTATABLE COUPLING

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CONNECTOR SHELL SIZE AND DIMENSIONS

Dash No.	SHELL SIZE MIL-DTL-38999 Series II	SHELL SIZE MIL-DTL-38999 Series I	A Thread Class 2B	B Max	C Max	D Max	E Max	F Cable Entry (See Note 1)
08	08	09	7/16 – 28 UNEF	.690 (17.5)	.950 (24.1)	1.190 (30.2)	.890 (22.6)	.250 (6.4)
10	10	11	9/16 – 24 UNEF	.820 (20.8)	1.000 (25.4)	1.190 (30.2)	.950 (24.1)	.382 (9.7)
12	12	13	11/16 – 24 UNEF	.940 (24.8)	1.020 (25.9)	1.190 (30.2)	1.010 (25.7)	.500 (12.7)
14	14	15	13/16 – 20 UNEF	1.060 (26.9)	1.190 (30.2)	1.320 (33.5)	1.330 (33.8)	.630 (16.0)
16	16	17	15/16 – 20 UNEF	1.170 (29.7)	1.190 (30.2)	1.320 (33.5)	1.390 (35.3)	.750 (19.1)
18	18	19	1 1/16 – 18 UNEF	1.290 (32.7)	1.300 (33.0)	1.320 (33.5)	1.460 (37.1)	.838 (21.3)
20	20	21	1 3/16 – 18 UNEF	1.420 (36.0)	1.430 (36.3)	1.320 (33.5)	1.510 (38.4)	.968 (24.6)
22	22	23	1 5/16 – 18 UNEF	1.540 (39.1)	1.520 (38.9)	1.320 (33.5)	1.570 (39.9)	1.090 (27.7)
24	24	25	1 7/16 – 18 UNEF	1.660 (42.2)	1.635 (41.5)	1.320 (33.5)	1.640 (41.7)	1.220 (31.0)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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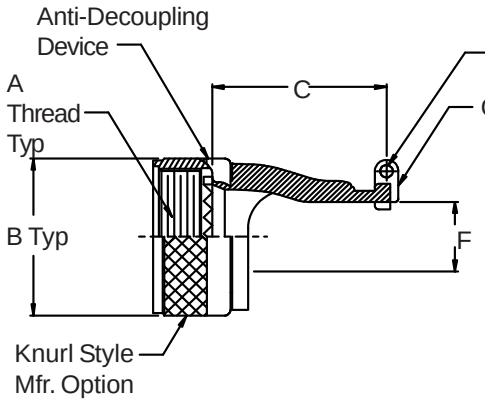
450-043
Qwik-Ty® Strain Relief - Connector Designator H
Rotatable Coupling (Straight, 45° and 90° Elbows)
for MIL-DTL-38999 Series III& IV Connectors

CONNECTOR DESIGNATOR

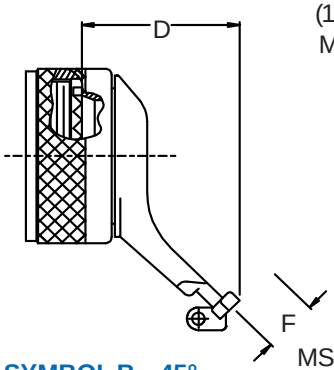
H

450 H S 043 M 16 G

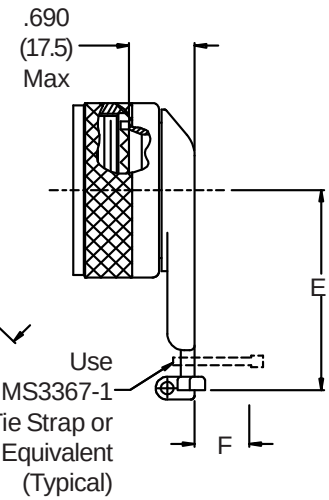
- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



SYMBOL S – STRAIGHT ROTATABLE COUPLING



SYMBOL B – 45° ROTATABLE COUPLING



SYMBOL A – 90° ROTATABLE COUPLING

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CONNECTOR SHELL SIZE AND DIMENSIONS

Shell Size	A Thread I.S.O. Metric	B Max	C Max	D Max	E Max	F Cable Entry (See Note 1)
09	M12 X 1.90 – 6H	.940 (24.8)	.950 (24.1)	1.190 (30.2)	.890 (22.6)	.250 (6.4)
11	M15 X 1.90 – 6H	1.060 (26.9)	1.000 (25.4)	1.190 (30.2)	.950 (24.1)	.382 (9.7)
13	M18 X 1.90 – 6H	1.170 (29.7)	1.020 (25.9)	1.190 (30.2)	1.010 (25.7)	.500 (12.7)
15	M22 X 1.90 – 6H	1.290 (32.7)	1.190 (30.2)	1.320 (33.5)	1.330 (33.8)	.630 (16.0)
17	M25 X 1.90 – 6H	1.420 (36.0)	1.190 (30.2)	1.320 (33.5)	1.390 (35.3)	.750 (19.1)
19	M28 X 1.90 – 6H	1.540 (39.1)	1.300 (33.0)	1.320 (33.5)	1.460 (37.1)	.838 (21.3)
21	M31 X 1.90 – 6H	1.670 (42.4)	1.430 (36.3)	1.320 (33.5)	1.510 (38.4)	.968 (24.6)
23	M34 X 1.90 – 6H	2.010 (51.1)	1.520 (38.9)	1.320 (33.5)	1.570 (39.9)	1.090 (27.7)
25	M37 X 1.90 – 6H	2.120 (53.8)	1.635 (41.5)	1.320 (33.5)	1.640 (41.7)	1.220 (31.0)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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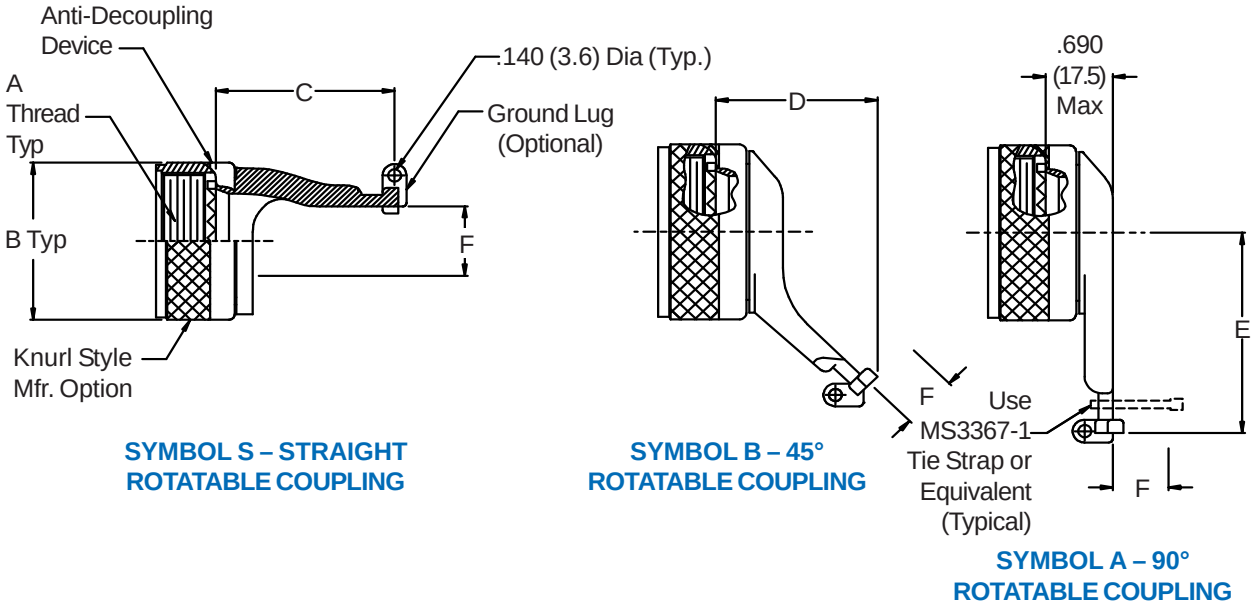
450-043
Qwik-Ty® Strain Relief - Connector Designator L
Rotatable Coupling (Straight, 45° and 90° Elbows) for MIL-DTL-38999 Series I & II Connectors

CONNECTOR DESIGNATOR

L

450 L S 043 M 16 G

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part Number
- Finish (Table II)
- Shell Size (Table I)
- Ground Lug (Omit for none)



SYMBOL S – STRAIGHT ROTATABLE COUPLING

SYMBOL B – 45° ROTATABLE COUPLING

SYMBOL A – 90° ROTATABLE COUPLING

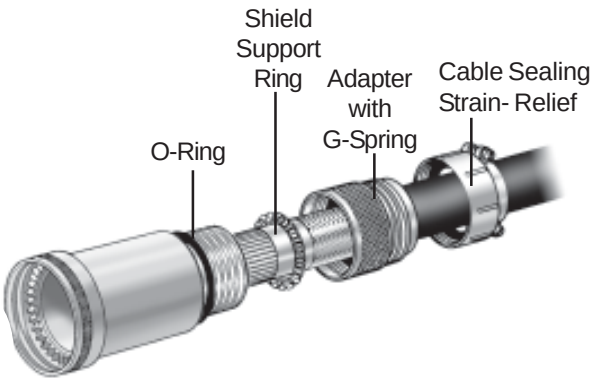
See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CONNECTOR SHELL SIZE AND DIMENSIONS

Shell Size	A Thread Class 2B	B Max	C Max	D Max	E Max	F Cable Entry (See Note 1)
08	7/16 – 28 UNEF	.690 (17.5)	.950 (24.1)	1.190 (30.2)	.890 (22.6)	.250 (6.4)
10	9/16 – 24 UNEF	.820 (20.8)	1.000 (25.4)	1.190 (30.2)	.950 (24.1)	.382 (9.7)
12	11/16 – 24 UNEF	.940 (24.8)	1.020 (25.9)	1.190 (30.2)	1.010 (25.7)	.500 (12.7)
14	13/16 – 20 UNEF	1.060 (26.9)	1.190 (30.2)	1.320 (33.5)	1.330 (33.8)	.630 (16.0)
16	15/16 – 20 UNEF	1.170 (29.7)	1.190 (30.2)	1.320 (33.5)	1.390 (35.3)	.750 (19.1)
18	1 1/16 – 18 UNEF	1.290 (32.7)	1.300 (33.0)	1.320 (33.5)	1.460 (37.1)	.838 (21.3)
20	1 3/16 – 18 UNEF	1.420 (36.0)	1.430 (36.3)	1.320 (33.5)	1.510 (38.4)	.968 (24.6)
22	1 5/16 – 18 UNEF	1.540 (39.1)	1.520 (38.9)	1.320 (33.5)	1.570 (39.9)	1.090 (27.7)
24	1 7/16 – 18 UNEF	1.660 (42.2)	1.635 (41.5)	1.320 (33.5)	1.640 (41.7)	1.220 (31.0)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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PRODUCT FEATURES

- **Unique Peripheral Spring Member Ensures Cable Shield Grounding While Preventing Distortion of Shield**
- **G-Spring Captivated in Compression Nut to Reduce Number of Loose Parts Handled During Assembly**
- **Water-Tight Cable Sealing Protects to Immeesion Depth of 3 ft.**
- **Rotatable, Self-Locking and Direct Coupling Styles**
- **Straight, 45°, 90° and Split Configurations in Standard and Low Profile Constructions**
- **Optional Strain-Relief or Compression Nut Styles**

Environmental G-Spring EMI/RFI backshell provides 360° grounding and effective cable sealing

Designed for environmental applications in which the make-up of the shield does not easily permit forming over a ground ring, banding platform or other terminating device

Cable jacket sealing versions of the G-Spring backshells utilize a resilient sealing member which is compressed by a separate threaded coupling, and is compressed independently from the G-Spring grounding member. This permits inspection of the G-Spring installation prior to compression of the cable jacket sealing member. The sealing ring also is captivated in either a compression nut or strain relief, again to eliminate excess loose component parts during assembly.

See assembly instructions, opposite page.

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463-001
EMI/RFI Environmental G-Spring Backshell
with Strain Relief
Rotatable Coupling - Low Profile

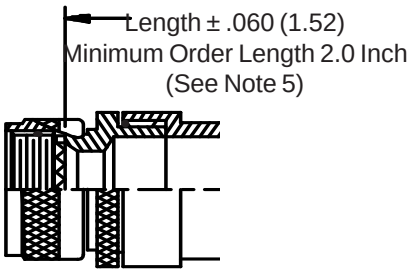
CONNECTOR DESIGNATORS

A-F-H-L-S

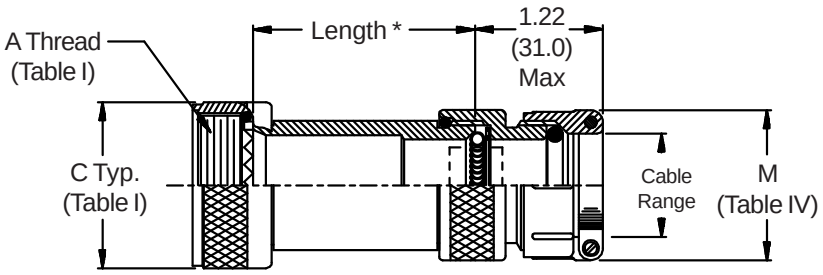
ROTATABLE COUPLING

463 F S 001 M 16 05 F 6

- Product Series: 463
- Connector Designator: F
- Angle and Profile: S
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.: 001
- Finish (Table II): M
- Shell Size (Table I): 16
- Cable Entry (Table IV): 05
- Strain Relief Style (F, G): F
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches): 6

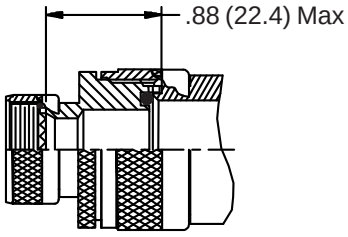


STYLE 2 (STRAIGHT See Note 1)

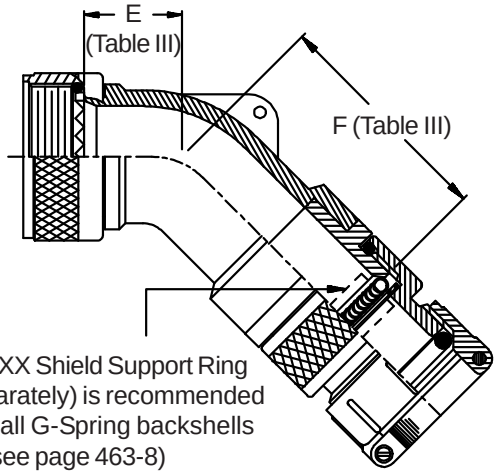


* Length ± .060 (1.52)
Minimum Order Length 1.5 Inch
(See Note 5)

Shown with Style F Strain Relief

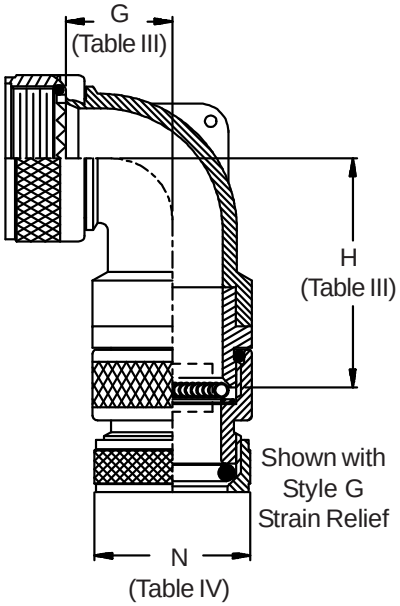


STYLE 2 (45° & 90° See Note 1)



469-001-XX Shield Support Ring (order separately) is recommended for use in all G-Spring backshells (see page 463-8)

Shown with Style F Strain Relief



Shown with Style G Strain Relief

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max	
08	09	.413	(10.5)	1.720	(43.7)	.500	(12.7)	1.670	(42.4)
10	11	.520	(13.2)	1.720	(43.7)	.595	(15.1)	1.790	(45.5)
12	13	.582	(14.8)	1.780	(45.2)	.610	(15.5)	1.810	(46.0)
14	15	.645	(16.4)	1.870	(47.5)	.700	(17.8)	1.880	(47.8)
16	17	.738	(18.7)	1.980	(50.3)	.885	(22.5)	1.970	(50.0)
18	19	.926	(23.5)	2.170	(55.1)	.975	(24.8)	2.140	(54.4)
20	21	.926	(23.5)	2.170	(55.1)	.975	(24.8)	2.140	(54.4)
22	23	1.020	(25.9)	2.320	(58.9)	1.125	(28.6)	2.250	(57.2)
24	25	1.020	(25.9)	2.320	(58.9)	1.125	(28.6)	2.250	(57.2)
28		1.145	(29.1)	2.370	(60.2)	1.225	(31.1)	2.420	(61.5)
32		1.207	(30.7)	2.470	(62.7)	1.575	(40.0)	2.670	(67.8)
36		1.238	(31.4)	2.560	(65.0)	1.775	(45.1)	2.670	(67.8)

TABLE IV: CABLE ENTRY

Dash No.	M Max		N Max		Cable Range Min		Cable Range Max	
01	.843	(21.4)	.625	(15.9)	.125	(3.2)	.250	(6.4)
02	.968	(24.6)	.750	(19.1)	.156	(4.0)	.375	(9.5)
03	1.046	(26.6)	.875	(22.2)	.250	(6.4)	.438	(11.1)
04	1.156	(29.4)	1.000	(25.4)	.280	(7.1)	.500	(12.7)
05	1.218	(30.9)	1.125	(28.6)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	1.250	(31.8)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	1.375	(34.9)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	1.500	(38.1)	.750	(19.1)	1.000	(25.4)
09	1.718	(43.6)	1.625	(41.3)	.875	(22.2)	1.125	(28.6)
10	1.843	(46.8)	1.750	(44.5)	1.000	(25.4)	1.250	(31.8)
11*	2.187	(55.5)	1.875	(47.6)	1.125	(28.6)	1.375	(34.9)
12*	2.312	(58.7)	2.000	(50.8)	1.250	(31.8)	1.500	(38.1)
13*	2.437	(61.9)	2.125	(54.0)	1.375	(34.9)	1.625	(41.3)
14*	2.546	(64.7)	2.250	(57.2)	1.500	(38.1)	1.750	(44.5)

* Consult factory for availability

1. Shield Support Ring (469-001-XX) is recommended for use in all G-Spring backshells (see page 463-8).
2. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
3. Metric dimensions (mm) are indicated in parentheses.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Consult factory for shorter lengths on straight backshells.
6. O-Ring not supplied with Connector Designator A.

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463-002
EMI/RFI Environmental G-Spring Backshell
with Strain Relief
Direct Coupling - Low Profile

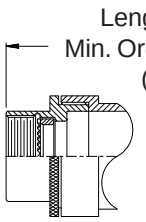
CONNECTOR DESIGNATORS
A-B*-C-D-E-F
G-H-J-K-L-S

*** Conn. Desig. B See Note 6**

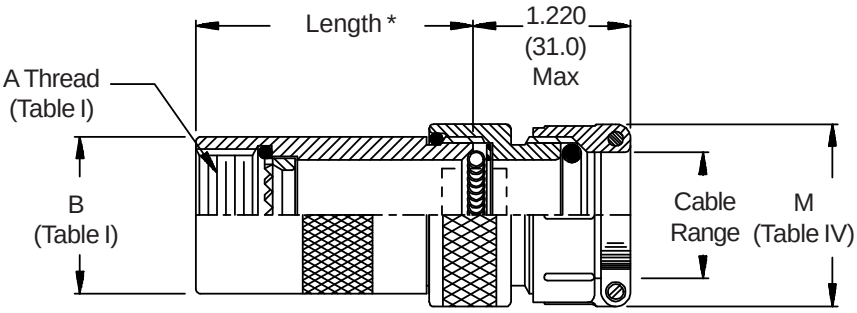
DIRECT COUPLING

463 F S 002 M 16 05 F 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
  - S = Straight
- Basic Part No.
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)
- Strain Relief Style (F, G)
- Cable Entry (Table V)
- Shell Size (Table I)
- Finish (Table II)

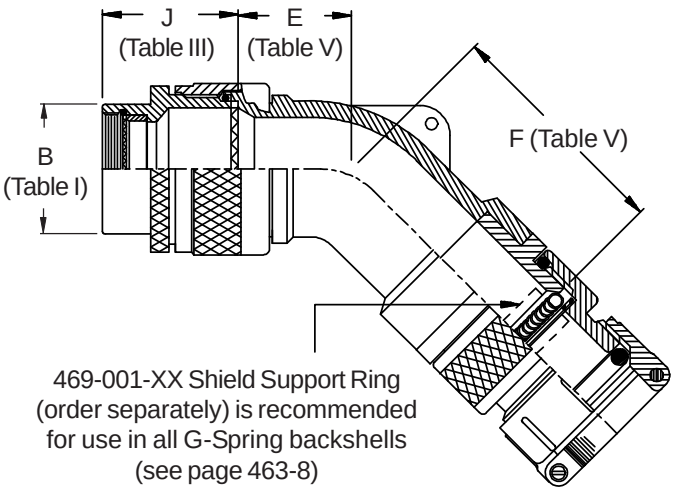


STYLE 2 (STRAIGHT See Note 1)



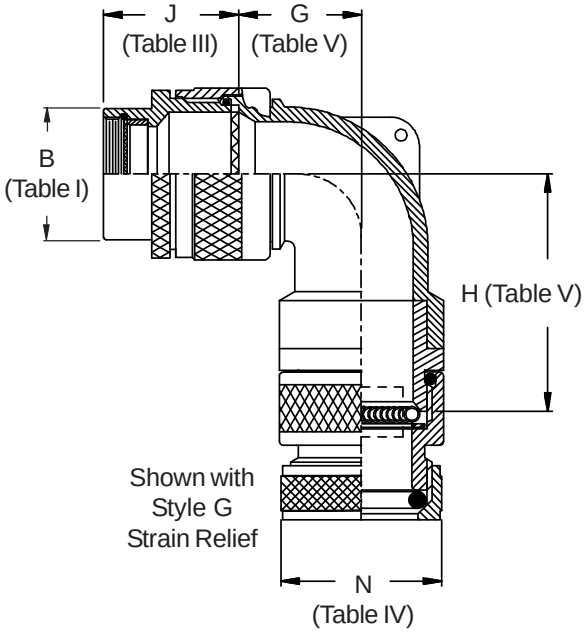
* Length ± .060 (1.52)
Minimum Order Length 1.5 Inch
(See Note 5)

Shown with Style F
Strain Relief



469-001-XX Shield Support Ring (order separately) is recommended for use in all G-Spring backshells (see page 463-8)

Shown with Style F
Strain Relief



Shown with Style G Strain Relief

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463-002
EMI/RFI Environmental G-Spring Backshell
with Strain Relief
Direct Coupling - Low Profile

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180(30.0)	1.440(36.6)	
10/11	1.180(30.0)	1.440(36.6)	
12/13	1.180(30.0)	1.440(36.6)	1.735(44.1)
14/15	1.180(30.0)	1.440(36.6)	1.915(48.6)
16/17	1.380(35.0)	1.560(39.6)	1.915(48.6)
18/19	1.380(35.0)	1.560(39.6)	1.915(48.6)
20/21	1.380(35.0)	1.560(39.6)	1.915(48.6)
22/23	1.380(35.0)	1.560(39.6)	1.915(48.6)
24/25	1.380(35.0)	1.560(39.6)	1.915(48.6)
28/29	1.610 (40.9)	1.560(39.6)	1.915(48.6)
32/33	1.610(40.9)	1.750(44.5)	1.915(48.6)
36	1.610(40.9)	1.750(44.5)	1.915(48.6)
40	1.610(40.9)	2.190(55.6)	1.915(48.6)

TABLE IV: CABLE ENTRY

Dash No.	M Max	N Max	Cable Range Min	Cable Range Max
01	.843 (21.4)	.625 (15.9)	.125 (3.2)	.250 (6.4)
02	.968 (24.6)	.750 (19.1)	.156 (4.0)	.375 (9.5)
03	1.046 (26.6)	.875 (22.2)	.250 (6.4)	.438 (11.1)
04	1.156 (29.4)	1.000 (25.4)	.280 (7.1)	.500 (12.7)
05	1.218 (30.9)	1.125 (28.6)	.375 (9.5)	.625 (15.9)
06	1.343 (34.1)	1.250 (31.8)	.500 (12.7)	.750 (19.1)
07	1.468 (37.3)	1.375 (34.9)	.625 (15.9)	.875 (22.2)
08	1.593 (40.5)	1.500 (38.1)	.750 (19.1)	1.000 (25.4)
09	1.718 (43.6)	1.625 (41.3)	.875 (22.2)	1.125 (28.6)
10	1.843 (46.8)	1.750 (44.5)	1.000 (25.4)	1.250 (31.8)
11*	2.187 (55.5)	1.875 (47.6)	1.125 (28.6)	1.375 (34.9)
12*	2.312 (58.7)	2.000 (50.8)	1.250 (31.8)	1.500 (38.1)
13*	2.437 (61.9)	2.125 (54.0)	1.375 (34.9)	1.625 (41.3)
14*	2.546 (64.7)	2.250 (57.2)	1.500 (38.1)	1.750 (44.5)

* Consult factory for availability

TABLE V: ELBOW DIMENSIONS

Elbow Size	E Max	F Max	G Max	H Max
01	.630 (16.0)	1.720 (43.7)	.636 (16.2)	1.670 (42.4)
02	.630 (16.0)	1.720 (43.7)	.710 (18.0)	1.790 (45.5)
03	.692 (17.6)	1.780 (45.2)	.734 (18.6)	1.810 (46.0)
04	.755 (19.2)	1.870 (47.5)	.825 (21.0)	1.880 (47.8)
05	.848 (21.5)	1.980 (50.3)	.988 (25.1)	1.970 (50.0)
06	1.036 (26.3)	2.170 (55.1)	1.087 (27.6)	2.140 (54.4)
07	1.036 (26.3)	2.170 (55.1)	1.087 (27.6)	2.140 (54.4)
08	1.130 (28.7)	2.320 (58.9)	1.325 (33.7)	2.250 (57.2)
09	1.130 (28.7)	2.320 (58.9)	1.325 (33.7)	2.250 (57.2)
10	1.255 (31.9)	2.370 (60.2)	1.337 (34.0)	2.420 (61.5)
11	1.317 (33.5)	2.470 (62.7)	1.827 (46.4)	2.670 (67.8)
12	1.317 (33.5)	2.470 (62.7)	1.827 (46.4)	2.670 (67.8)
13	1.348 (34.2)	2.560 (65.0)	2.027 (51.5)	2.670 (67.8)
14	1.348 (34.2)	2.560 (65.0)	2.027 (51.5)	2.670 (67.8)

1. Shield Support Ring (469-001-XX) is recommended for use in all G-Spring backshells (see page 463-8).
2. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. Angular Function S only.
3. Metric dimensions (mm) are indicated in parentheses.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Consult factory for shorter lengths on straight backshells.
6. When using Connector Designator B refer to pages 18 and 19 for part number development.

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CAGE Code 06324
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463-003
EMI/RFI Environmental G-Spring Backshell
with Strain Relief
Rotatable Coupling - Standard Profile

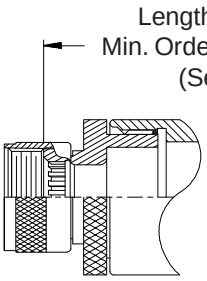
CONNECTOR DESIGNATOR

G

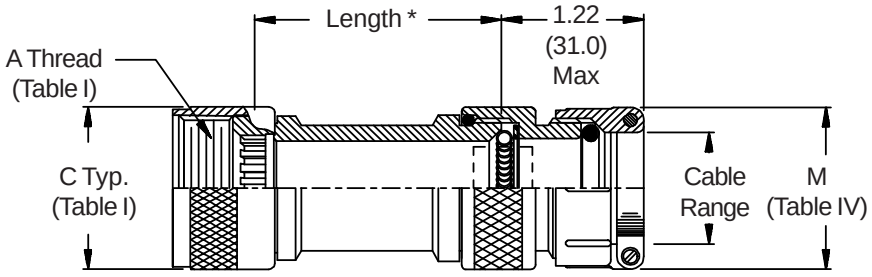
ROTATABLE COUPLING

463 G S 003 M 17 10 F 6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Strain Relief Style (F, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

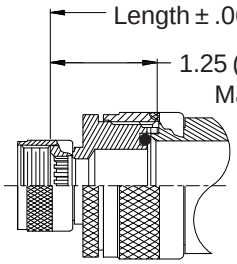


STYLE 2 (STRAIGHT See Note 1)

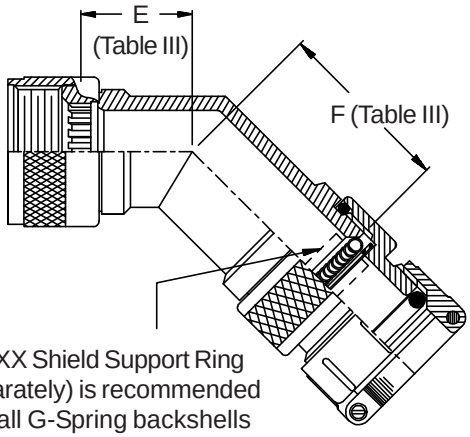


* Length ± .060 (1.52)
Minimum Order Length 1.5 Inch
(See Note 5)

Shown with Style F
Strain Relief

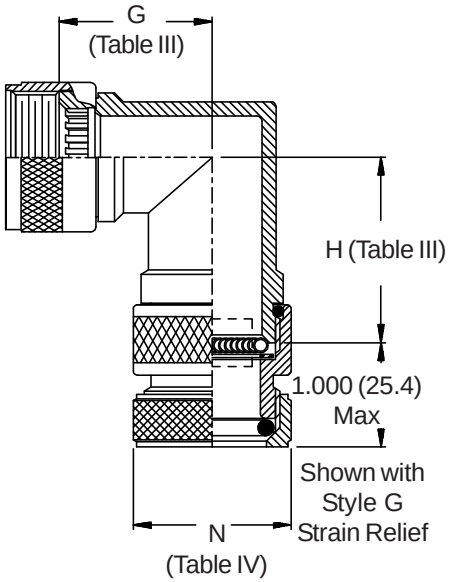


STYLE 2 (45° & 90° See Note 1)



469-001-XX Shield Support Ring
(order separately) is recommended
for use in all G-Spring backshells
(see page 463-8)

Shown with Style F
Strain Relief



Shown with
Style G
Strain Relief

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max		F Max		G Max		H Max	
11	1.240	(31.5)	1.630	(41.4)	1.380	(35.1)	1.770	(45.0)
13	1.260	(32.0)	1.650	(41.9)	1.440	(36.6)	1.830	(46.5)
15	1.290	(32.8)	1.680	(42.7)	1.500	(38.1)	1.900	(48.3)
17	1.310	(33.3)	1.700	(43.2)	1.570	(39.9)	1.960	(49.8)
19	1.340	(34.0)	1.730	(43.9)	1.630	(41.4)	2.040	(51.8)
23	1.380	(35.1)	1.770	(45.0)	1.730	(43.9)	2.120	(53.3)
25	1.410	(35.8)	1.800	(45.7)	1.800	(45.7)	2.190	(53.8)
29	1.580	(40.1)	1.970	(50.0)	2.040	(51.8)	2.430	(61.7)
33	1.620	(41.1)	2.010	(51.1)	2.130	(54.1)	2.520	(64.0)

TABLE IV: CABLE ENTRY

Dash No.	M Max		N Max		Cable Range Min		Cable Range Max	
01	.843	(21.4)	.625	(15.9)	.125	(3.2)	.250	(6.4)
02	.968	(24.6)	.750	(19.1)	.156	(4.0)	.375	(9.5)
03	1.046	(26.6)	.875	(22.2)	.250	(6.4)	.438	(11.1)
04	1.156	(29.4)	1.000	(25.4)	.280	(7.1)	.500	(12.7)
05	1.218	(30.9)	1.125	(28.6)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	1.250	(31.8)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	1.375	(34.9)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	1.500	(38.1)	.750	(19.1)	1.000	(25.4)
09	1.718	(43.6)	1.625	(41.3)	.875	(22.2)	1.125	(28.6)
10	1.843	(46.8)	1.750	(44.5)	1.000	(25.4)	1.250	(31.8)
11*	2.187	(55.5)	1.875	(47.6)	1.125	(28.6)	1.375	(34.9)
12*	2.312	(58.7)	2.000	(50.8)	1.250	(31.8)	1.500	(38.1)
13*	2.437	(61.9)	2.125	(54.0)	1.375	(34.9)	1.625	(41.3)
14*	2.546	(64.7)	2.250	(57.2)	1.500	(38.1)	1.750	(44.5)

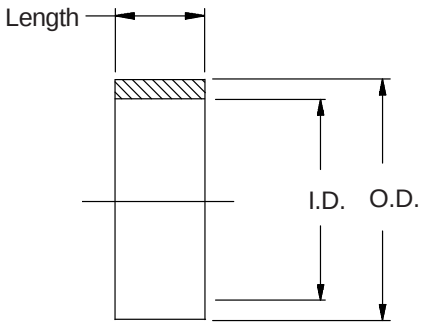
* Consult factory for availability

1. Shield Support Ring (469-001-XX) is recommended for use in all G-Spring backshells (see page 463-8).
2. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
3. Metric dimensions (mm) are indicated in parentheses.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Consult factory for shorter lengths on straight backshells.

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469-001
Shield Support Ring for Use with G-Spring Backshells

For use with Series 460 and 463 G-Spring Backshells



469-001-22

Basic Part No.

Dash No.

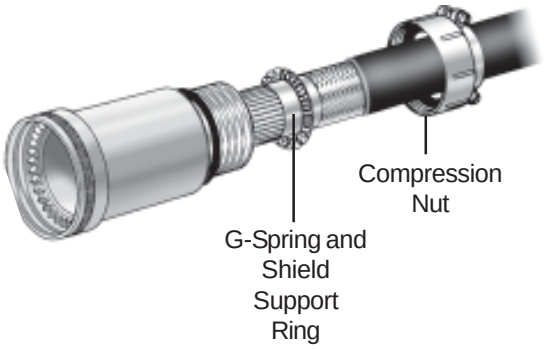
Dash No.	I.D. ± .010	I.D. (.3)	O.D. ± .010	O.D. (.3)	Length (Note 2)	Length (Note 2)
01	.187	(4.7)	.227	(5.8)	.50	(12.7)
02	.218	(5.5)	.258	(6.6)	.50	(12.7)
03	.250	(6.4)	.290	(7.4)	.50	(12.7)
04	.281	(7.1)	.321	(8.2)	.50	(12.7)
05	.312	(7.9)	.352	(8.9)	.50	(12.7)
06	.343	(8.7)	.383	(9.7)	.50	(12.7)
07	.375	(9.5)	.415	(10.5)	.50	(12.7)
08	.406	(10.3)	.446	(11.3)	.50	(12.7)
09	.438	(11.1)	.478	(12.1)	.50	(12.7)
10	.468	(11.9)	.508	(12.9)	.50	(12.7)
11	.500	(12.7)	.540	(13.7)	.50	(12.7)
12	.531	(13.5)	.571	(14.5)	.50	(12.7)
13	.562	(14.3)	.602	(15.3)	.50	(12.7)
14	.593	(15.1)	.633	(16.1)	.50	(12.7)
15	.625	(15.9)	.665	(16.9)	.50	(12.7)
16	.656	(16.7)	.696	(17.7)	.50	(12.7)
17	.687	(17.4)	.727	(18.5)	.50	(12.7)
18	.718	(18.2)	.758	(19.3)	.50	(12.7)
19	.750	(19.1)	.790	(20.1)	.75	(19.1)
20	.781	(19.8)	.821	(20.9)	.75	(19.1)
21	.812	(20.6)	.852	(21.6)	.75	(19.1)
22	.843	(21.4)	.883	(22.4)	.75	(19.1)
23	.875	(22.2)	.915	(23.2)	.75	(19.1)
24	.906	(23.0)	.946	(24.0)	.75	(19.1)
25	.937	(23.8)	.977	(24.8)	.75	(19.1)
26	.968	(24.6)	1.008	(25.6)	.75	(19.1)
27	1.000	(25.4)	1.040	(26.4)	.75	(19.1)

Dash No.	I.D. ± .010	I.D. (.3)	O.D. ± .010	O.D. (.3)	Length (Note 2)	Length (Note 2)
28	1.031	(26.2)	1.071	(27.2)	.75	(19.1)
29	1.062	(27.0)	1.102	(28.0)	.75	(19.1)
30	1.093	(27.8)	1.133	(28.8)	.75	(19.1)
31	1.125	(28.6)	1.165	(29.6)	.75	(19.1)
32	1.156	(29.4)	1.196	(30.4)	.75	(19.1)
33	1.187	(30.1)	1.227	(31.2)	.75	(19.1)
34	1.218	(30.9)	1.258	(32.0)	.75	(19.1)
35	1.250	(31.8)	1.290	(32.8)	.75	(19.1)
36	1.281	(32.5)	1.321	(33.6)	.75	(19.1)
37	1.312	(33.3)	1.352	(34.3)	1.00	(25.4)
38	1.343	(34.1)	1.383	(35.1)	1.00	(25.4)
39	1.375	(34.9)	1.415	(35.9)	1.00	(25.4)
40	1.406	(35.7)	1.446	(36.7)	1.00	(25.4)
41	1.437	(36.5)	1.477	(37.5)	1.00	(25.4)
42	1.468	(37.3)	1.508	(38.3)	1.00	(25.4)
43	1.500	(38.1)	1.540	(39.1)	1.00	(25.4)
44	1.531	(38.9)	1.571	(39.9)	1.00	(25.4)
45	1.562	(39.7)	1.602	(40.7)	1.00	(25.4)
46	1.593	(40.5)	1.633	(41.5)	1.00	(25.4)
47	1.625	(41.3)	1.665	(42.3)	1.00	(25.4)
48	1.656	(42.1)	1.696	(43.1)	1.00	(25.4)
49	1.687	(42.8)	1.727	(43.9)	1.00	(25.4)
50	1.718	(43.6)	1.758	(44.7)	1.00	(25.4)
51	1.750	(44.5)	1.790	(45.5)	1.00	(25.4)
52	1.781	(45.2)	1.821	(46.3)	1.00	(25.4)
53	1.812	(46.0)	1.852	(47.0)	1.00	(25.4)
54	1.843	(46.8)	1.883	(47.8)	1.00	(25.4)

1. Finish : Clear Anodize
2. Consult factory for other available lengths.
3. Metric dimensions (mm) are indicated in parentheses.

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Series 460
Non-Environmental
EMI/RFI G-Spring Backshells



PRODUCT FEATURES

- **Unique Peripheral Spring Member Ensures Cable Shield Grounding While Preventing Distortion of Shield**
- **G-Spring Captivated in Compression Nut to Reduce Number of Loose Parts Handled During Assembly**
- **Rotatable, Self-Locking and Direct Coupling Styles**
- **Straight, 45°, 90° and Split Configurations**
- **Optional Strain-Relief or Compression Nut**

G-Spring EMI/RFI backshell provides 360° grounding without damaging shielding

Ideal for applications in which the make-up of the shield does not easily permit forming over a ground ring, banding platform or other terminating device

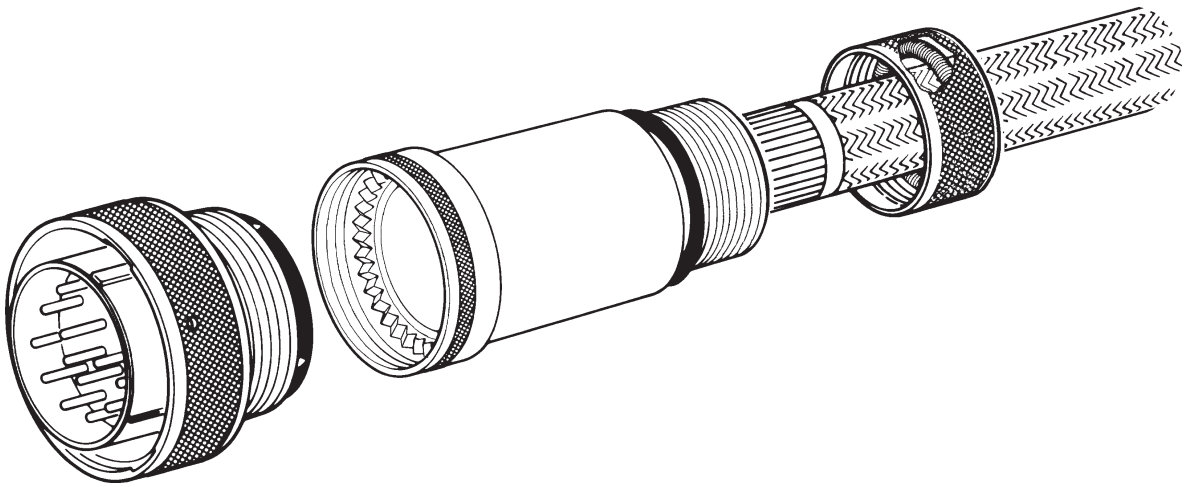
Glenair's "G-Spring" backshells provide an innovative method of terminating and grounding overall shields, screens and metal foil shielding on wiring harnesses and cables. The G-Spring design provides a peripheral spring member which compresses against the exposed shield to effect positive electrical grounding around the entire circumference of the shield. This design is particularly well suited for applications where disturbance or distortion of the shield is undesirable, or the makeup of the shield does not easily permit forming over a grounding ring or other termination device. It is available in both non-environmental and cable jacket sealing versions. An inner support ring inserted under the shield or screen prevents damage to the wire conductor insulation at the point where the G-Spring makes contact with the shield.

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Glenair®

Series 460
Non-Environmental EMI/RFI G-Spring Backshells
Assembly Instructions

ASSEMBLY INSTRUCTIONS 460-1



The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Non-Environmental Backshells (Type 460 G-spring Termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors.

a. Temporarily assemble backshell to connector.

b. Place backshell, support ring (if used), G-Spring, nut or strain relief on cable or harness in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable or harness into backshell and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell.

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above.

f. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

g. Slide backshell forward to connector, and tighten securely.

h. Move support ring (optional component used over lose wire bundles) forward, ahead of the trimmed outer shield, then slide support ring backward under outer shield. Pull outer shield forward covering support ring.

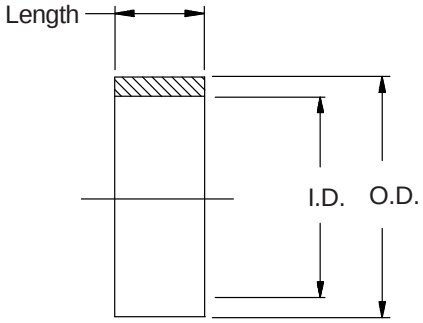
i. Bring G-spring forward, and position on outer shield directly over the support at the rear of the backshell. Push G-spring and support ring into beveled area of backshell.

j. Engage strain relief to backshell and tighten securely. Tighten relief saddles securely on cable or harness. This will then provide a good grounding or bonding joint for the over-all shields.

NOTE: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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469-001
Shield Support Ring for Use with G-Spring Backshells



469-001-22
Basic Part No.
Dash No.

For use with Series 460 and 463 G-Spring Backshells

Dash No.	I.D. ± .010	I.D. (.3)	O.D. ± .010	O.D. (.3)	Length (Note 2)	Length (Note 2)
01	.187	(4.7)	.227	(5.8)	.50	(12.7)
02	.218	(5.5)	.258	(6.6)	.50	(12.7)
03	.250	(6.4)	.290	(7.4)	.50	(12.7)
04	.281	(7.1)	.321	(8.2)	.50	(12.7)
05	.312	(7.9)	.352	(8.9)	.50	(12.7)
06	.343	(8.7)	.383	(9.7)	.50	(12.7)
07	.375	(9.5)	.415	(10.5)	.50	(12.7)
08	.406	(10.3)	.446	(11.3)	.50	(12.7)
09	.438	(11.1)	.478	(12.1)	.50	(12.7)
10	.468	(11.9)	.508	(12.9)	.50	(12.7)
11	.500	(12.7)	.540	(13.7)	.50	(12.7)
12	.531	(13.5)	.571	(14.5)	.50	(12.7)
13	.562	(14.3)	.602	(15.3)	.50	(12.7)
14	.593	(15.1)	.633	(16.1)	.50	(12.7)
15	.625	(15.9)	.665	(16.9)	.50	(12.7)
16	.656	(16.7)	.696	(17.7)	.50	(12.7)
17	.687	(17.4)	.727	(18.5)	.50	(12.7)
18	.718	(18.2)	.758	(19.3)	.50	(12.7)
19	.750	(19.1)	.790	(20.1)	.75	(19.1)
20	.781	(19.8)	.821	(20.9)	.75	(19.1)
21	.812	(20.6)	.852	(21.6)	.75	(19.1)
22	.843	(21.4)	.883	(22.4)	.75	(19.1)
23	.875	(22.2)	.915	(23.2)	.75	(19.1)
24	.906	(23.0)	.946	(24.0)	.75	(19.1)
25	.937	(23.8)	.977	(24.8)	.75	(19.1)
26	.968	(24.6)	1.008	(25.6)	.75	(19.1)
27	1.000	(25.4)	1.040	(26.4)	.75	(19.1)

Dash No.	I.D. ± .010	I.D. (.3)	O.D. ± .010	O.D. (.3)	Length (Note 2)	Length (Note 2)
28	1.031	(26.2)	1.071	(27.2)	.75	(19.1)
29	1.062	(27.0)	1.102	(28.0)	.75	(19.1)
30	1.093	(27.8)	1.133	(28.8)	.75	(19.1)
31	1.125	(28.6)	1.165	(29.6)	.75	(19.1)
32	1.156	(29.4)	1.196	(30.4)	.75	(19.1)
33	1.187	(30.1)	1.227	(31.2)	.75	(19.1)
34	1.218	(30.9)	1.258	(32.0)	.75	(19.1)
35	1.250	(31.8)	1.290	(32.8)	.75	(19.1)
36	1.281	(32.5)	1.321	(33.6)	.75	(19.1)
37	1.312	(33.3)	1.352	(34.3)	1.00	(25.4)
38	1.343	(34.1)	1.383	(35.1)	1.00	(25.4)
39	1.375	(34.9)	1.415	(35.9)	1.00	(25.4)
40	1.406	(35.7)	1.446	(36.7)	1.00	(25.4)
41	1.437	(36.5)	1.477	(37.5)	1.00	(25.4)
42	1.468	(37.3)	1.508	(38.3)	1.00	(25.4)
43	1.500	(38.1)	1.540	(39.1)	1.00	(25.4)
44	1.531	(38.9)	1.571	(39.9)	1.00	(25.4)
45	1.562	(39.7)	1.602	(40.7)	1.00	(25.4)
46	1.593	(40.5)	1.633	(41.5)	1.00	(25.4)
47	1.625	(41.3)	1.665	(42.3)	1.00	(25.4)
48	1.656	(42.1)	1.696	(43.1)	1.00	(25.4)
49	1.687	(42.8)	1.727	(43.9)	1.00	(25.4)
50	1.718	(43.6)	1.758	(44.7)	1.00	(25.4)
51	1.750	(44.5)	1.790	(45.5)	1.00	(25.4)
52	1.781	(45.2)	1.821	(46.3)	1.00	(25.4)
53	1.812	(46.0)	1.852	(47.0)	1.00	(25.4)
54	1.843	(46.8)	1.883	(47.8)	1.00	(25.4)

1. Finish : Clear Anodize
2. Consult factory for other available lengths.
3. Metric dimensions (mm) are indicated in parentheses.

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460-001
EMI/RFI Non-Environmental G-Spring Backshell
with Strain Relief
Rotatable Coupling - Low Profile

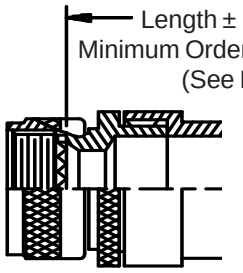
CONNECTOR DESIGNATORS

A-F-H-L-S

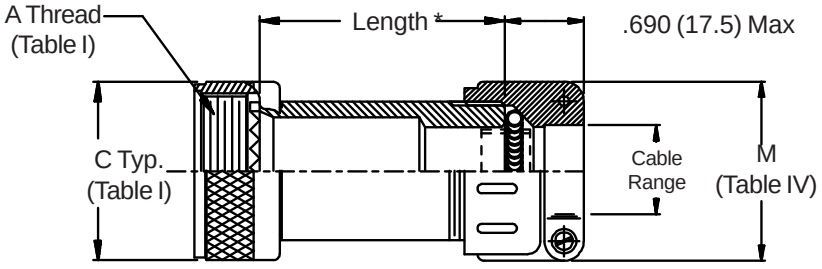
ROTATABLE COUPLING

460 F S 001 M 16 05 F 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90° Solid
  - B = 45°
  - D = 90° Split
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Strain Relief Style (F, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

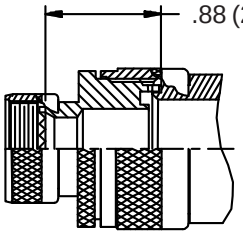


STYLE 2 (STRAIGHT See Note 1)

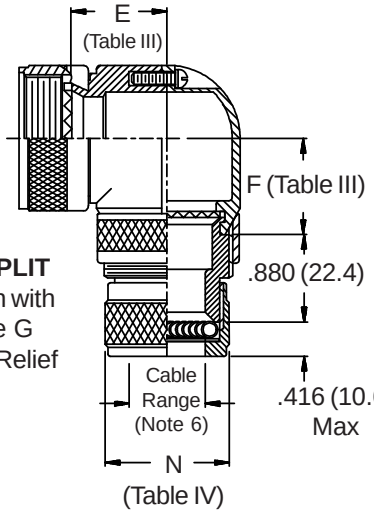


* Length ± .060 (1.52) Minimum Order Length 1.5 Inch (See Note 5)

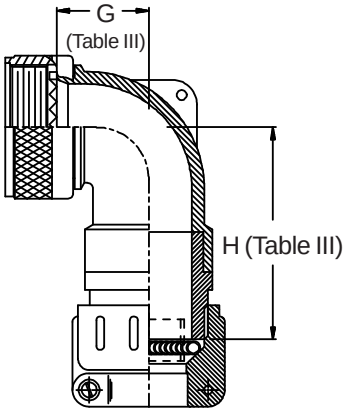
Shown with Style F Strain Relief



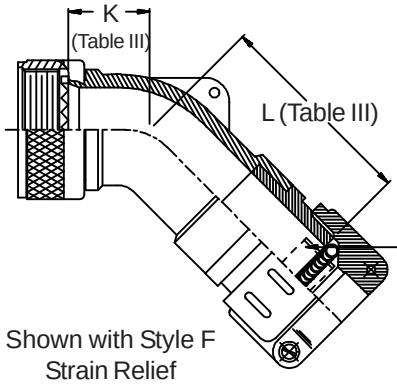
STYLE 2 (45° & 90° See Note 1)



90° SPLIT Shown with Style G Strain Relief



90° SOLID Shown with Style F Strain Relief



Shown with Style F Strain Relief

469-001-XX Shield Support Ring (order separately) is recommended for use in all G-Spring backshells (see page 463-8)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	E Max		F Max		G Max		H Max		K Max		L Max	
08	09	.680	(17.3)	.560	(14.2)	.500	(12.7)	1.670	(42.4)	.413	(10.5)	1.720	(43.7)
10	11	.750	(19.1)	.620	(15.7)	.595	(15.1)	1.790	(45.5)	.520	(13.2)	1.720	(43.7)
12	13	.810	(20.6)	.690	(17.5)	.610	(15.5)	1.810	(46.0)	.582	(14.8)	1.780	(45.2)
14	15	.870	(22.1)	.720	(18.3)	.700	(17.8)	1.880	(47.8)	.645	(16.4)	1.870	(47.5)
16	17	.930	(23.6)	.820	(20.8)	.885	(22.5)	1.970	(50.0)	.738	(18.7)	1.980	(50.3)
18	19	1.000	(25.4)	.880	(22.4)	.975	(24.8)	2.140	(54.4)	.926	(23.5)	2.170	(55.1)
20	21	1.060	(26.9)	.940	(23.9)	.975	(24.8)	2.140	(54.4)	.926	(23.5)	2.170	(55.1)
22	23	1.120	(28.4)	1.000	(25.4)	1.125	(28.6)	2.250	(57.2)	1.020	(25.9)	2.320	(58.9)
24	25	1.180	(30.0)	1.060	(26.9)	1.125	(28.6)	2.250	(57.2)	1.020	(25.9)	2.320	(58.9)
28		1.312	(33.3)	1.219	(31.0)	1.225	(31.1)	2.420	(61.5)	1.145	(29.1)	2.370	(60.2)
32		1.562	(39.7)	1.483	(37.7)	1.575	(40.0)	2.670	(67.8)	1.207	(30.7)	2.470	(62.7)
36		1.688	(42.9)	1.656	(42.1)	1.775	(45.1)	2.670	(67.8)	1.238	(31.4)	2.560	(65.0)

TABLE IV: CABLE ENTRY

Dash No.	M Max		N Max		Cable Range Min		Cable Range Max	
01	.843	(21.4)	.625	(15.9)	.156	(4.0)	.250	(6.4)
02	.968	(24.6)	.750	(19.1)	.188	(4.8)	.375	(9.5)
03	1.046	(26.6)	.875	(22.2)	.250	(6.4)	.438	(11.1)
04	1.156	(29.4)	1.000	(25.4)	.280	(7.1)	.500	(12.7)
05	1.218	(30.9)	1.125	(28.6)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	1.250	(31.8)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	1.375	(34.9)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	1.500	(38.1)	.750	(19.1)	1.000	(25.4)
09	1.718	(43.6)	1.625	(41.3)	.875	(22.2)	1.125	(28.6)
10	1.843	(46.8)	1.750	(44.5)	1.000	(25.4)	1.250	(31.8)
11*	2.187	(55.5)	1.875	(47.6)	1.125	(28.6)	1.375	(34.9)
12*	2.312	(58.7)	2.000	(50.8)	1.250	(31.8)	1.500	(38.1)
13*	2.437	(61.9)	2.125	(54.0)	1.375	(34.9)	1.625	(41.3)
14*	2.546	(64.7)	2.250	(57.2)	1.500	(38.1)	1.750	(44.5)

* Consult factory for availability

1. Shield Support Ring (469-001-XX) is recommended for use in all G-Spring backshells (see page 463-8).
2. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, H, K and L will not apply. Please consult factory.
3. Metric dimensions (mm) are indicated in parentheses.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Consult factory for shorter lengths on straight backshells.
6. Maximum cable entry available for split elbow is 1.188 (30.2).

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460-002
EMI/RFI Non-Environmental G-Spring Backshell
with Strain Relief
Direct Coupling - Low Profile and Split 90°

CONNECTOR DESIGNATORS

A-B*-C-D-E-F

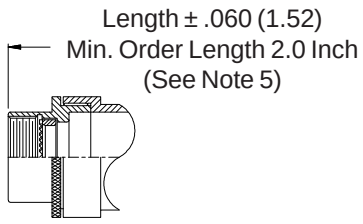
G-H-J-K-L-S

*** Conn. Desig. B See Note 7**

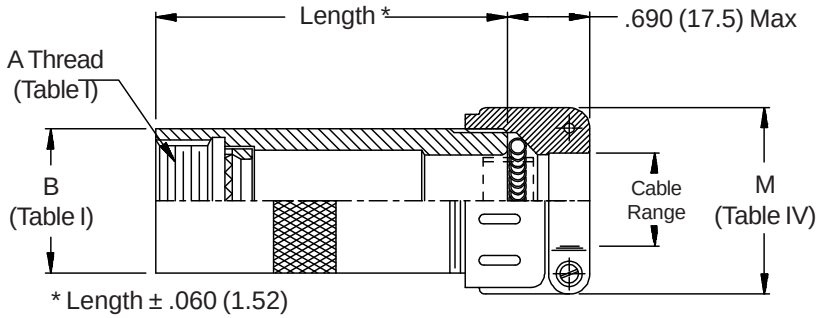
DIRECT COUPLING

460 F S 002 M 16 05 F 6

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90° Solid
  - B = 45°
  - D = 90° Split
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Tables IV, V)
- Strain Relief Style (F, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

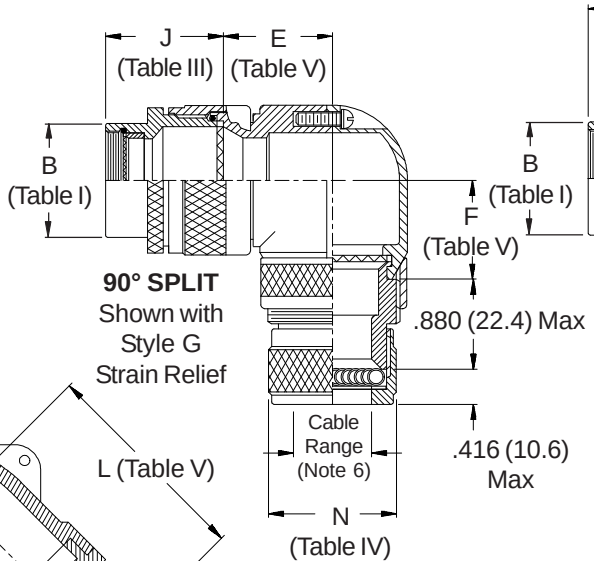


STYLE 2 (STRAIGHT See Note 1)

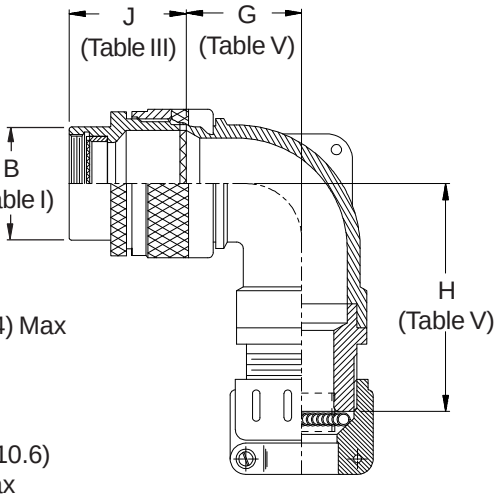


* Length ± .060 (1.52) Minimum Order Length 1.5 Inch (See Note 5)

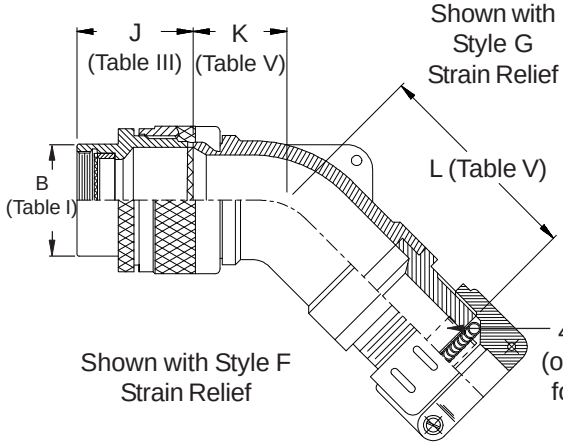
Shown with Style F Strain Relief



90° SPLIT Shown with Style G Strain Relief



90° SOLID Shown with Style F Strain Relief



Shown with Style F Strain Relief

469-001-XX Shield Support Ring (order separately) is recommended for use in all G-Spring backshells (see page 463-8)

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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: FRONT ADAPTER

Shell Size	J Max - Conn. Designator A-E-F J-H-L-S	D-B-G-K	C
08/09	1.180(30.0)	1.440(36.6)	
10/11	1.180(30.0)	1.440(36.6)	
12/13	1.180(30.0)	1.440(36.6)	1.735(44.1)
14/15	1.180(30.0)	1.440(36.6)	1.915(48.6)
16/17	1.380(35.0)	1.560(39.6)	1.915(48.6)
18/19	1.380(35.0)	1.560(39.6)	1.915(48.6)
20/21	1.380(35.0)	1.560(39.6)	1.915(48.6)
22/23	1.380(35.0)	1.560(39.6)	1.915(48.6)
24/25	1.380(35.0)	1.560(39.6)	1.915(48.6)
28/29	1.610 (40.9)	1.560(39.6)	1.915(48.6)
32/33	1.610(40.9)	1.750(44.5)	1.915(48.6)
36	1.610(40.9)	1.750(44.5)	1.915(48.6)
40	1.610(40.9)	2.190(55.6)	1.915(48.6)

TABLE IV: CABLE ENTRY

Dash No.	M Max		N Max		Cable Range Min		Cable Range Max	
01	.843	(21.4)	.625	(15.9)	.156	(4.0)	.250	(6.4)
02	.968	(24.6)	.750	(19.1)	.188	(4.8)	.375	(9.5)
03	1.046	(26.6)	.875	(22.2)	.250	(6.4)	.438	(11.1)
04	1.156	(29.4)	1.000	(25.4)	.280	(7.1)	.500	(12.7)
05	1.218	(30.9)	1.125	(28.6)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	1.250	(31.8)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	1.375	(34.9)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	1.500	(38.1)	.750	(19.1)	1.000	(25.4)
09	1.718	(43.6)	1.625	(41.3)	.875	(22.2)	1.125	(28.6)
10	1.843	(46.8)	1.750	(44.5)	1.000	(25.4)	1.250	(31.8)
11*	2.187	(55.5)	1.875	(47.6)	1.125	(28.6)	1.375	(34.9)
12*	2.312	(58.7)	2.000	(50.8)	1.250	(31.8)	1.500	(38.1)
13*	2.437	(61.9)	2.125	(54.0)	1.375	(34.9)	1.625	(41.3)
14*	2.546	(64.7)	2.250	(57.2)	1.500	(38.1)	1.750	(44.5)

* Consult factory for availability

TABLE V: DIMENSIONS

Dash No.	E Max		F Max		G Max		H Max		K Max		L Max	
01	.680	(17.3)	.560	(14.2)	.636	(16.2)	1.670	(42.4)	.630	(16.0)	1.720	(43.7)
02	.750	(19.1)	.620	(15.7)	.710	(18.0)	1.790	(45.5)	.630	(16.0)	1.720	(43.7)
03	.810	(20.6)	.690	(17.5)	.734	(18.6)	1.810	(46.0)	.692	(17.6)	1.780	(45.2)
04	.870	(22.1)	.720	(18.3)	.825	(21.0)	1.880	(47.8)	.755	(19.2)	1.870	(47.5)
05	.930	(23.6)	.820	(20.8)	.988	(25.1)	1.970	(50.0)	.848	(21.5)	1.980	(50.3)
06	1.000	(25.4)	.880	(22.4)	1.087	(27.6)	2.140	(54.4)	1.036	(26.3)	2.170	(55.1)
07	1.060	(26.9)	.940	(23.9)	1.087	(27.6)	2.140	(54.4)	1.036	(26.3)	2.170	(55.1)
08	1.120	(28.4)	1.000	(25.4)	1.325	(33.7)	2.250	(57.2)	1.130	(28.7)	2.320	(58.9)
09	1.180	(30.0)	1.060	(26.9)	1.325	(33.7)	2.250	(57.2)	1.130	(28.7)	2.320	(58.9)
10	1.180	(30.0)	1.060	(26.9)	1.337	(34.0)	2.420	(61.5)	1.255	(31.9)	2.370	(60.2)
11	1.312	(33.3)	1.219	(31.0)	1.827	(46.4)	2.670	(67.8)	1.317	(33.5)	2.470	(62.7)
12	1.562	(39.7)	1.438	(36.5)	1.827	(46.4)	2.670	(67.8)	1.317	(33.5)	2.470	(62.7)
13	1.562	(39.7)	1.438	(36.5)	2.027	(51.5)	2.670	(67.8)	1.348	(34.2)	2.560	(65.0)
14	1.688	(42.9)	1.656	(42.1)	2.027	(51.5)	2.670	(67.8)	1.348	(34.2)	2.560	(65.0)

1. Shield Support Ring (469-001-XX) is recommended for use in all G-Spring backshells (see page 463-8).
2. When maximum cable entry (page 22) is exceeded, Style 2 will be supplied. Angular Function S only.
3. Metric dimensions (mm) are indicated in parentheses.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Consult factory for shorter lengths on straight backshells.
6. Maximum cable entry available for split elbow is 1.188 (30.2).
7. When using Connector Designator B refer to pages 18 and 19 for part number development.

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460-003
EMI/RFI Non-Environmental G-Spring Backshell
with Strain Relief
Rotatable Coupling - Standard Profile

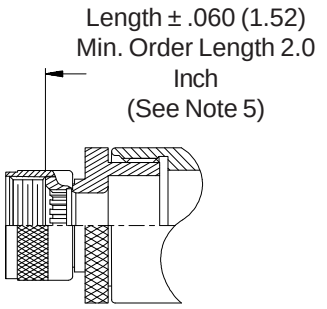
CONNECTOR DESIGNATOR

G

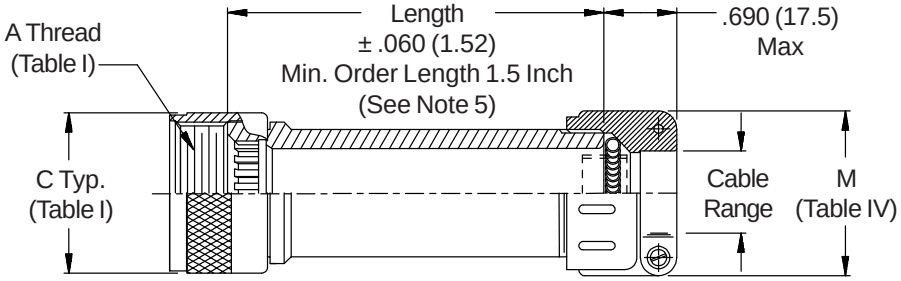
ROTATABLE COUPLING

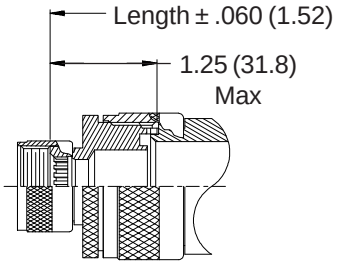
460 G S 003 M 17 10 F 6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Strain Relief Style (F, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

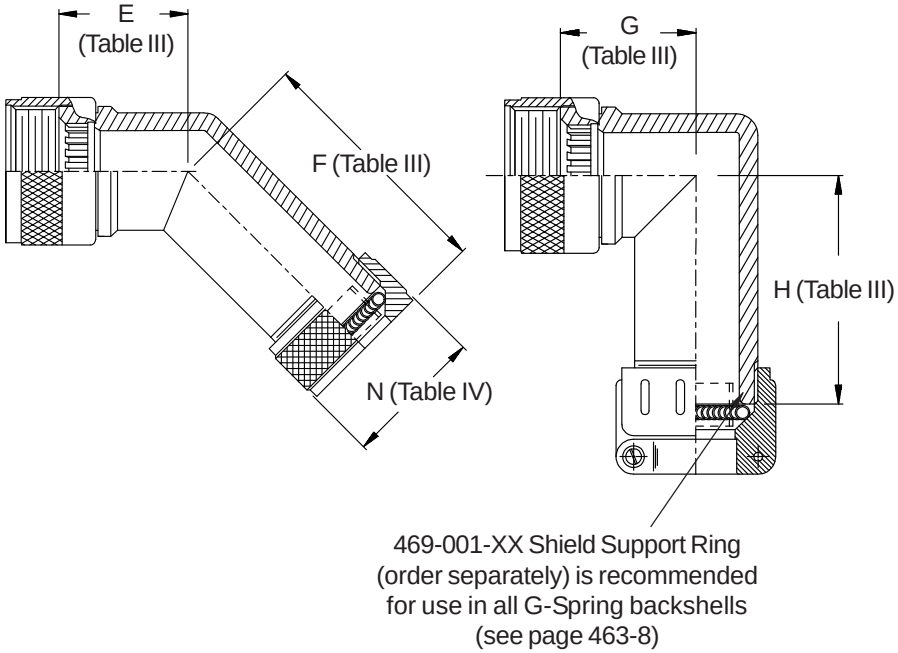


STYLE 2 (STRAIGHT See Note 1)





STYLE 2 (45° & 90° See Note 1)



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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size	E Max		F Max		G Max		H Max	
11	1.240	(31.5)	.980	(24.9)	1.380	(35.1)	1.120	(28.4)
13	1.260	(32.0)	1.000	(25.4)	1.440	(36.6)	1.180	(30.0)
15	1.290	(32.8)	1.030	(26.2)	1.500	(38.1)	1.250	(31.8)
17	1.310	(33.3)	1.050	(26.7)	1.570	(39.9)	1.310	(33.3)
19	1.340	(34.0)	1.080	(27.4)	1.630	(41.4)	1.390	(35.3)
23	1.380	(35.1)	1.120	(28.4)	1.730	(43.9)	1.470	(37.3)
25	1.410	(35.8)	1.150	(29.2)	1.800	(45.7)	1.540	(39.1)
29	1.580	(40.1)	1.320	(33.5)	2.040	(51.8)	1.780	(45.2)
33	1.620	(41.1)	1.360	(34.5)	2.130	(54.1)	1.870	(47.5)

TABLE IV: CABLE ENTRY

Dash No.	M Max		N Max		Cable Range Min		Cable Range Max	
01	.843	(21.4)	.625	(15.9)	.156	(4.0)	.250	(6.4)
02	.968	(24.6)	.750	(19.1)	.188	(4.8)	.375	(9.5)
03	1.046	(26.6)	.875	(22.2)	.250	(6.4)	.438	(11.1)
04	1.156	(29.4)	1.000	(25.4)	.280	(7.1)	.500	(12.7)
05	1.218	(30.9)	1.125	(28.6)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	1.250	(31.8)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	1.375	(34.9)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	1.500	(38.1)	.750	(19.1)	1.000	(25.4)
09	1.718	(43.6)	1.625	(41.3)	.875	(22.2)	1.125	(28.6)
10	1.843	(46.8)	1.750	(44.5)	1.000	(25.4)	1.250	(31.8)
11*	2.187	(55.5)	1.875	(47.6)	1.125	(28.6)	1.375	(34.9)
12*	2.312	(58.7)	2.000	(50.8)	1.250	(31.8)	1.500	(38.1)
13*	2.437	(61.9)	2.125	(54.0)	1.375	(34.9)	1.625	(41.3)
14*	2.546	(64.7)	2.250	(57.2)	1.500	(38.1)	1.750	(44.5)

* Consult factory for availability

1. Shield Support Ring (469-001-XX) is recommended for use in all G-Spring backshells (see page 463-8).
2. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G and H will not apply. Please consult factory.
3. Metric dimensions (mm) are indicated in parentheses.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Consult factory for shorter lengths on straight backshells.

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460-011
EMI/RFI Non-Environmental G-Spring Backshell
with Strain Relief
Self-Locking Rotatable Coupling - Standard Profile

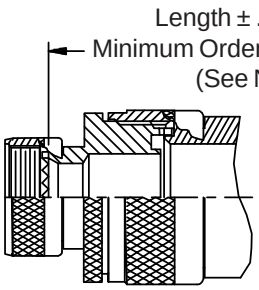
CONNECTOR DESIGNATORS

A-F-H-L-S

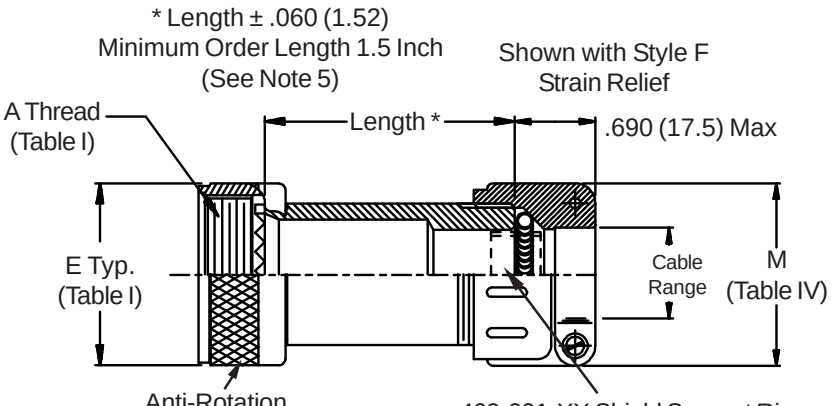
SELF-LOCKING ROTATABLE COUPLING

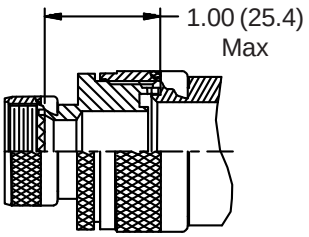
460 F S 011 M 16 05 F 6

- Product Series
- Connector Designator
- Angle and Profile
  - H = 45°
  - J = 90°
  - S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table I)
- Cable Entry (Table IV)
- Strain Relief Style (F, G)
- Length: S only (1/2 inch increments: e.g. 6 = 3 inches)

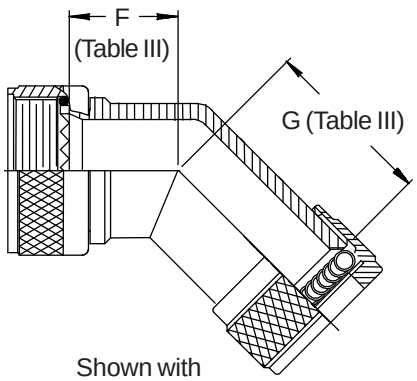


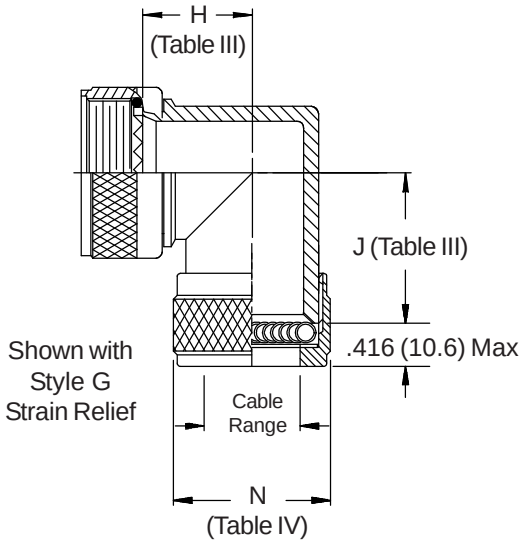
STYLE 2 (STRAIGHT See Note 1)





STYLE 2 (45° & 90° See Note 1)





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See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: ELBOW DIMENSIONS

Shell Size Conn. Desig. A-F-L-S	H	F Max		G Max		H Max		J Max	
08	09	.795	(20.2)	.950	(24.1)	.906	(23.0)	1.040	(26.4)
10	11	.820	(20.8)	.980	(24.9)	.966	(24.5)	1.090	(27.7)
12	13	.844	(21.4)	1.000	(25.4)	1.026	(26.1)	1.150	(29.2)
14	15	.861	(21.9)	1.030	(26.2)	1.076	(27.3)	1.200	(30.5)
16	17	.888	(22.6)	1.050	(26.7)	1.136	(28.9)	1.250	(31.8)
18	19	.904	(23.0)	1.060	(26.9)	1.176	(29.9)	1.300	(33.0)
20	21	.929	(23.6)	1.080	(27.4)	1.236	(31.4)	1.360	(34.5)
22	23	.956	(24.3)	1.120	(28.4)	1.296	(32.9)	1.420	(36.1)
24	25	.979	(24.9)	1.150	(29.2)	1.356	(34.4)	1.480	(37.6)
28		1.197	(30.4)	1.270	(32.3)	1.636	(41.6)	1.600	(40.6)
32		1.294	(32.9)	1.350	(34.3)	1.876	(47.7)	1.780	(45.2)
36		1.340	(34.0)	1.515	(38.5)	1.986	(50.4)	1.890	(48.0)

TABLE IV: CABLE ENTRY

Dash No.	M Max		N Max		Cable Range Min		Cable Range Max	
01	.843	(21.4)	.625	(15.9)	.156	(4.0)	.250	(6.4)
02	.968	(24.6)	.750	(19.1)	.188	(4.8)	.375	(9.5)
03	1.046	(26.6)	.875	(22.2)	.250	(6.4)	.438	(11.1)
04	1.156	(29.4)	1.000	(25.4)	.280	(7.1)	.500	(12.7)
05	1.218	(30.9)	1.125	(28.6)	.375	(9.5)	.625	(15.9)
06	1.343	(34.1)	1.250	(31.8)	.500	(12.7)	.750	(19.1)
07	1.468	(37.3)	1.375	(34.9)	.625	(15.9)	.875	(22.2)
08	1.593	(40.5)	1.500	(38.1)	.750	(19.1)	1.000	(25.4)
09	1.718	(43.6)	1.625	(41.3)	.875	(22.2)	1.125	(28.6)
10	1.843	(46.8)	1.750	(44.5)	1.000	(25.4)	1.250	(31.8)
11*	2.187	(55.5)	1.875	(47.6)	1.125	(28.6)	1.375	(34.9)
12*	2.311	(58.7)	2.000	(50.8)	1.250	(31.8)	1.500	(38.1)
13*	2.437	(61.9)	2.125	(54.0)	1.375	(34.9)	1.625	(41.3)
14*	2.546	(64.7)	2.250	(57.2)	1.500	(38.1)	1.750	(44.5)

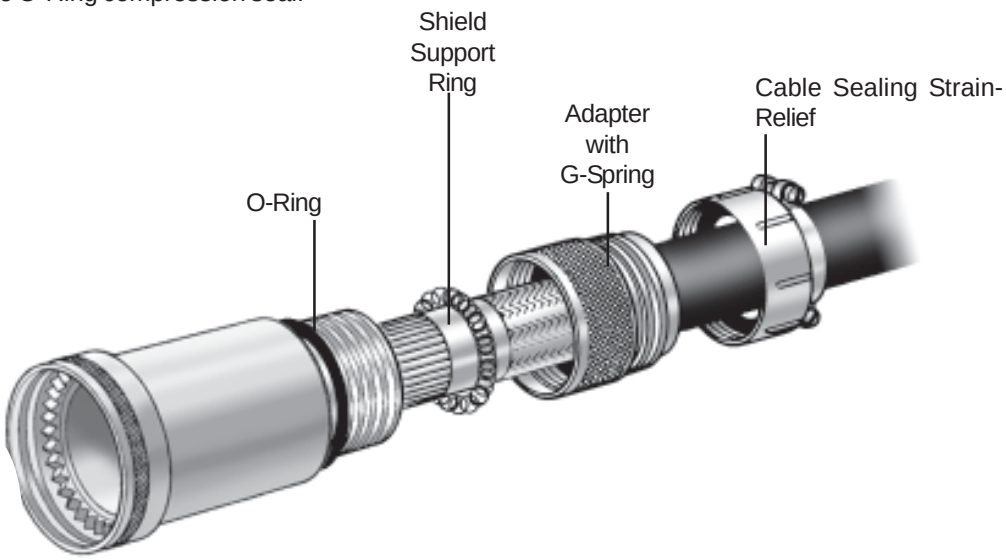
* Consult factory for availability

1. Shield Support Ring (469-001-XX) is recommended for use in all G-Spring backshells (see page 463-8).
2. When maximum cable entry (page 21) is exceeded, Style 2 will be supplied. Dimensions E, F, G, and H will not apply. Please consult factory.
3. Metric dimensions (mm) are indicated in parentheses.
4. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
5. Consult factory for shorter lengths on straight backshells.

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Series 463
EMI/RFI Environmental G-Spring Backshell
with Strain Relief
Assembly Instructions

This series is the same as the Series 460, except it provides environmental sealing on a jacketed cable. This utilizes our low profile O-Ring compression seal.



ASSEMBLY INSTRUCTIONS 463-1

The following suggested procedure serves as a guide for the proper assembly and installation of Glenair EMI/RFI Environmental Backshells (Type 463 G-Spring Termination). It is recommended that trial samples of appropriate cables or harnesses be used to determine proper trim dimensions of the outer shield and individual conductors. This procedure is for the three ring style.

a. Temporarily assemble backshell (1) to connector.

b. Place backshell, support ring (if used), G-spring, and strain relief on the cable in sequence shown. Keep these components at a convenient distance from the end of the cable, so they will not interfere with subsequent assembly steps.

c. Insert cable or harness into backshell and bottom against connector. Hold cable in position and mark outer shield at rear end of backshell.

d. Remove backshell from connector and place on cable with items in step (b) above.

e. Trim outer shield at mark made in step (c) above.

f. Prepare and terminate contacts to individual conductors in accordance with established practices. (Crimp or solder in place.)

g. Slide backshell forward to connector, and tighten securely.

h. Move support ring (optional component used over lose wire bundles) forward, ahead of the trimmed outer shield, then slide support ring backward under outer shield, pull outer shield forward covering support ring.

i. Bring G-spring forward, and position on outer shield directly over the support ring at the rear of the backshell. Then push G-spring and support ring into beveled area of backshell. Thread rear backshell onto front thus compressing G-spring, providing the shield bonding joint.

j. Engage O-ring and strain relief to backshell and tighten securely. Tighten relief saddles securely on cable or harness. This will then provide an environmental resisting seal on the cable jacket, along with strain relief.

Note: As with any electrical connector assembly procedure, be sure to use the proper tools. For convenient, reliable assembly of the connector and backshell, it is suggested that Glenair's connector holding tools, strap wrenches and connector pliers be used.

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PRODUCT FEATURES

- Simple Backshell Nut Ring for Inside-the-Box Applications
- Non-Environmental
- Rotatable and Direct Coupling Styles
- Straight Configurations Only

"E" Nuts fulfill basic backshell requirements for OEM systems which require a connector rear-end accessory

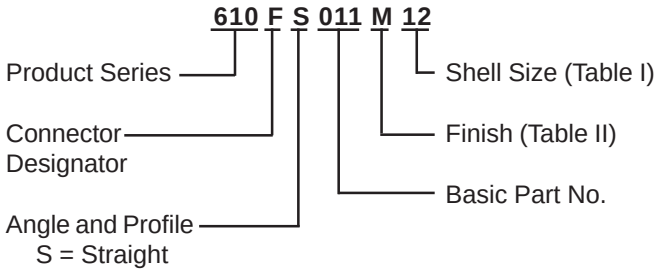
Designed to fill connector rear-end threads and compress connector sealing grommets in Inside-the-Box applications

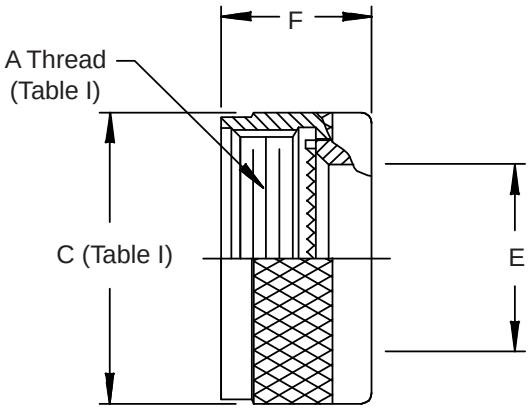
This section describes the small family of backshells without strain relief for use with circular connectors. (These are most commonly referred to as "E" Nuts.) "E" Nuts are typically used inside box applications where there is no EMI/RFI, environmental or strain-relief requirement. But because some OEMs require that all connectors be equipped with a backshell, the simple "E" nut has broad application in the interconnect industry. More importanty, by filling the threads on the back of the connector, the "E" nuts serves to compress the connector sealing grommet. This insures proper performance for those connector designs which require pressure on the grommet to stabilize and align connector contacts.

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610-011
Rotatable Coupling "E" Nut

CONNECTOR DESIGNATORS
A-F-H-L-S
ROTATABLE COUPLING





See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CABLE ENTRY

Shell Size Conn. Desig. A-F-L-S	H	E Dia Ref		F Max	
08	09	.270	(6.9)	.710	(18.0)
10	11	.375	(9.5)	.710	(18.0)
12	13	.511	(13.0)	.710	(18.0)
14	15	.585	(14.9)	.710	(18.0)
16	17	.710	(18.0)	.710	(18.0)
18	19	.789	(20.0)	.710	(18.0)
20	21	.914	(23.2)	.710	(18.0)
22	23	1.039	(26.4)	.710	(18.0)
24	25	1.154	(29.3)	.710	(18.0)
28		1.389	(35.3)	.890	(22.6)
32		1.635	(41.5)	.890	(22.6)
36		1.850	(47.0)	.890	(22.6)

Metric dimensions (mm) are indicated in parentheses.

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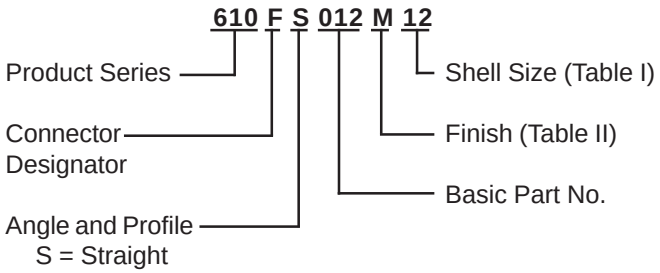
CONNECTOR DESIGNATORS

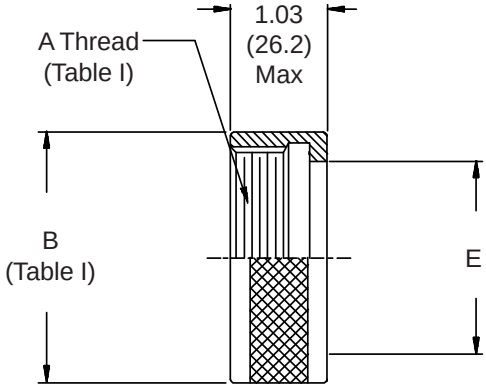
A-B*-C-D-E-F

G-H-J-K-L-S

*** Conn. Desig. B See Note 2**

DIRECT COUPLING





See inside back cover fold-out or pages 13 and 14 for Tables I and II.

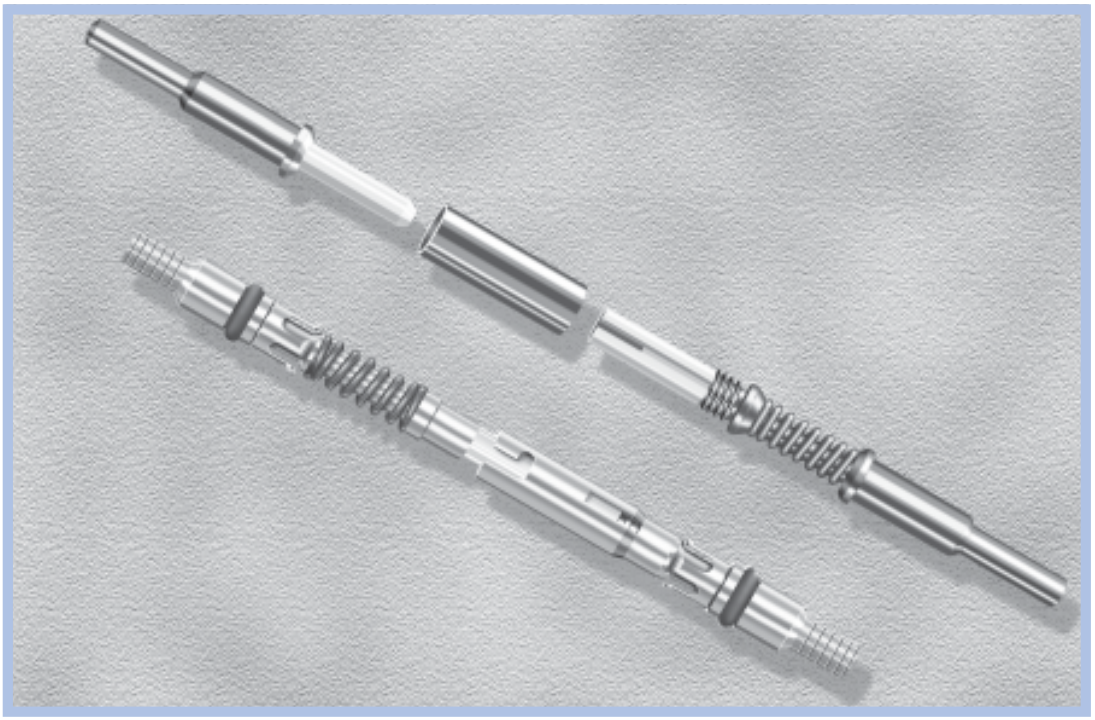
TABLE III: CABLE ENTRY

Shell Size	E Dia Ref	
08/09	.250	(6.4)
10/11	.303	(7.7)
12/13	.408	(10.4)
14/15	.490	(12.4)
16/17	.609	(15.5)
18/19	.730	(18.5)
20/21	.870	(22.1)
22/23	.978	(24.8)
24/25	1.090	(27.7)
28/29	1.250	(31.8)
32/33	1.520	(38.6)
36	1.756	(44.6)

1. Metric dimensions (mm) are indicated in parentheses.
2. When using Connector Designator B refer to pages 18 and 19 for part number development.

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Good Things Come In Small Packages



And at Glenair, They Ship the Same Day

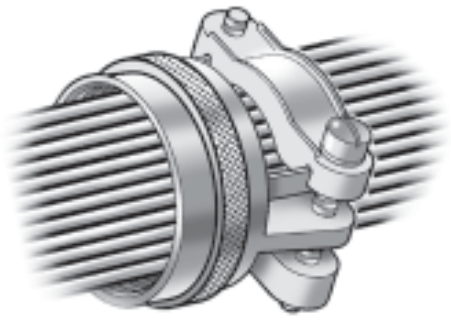
Tired of long lead times for fiber optic connectors and contacts? Then consider the Glenair difference: We've placed our products in stock, in quantity, and ready for immediate shipment—including both our MIL-T-29504 qualified pin and socket termini as well as our new front-release 181-011 and 181-012 designs. Consider as well Glenair's "no minimum order" policy and our lightning fast turnaround on quotes for price and delivery. At Glenair, we're committed to keeping our products, programs and services current with your every need.

Glenair®

1211 Air Way
Glendale, California 91201-2497
Telephone: 818-247-6000 · Facsimilie: 818-500-9912 · EMail: sales@glenair.com

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PRODUCT FEATURES

- Light, Medium and Heavy Duty Saddle-Bar Type Strain-Reliefs
- Available for All Connector Series
- Rotatable, Self-Locking and Direct Coupling Styles
- Straight, 45°, 90° Configurations
- Optional Drain-Holes

The right weight and duty of strain-relief for every application requirement

Simple strain-relief cable clamps protect contact terminations from rough handling and mechanical damage

Glenair offers a comprehensive selection of strain reliefs for circular connectors. These products are ideal for applications which do not require environmental or EMI/RFI protection. Use the following table to quickly locate compatible designs for every circular connector series.

PAGE NUMBER REFERENCE INFORMATION

	CONNECTOR DESIGNATOR									
Coupling and Body Style	A (Stainless Steel)	A	D	E	F	G	H	J	L	S
Rotatable:										
Straight Straight Split	62-12	62-2, 62-5, 62-10	—	—	62-2, 62-8, 62-10	62-6	62-2, 62-9, 62-10	62-8	62-2, 62-8, 62-10,	62-2, 62-8,
90° Split 90°	62-13	62-3, 62-5, 62-10	—	—	62-3, 62-8, 62-10	62-7	62-3, 62-9, 62-10	62-8	62-3, 62-8 62-10	62-3, 62-8
45°	—	62-4	—	—	62-4	62-7	62-4	—	62-4	62-4
Self-Locking:										
Straight	—	62-14	—	—	62-15	—	62-15	—	62-15	62-15
90°	—	62-14	—	—	62-15	—	62-15	—	62-15	62-15
45°	—	62-16	—	—	62-16	—	62-16	—	62-16	62-16
Direct:										
Straight	—	—	62-17	62-18	62-19	—	—	62-20	—	—

-445 Now Available with the "NESTOR"

Add "-445" to Specify Glenair's Non-Detent, Spring-Loaded, Self-Locking Coupling.

NOTE: Most *Rotatable Coupling* Strain Reliefs may be modified to accept the -445 "NESTOR" Non-Detent, Self-Locking Coupling. The -445 "NESTOR" is not Available on Direct Coupling Products or for Use on MIL-DTL-38999 Series II Connectors. Please Contact the Factory for Additional Information.

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Glenair®

620-003
Backshell Accessory - Straight Strain Relief
Rotatable Coupling

CONNECTOR DESIGNATOR

A-F-L-H-S

ROTATABLE COUPLING

620 A S 003 M 16

- Product Series
- Connector Designator
- Angle and Profile
  S = Straight
- Basic Part No.
- Shell Size
- Finish (Table II)

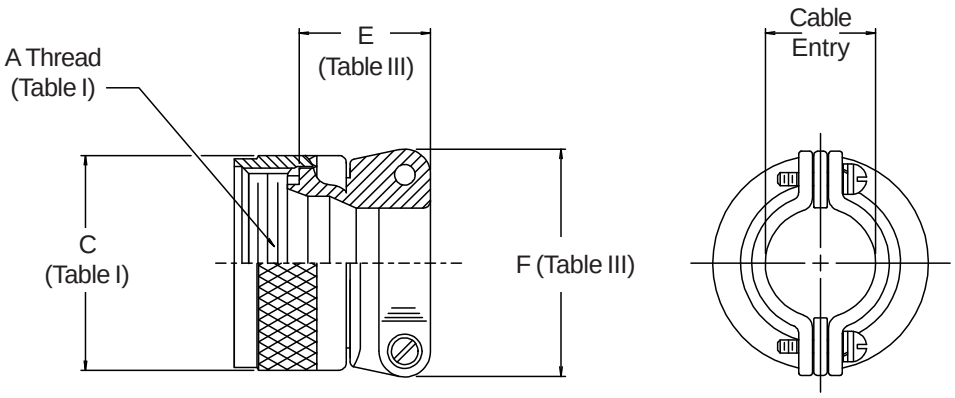


TABLE III: CABLE ENTRY

Shell Size Conn. Desig. A,F,L	H	E Max		F Nom		H Cable Entry Closed		Open	
08	09	.625	(15.9)	.750	(19.1)	.055	(1.4)	.125	(3.2)
10	11	.656	(16.7)	.750	(19.1)	.055	(1.4)	.188	(4.8)
12	13	.718	(18.2)	.937	(23.8)	.095	(2.4)	.250	(6.4)
14	15	.968	(24.6)	1.015	(25.8)	.219	(5.6)	.375	(9.5)
16	17	1.105	(28.1)	1.125	(28.6)	.219	(5.6)	.500	(12.7)
18	19	1.105	(28.1)	1.188	(30.2)	.345	(8.8)	.625	(15.9)
20	21	1.105	(28.1)	1.312	(33.3)	.469	(11.9)	.750	(19.1)
22	23	1.105	(28.1)	1.437	(36.5)	.594	(15.1)	.875	(22.2)
24	25	1.105	(28.1)	1.562	(39.7)	.594	(15.1)	1.000	(25.4)
28		1.105	(28.1)	1.812	(46.0)	.859	(21.8)	1.250	(31.8)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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CONNECTOR DESIGNATOR

A-F-L-H-S

ROTATABLE COUPLING

620 A A 004 M 16

- Product Series
- Connector Designator
- Angle and Profile
  A = 90°
- Basic Part No.
- Shell Size (Table III)
- Finish (Table II)

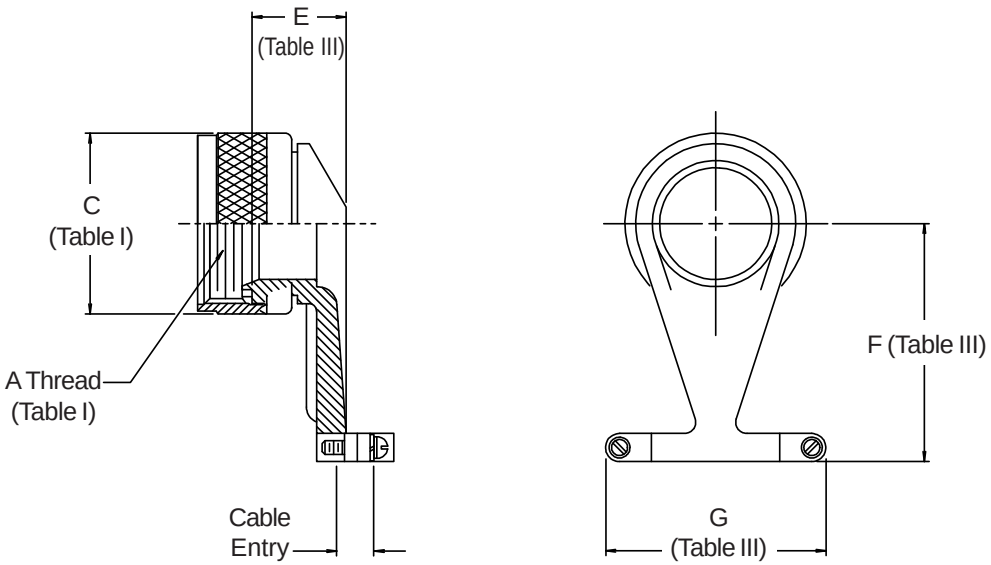


TABLE III: CABLE ENTRY

Shell Size Conn. Desig. A,F,L	H	E Max		F Nom		G Nom		H Cable Entry Closed		Open	
08	09	.450	(11.4)	.780	(19.8)	.750	(19.1)	.125	(3.2)	.250	(6.4)
10	11	.450	(11.4)	.890	(22.6)	.750	(19.1)	.156	(3.7)	.375	(9.5)
12	13	.450	(11.4)	1.030	(26.2)	.937	(23.8)	.188	(4.8)	.437	(11.1)
14	15	.450	(11.4)	1.220	(31.0)	1.015	(25.8)	.218	(5.5)	.562	(14.3)
16	17	.450	(11.4)	1.280	(32.5)	1.125	(28.6)	.250	(6.4)	.625	(15.9)
18	19	.480	(12.2)	1.370	(34.8)	1.188	(30.2)	.312	(7.9)	.750	(19.1)
20	21	.480	(12.2)	1.560	(39.6)	1.312	(33.3)	.375	(9.5)	.875	(22.2)
22	23	.480	(12.2)	1.750	(44.5)	1.437	(36.5)	.406	(10.3)	.937	(23.8)
24	25	.480	(12.2)	1.810	(46.0)	1.562	(39.7)	.562	(14.3)	1.000	(25.4)

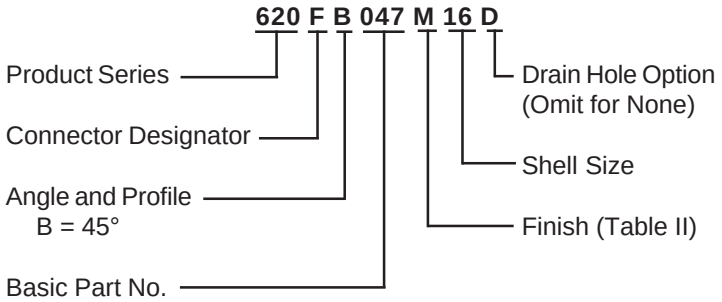
1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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Glenair®

620-047
Strain Relief
Rotatable Coupling - 45°

CONNECTOR DESIGNATOR
A-F-H-L-S
ROTATABLE COUPLING



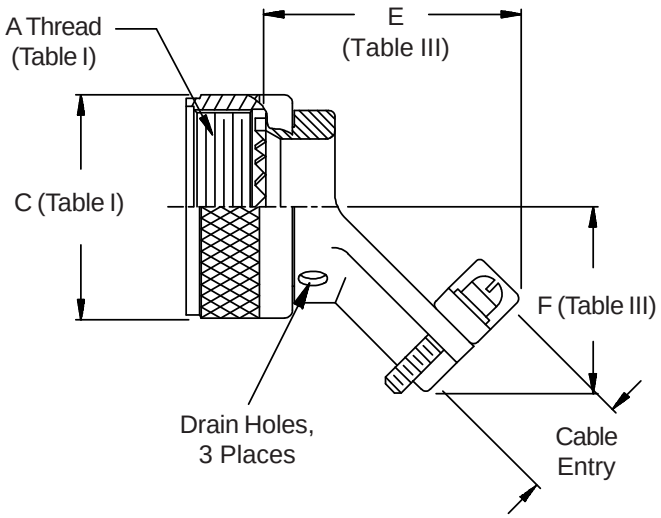


TABLE III: CABLE ENTRY

Shell Size	E Max		F Max		Cable Entry Closed		Cable Entry Open	
08/09	1.450	(36.8)	.772	(19.6)	.125	(3.2)	.204	(5.2)
10/11	1.510	(38.4)	.810	(20.6)	.187	(4.7)	.286	(7.3)
12/13	1.610	(40.9)	.870	(22.1)	.291	(7.4)	.416	(10.6)
14/15	1.640	(41.7)	.930	(23.6)	.351	(8.9)	.476	(12.1)
16/17	1.760	(44.7)	.990	(25.1)	.501	(12.7)	.626	(15.9)
18/19	1.900	(48.3)	1.110	(28.2)	.518	(13.2)	.706	(17.9)
20/21	1.940	(49.3)	1.170	(29.7)	.581	(14.8)	.831	(21.1)
22/23	1.970	(50.0)	1.240	(31.5)	.644	(16.4)	.956	(24.3)
24/25	2.020	(51.3)	1.300	(33.0)	.706	(17.9)	1.081	(27.5)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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CAGE Code 06324
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620-046
Strain Relief
Rotatable Coupling - Straight and 90°

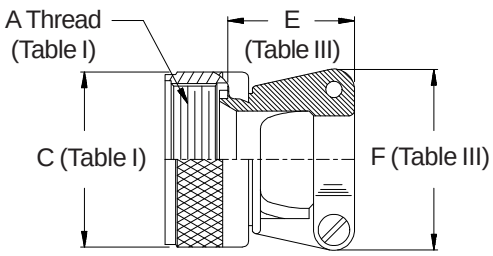
CONNECTOR DESIGNATOR

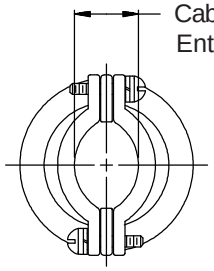
A

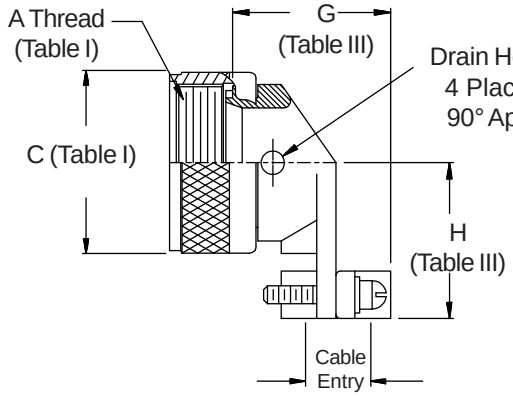
ROTATABLE COUPLING

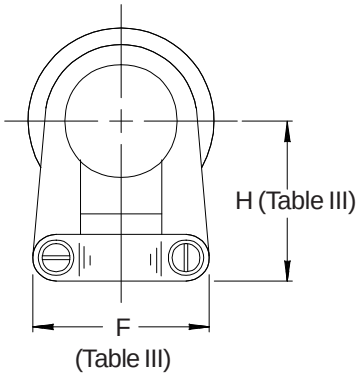
620 A S 046 M 16 D

- Product Series
- Connector Designator
- Angle and Profile
  - S = Straight
  - A = 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)
- Drain Hole Option - 90° only (Omit for None)









See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

TABLE III: CABLE ENTRY

Shell Size	E Max		F Max		G Max		H Max		Cable Entry Closed		Cable Entry Open	
08	.630	(16.0)	.782	(19.9)	.780	(19.8)	.808	(20.5)	.125	(3.2)	.204	(5.2)
10	.740	(18.8)	.862	(21.9)	.861	(21.9)	.867	(22.0)	.187	(4.7)	.286	(7.3)
12	.860	(21.8)	1.003	(25.5)	1.050	(26.7)	.929	(23.6)	.291	(7.4)	.416	(10.6)
14	.860	(21.8)	1.061	(26.9)	1.110	(29.0)	.992	(25.2)	.351	(8.9)	.476	(12.1)
16	.990	(25.1)	1.334	(33.9)	1.260	(32.0)	1.056	(26.8)	.501	(12.7)	.626	(15.9)
18	1.240	(31.5)	1.466	(37.2)	1.370	(34.8)	1.233	(31.3)	.518	(13.2)	.706	(17.9)
20	1.360	(34.5)	1.572	(39.9)	1.500	(38.1)	1.296	(32.9)	.581	(14.8)	.831	(21.1)
22	1.490	(38.0)	1.688	(42.9)	1.620	(41.1)	1.358	(34.5)	.644	(16.4)	.956	(24.3)
24	1.610	(40.9)	1.790	(45.5)	1.750	(44.5)	1.420	(36.1)	.706	(17.9)	1.081	(27.5)
28	1.760	(44.7)	2.035	(51.7)	1.890	(58.0)	1.634	(41.5)	.750	(19.1)	1.187	(30.1)
32	1.950	(49.5)	2.386	(60.6)	1.950	(49.5)	1.859	(47.2)	.875	(22.2)	1.250	(31.8)
36	2.330	(59.2)	2.496	(63.4)	2.070	(52.6)	1.984	(50.4)	.938	(23.8)	1.375	(34.9)
40	2.510	(63.8)	2.566	(65.2)	2.200	(55.9)	2.109	(53.6)	.938	(23.8)	1.500	(38.1)

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Glenair®

620GS051
Strain Relief
Rotatable Coupling - Straight

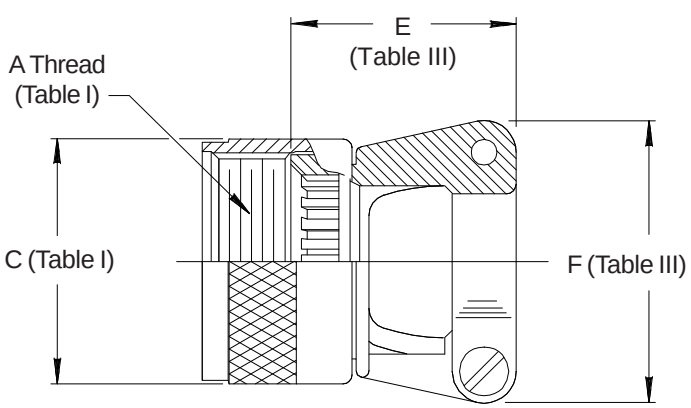
CONNECTOR DESIGNATOR

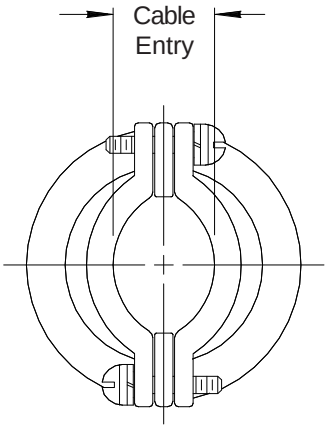
G

ROTATABLE COUPLING

620GS051 M 17

- Basic Part No.
- Finish (Table II)
- Shell Size





See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CABLE ENTRY

Shell Size	E Max	F Max	Cable Entry Closed	Cable Entry Open
11	1.091 (27.7)	.903 (22.9)	.177 (4.5)	.286 (7.3)
13	1.091 (27.7)	.977 (24.8)	.177 (4.5)	.286 (7.3)
15	1.091 (27.7)	1.151 (29.2)	.250 (6.4)	.416 (10.6)
17	1.206 (30.6)	1.281 (32.5)	.291 (7.4)	.476 (12.1)
19	1.320 (33.5)	1.406 (35.7)	.348 (8.8)	.626 (15.9)
23	1.445 (36.7)	1.576 (40.0)	.429 (10.9)	.831 (21.1)
25	1.570 (39.9)	1.666 (42.3)	.523 (13.3)	.956 (24.3)
29	1.721 (43.7)	2.046 (52.0)	.643 (16.3)	1.081 (27.5)
33	1.908 (48.5)	2.209 (56.1)	.704 (17.9)	1.187 (30.1)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

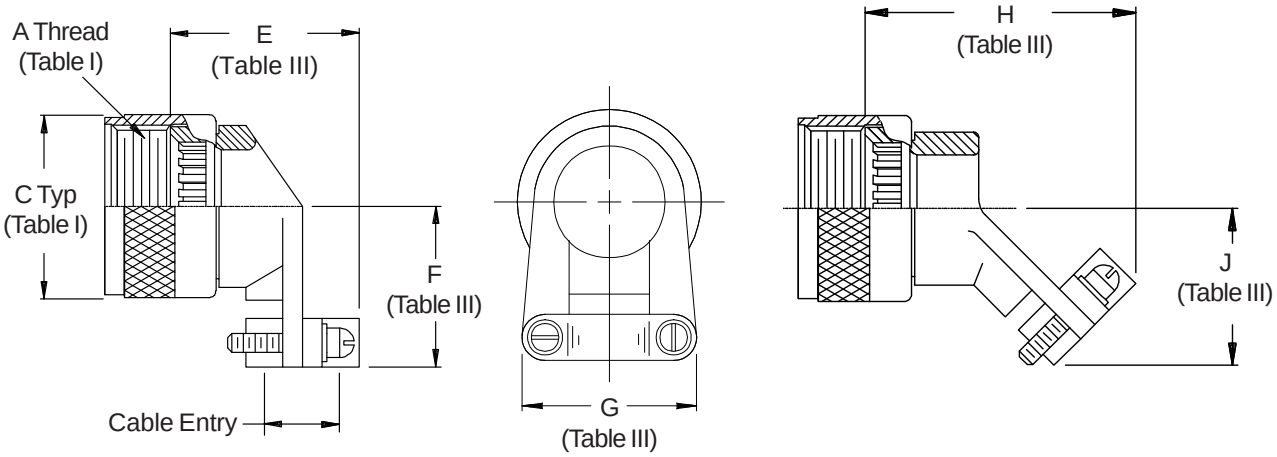
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CONNECTOR DESIGNATOR
G

ROTATABLE COUPLING

620 G A 051 M 17

- Product Series
- Connector Designator
- Angle and Profile
  - A = 90°
  - B = 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)



See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CABLE ENTRY

Shell Size	E Closed Max		F Max		G Max		H Closed Max		J Max		Cable Entry Closed		Cable Entry Open	
11	1.071	(27.2)	.929	(23.6)	.903	(22.9)	1.650	(41.9)	.929	(23.6)	.177	(4.5)	.286	(7.3)
13	1.071	(27.2)	.929	(23.6)	.977	(24.8)	1.650	(41.9)	.929	(23.6)	.177	(4.5)	.286	(7.3)
15	1.280	(32.5)	1.056	(26.8)	1.151	(29.2)	1.765	(44.8)	1.056	(26.8)	.250	(6.4)	.416	(10.6)
17	1.392	(35.4)	1.233	(31.3)	1.281	(32.5)	1.874	(47.6)	1.233	(31.3)	.291	(7.4)	.476	(12.1)
19	1.517	(38.5)	1.296	(32.9)	1.406	(35.7)	1.918	(48.7)	1.296	(32.9)	.348	(8.8)	.626	(15.9)
23	1.642	(41.7)	1.358	(34.5)	1.576	(40.0)	1.962	(49.8)	1.358	(34.5)	.429	(10.9)	.831	(21.1)
25	1.767	(44.9)	1.420	(36.1)	1.666	(42.3)	2.006	(51.0)	1.420	(36.1)	.523	(13.3)	.956	(24.3)
29	1.905	(48.4)	1.634	(41.5)	2.046	(52.0)	2.301	(58.4)	1.634	(41.5)	.643	(16.3)	1.081	(27.5)
33	1.968	(50.0)	1.859	(47.2)	2.209	(56.1)	2.389	(60.7)	1.859	(47.2)	.704	(17.9)	1.187	(30.1)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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620-012
Strain Relief
Rotatable Coupling - Straight and 90°

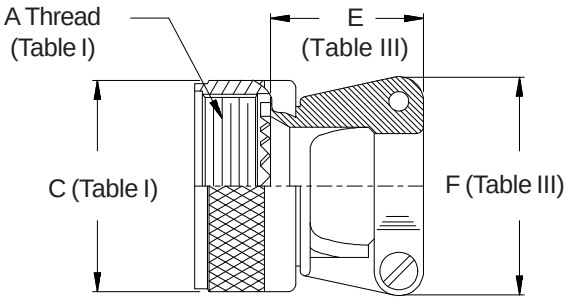
CONNECTOR DESIGNATOR

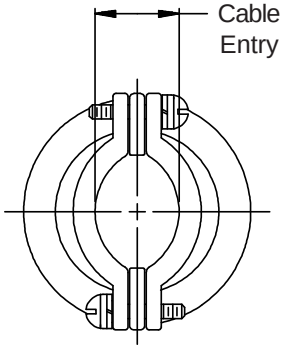
F-L-S

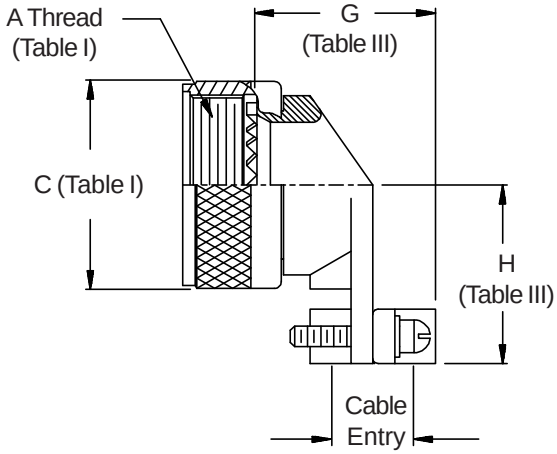
ROTATABLE COUPLING

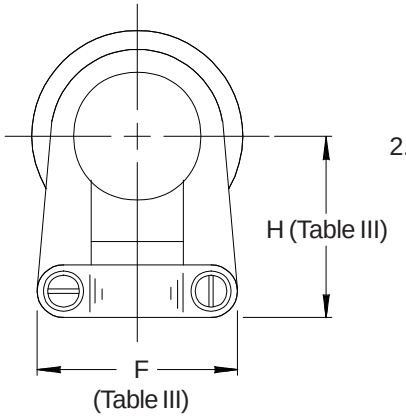
620 F S 012 M 16

- Product Series
- Connector Designator
- Angle and Profile
  - S = Straight
  - A = 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)









See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

TABLE III: CABLE ENTRY

Shell Size	E Nom		F Max		G Max		H Max		Cable Entry Closed		Cable Entry Open	
08	.555	(14.1)	.752	(19.1)	.704	(17.9)	.808	(20.5)	.098	(2.5)	.234	(5.9)
10	.665	(16.9)	.832	(21.1)	.786	(20.0)	.867	(22.0)	.153	(3.9)	.234	(5.9)
12	.790	(20.1)	.988	(25.1)	.979	(24.9)	.929	(23.6)	.190	(4.8)	.328	(8.3)
14	.790	(20.1)	1.046	(26.6)	1.039	(26.4)	.992	(25.2)	.260	(6.6)	.457	(11.6)
16	.915	(23.2)	1.319	(33.5)	1.188	(30.2)	1.056	(26.8)	.283	(7.2)	.614	(15.6)
18	1.165	(29.6)	1.451	(36.9)	1.300	(33.0)	1.233	(31.3)	.325	(8.3)	.634	(16.1)
20	1.290	(32.8)	1.557	(39.5)	1.425	(36.2)	1.296	(32.9)	.343	(8.7)	.698	(17.7)
22	1.415	(35.9)	1.653	(42.0)	1.550	(39.4)	1.358	(34.5)	.381	(9.7)	.823	(20.9)
24	1.540	(39.1)	1.775	(45.1)	1.675	(42.5)	1.420	(36.1)	.418	(10.6)	.853	(21.7)

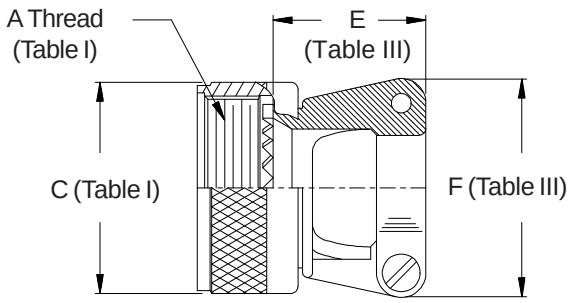
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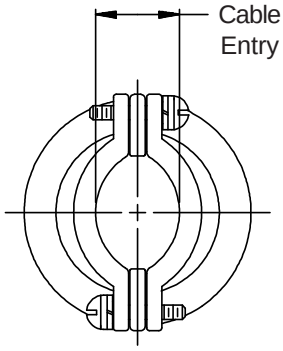
CONNECTOR DESIGNATOR H

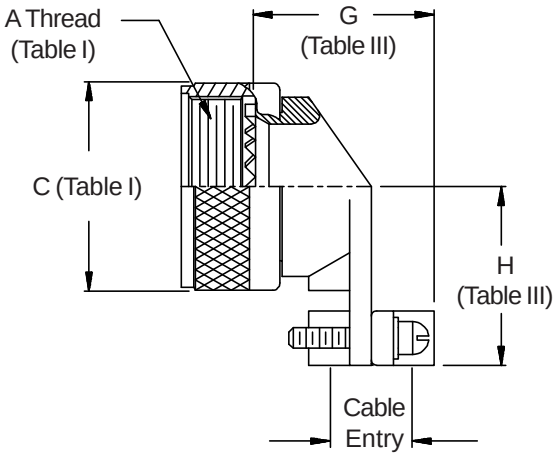
ROTATABLE COUPLING

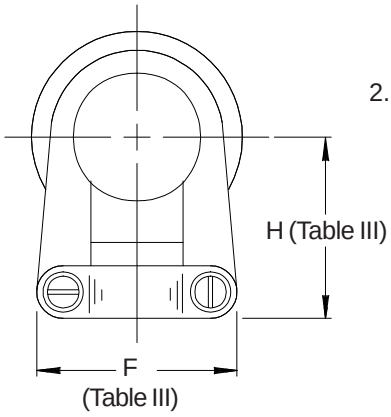
620 H S 011 M 17

- Product Series
- Connector Designator
- Angle and Profile
  - S = Straight
  - A = 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)









See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

TABLE III: CABLE ENTRY

Shell Size	E Max		F Max		G Max		H Max		Cable Entry Closed		Cable Entry Open	
09	.830	(21.1)	.850	(21.6)	.704	(17.9)	.808	(20.5)	.098	(2.5)	.234	(5.9)
11	.850	(21.6)	.900	(22.9)	.786	(20.0)	.867	(22.0)	.153	(3.9)	.234	(5.9)
13	.900	(22.9)	1.100	(27.9)	.979	(24.9)	.929	(23.6)	.190	(4.8)	.328	(8.3)
15	.900	(22.9)	1.150	(29.2)	1.039	(26.4)	.992	(25.2)	.260	(6.6)	.457	(11.6)
17	.940	(23.9)	1.300	(33.0)	1.188	(30.2)	1.056	(26.8)	.283	(7.2)	.614	(15.6)
19	1.020	(25.9)	1.500	(38.1)	1.300	(33.0)	1.233	(31.3)	.325	(8.3)	.634	(16.1)
21	1.070	(27.2)	1.600	(40.6)	1.425	(36.2)	1.296	(32.9)	.343	(8.7)	.698	(17.7)
23	1.190	(30.2)	1.700	(43.2)	1.550	(39.4)	1.358	(34.5)	.381	(9.7)	.823	(20.9)
25	1.220	(31.0)	1.800	(45.7)	1.675	(42.5)	1.420	(36.1)	.418	(10.6)	.853	(21.7)

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620-006
Split Strain Reliefs
Rotatable Coupling - Straight and 90°

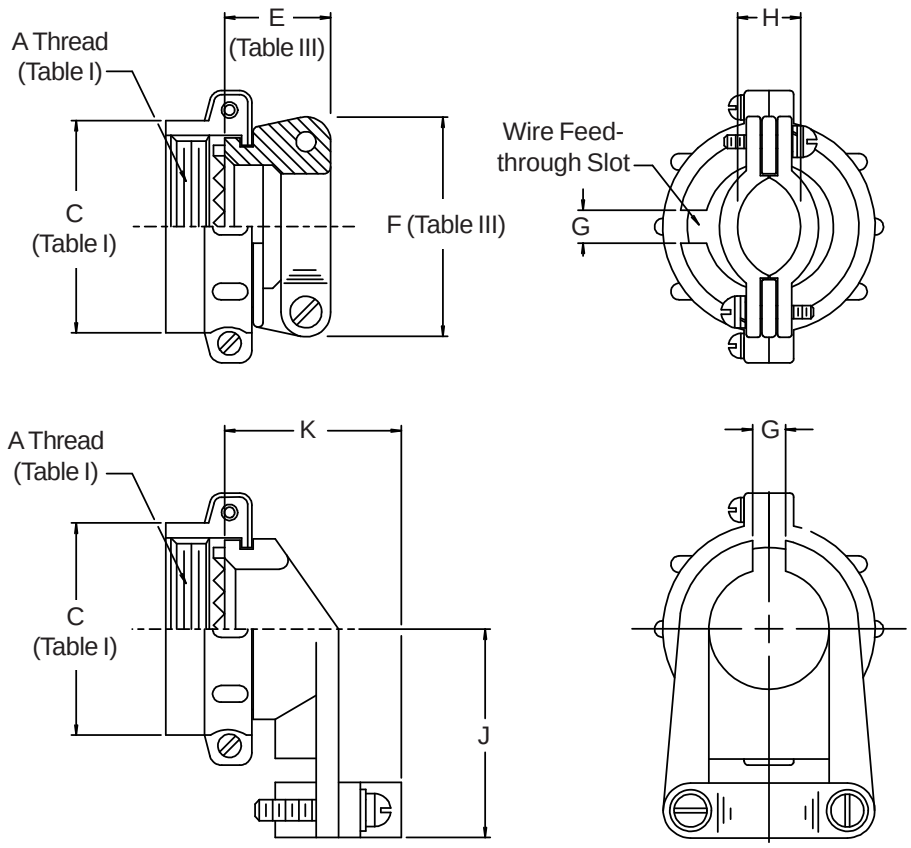
CONNECTOR DESIGNATOR

A-F-H-L

ROTATABLE COUPLING

620 H S 006 M 15

- Product Series
- Connector Designator
- Angle and Profile
  - S= Straight
  - A = 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)



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TABLE III: CABLE ENTRY

Shell Size Conn. Desig. A,F,L	H	E Max		F Nom		G Min		H Cable Entry Closed		H Cable Entry Open		J Max		K Max	
08	09	.602	(15.3)	.752	(19.1)	.125	(3.2)	.125	(3.2)	.204	(5.2)	.808	(20.3)	.704	(17.9)
10	11	.712	(18.1)	.832	(21.1)	.125	(3.2)	.187	(4.7)	.286	(7.3)	.867	(22.0)	.786	(20.0)
12	13	.837	(21.3)	.988	(25.1)	.188	(4.8)	.291	(7.4)	.416	(10.6)	.929	(23.6)	.979	(24.9)
14	15	.837	(21.3)	1.046	(26.6)	.188	(4.8)	.351	(8.9)	.476	(12.1)	.992	(25.2)	1.039	(26.4)
16	17	.962	(24.4)	1.319	(33.5)	.188	(4.8)	.501	(12.7)	.625	(15.9)	1.056	(26.8)	1.188	(30.2)
18	19	1.212	(30.8)	1.451	(36.9)	.250	(6.4)	.578	(14.7)	.706	(17.9)	1.233	(31.3)	1.300	(33.0)
20	21	1.337	(34.0)	1.557	(39.5)	.250	(6.4)	.581	(14.8)	.831	(21.1)	1.296	(32.9)	1.425	(36.2)
22	23	1.462	(37.1)	1.653	(42.0)	.312	(7.9)	.644	(16.4)	.956	(24.3)	1.358	(34.5)	1.550	(39.4)
24	25	1.587	(40.3)	1.775	(45.1))	.312	(7.9)	.706	(17.9)	1.081	(27.5)	1.420	(36.1)	1.675	(42.5)
28		1.731	(44.0)	2.020	(51.3)	.312	(7.9)	.750	(19.1)	1.187	(30.1)	1.634	(41.5)	1.813	(46.1)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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Glenair®

620AS001
Strain Relief
Stainless Steel - Rotatable Coupling - Straight

STAINLESS STEEL

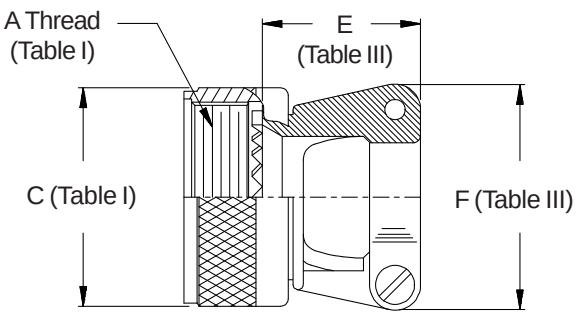
CONNECTOR DESIGNATOR

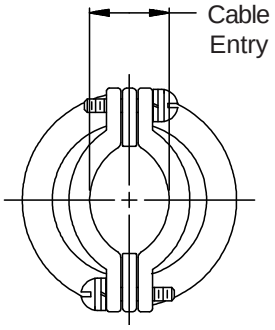
A

ROTATABLE COUPLING

620AS001 U 16

- Basic Part No.
- Finish
  - Z1 = Passivate
  - U = Black Cadmium
- Shell Size





See inside back cover fold-out or page 14 for Table I.

TABLE III: CABLE ENTRY

Shell Size	E Nom	F Max	Cable Entry Closed	Cable Entry Open
08	.555 (14.1)	.752 (19.1)	.125 (3.2)	.204 (5.2)
10	.665 (16.9)	.832 (21.1)	.187 (4.7)	.286 (7.3)
12	.790 (20.1)	.988 (25.1)	.291 (7.4)	.416 (10.6)
14	.790 (20.1)	1.046 (26.6)	.351 (8.9)	.476 (12.1)
16	.915 (23.2)	1.319 (33.5)	.501 (12.7)	.626 (15.9)
18	1.165 (29.6)	1.451 (36.9)	.518 (13.2)	.706 (17.9)
20	1.290 (32.8)	1.557 (39.5)	.581 (14.8)	.831 (21.1)
22	1.415 (35.9)	1.653 (42.0)	.644 (16.4)	.956 (24.3)
24	1.540 (39.1)	1.775 (45.1)	.706 (17.9)	1.081 (27.5)
28	1.690 (42.9)	2.020 (51.3)	.750 (19.1)	1.187 (30.1)
32	1.890 (48.0)	2.391 (60.7)	.875 (22.2)	1.250 (31.8)
36	2.270 (57.6)	2.496 (63.4)	.938 (23.8)	1.375 (34.9)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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STAINLESS STEEL

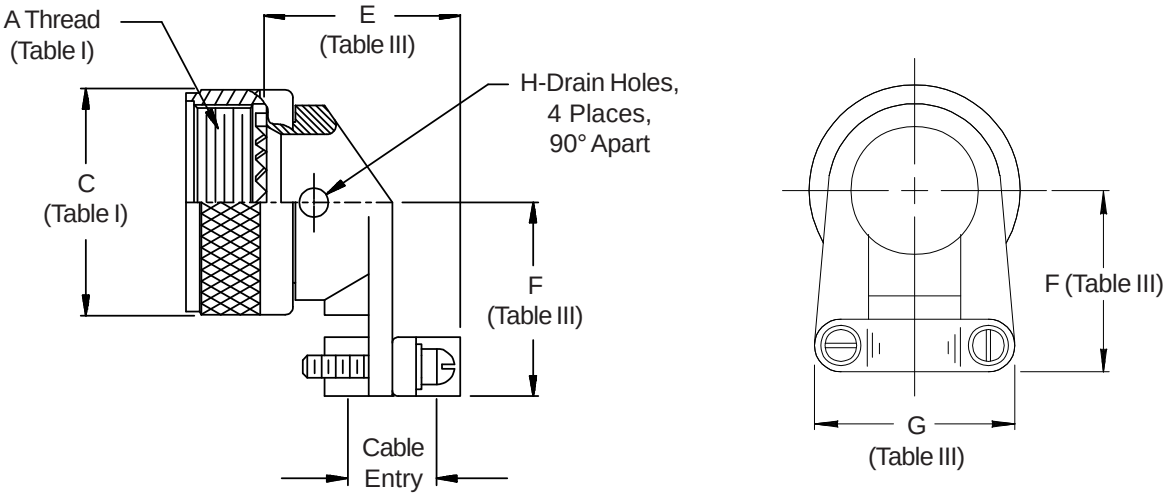
CONNECTOR DESIGNATOR

A

ROTATABLE COUPLING

620 A A 002 U 16 D

- Product Series
- Connector Designator
- Angular Function
  A = 90°
- Basic Part No.
- Finish
  Z1 = Passivate
  U = Black Cadmium
- Shell Size
- Drain Hole Option
  (Omit for None)



See inside back cover fold-out or page 14 for Table I.

TABLE III: CABLE ENTRY

Shell Size	E Max	F Max	G Max	H Max	Cable Entry Closed	Cable Entry Open
08	.704 (17.9)	.808 (20.5)	.752 (19.1)	.125 (3.2)	.125 (3.2)	.204 (5.2)
10	.786 (20.0)	.867 (22.0)	.832 (21.1)	.125 (3.2)	.187 (4.7)	.286 (7.3)
12	.979 (24.9)	.929 (23.6)	.988 (25.1)	.188 (4.8)	.291 (7.4)	.416 (10.6)
14	1.039 (26.4)	.992 (25.2)	1.046 (26.6)	.188 (4.8)	.351 (8.9)	.476 (12.1)
16	1.188 (30.2)	1.056 (26.8)	1.319 (33.5)	.188 (4.8)	.501 (12.7)	.626 (15.9)
18	1.300 (33.0)	1.233 (31.3)	1.451 (36.9)	.188 (4.8)	.518 (13.2)	.706 (17.9)
20	1.425 (36.2)	1.296 (32.9)	1.551 (39.4)	.188 (4.8)	.581 (14.8)	.831 (21.1)
22	1.550 (39.4)	1.358 (34.5)	1.653 (42.0)	.188 (4.8)	.644 (16.4)	.956 (24.3)
24	1.675 (42.5)	1.420 (36.1)	1.775 (45.1)	.188 (4.8)	.706 (17.9)	1.081 (27.5)
28	1.813 (46.1)	1.634 (41.5)	2.020 (51.3)	.188 (4.8)	.750 (19.1)	1.187 (30.1)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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620-048
Strain Relief
Self-Locking Rotatable Coupling - Straight and 90°

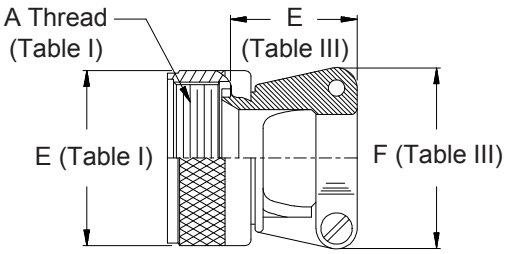
CONNECTOR DESIGNATOR

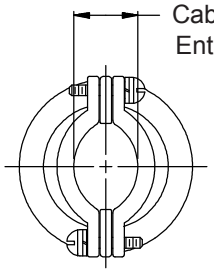
A

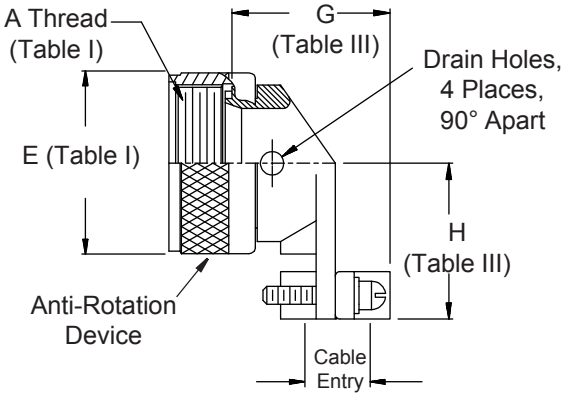
SELF-LOCKING ROTATABLE COUPLING

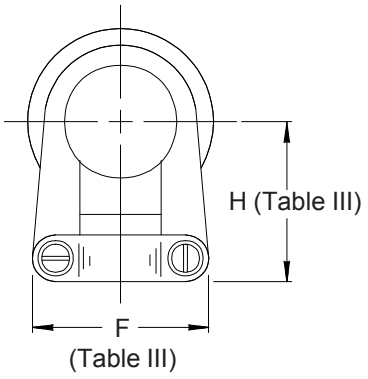
620 A S 048 M 16 D

- Product Series
- Connector Designator
- Angle and Profile
  - S = Straight
  - A = 90°
  - See page 62-9 for 45°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)
- Drain Hole Option - 90° Only (Omit for None)









See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

TABLE III: CABLE ENTRY

Shell Size	E Max		F Max		G Max		H Max		Cable Entry Closed		Cable Entry Open	
08	.730	(18.5)	.782	(19.9)	1.930	(49.0)	.808	(20.5)	.125	(3.2)	.204	(5.2)
10	.850	(21.6)	.862	(21.9)	1.020	(25.9)	.867	(22.0)	.187	(4.7)	.286	(7.3)
12	.980	(24.9)	1.003	(25.5)	1.210	(30.7)	.929	(23.6)	.291	(7.4)	.416	(10.6)
14	.980	(24.9)	1.061	(26.9)	1.270	(32.3)	.992	(25.2)	.351	(8.9)	.476	(12.1)
16	1.100	(27.9)	1.334	(33.9)	1.420	(36.1)	1.056	(26.8)	.501	(12.7)	.626	(15.9)
18	1.350	(34.3)	1.466	(37.2)	1.530	(38.9)	1.233	(31.3)	.518	(13.2)	.706	(17.9)
20	1.480	(37.6)	1.572	(39.9)	1.650	(41.9)	1.296	(32.9)	.581	(14.8)	.831	(21.1)
22	1.600	(40.6)	1.688	(42.9)	1.780	(45.2)	1.358	(34.5)	.644	(16.4)	.956	(24.3)
24	1.730	(43.9)	1.790	(45.5)	1.900	(48.3)	1.420	(36.1)	.706	(17.9)	1.081	(27.5)
28	1.880	(47.8)	2.035	(51.7)	2.200	(55.9)	1.634	(41.5)	.750	(19.1)	1.187	(30.1)
32	2.060	(52.3)	2.386	(60.6)	2.270	(57.7)	1.859	(47.2)	.875	(22.2)	1.250	(31.8)
36	2.440	(62.0)	2.496	(63.4)	2.390	(60.7)	1.984	(50.4)	.938	(23.8)	1.375	(34.9)
40	2.630	(66.8)	2.566	(65.2)	2.520	(64.0)	2.109	(53.6)	.938	(23.8)	1.500	(38.1)

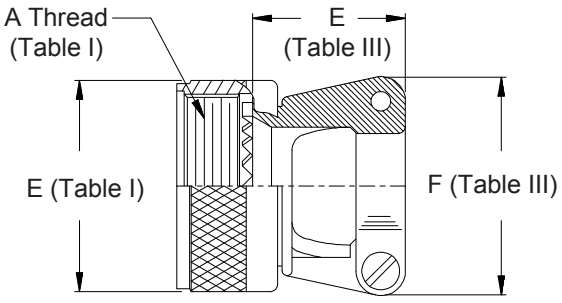
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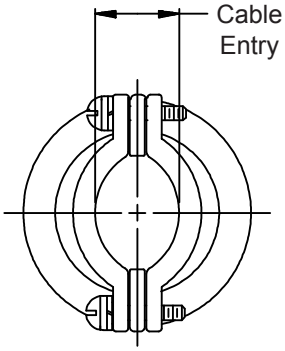
CONNECTOR DESIGNATOR
F-H-L-S

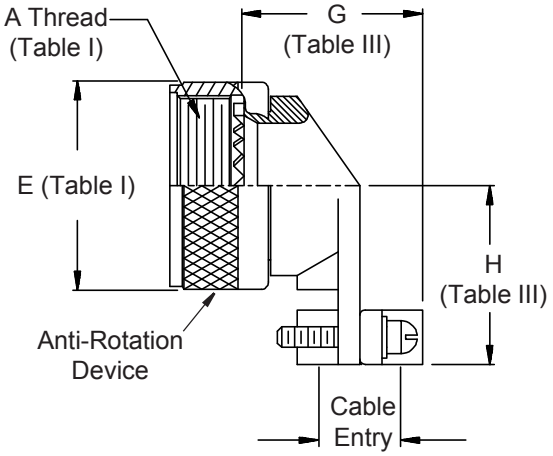
SELF-LOCKING
ROTATABLE COUPLING

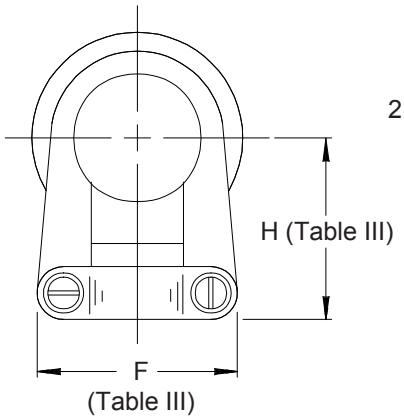
620 F S 048 M 16

- Product Series
- Connector Designator
- Angle and Profile
  - S = Straight
  - A = 90°
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)









See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

TABLE III: CABLE ENTRY

Shell Size	E Max		F Max		G Max		H Max		Cable Entry Closed		Cable Entry Open	
08/09	.830	(21.1)	.850	(21.6)	.704	(17.9)	.808	(20.5)	.098	(2.5)	.234	(5.9)
10/11	.900	(22.9)	.900	(22.9)	.786	(20.0)	.867	(22.0)	.153	(3.9)	.234	(5.9)
12/13	.950	(24.1)	1.100	(27.9)	.979	(24.9)	.929	(23.6)	.190	(4.8)	.328	(8.3)
14/15	.950	(24.1)	1.150	(29.2)	1.039	(26.4)	.992	(25.2)	.260	(6.6)	.457	(11.6)
16/17	.990	(25.2)	1.300	(33.0)	1.188	(30.2)	1.056	(26.8)	.283	(7.2)	.614	(15.6)
18/19	1.070	(27.2)	1.500	(38.1)	1.300	(33.0)	1.233	(31.3)	.325	(8.3)	.634	(16.1)
20/21	1.120	(28.5)	1.600	(40.6)	1.425	(36.2)	1.296	(32.9)	.343	(8.7)	.698	(17.7)
22/23	1.240	(31.5)	1.700	(43.2)	1.550	(39.4)	1.358	(34.5)	.381	(9.7)	.823	(20.9)
24/25	1.270	(32.3)	1.800	(45.7)	1.675	(42.5)	1.420	(36.1)	.418	(10.6)	.853	(21.7)

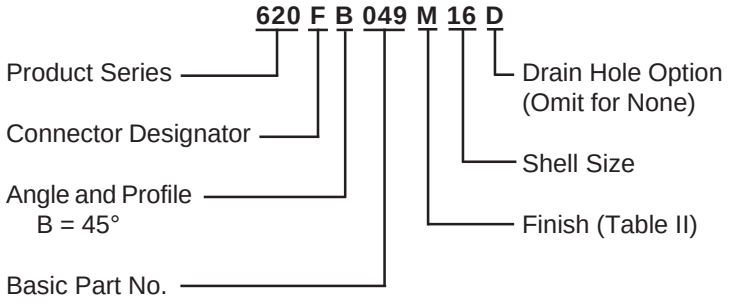
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620-049
Strain Relief
Self-Locking Rotatable Coupling - 45°

CONNECTOR DESIGNATOR

A-F-H-L-S

SELF-LOCKING ROTATABLE COUPLING



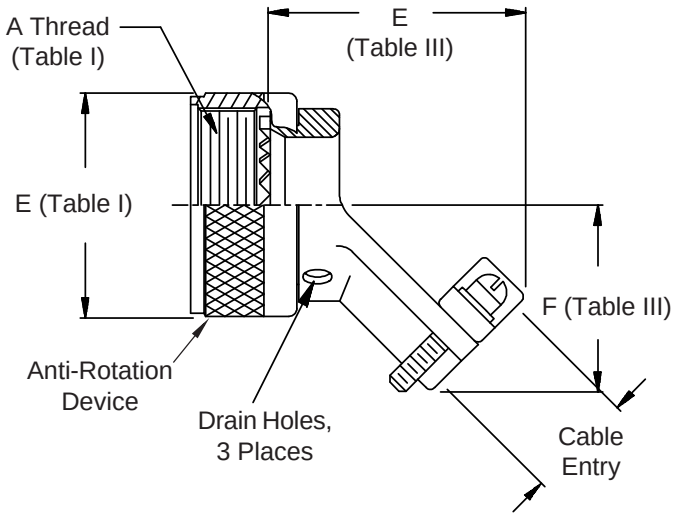


TABLE III: CABLE ENTRY

Shell Size	E Max	F Max	Cable Entry Closed	Cable Entry Open
08/09	1.536 (39.0)	.730 (18.5)	.125 (3.2)	.204 (5.2)
10/11	1.566 (39.8)	.810 (20.6)	.187 (4.7)	.286 (7.3)
12/13	1.646 (41.8)	.870 (22.1)	.291 (7.4)	.416 (10.6)
14/15	1.686 (42.8)	.930 (23.6)	.351 (8.9)	.476 (12.1)
16/17	1.796 (45.6)	.990 (25.1)	.501 (12.7)	.626 (15.9)
18/19	1.906 (48.4)	1.110 (28.2)	.518 (13.2)	.706 (17.9)
20/21	1.956 (49.7)	1.170 (29.7)	.581 (14.8)	.831 (21.1)
22/23	1.996 (50.7)	1.240 (31.5)	.644 (16.4)	.956 (24.3)
24/25	2.046 (52.0)	1.300 (33.0)	.706 (17.9)	1.081 (27.5)

See inside back cover fold-out or pages 13 and 14 for Tables I and II.

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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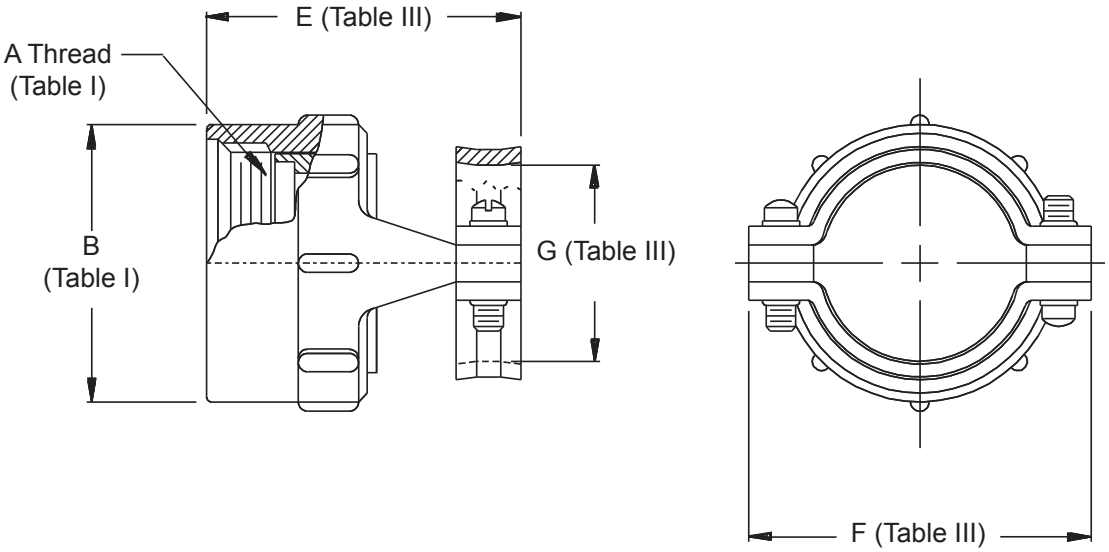
CONNECTOR DESIGNATOR

D

DIRECT COUPLING

620 D S 054 M 16

- Product Series
- Connector Designator
- Angle and Profile
  S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)



See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CABLE ENTRY

Shell Size	E Max	F Max	G Dia Max Closed
08	1.120 (28.4)	.833 (21.2)	.187 (4.7)
10	1.120 (28.4)	.855 (21.7)	.187 (4.7)
12	1.120 (28.4)	1.016 (25.8)	.281 (7.1)
14	1.370 (34.8)	1.141 (29.0)	.325 (8.3)
16	1.370 (34.8)	1.203 (30.6)	.356 (9.0)
18	1.370 (34.8)	1.469 (37.3)	.456 (11.6)
20	1.370 (34.8)	1.469 (37.3)	.519 (13.2)
22	1.370 (34.8)	1.641 (41.7)	.519 (13.2)
24	1.370 (34.8)	1.750 (44.5)	.657 (16.7)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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Glenair®

620ES050
Strain Relief
Direct Coupling - Straight

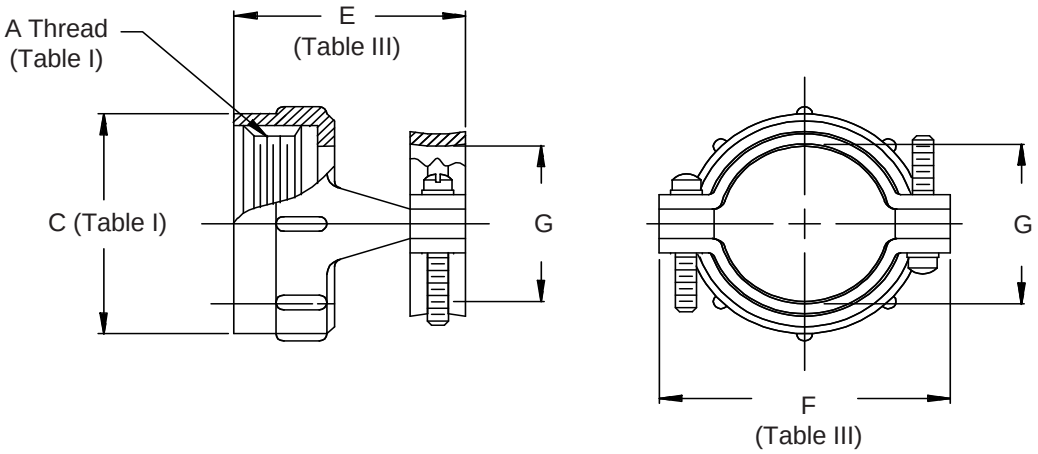
CONNECTOR DESIGNATOR

E

DIRECT COUPLING

620ES050 M 16

- Basic Part No.
- Finish (Table II)
- Shell Size



See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CABLE ENTRY

Shell Size	E Max	F Max	G Dia ± .030 (0.8)
08	.950 (24.1)	.742 (18.8)	.186 (4.7)
10	.950 (24.1)	.873 (22.2)	.270 (6.9)
12	.950 (24.1)	.972 (24.7)	.450 (11.4)
14	1.185 (30.1)	1.078 (27.4)	.460 (11.7)
16	1.185 (30.1)	1.242 (31.5)	.610 (15.5)
18	1.185 (30.1)	1.345 (34.2)	.690 (17.5)
20	1.185 (30.1)	1.472 (37.4)	.816 (20.7)
22	1.185 (30.1)	1.597 (40.6)	.940 (23.9)
24	1.185 (30.1)	1.724 (43.8)	1.066 (27.1)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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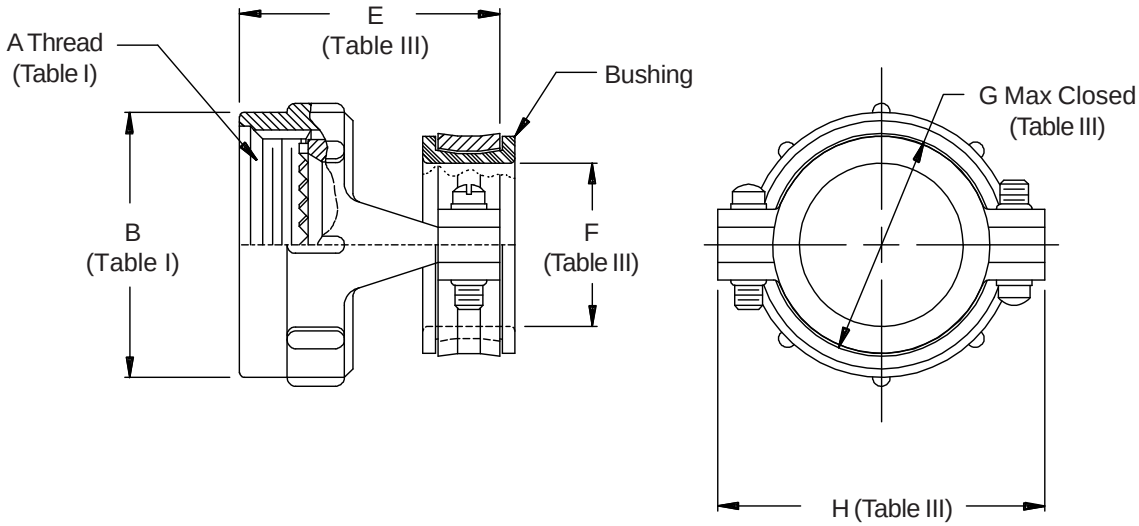
CONNECTOR DESIGNATOR

F

DIRECT COUPLING

620 F S 054 M 16

- Product Series
- Connector Designator
- Angle and Profile
  S = Straight
- Basic Part No.
- Finish (Table II)
- Shell Size (Table III)



See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CABLE ENTRY

Shell Size	E Max		F Dia Free		G Max Closed		H Max	
08	1.078	(27.4)	.125	(3.2)	.187	(4.7)	.828	(21.0)
10	1.078	(27.4)	.188	(4.8)	.187	(4.7)	.891	(22.6)
12	1.078	(27.4)	.312	(7.9)	.281	(7.1)	1.016	(25.8)
14	1.312	(33.3)	.375	(9.5)	.325	(8.3)	1.141	(29.0)
16	1.312	(33.3)	.500	(12.7)	.356	(9.0)	1.203	(30.6)
18	1.312	(33.3)	.625	(15.9)	.456	(11.6)	1.469	(37.3)
20	1.312	(33.3)	.625	(15.9)	.519	(13.2)	1.469	(37.3)
22	1.453	(36.9)	.750	(19.1)	.519	(13.2)	1.656	(42.1)
24	1.375	(34.9)	.800	(20.3)	.657	(16.7)	1.750	(44.5)

1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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Glenair®

620JS001
Strain Relief
Direct Coupling - Straight

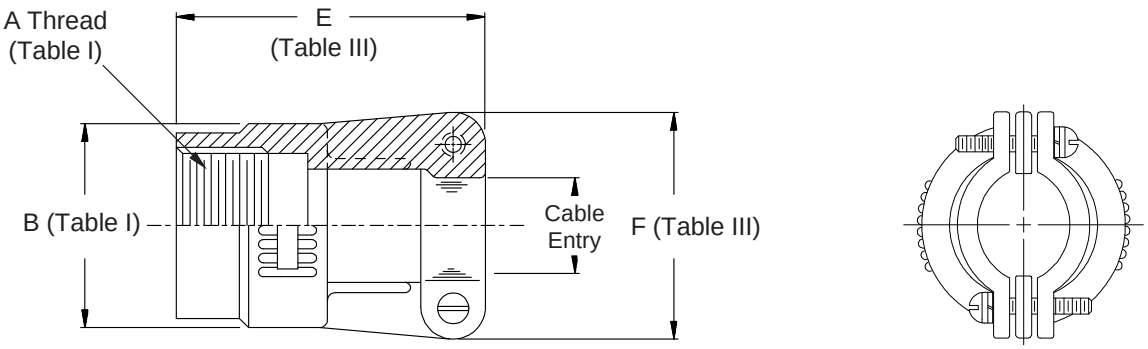
CONNECTOR DESIGNATOR

J

DIRECT COUPLING

620JS001 M 18

- Basic Part No.
- Finish (Table II)
- Shell Size



See inside back cover fold-out or pages 13 and 14 for Tables I and II.

TABLE III: CABLE ENTRY

Shell Size	E		F		Cable Entry Max	
08	1.340	(34.0)	.750	(19.1)	.125	(3.2)
10	1.340	(34.0)	.937	(23.8)	.250	(6.4)
14	1.340	(34.0)	1.125	(28.6)	.500	(12.7)
16	1.340	(34.0)	1.187	(30.1)	.625	(15.9)
18	1.340	(34.0)	1.312	(33.3)	.750	(19.1)
20	1.420	(36.1)	1.437	(36.5)	.875	(22.2)
22	1.420	(36.1)	1.562	(39.7)	1.000	(25.4)
24	1.420	(36.1)	1.687	(42.8)	1.125	(28.6)

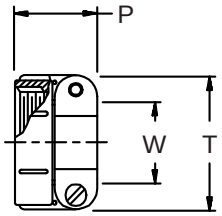
1. Cable Entry is defined as the accommodation entry for the wire bundle or cable. Dimensions are not intended for inspection criteria.
2. Metric dimensions (mm) are indicated in parentheses.

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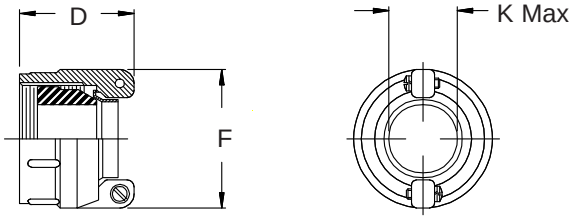
620-053 M 16 A

Basic Part No.
Finish (Table II)
Clamp Style
Dash No.

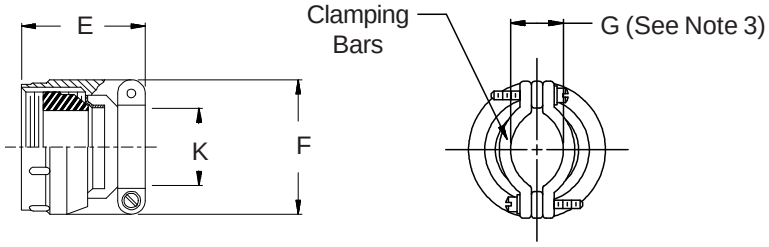
STYLE A
Medium Duty
(Table V)



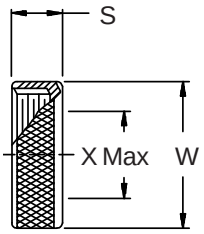
STYLE B
Medium Duty
(Table III)



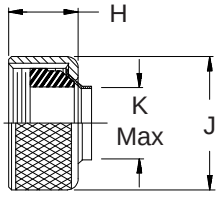
STYLE C
Medium Duty
(Table III)



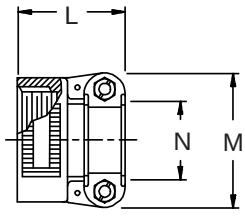
STYLE D
Medium Duty
(Table V)



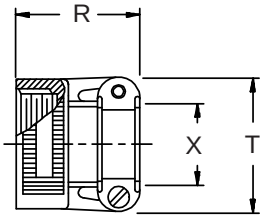
STYLE E
Medium Duty
(Table III)



STYLE H
Heavy Duty
(Table IV)



STYLE M
Medium Duty
(Table V)



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Glenair®

620-053
Backshell Accessory Thread Strain Reliefs

TABLE III: CABLE ENTRY

Dash No.	D Max	E Max	F Max	G Ref	H Max	J Max	K - Cable Range Min *	K - Cable Range Max
03	1.031 (26.2)	1.375 (34.9)	.812 (20.6)	.135 (3.4)	.781 (19.8)	.812 (20.6)	.156 (4.0)	.219 (5.6)
04	1.031 (26.2)	1.375 (34.9)	.937 (23.8)	.203 (5.2)	.781 (19.8)	.937 (23.8)	.188 (4.8)	.312 (7.9)
06	1.031 (26.2)	1.375 (34.9)	1.062 (27.0)	.285 (7.2)	.781 (19.8)	1.062 (27.0)	.281 (7.1)	.438 (11.1)
08	1.031 (26.2)	1.375 (34.9)	1.188 (30.2)	.350 (8.9)	.781 (19.8)	1.188 (30.2)	.312 (7.9)	.531 (13.5)
10	1.094 (27.8)	1.437 (36.5)	1.312 (33.3)	.390 (9.9)	.844 (21.4)	1.312 (33.3)	.375 (9.5)	.625 (15.9)
12	1.219 (31.0)	1.437 (36.5)	1.562 (39.7)	.460 (11.7)	.875 (22.2)	1.562 (39.7)	.500 (12.7)	.750 (19.1)
16	1.219 (31.0)	1.562 (39.7)	1.750 (44.5)	.510 (13.0)	.875 (22.2)	1.750 (44.5)	.625 (15.9)	.938 (23.8)
20	1.344 (34.1)	1.812 (46.0)	2.250 (57.2)	.695 (17.7)	.969 (24.6)	2.250 (57.2)	.938 (23.8)	1.250 (31.8)
24	1.547 (39.3)	2.062 (52.4)	2.375 (60.3)	.715 (18.2)	1.188 (30.2)	2.375 (60.3)	1.000 (25.4)	1.375 (34.9)
28	1.547 (39.3)	2.062 (52.4)	2.625 (66.7)	.915 (23.2)	1.188 (30.2)	2.625 (66.7)	1.250 (31.8)	1.625 (41.3)
32	1.734 (44.0)	2.188 (55.6)	2.812 (71.4)	1.070 (27.2)	1.375 (34.9)	2.812 (71.4)	1.500 (38.1)	1.875 (47.6)

* Not Applicable Styles B and E

TABLE IV: CABLE ENTRY

Dash No.	L Max	M Max	N - Cable Range Min	N - Cable Range Max
04	1.312 (33.3)	.957 (24.3)	.125 (3.2)	.312 (7.9)
06	1.312 (33.3)	1.145 (29.1)	.250 (6.4)	.437 (11.1)
08	1.312 (33.3)	1.332 (33.8)	.312 (7.9)	.562 (14.3)
10	1.312 (33.3)	1.332 (33.8)	.350 (8.9)	.625 (15.9)
12	1.344 (34.1)	1.551 (39.4)	.500 (12.7)	.750 (19.1)
16	1.438 (36.5)	1.770 (45.0)	.625 (15.9)	.937 (23.8)
20	1.625 (41.3)	2.113 (53.7)	.875 (22.2)	1.250 (31.8)
24	1.688 (42.9)	2.363 (60.0)	1.000 (25.4)	1.375 (34.9)
28	1.938 (49.2)	2.770 (70.4)	1.250 (31.8)	1.625 (41.3)
32	1.938 (49.2)	3.020 (76.7)	1.437 (36.5)	1.875 (47.6)

See inside back cover fold-out or page 14 for Table II.

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. Style C saddles are bottomed on clamp ears.

TABLE V: CABLE ENTRY

Dash No.	P Max	R Max	S Max	T Max	W Max	X - Cable Range Min **	X - Cable Range Max
03*	.844 (21.4)	n/a	.562 (14.3)	.843 (21.4)	.630 (16.0)	.156 (4.0)	.250 (6.4)
04*	.844 (21.4)	n/a	.562 (14.3)	.906 (23.0)	.755 (19.2)	.188 (4.8)	.312 (7.9)
06*	.906 (23.0)	n/a	.562 (14.3)	1.093 (27.8)	.942 (23.9)	.281 (7.1)	.438 (11.1)
08	.969 (24.6)	1.312 (33.3)	.562 (14.3)	1.187 (30.1)	1.067 (27.1)	.344 (8.7)	.562 (14.3)
10	.969 (24.6)	1.312 (33.3)	.562 (14.3)	1.281 (32.5)	1.192 (30.3)	.375 (9.5)	.625 (15.9)
12	.969 (24.6)	1.344 (34.1)	.562 (14.3)	1.500 (38.1)	1.380 (35.1)	.438 (11.1)	.750 (19.1)
16	1.062 (27.0)	1.688 (42.9)	.562 (14.3)	1.719 (43.7)	1.535 (39.0)	.562 (14.3)	.938 (23.8)
20	1.125 (28.6)	1.906 (48.4)	.562 (14.3)	2.062 (52.4)	1.848 (46.9)	.750 (19.1)	1.250 (31.8)
24	1.188 (30.2)	1.906 (48.4)	.594 (15.1)	2.312 (58.7)	2.255 (57.3)	.781 (19.8)	1.375 (34.9)
28	1.719 (43.7)	2.125 (54.0)	.594 (15.1)	2.719 (69.1)	2.505 (63.6)	.969 (24.6)	1.625 (41.3)
32*	1.781 (45.2)	n/a	.750 (19.1)	2.969 (75.4)	2.755 (70.0)	1.125 (28.6)	1.875 (47.6)
40*	1.781 (45.2)	n/a	.812 (20.6)	3.531 (89.7)	3.255 (82.7)	1.469 (37.3)	2.375 (60.3)

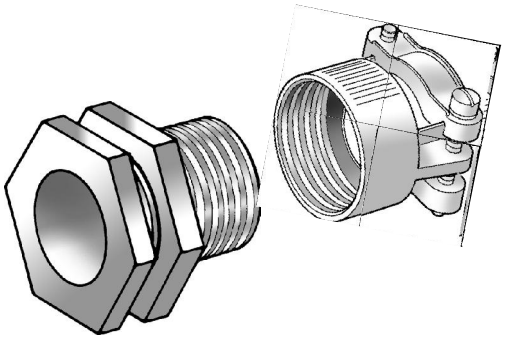
* Not available in Style M clamp.

** Not Applicable Style D

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PRODUCT FEATURES

- **Bulkhead Cable Feed-throughs with Optional Environmental Sealing, Shield Termination and Strain-Relief**
- **Front and Rear Panel Mounts**
- **Front and Rear Jam Nut Mounts**
- **Submersible Cable Sealing Designs**
- **Straight, 45°, 90° Configurations**
- **G-Spring, Banding and Conical Ring Type Shield Terminations**

Complete flexibilty in routing for all bulkhead and enclosure applications

The industry's widest selection of feed-through fittings

This section includes a wide variety of bulkhead fittings that feature environmental sealing, shield terminating, strain reliefs and angular shaped options to facilitate the routing of cables or conduit through bulkheads or other enclosures.

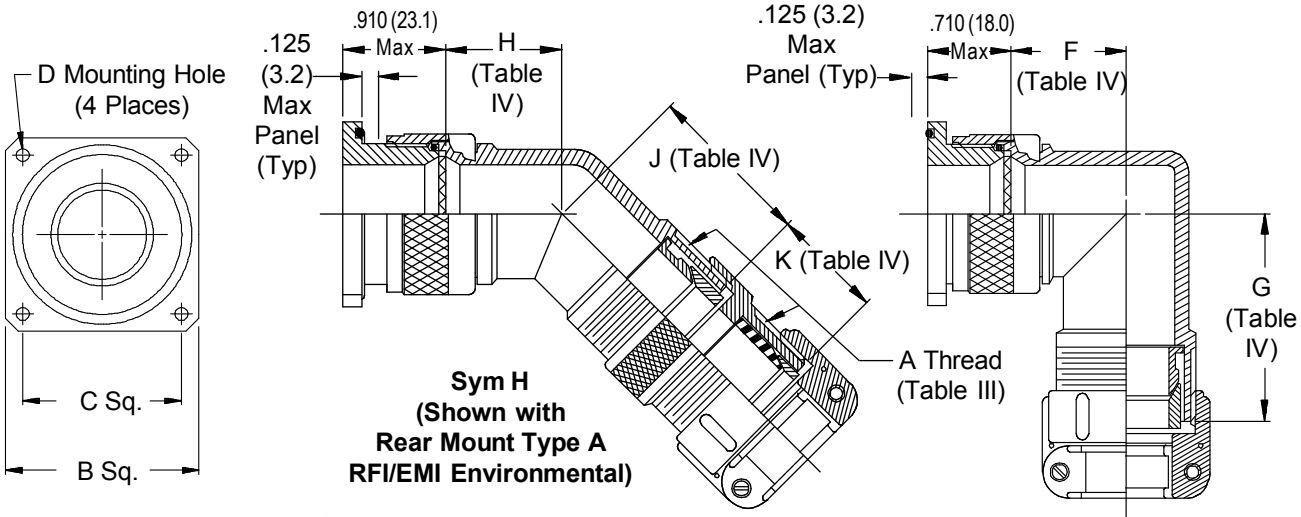
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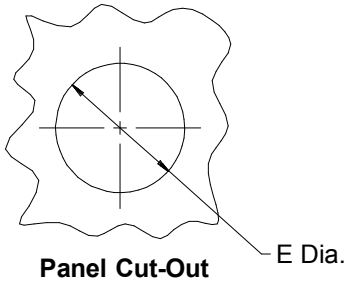
630-003
EMI/RFI Environmental Bulkhead Feed-Through
with Strain Relief
Front and Rear Panel Mount - 45° and 90°

630 A H 003 NF 16 2 H

- Product Series
- Fitting Type
  - A = Rear Mount
  - B = Front Mount
- Angle and Profile
  - H = 45∞
  - J = 90∞
- Basic Part No.
- Finish (Table II - See inside back cover fold-out or page 14)
- Cable Entry (Tables III and V)
- Fitting Style
  - 1 = RFI/EMI Only
  - 2 = RFI/EMI Environmental
- Strain Relief Style (H, A, M, D)

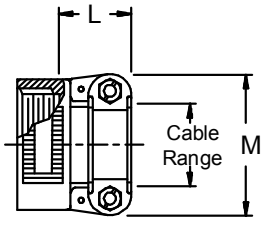
Single Overall EMI/RFI Shield Termination



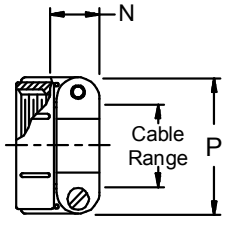


Panel Cut-Out

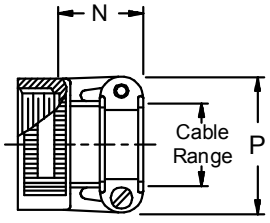
STYLE H
Heavy Duty
(Table V)



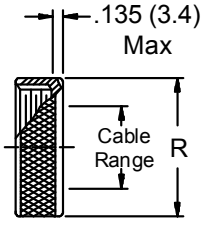
STYLE A
Medium Duty
(Table V)



STYLE M
Medium Duty
(Table V)



STYLE D
Medium Duty
(Table V)



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630-003
EMI/RFI Environmental Bulkhead Feed-Through
with Strain Relief
Front and Rear Panel Mount - 45° and 90°

Glenair®

TABLE III: CABLE ENTRY

Dash No.	Clamp Size	Cable Range Min		Cable Range Max		A Thread Unified	B Dim		C Sq. ± .010	C Sq. (± .3)	D Dia + .015 - .000	D Dia (+ .4) (-.0)	E Dia ± .010	E Dia (± .3)
01	03	.157	(4.0)	.250	(6.4)	1/2 -28	.885	(22.5)	.593	(15.1)	.120	(3.0)	.515	(13.1)
03	04	.187	(4.7)	.312	(7.9)	5/8 -24	1.104	(28.0)	.812	(20.6)	.120	(3.0)	.640	(16.3)
05	06	.281	(7.1)	.437	(11.1)	3/4 -20	1.197	(30.4)	.906	(23.0)	.120	(3.0)	.765	(19.4)
07	08	.344	(8.7)	.562	(14.3)	7/8 -20	1.291	(32.8)	.968	(24.6)	.120	(3.0)	.890	(22.6)
09	10	.375	(9.5)	.625	(15.9)	1 -20	1.385	(35.2)	1.062	(27.0)	.120	(3.0)	1.015	(25.8)
11	12	.438	(11.1)	.750	(19.1)	1 3/16 -18	1.635	(41.5)	1.250	(31.8)	.120	(3.0)	1.202	(30.5)
13	16	.625	(15.9)	.937	(23.8)	1 7/16 -18	1.760	(44.7)	1.375	(34.9)	.147	(3.7)	1.452	(36.9)
15	20	.875	(22.2)	1.250	(31.8)	1 3/4 -18	2.010	(51.1)	1.562	(39.7)	.147	(3.7)	1.765	(44.8)
17	24	1.000	(25.4)	1.375	(34.9)	2 -18	2.260	(57.4)	1.750	(44.5)	.173	(4.4)	2.015	(51.2)
19	28	1.250	(31.8)	1.625	(41.3)	2 1/4 -16	2.510	(63.8)	1.938	(49.2)	.173	(4.4)	2.265	(57.5)
21	32	1.437	(36.5)	1.875	(47.6)	2 1/2 -16	2.781	(70.6)	2.188	(55.6)	.173	(4.4)	2.515	(63.9)
23	40	1.875	(47.6)	2.250	(57.2)	3 -16	3.281	(83.3)	2.625	(66.7)	.173	(4.4)	3.015	(76.6)

TABLE IV: ELBOW DIMENSIONS

Dash No.	Clamp Size	F Max		G Max		H Max		J Max		K Max	
01	03	.750	(19.1)	1.000	(25.4)	.639	(16.2)	.890	(22.6)	.670	(17.0)
03	04	.810	(20.6)	1.060	(26.9)	.664	(16.9)	.920	(23.4)	.670	(17.0)
05	06	.870	(22.1)	1.125	(28.6)	.688	(17.5)	.940	(23.9)	.670	(17.0)
07	08	.920	(23.4)	1.190	(30.2)	.705	(17.9)	.970	(24.6)	.670	(17.0)
09	10	.980	(24.9)	1.250	(31.8)	.732	(18.6)	.990	(25.1)	.670	(17.0)
11	12	1.080	(27.4)	1.330	(33.8)	.773	(19.6)	1.020	(25.9)	.670	(17.0)
13	16	1.200	(30.5)	1.480	(37.6)	.823	(20.9)	1.090	(27.7)	.670	(17.0)
15	20	1.480	(37.6)	1.781	(45.2)	1.041	(26.4)	1.322	(33.6)	.700	(17.8)
17	24	1.610	(40.9)	1.938	(49.2)	1.092	(27.7)	1.425	(36.2)	.700	(17.8)
19	28	1.720	(43.7)	2.045	(51.9)	1.138	(28.9)	1.475	(37.5)	.700	(17.8)
21	32	1.830	(46.5)	2.218	(56.3)	1.184	(30.1)	1.578	(40.1)	.820	(20.8)
23	40	2.080	(52.8)	2.594	(65.9)	1.287	(32.7)	1.802	(45.8)	.820	(20.8)

TABLE V: CABLE ENTRY

Dash No.	Clamp Size	L Max		M Max		N Max		P Max		R Max	
01	03	---	---	---	---	.760	(19.3)	.843	(21.4)	.630	(16.0)
03	04	.780	(19.8)	.957	(24.3)	.760	(19.3)	.906	(23.0)	.755	(19.2)
05	06	.780	(19.8)	1.145	(29.1)	.760	(19.3)	1.093	(27.8)	.942	(23.9)
07	08	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)
09	10	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)
11	12	.811	(20.6)	1.551	(39.4)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)
13	16	.905	(23.0)	1.770	(45.0)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)
15	20	1.092	(27.7)	2.113	(53.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)
17	24	1.124	(28.5)	2.363	(60.0)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)
19	28	1.399	(35.5)	2.770	(70.4)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)
21	32	1.399	(35.5)	3.020	(76.7)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)
23	40	---	---	---	---	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

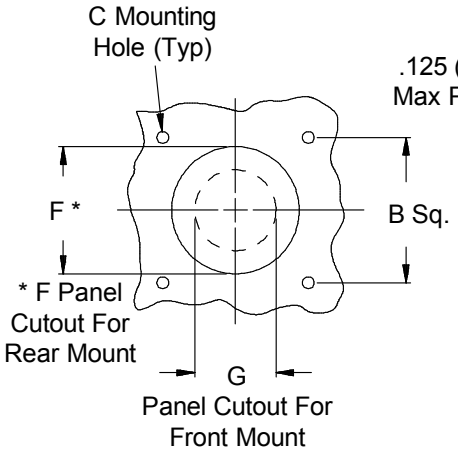
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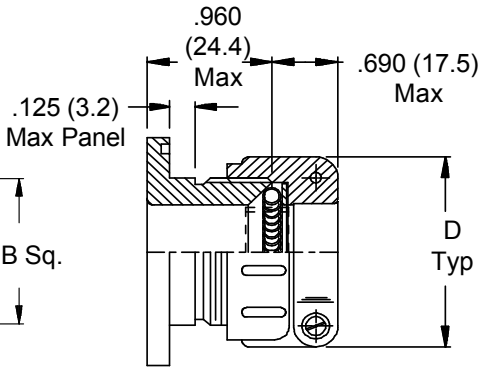
630-005
EMI/RFI Environmental G-Spring Bulkhead Fitting
with Strain Relief
Front and Rear Panel Mount - Straight

"G"-Spring EMI/RFI Shield Termination

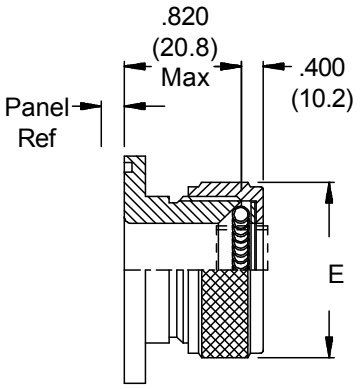
630 A 005 NF 16 2 G

- Product Series
- Fitting Type
  - A = Rear Mount
  - B = Front Mount
- Basic Part No.
- Finish (Table II)
- Cable Entry (Table III)
- Fitting Style
  - 1 = RFI/EMI Only
  - 2 = RFI/EMI Environmental
- Strain Relief Style (G, F)

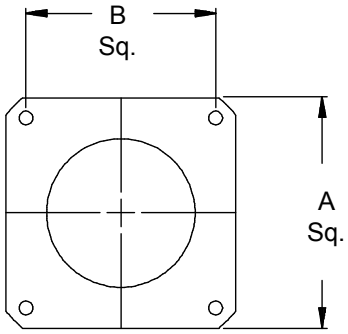




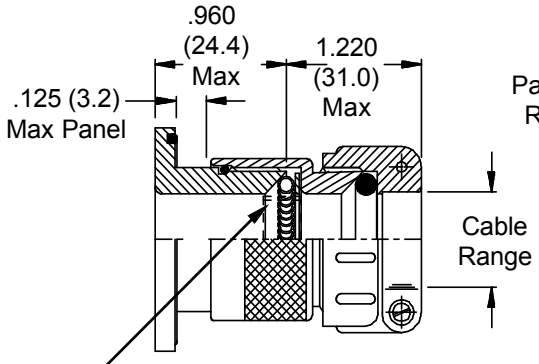
Style 1
RFI/EMI
Rear Mount Type A
(Shown With Style F
Strain Relief)



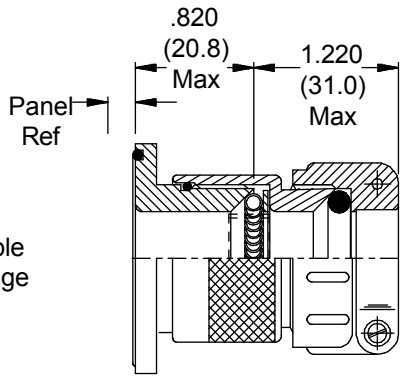
Style 1
RFI/EMI
Front Mount Type B
(Shown With Style G
Gland Nut)



469-001-XX Shield Support Ring (order separately) is recommended for use in all G-Spring Bulkhead Fittings (see page 460-3)



Style 2
RFI/EMI Environmental
Rear Mount Type A
(Shown With Style F
Strain Relief)



Style 2
RFI/EMI Environmental
Front Mount Type B
(Shown With Style F
Strain Relief)

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See inside back cover fold-out or page 14 for Table II.

TABLE III: CABLE ENTRY

Dash No.	Cable Range Min		Cable Range Max		A Max		B Dim		C +.015 - 0	C (+0.4) (-0.0)
01	.156	(4.0)	.250	(6.4)	.885	(22.5)	.593	(15.1)	.120	(3.0)
02	.188	(4.8)	.375	(9.5)	1.104	(28.0)	.812	(20.6)	.120	(3.0)
03	.250	(6.4)	.438	(11.1)	1.197	(30.4)	.906	(23.0)	.120	(3.0)
04	.280	(7.1)	.500	(12.7)	1.291	(32.8)	.968	(24.6)	.120	(3.0)
05	.375	(9.5)	.625	(15.9)	1.385	(35.2)	1.062	(27.0)	.120	(3.0)
06	.500	(12.7)	.750	(19.1)	1.635	(41.5)	1.250	(31.8)	.120	(3.0)
07	.625	(15.9)	.875	(22.2)	1.760	(44.7)	1.375	(34.9)	.147	(3.7)
08	.750	(19.1)	1.000	(25.4)	2.010	(51.1)	1.562	(39.7)	.147	(3.7)
09	.875	(22.2)	1.125	(28.6)	2.260	(57.4)	1.750	(44.5)	.173	(4.4)
10	1.000	(25.4)	1.250	(31.8)	2.510	(63.8)	1.938	(49.2)	.173	(4.4)
11	1.125	(28.6)	1.375	(34.9)	2.760	(70.1)	2.125	(54.0)	.173	(4.4)

TABLE III (Continued)

Dash No.	D Max		E Max		F +.015 - 0	F (+0.4) (-0.0)	G +.031 - 0	G (+0.8) (-0.0)
01	.843	(21.4)	.625	(15.9)	.515	(13.1)	.250	(6.4)
02	.968	(24.6)	.750	(19.1)	.640	(16.3)	.375	(9.5)
03	1.046	(26.6)	.875	(22.2)	.765	(19.4)	.438	(11.1)
04	1.156	(29.4)	1.000	(25.4)	.890	(22.6)	.500	(12.7)
05	1.218	(30.9)	1.125	(28.6)	1.015	(25.8)	.625	(15.9)
06	1.343	(34.1)	1.250	(31.8)	1.140	(29.0)	.750	(19.1)
07	1.468	(37.3)	1.375	(34.9)	1.265	(32.1)	.875	(22.2)
08	1.593	(40.5)	1.500	(38.1)	1.390	(35.3)	1.000	(25.4)
09	1.718	(43.6)	1.625	(41.3)	1.515	(38.5)	1.125	(28.6)
10	1.843	(46.8)	1.750	(44.5)	1.640	(41.7)	1.250	(31.8)
11	2.187	(55.5)	1.875	(47.6)	1.765	(44.8)	1.375	(34.9)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.
3. For proper termination, it is recommended that Glenair 469-001 Shield Support Ring (page 460-3) must be used on all assemblies. Place ring over wire and under shield; position under G-Spring.

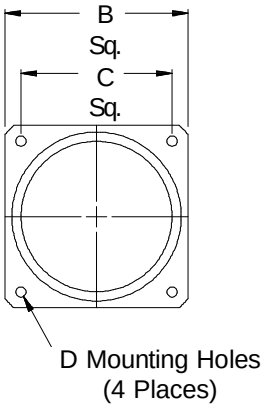
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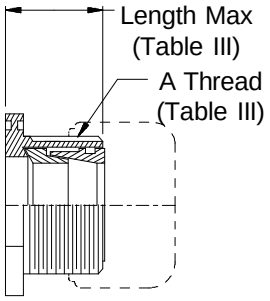
630-006
EMI/RFI Environmental Bulkhead Feed-Through
with Strain Relief
Front and Rear Panel Mount - Straight

Single Overall EMI/RFI Shield Termination

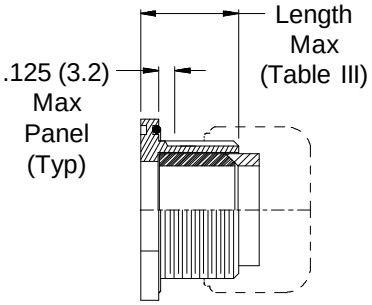
630 A 006 NF 16 2 A

- Product Series: 630
- Fitting Type: A = Rear Mount, B = Front Mount
- Basic Part No.: 006
- Finish (Table II): NF
- Cable Entry (Table III): 16
- Fitting Style: 1 = RFI/EMI Only, 2 = Environmental Only, 3 = RFI/EMI Environmental, 4 = Non-RFI/EMI Non-environmental
- Strain Relief Style (H, A, M, D): 2 A

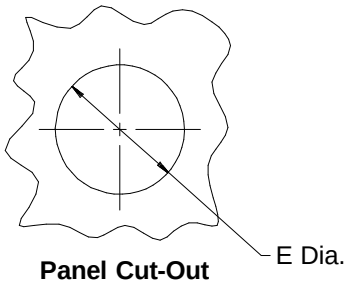




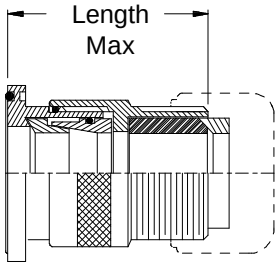
Style 1 - RFI/EMI
Type B - Front Mount



Style 2 - Environmental
Type A - Rear Mount



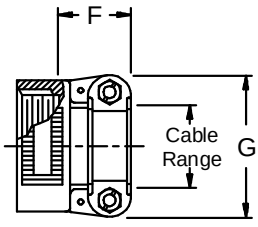
Panel Cut-Out



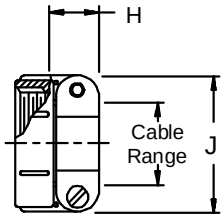
Style 3 -
RFI/EMI Environmental
Type B - Front Mount

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

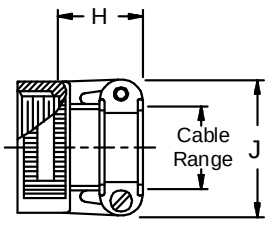
STYLE H
Heavy Duty



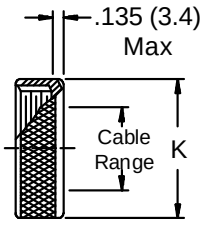
STYLE A
Medium Duty



STYLE M
Medium Duty



STYLE D
Medium Duty



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630-006
EMI/RFI Environmental Bulkhead Feed-Through
with Strain Relief
Front and Rear Panel Mount - Straight

See inside back cover fold-out or page 14 for Table II.

TABLE III: CABLE ENTRY

Dash No.	Clamp Style	Clamp Size	Cable Range Min		Cable Range Max		A Thread Unified	B Dim		C Sq. ± .010	C Sq. (± .3)	D Dia -.000 + .015	D Dia -.000 (+ .4)	E Dia -.000 + .030	E Dia -.000 (+.8)
01	1, 2	03	.157	(4.0)	.250	(6.4)	1/2 -28	.885	(22.5)	.593	(15.1)	.120	(3.0)	.250	(6.4)
02	3	03	.157	(4.0)	.250	(6.4)	1/2 -28	.885	(22.5)	.593	(15.1)	.120	(3.0)	.250	(6.4)
03	1,2	04	.187	(4.7)	.312	(7.9)	5/8 -24	1.104	(28.0)	.812	(20.6)	.120	(3.0)	.312	(7.9)
04	3	04	.187	(4.7)	.312	(7.9)	5/8 -24	1.104	(28.0)	.812	(20.6)	.120	(3.0)	.312	(7.9)
05	1, 2	06	.281	(7.1)	.437	(11.1)	3/4 -20	1.197	(30.4)	.906	(23.0)	.120	(3.0)	.437	(11.1)
06	3	06	.281	(7.1)	.437	(11.1)	3/4 -20	1.197	(30.4)	.906	(23.0)	.120	(3.0)	.437	(11.1)
07	1,2	08	.344	(8.7)	.562	(14.3)	7/8 -20	1.291	(32.8)	.968	(24.6)	.120	(3.0)	.562	(14.3)
08	3	08	.344	(8.7)	.562	(14.3)	7/8 -20	1.291	(32.8)	.968	(24.6)	.120	(3.0)	.562	(14.3)
09	1, 2	10	.375	(9.5)	.625	(15.9)	1 -20	1.385	(35.2)	1.062	(27.0)	.120	(3.0)	.625	(15.9)
10	3	10	.375	(9.5)	.625	(15.9)	1 -20	1.385	(35.2)	1.062	(27.0)	.120	(3.0)	.625	(15.9)
11	1,2	12	.438	(11.1)	.750	(19.1)	1 3/16 -18	1.635	(41.5)	1.250	(31.8)	.120	(3.0)	.750	(19.1)
12	3	12	.438	(11.1)	.750	(19.1)	1 3/16 -18	1.635	(41.5)	1.250	(31.8)	.120	(3.0)	.750	(19.1)
13	1, 2	16	.625	(15.9)	.937	(23.8)	1 7/16 -18	1.760	(44.7)	1.375	(34.9)	.147	(3.7)	.937	(23.8)
14	3	16	.625	(15.9)	.937	(23.8)	1 7/16 -18	1.760	(44.7)	1.375	(34.9)	.147	(3.7)	.937	(23.8)
15	1,2	20	.875	(22.2)	1.250	(31.8)	1 3/4 -18	2.010	(51.1)	1.562	(39.7)	.147	(3.7)	1.250	(31.8)
16	3	20	.875	(22.2)	1.250	(31.8)	1 3/4 -18	2.010	(51.1)	1.562	(39.7)	.147	(3.7)	1.250	(31.8)
17	1, 2	24	1.000	(25.4)	1.375	(34.9)	2 -18	2.260	(57.4)	1.750	(44.5)	.173	(4.4)	1.375	(34.9)
18	3	24	1.000	(25.4)	1.375	(34.9)	2 -18	2.260	(57.4)	1.750	(44.5)	.173	(4.4)	1.375	(34.9)
19	1,2	28	1.250	(31.8)	1.625	(41.3)	2 1/4 -16	2.510	(63.8)	1.938	(49.2)	.173	(4.4)	1.625	(41.3)
20	3	28	1.250	(31.8)	1.625	(41.3)	2 1/4 -16	2.510	(63.8)	1.938	(49.2)	.173	(4.4)	1.625	(41.3)
21	1, 2	32	1.437	(36.5)	1.875	(47.6)	2 1/2 -16	2.781	(70.6)	2.188	(55.6)	.173	(4.4)	1.875	(47.6)
22	3	32	1.437	(36.5)	1.875	(47.6)	2 1/2 -16	2.781	(70.6)	2.188	(55.6)	.173	(4.4)	1.875	(47.6)
23	1,2	40	1.875	(47.6)	2.375	(60.3)	3 -16	3.281	(83.3)	2.625	(66.7)	.173	(4.4)	2.375	(60.3)
24	3	40	1.875	(47.6)	2.375	(60.3)	3 -16	3.281	(83.3)	2.625	(66.7)	.173	(4.4)	2.375	(60.3)

TABLE III (Continued)

Dash No.	Style	F Max		G Max		H Max		J Max		K Max		Length Max	
01	1, 2	---	---	---	---	.760	(19.3)	.843	(21.4)	.630	(16.0)	.971	(24.7)
02	3	---	---	---	---	.760	(19.3)	.843	(21.4)	.630	(16.0)	1.820	(46.2)
03	1,2	.780	(19.8)	.957	(24.3)	.760	(19.3)	.906	(23.0)	.755	(19.2)	.971	(24.7)
04	3	.780	(19.8)	.957	(24.3)	.760	(19.3)	.906	(23.0)	.755	(19.2)	1.820	(46.2)
05	1, 2	.780	(19.8)	1.145	(29.1)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	.971	(24.7)
06	3	.780	(19.8)	1.145	(29.1)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	1.820	(46.2)
07	1,2	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	.971	(24.7)
08	3	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	1.820	(46.2)
09	1, 2	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	.971	(24.7)
10	3	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	1.820	(46.2)
11	1,2	.811	(20.6)	1.551	(39.4)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	1.031	(26.2)
12	3	.811	(20.6)	1.551	(39.4)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	1.820	(46.2)
13	1, 2	.905	(23.0)	1.770	(45.0)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	1.031	(26.2)
14	3	.905	(23.0)	1.770	(45.0)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	1.820	(46.2)
15	1,2	1.092	(27.7)	2.113	(53.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	1.031	(26.2)
16	3	1.092	(27.7)	2.113	(53.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	1.820	(46.2)
17	1, 2	1.124	(28.5)	2.363	(60.0)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.095	(27.8)
18	3	1.124	(28.5)	2.363	(60.0)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.820	(46.2)
19	1,2	1.399	(35.5)	2.770	(70.4)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.095	(27.8)
20	3	1.399	(35.5)	2.770	(70.4)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.820	(46.2)
21	1, 2	1.399	(35.5)	3.020	(76.7)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.095	(27.8)
22	3	1.399	(35.5)	3.020	(76.7)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.940	(49.3)
23	1,2	---	---	---	---	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.220	(31.0)
24	3	---	---	---	---	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	2.060	(52.3)

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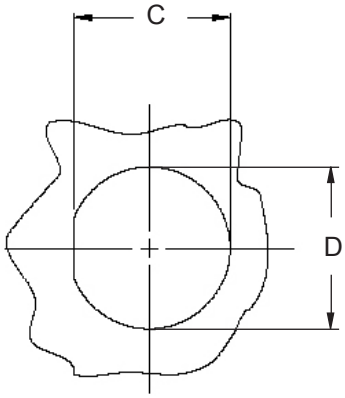
630-007
EMI/RFI Environmental Bulkhead Feed-Through
with Strain Relief
Front and Rear Jam Nut Mount - Straight

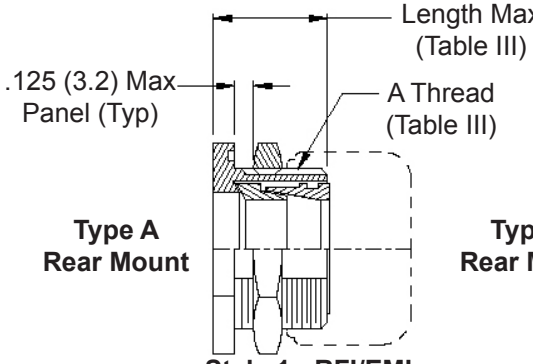
630 A 007 NF 16 3 A

- 630 — Product Series
- A — Fitting Type: A = Rear Mount, B = Front Mount
- 007 — Basic Part No.
- NF — Finish (Table II)
- 16 — Cable Entry (Table III)
- 3 — Fitting Style: 1 = RFI/EMI Only, 2 = Environmental Only, 3 = RFI/EMI Environmental, 4 = Non-RFI/EMI Non-Environmental
- A — Strain Relief Style (H, A, M, D)

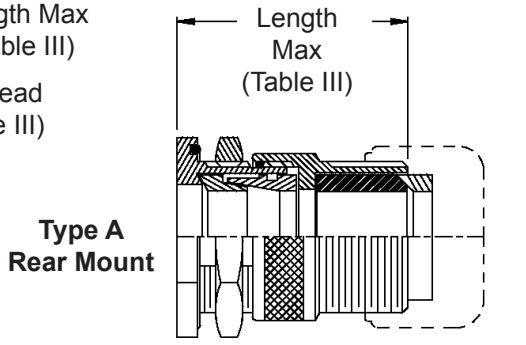
Single Overall EMI/RFI Shield Termination

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

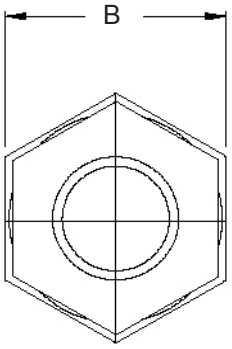


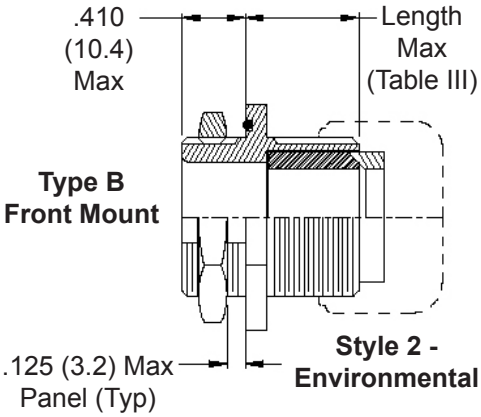


Style 1 - RFI/EMI

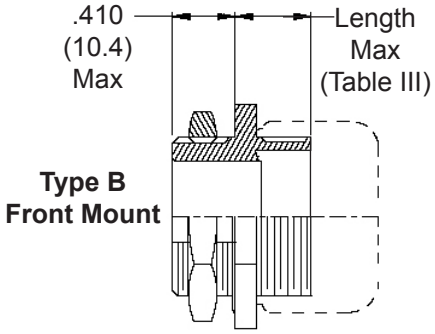


Style 3 - RFI/EMI Environmental



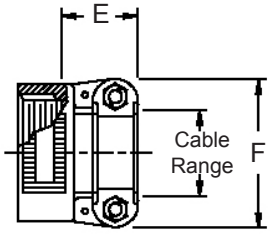


Style 2 - Environmental

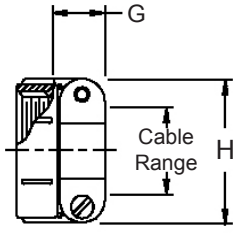


Style 4 - Non-RFI/EMI Non-Environmental

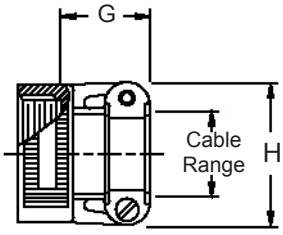
STYLE H
Heavy Duty



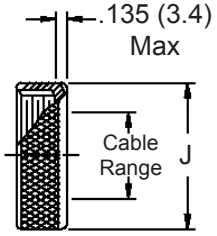
STYLE A
Medium Duty



STYLE M
Medium Duty



STYLE D
Medium Duty



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630-007
EMI/RFI Environmental Bulkhead Feed-Through
with Strain Relief
Front and Rear Jam Nut Mount - Straight

See inside back cover fold-out or page 14 for Table II.

TABLE III: CABLE ENTRY

Dash No.	Style	Clamp Size	Cable Range Min		Cable Range Max		A Thread Unified	B Dim		C Flat ± .010	C Flat (± .3)	D Dia ± .010	D Dia (± .3)
01	1, 2, 4	03*	.157	(4.0)	.250	(6.4)	1/2 -28	.688	(17.5)	.479	(12.2)	.515	(13.1)
02	3	03*	.157	(4.0)	.250	(6.4)	1/2 -28	.688	(17.5)	.479	(12.2)	.515	(13.1)
03	1,2, 4	04*	.187	(4.7)	.312	(7.9)	5/8 -24	.813	(20.7)	.595	(15.1)	.640	(16.3)
04	3	04*	.187	(4.7)	.312	(7.9)	5/8 -24	.813	(20.7)	.595	(15.1)	.640	(16.3)
05	1, 2, 4	06*	.281	(7.1)	.437	(11.1)	3/4 -20	.938	(23.8)	.720	(18.3)	.765	(19.4)
06	3	06*	.281	(7.1)	.437	(11.1)	3/4 -20	.938	(23.8)	.720	(18.3)	.765	(19.4)
07	1,2, 4	08	.344	(8.7)	.562	(14.3)	7/8 -20	1.063	(27.0)	.845	(21.5)	.890	(22.6)
08	3	08	.344	(8.7)	.562	(14.3)	7/8 -20	1.063	(27.0)	.845	(21.5)	.890	(22.6)
09	1, 2, 4	10	.375	(9.5)	.625	(15.9)	1 -20	1.250	(31.8)	.970	(24.6)	1.015	(25.8)
10	3	10	.375	(9.5)	.625	(15.9)	1 -20	1.250	(31.8)	.970	(24.6)	1.015	(25.8)
11	1,2, 4	12	.438	(11.1)	.750	(19.1)	1 3/16 -18	1.375	(34.9)	1.158	(29.4)	1.202	(30.5)
12	3	12	.438	(11.1)	.750	(19.1)	1 3/16 -18	1.375	(34.9)	1.158	(29.4)	1.202	(30.5)
13	1, 2, 4	16	.625	(15.9)	.937	(23.8)	1 7/16 -18	1.625	(41.3)	1.408	(35.8)	1.452	(36.9)
14	3	16	.625	(15.9)	.937	(23.8)	1 7/16 -18	1.625	(41.3)	1.408	(35.8)	1.452	(36.9)
15	1,2, 4	20	.875	(22.2)	1.250	(31.8)	1 3/4 -18	2.000	(50.8)	1.720	(43.7)	1.765	(44.8)
16	3	20	.875	(22.2)	1.250	(31.8)	1 3/4 -18	2.000	(50.8)	1.720	(43.7)	1.765	(44.8)
17	1, 2, 4	24	1.000	(25.4)	1.375	(34.9)	2 -18	2.188	(55.6)	1.970	(50.0)	2.015	(51.2)
18	3	24	1.000	(25.4)	1.375	(34.9)	2 -18	2.188	(55.6)	1.970	(50.0)	2.015	(51.2)
19	1,2, 4	28	1.250	(31.8)	1.625	(41.3)	2 1/4 -16	2.438	(61.9)	2.220	(56.4)	2.265	(57.5)
20	3	28	1.250	(31.8)	1.625	(41.3)	2 1/4 -16	2.438	(61.9)	2.220	(56.4)	2.265	(57.5)
21	1, 2, 4	32*	1.437	(36.5)	1.875	(47.6)	2 1/2 -16	2.813	(71.5)	2.470	(62.7)	2.515	(63.9)
22	3	32*	1.437	(36.5)	1.875	(47.6)	2 1/2 -16	2.813	(71.5)	2.470	(62.7)	2.515	(63.9)
23	1,2, 4	40*	1.875	(47.6)	2.375	(60.3)	3 -16	3.375	(85.7)	2.970	(75.4)	3.015	(76.6)
24	3	40*	1.875	(47.6)	2.375	(60.3)	3 -16	3.375	(85.7)	2.970	(75.4)	3.015	(76.6)

* Not Available in Style M Clamp

TABLE III (Continued)

Dash No.	Style	E Max		F Max		G Max		H Max		J Max		Length Max	
01	1, 2, 4	---	---	---	---	.760	(19.3)	.843	(21.4)	.630	(16.0)	1.281	(32.5)
02	3	---	---	---	---	.760	(19.3)	.843	(21.4)	.630	(16.0)	1.969	(50.0)
03	1,2, 4	.780	(19.8)	.957	(24.3)	.760	(19.3)	.906	(23.0)	.755	(19.2)	1.281	(32.5)
04	3	.780	(19.8)	.957	(24.3)	.760	(19.3)	.906	(23.0)	.755	(19.2)	1.969	(50.0)
05	1, 2, 4	.780	(19.8)	1.145	(29.1)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	1.281	(32.5)
06	3	.780	(19.8)	1.145	(29.1)	.760	(19.3)	1.093	(27.8)	.942	(23.9)	1.969	(50.0)
07	1, 2, 4	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	1.281	(32.5)
08	3	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)	1.969	(50.0)
09	1, 2, 4	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	1.281	(32.5)
10	3	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)	1.969	(50.0)
11	1, 2, 4	.811	(20.6)	1.551	(39.4)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	1.344	(34.1)
12	3	.811	(20.6)	1.551	(39.4)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)	1.969	(50.0)
13	1, 2, 4	.905	(23.0)	1.770	(45.0)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	1.344	(34.1)
14	3	.905	(23.0)	1.770	(45.0)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)	1.969	(50.0)
15	1, 2, 4	1.092	(27.7)	2.113	(53.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	1.344	(34.1)
16	3	1.092	(27.7)	2.113	(53.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)	2.062	(52.4)
17	1, 2, 4	1.124	(28.5)	2.363	(60.0)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	1.406	(35.7)
18	3	1.124	(28.5)	2.363	(60.0)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)	2.062	(52.4)
19	1, 2, 4	1.399	(35.5)	2.770	(70.4)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	1.406	(35.7)
20	3	1.399	(35.5)	2.770	(70.4)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)	2.062	(52.4)
21	1, 2, 4	1.399	(35.5)	3.020	(76.7)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	1.406	(35.7)
22	3	1.399	(35.5)	3.020	(76.7)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)	2.375	(60.3)
23	1, 2, 4	---	---	---	---	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	1.531	(38.9)
24	3	---	---	---	---	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)	2.375	(60.3)

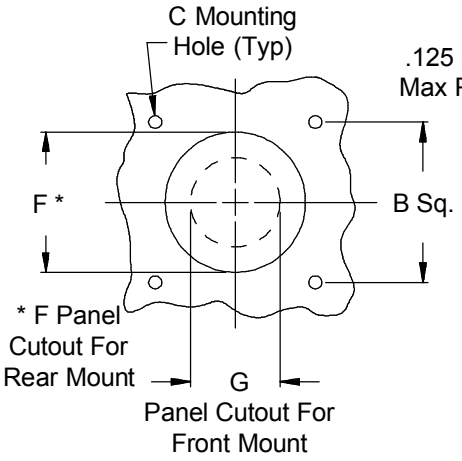
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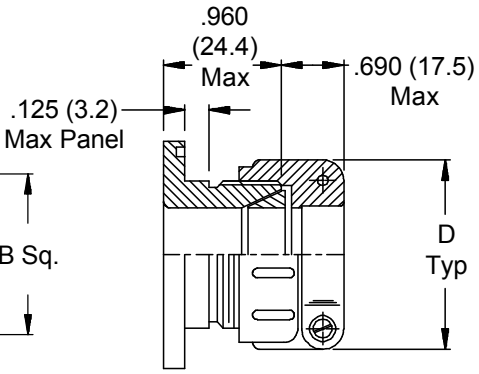
630-008
EMI/RFI Environmental Bulkhead Feed-Through
with Strain Relief
Front and Rear Panel Mount - Straight

Single Overall EMI/RFI Shield Termination

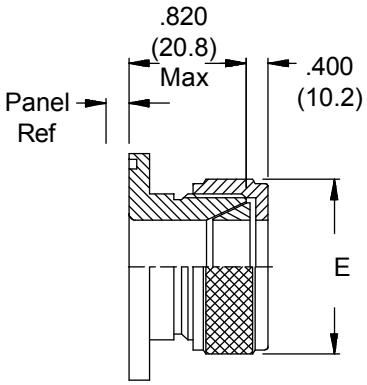
630 A 008 NF 06 2 F

- 630 — Product Series
- A — Fitting Type: A = Rear Mount, B = Front Mount
- 008 — Basic Part No.
- NF — Finish (Table II)
- 06 — Cable Entry (Table III)
- 2 — Fitting Style: 1 = RFI/EMI Only, 2 = RFI/EMI Environmental
- F — Strain Relief Style (G, F)

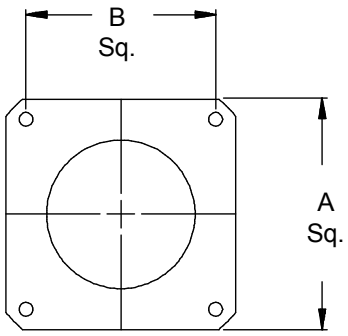


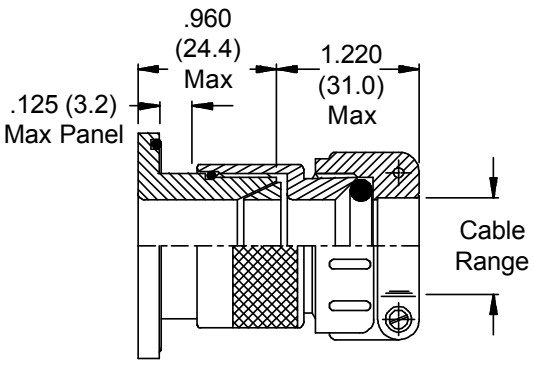


Style 1
RFI/EMI
Rear Mount Type A
(Shown With Style F Strain Relief)

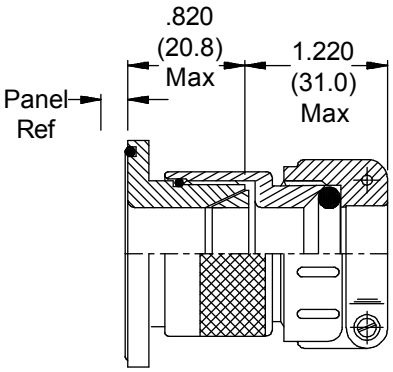


Style 1
RFI/EMI
Front Mount Type B
(Shown With Style G Gland Nut)





Style 2
RFI/EMI Environmental
Rear Mount Type A
(Shown With Style F Strain Relief)



Style 2
RFI/EMI Environmental
Front Mount Type A
(Shown With Style F Strain Relief)

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See inside back cover fold-out or page 14 for Table II.

TABLE III: CABLE ENTRY

Dash No.	Cable Range Min		Cable Range Max		A Max		B Dim		C +.015 (+0.4) - 0 (-0.0)	
01	.125	(3.2)	.250	(6.4)	.885	(22.5)	.593	(15.1)	.120	(3.0)
02	.156	(4.0)	.375	(9.5)	1.104	(28.0)	.812	(20.6)	.120	(3.0)
03	.250	(6.4)	.438	(11.1)	1.197	(30.4)	.906	(23.0)	.120	(3.0)
04	.280	(7.1)	.500	(12.7)	1.291	(32.8)	.968	(24.6)	.120	(3.0)
05	.375	(9.5)	.625	(15.9)	1.385	(35.2)	1.062	(27.0)	.120	(3.0)
06	.500	(12.7)	.750	(19.1)	1.635	(41.5)	1.250	(31.8)	.120	(3.0)
07	.625	(15.9)	.875	(22.2)	1.760	(44.7)	1.375	(34.9)	.147	(3.7)
08	.750	(19.1)	1.000	(25.4)	2.010	(51.1)	1.562	(39.7)	.147	(3.7)
09	.875	(22.2)	1.125	(28.6)	2.260	(57.4)	1.750	(44.5)	.173	(4.4)
10	1.000	(25.4)	1.250	(31.8)	2.510	(63.8)	1.938	(49.2)	.173	(4.4)

TABLE III (Continued)

Dash No.	D Max		E Max		F +.015 (+0.4) - 0 (-0.0)		G +.031 (+0.8) - 0 (-0.0)	
01	.843	(21.4)	.625	(15.9)	.515	(13.1)	.250	(6.4)
02	.968	(24.6)	.750	(19.1)	.640	(16.3)	.375	(9.5)
03	1.046	(26.6)	.875	(22.2)	.765	(19.4)	.438	(11.1)
04	1.156	(29.4)	1.000	(25.4)	.890	(22.6)	.500	(12.7)
05	1.218	(30.9)	1.125	(28.6)	1.015	(25.8)	.625	(15.9)
06	1.343	(34.1)	1.250	(31.8)	1.140	(29.0)	.750	(19.1)
07	1.468	(37.3)	1.375	(34.9)	1.265	(32.1)	.875	(22.2)
08	1.593	(40.5)	1.500	(38.1)	1.390	(35.3)	1.000	(25.4)
09	1.718	(43.6)	1.625	(41.3)	1.515	(38.5)	1.125	(28.6)
10	1.843	(46.8)	1.750	(44.5)	1.640	(41.7)	1.250	(31.8)

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

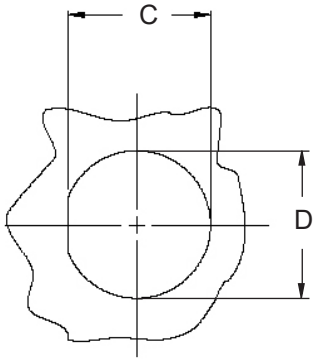
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630-022
EMI/RFI Environmental Bulkhead Banding Adapter
with Optional Shrink Boot
Jam Nut and Panel Mount - Straight

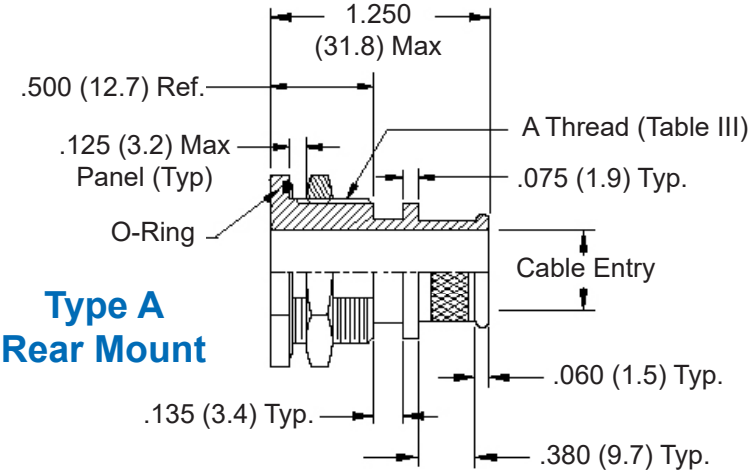
Banding Porch Shield Termination

630 A 022 M 16 B P T

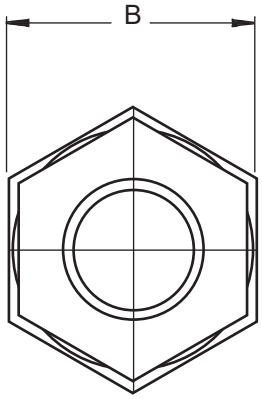
- Product Series
- Fitting Type
  - A = Rear Mount
  - B = Front Mount
  - C = Flange Mount
- Basic Part No.
- Finish (Table II - See inside back cover fold-out or page 14)
- Cable Entry (Table III)
- B = Band
  K = Precoiled Band
  (Omit for none)
- Polysulfide (Omit for none)
- Shrink Boot (Table V - Omit for none)

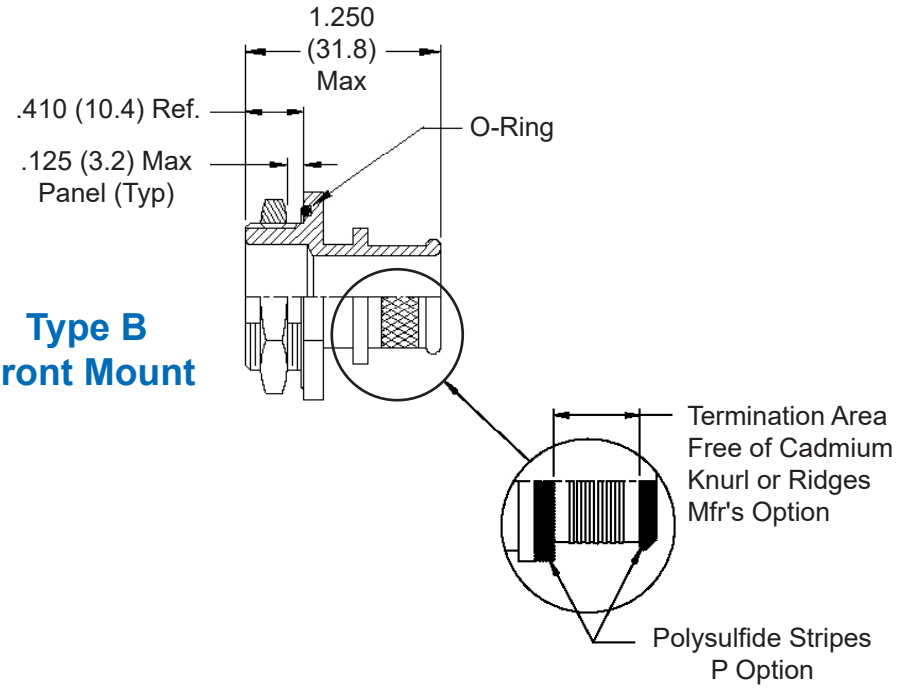


Panel Cut-Out for Type A and B



Type A Rear Mount

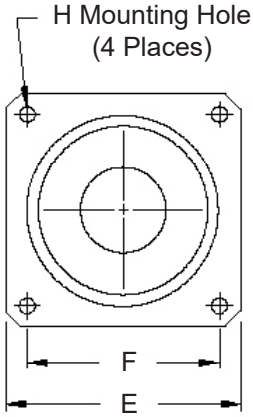


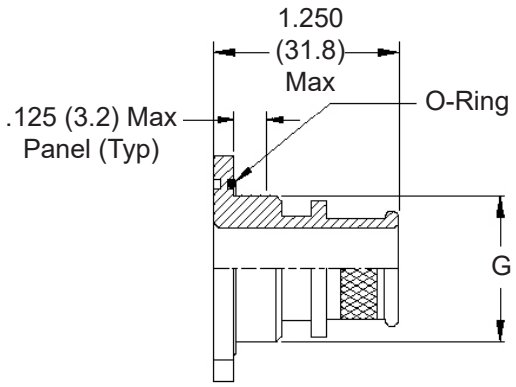


Type B Front Mount

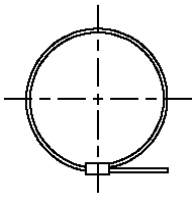
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630-022
EMI/RFI Environmental Bulkhead Banding Adapter
with Optional Shrink Boot
Jam Nut and Panel Mount - Straight





Type C
Flange Mount



Band Option
(K Option
Shown)

TABLE III: CABLE ENTRY

Dash No.	Cable Entry Dia	A Thread Unified	B Dim	C Flat ± .010 (± .3)	D Dia ± .010 (± .3)	E Sq ± .031 (± .8)	F Dim.	G Dia + .005 (+ .1) - .015 (- .4)
02	.125 (3.2)	7/16 -28	.625 (15.9)	.418 (10.6)	.453 (11.5)	.812 (20.6)	.531 (13.5)	.438 (11.2)
03	.188 (4.8)	1/2 -28	.688 (17.5)	.480 (12.2)	.515 (13.1)	.875 (22.2)	.594 (15.1)	.500 (12.7)
04	.250 (6.4)	1/2 -28	.688 (17.5)	.480 (12.2)	.515 (13.1)	.875 (22.2)	.594 (15.1)	.500 (12.7)
05	.313 (8.0)	5/8 -24	.813 (20.7)	.605 (15.4)	.640 (16.3)	1.000 (25.4)	.719 (18.3)	.625 (15.9)
06	.375 (9.5)	5/8 -24	.813 (20.7)	.605 (15.4)	.640 (16.3)	1.000 (25.4)	.719 (18.3)	.625 (15.9)
07	.438 (11.1)	3/4 -20	.938 (23.8)	.730 (18.5)	.765 (19.4)	1.094 (27.8)	.812 (20.6)	.750 (19.1)
08	.500 (12.7)	3/4 -20	.938 (23.8)	.730 (18.5)	.765 (19.4)	1.094 (27.8)	.812 (20.6)	.750 (19.1)
09	.563 (14.3)	7/8 -20	1.063 (27.0)	.855 (21.7)	.890 (22.6)	1.188 (30.2)	.906 (23.0)	.875 (22.2)
10	.625 (15.9)	7/8 -20	1.063 (27.0)	.855 (21.7)	.890 (22.6)	1.188 (30.2)	.906 (23.0)	.875 (22.2)
11	.688 (17.5)	1 -20	1.188 (30.2)	.980 (24.9)	1.015 (25.8)	1.281 (32.5)	.969 (24.6)	1.000 (25.4)
12	.750 (19.1)	1 -20	1.188 (30.2)	.980 (24.9)	1.015 (25.8)	1.281 (32.5)	.969 (24.6)	1.000 (25.4)
13	.813 (20.7)	1 1/8 -18	1.313 (33.4)	1.105 (28.1)	1.140 (29.0)	1.375 (34.9)	1.062 (27.0)	1.125 (28.6)
14	.875 (22.2)	1 1/4 -18	1.438 (36.5)	1.230 (31.2)	1.265 (32.1)	1.500 (38.1)	1.156 (29.4)	1.250 (31.8)
15	.938 (23.8)	1 1/4 -18	1.438 (36.5)	1.230 (31.2)	1.265 (32.1)	1.500 (38.1)	1.156 (29.4)	1.250 (31.8)
16	1.000 (25.4)	1 3/8 -18	1.563 (39.7)	1.355 (34.4)	1.390 (35.3)	1.625 (41.3)	1.250 (31.8)	1.375 (34.9)
17	1.063 (27.0)	1 3/8 -18	1.563 (39.7)	1.355 (34.4)	1.390 (35.3)	1.625 (41.3)	1.250 (31.8)	1.375 (34.9)
18	1.125 (28.6)	1 1/2 -18	1.688 (42.9)	1.480 (37.6)	1.515 (38.5)	1.750 (44.5)	1.375 (34.9)	1.500 (38.1)
19	1.188 (30.2)	1 1/2 -18	1.688 (42.9)	1.480 (37.6)	1.515 (38.5)	1.750 (44.5)	1.375 (34.9)	1.500 (38.1)
20	1.250 (31.8)	1 5/8 -18	1.813 (46.1)	1.605 (40.8)	1.640 (41.7)	1.875 (47.6)	1.500 (38.1)	1.625 (41.3)
22	1.375 (34.9)	1 3/4 -18	1.938 (49.2)	1.730 (43.9)	1.765 (44.8)	2.000 (50.8)	1.562 (39.7)	1.750 (44.5)
24	1.500 (38.1)	2 -18	2.188 (55.6)	1.980 (50.3)	2.015 (51.2)	2.250 (57.2)	1.750 (44.5)	2.000 (50.8)
26	1.625 (41.3)	2 -18	2.188 (55.6)	1.980 (50.3)	2.015 (51.2)	2.250 (57.2)	1.750 (44.5)	2.000 (50.8)
28	1.750 (44.5)	2 1/4 -16	2.438 (61.9)	2.230 (56.6)	2.265 (57.5)	2.500 (63.5)	1.938 (49.2)	2.250 (57.2)

TABLE IV

Dash Nos.	H Dia + .015 - .000 (+ .4 - .0)
03-17	.125 (3.2)
18-20	.156 (4.0)
22-28	.188 (4.8)

TABLE V: SHRINK BOOT

Dash Nos.	Shrink Boot (Note 2)
03-06	202K121-25-0
07-10	202K132-25-0
11-12	202K142-25-0
13-16	202K153-25-0
17-20	202K163-25-0
22-26	202K174-25-0
28	202K185-25-0

1. Metric dimensions (mm) are indicated in parentheses.
2. Raychem shrink boot (page 41) supplied with "T" option (see part number development). See pages 40 and 41 for shrink boot reference information.

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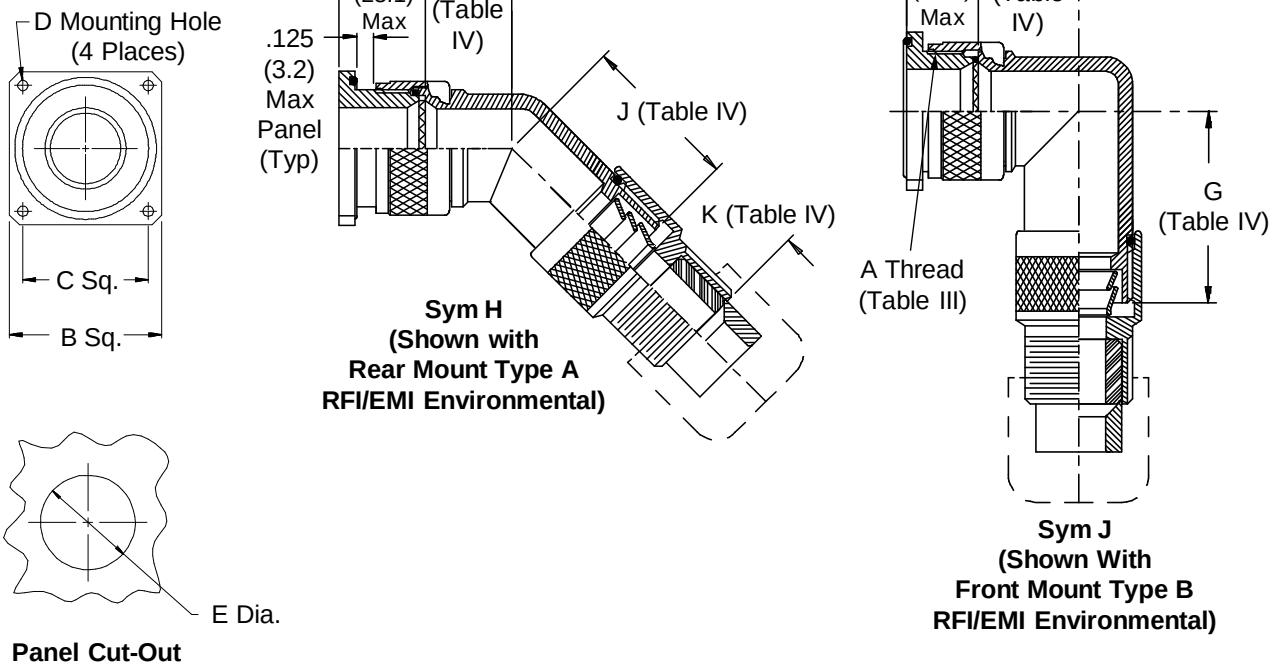
630-023
EMI/RFI Environmental Bulkhead Feed-Through
with Strain Relief
Front and Rear Panel Mount - 45° and 90°

Individual, Single and/or Dual Shield Termination

1. Metric dimensions (mm) are indicated in parentheses.
2. Cable range is defined as the accommodations range for the wire bundle or cable. Dimensions shown are not intended for inspection criteria.

630 A H 023 NF 16 2 H D

- Product Series: 630
- Fitting Type: A = Rear Mount, B = Front Mount
- Angle and Profile: H = 45°, J = 90°
- Basic Part No.: 023
- Finish (Table II - See inside back cover fold-out or page 14): NF
- Cable Entry (Tables III, IV, V): 16
- Fitting Style: 1 = RFI/EMI Only, 2 = RFI/EMI Environmental
- Strain Relief Style (H, A, M, D): 2
- Termination Style: D = 2 Rings, T = 3 Rings: H
- D

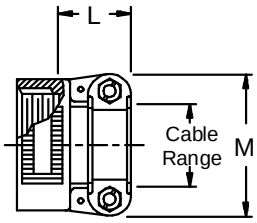


Sym H (Shown with Rear Mount Type A RFI/EMI Environmental)

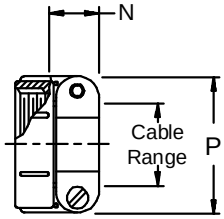
Sym J (Shown With Front Mount Type B RFI/EMI Environmental)

Panel Cut-Out

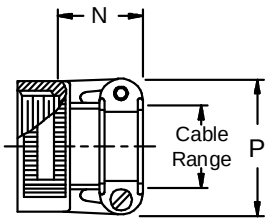
STYLE H
Heavy Duty
(Table V)



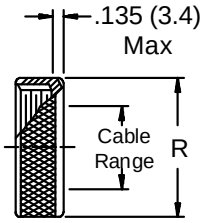
STYLE A
Medium Duty
(Table V)



STYLE M
Medium Duty
(Table V)



STYLE D
Medium Duty
(Table V)



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630-023
EMI/RFI Environmental Bulkhead Feed-Through
with Strain Relief
Front and Rear Panel Mount - 45° and 90°

TABLE III: CABLE ENTRY

Dash No.	Clamp Style	Clamp Size	Cable Range Min		Cable Range Max		A Thread Class A	B Max		C Dim.		D Dia +.015 (+.4) -.000 (-.0)		E Dia +.030 -.000 (+.8) (-.0)	
01	1	03	.157	(4.0)	.250	(6.4)	1/2 -28	.885	(22.5)	.593	(15.1)	.120	(3.0)	.250	(6.4)
02	2	03	.157	(4.0)	.250	(6.4)	1/2 -28	.885	(22.5)	.593	(15.1)	.120	(3.0)	.250	(6.4)
03	1	04	.187	(4.7)	.312	(7.9)	5/8 -24	1.104	(28.0)	.812	(20.6)	.120	(3.0)	.312	(7.9)
04	2	04	.187	(4.7)	.312	(7.9)	5/8 -24	1.104	(28.0)	.812	(20.6)	.120	(3.0)	.312	(7.9)
05	1	06	.281	(7.1)	.437	(11.1)	3/4 -20	1.197	(30.4)	.906	(23.0)	.120	(3.0)	.437	(11.1)
06	2	06	.281	(7.1)	.437	(11.1)	3/4 -20	1.197	(30.4)	.906	(23.0)	.120	(3.0)	.437	(11.1)
07	1	08	.344	(8.7)	.562	(14.3)	7/8 -20	1.291	(32.8)	.968	(24.6)	.120	(3.0)	.562	(14.3)
08	2	08	.387	(9.8)	.562	(14.3)	7/8 -20	1.291	(32.8)	.968	(24.6)	.120	(3.0)	.562	(14.3)
09	1	10	.375	(9.5)	.625	(15.9)	1 -20	1.385	(35.2)	1.062	(27.0)	.120	(3.0)	.625	(15.9)
10	2	10	.512	(13.0)	.625	(15.9)	1 -20	1.385	(35.2)	1.062	(27.0)	.120	(3.0)	.625	(15.9)
11	1	12	.438	(11.1)	.750	(19.1)	1 3/16 -18	1.635	(41.5)	1.250	(31.8)	.120	(3.0)	.750	(19.1)
12	2	12	.575	(14.6)	.750	(19.1)	1 3/16 -18	1.635	(41.5)	1.250	(31.8)	.120	(3.0)	.750	(19.1)
13	1	16	.625	(15.9)	.937	(23.8)	1 7/16 -18	1.760	(44.7)	1.375	(34.9)	.147	(3.7)	.937	(23.8)
14	2	16	.625	(15.9)	.937	(23.8)	1 7/16 -18	1.760	(44.7)	1.375	(34.9)	.147	(3.7)	.937	(23.8)
15	1	20	.875	(22.2)	1.250	(31.8)	1 3/4 -18	2.010	(51.1)	1.562	(39.7)	.147	(3.7)	1.250	(31.8)
16	2	20	.875	(22.2)	1.250	(31.8)	1 3/4 -18	2.010	(51.1)	1.562	(39.7)	.147	(3.7)	1.250	(31.8)
17	1	24	1.000	(25.4)	1.375	(34.9)	2 -18	2.260	(57.4)	1.750	(44.5)	.173	(4.4)	1.375	(34.9)
18	2	24	1.000	(25.4)	1.375	(34.9)	2 -18	2.260	(57.4)	1.750	(44.5)	.173	(4.4)	1.375	(34.9)
19	1	28	1.250	(31.8)	1.625	(41.3)	2 1/4 -16	2.510	(63.8)	1.938	(49.2)	.173	(4.4)	1.625	(41.3)
20	2	28	1.250	(31.8)	1.625	(41.3)	2 1/4 -16	2.510	(63.8)	1.938	(49.2)	.173	(4.4)	1.625	(41.3)
21	1	32	1.437	(36.5)	1.875	(47.6)	2 1/2 -16	2.781	(70.6)	2.188	(55.6)	.173	(4.4)	1.875	(47.6)
22	2	32	1.437	(36.5)	1.875	(47.6)	2 1/2 -16	2.781	(70.6)	2.188	(55.6)	.173	(4.4)	1.875	(47.6)
23	1	40	1.875	(47.6)	2.375	(60.3)	3 -16	3.281	(83.3)	2.625	(66.7)	.173	(4.4)	2.375	(60.3)
24	2	40	1.875	(47.6)	2.375	(60.3)	3 -16	3.281	(83.3)	2.625	(66.7)	.173	(4.4)	2.375	(60.3)

TABLE IV: CABLE ENTRY

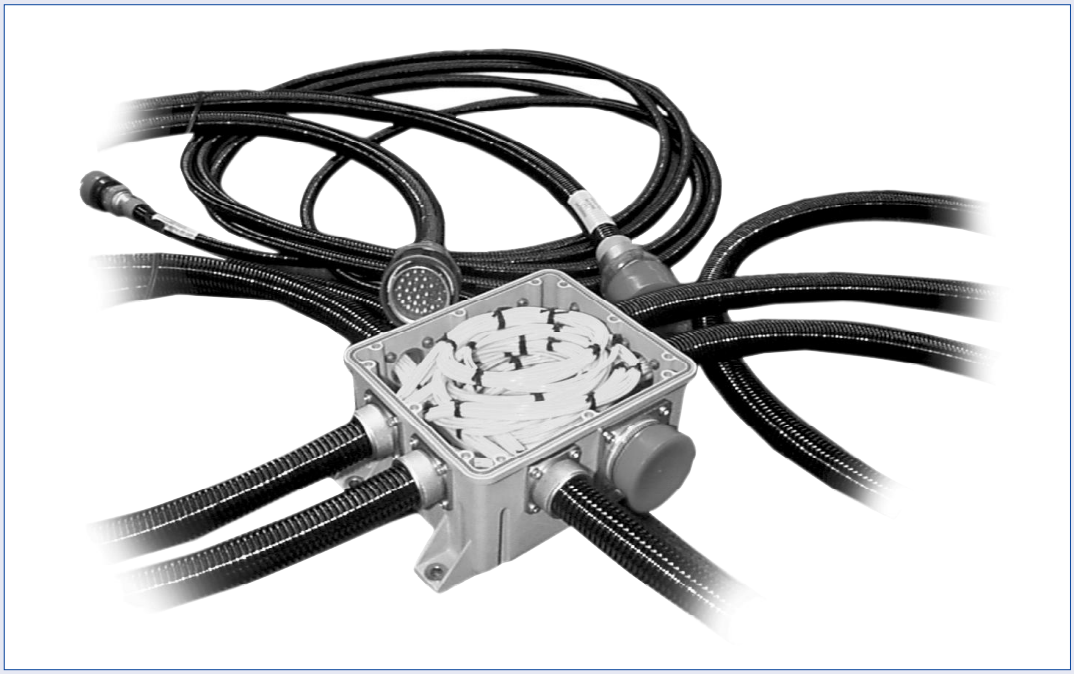
Dash No.	Clamp Size	F Max		G Max		H Max		J Max		K Max	
01/02	03	.750	(19.1)	1.000	(25.4)	.639	(16.2)	.890	(22.6)	.670	(17.0)
03/04	04	.810	(20.6)	1.060	(26.9)	.664	(16.9)	.920	(23.4)	.670	(17.0)
05/06	06	.870	(22.1)	1.125	(28.6)	.688	(17.5)	.940	(23.9)	.670	(17.0)
07/08	08	.920	(23.4)	1.190	(30.2)	.705	(17.9)	.970	(24.6)	.670	(17.0)
09/10	10	.980	(24.9)	1.250	(31.8)	.732	(18.6)	.990	(25.1)	.670	(17.0)
11/12	12	1.080	(27.4)	1.330	(33.8)	.773	(19.6)	1.020	(25.9)	.670	(17.0)
13/14	16	1.200	(30.5)	1.480	(37.6)	.823	(20.9)	1.090	(27.7)	.670	(17.0)
15/16	20	1.480	(37.6)	1.781	(45.2)	1.041	(26.4)	1.322	(33.6)	.700	(17.8)
17/18	24	1.610	(40.9)	1.938	(49.2)	1.092	(27.7)	1.425	(36.2)	.700	(17.8)
19/20	28	1.720	(43.7)	2.045	(51.9)	1.138	(28.9)	1.475	(37.5)	.700	(17.8)
21/22	32	1.830	(46.5)	2.218	(56.3)	1.184	(30.1)	1.578	(40.1)	.820	(20.8)
23/24	40	2.080	(52.8)	2.594	(65.9)	1.287	(32.7)	1.802	(45.8)	.820	(20.8)

TABLE V: CABLE ENTRY

Dash No.	Clamp Size	L Max		M Max		N Max		P Max		R Max	
01/02	03	---	---	---	---	.760	(19.3)	.843	(21.4)	.630	(16.0)
03/04	04	.780	(19.8)	.957	(24.3)	.760	(19.3)	.906	(23.0)	.755	(19.2)
05/06	06	.780	(19.8)	1.145	(29.1)	.760	(19.3)	1.093	(27.8)	.942	(23.9)
07/08	08	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.187	(30.1)	1.067	(27.1)
09/10	10	.780	(19.8)	1.332	(33.8)	.760	(19.3)	1.281	(32.5)	1.192	(30.3)
11/12	12	.811	(20.6)	1.551	(39.4)	.760	(19.3)	1.500	(38.1)	1.380	(35.1)
13/14	16	.905	(23.0)	1.770	(45.0)	1.073	(27.3)	1.719	(43.7)	1.535	(39.0)
15/16	20	1.092	(27.7)	2.113	(53.7)	1.323	(33.6)	2.062	(52.4)	1.848	(46.9)
17/18	24	1.124	(28.5)	2.363	(60.0)	1.323	(33.6)	2.312	(58.7)	2.255	(57.3)
19/20	28	1.399	(35.5)	2.770	(70.4)	1.572	(39.9)	2.719	(69.1)	2.505	(63.6)
21/22	32	1.399	(35.5)	3.020	(76.7)	1.572	(39.9)	2.969	(75.4)	2.755	(70.0)
23/24	40	---	---	---	---	1.572	(39.9)	3.531	(89.7)	3.255	(82.7)

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Every Picture Tells a Story



This One Speaks Volumes

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We know that your problem isn't solved when the connector and wire are selected. The real work starts with the packaging of the key components for actual use. Glenair is ready with wire protection solutions that include plastic convoluted tubing, metal-core conduit, jacketing and metal or fabric overbraiding. We also produce a line of robust composite junction boxes, which add new design options to traditional conduit wire protection assemblies.

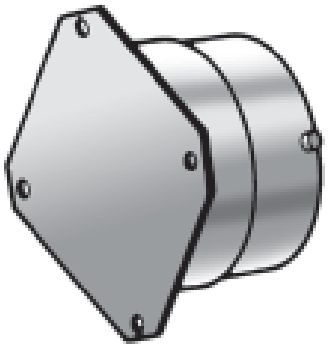
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Reliable electrical and mechanical protection for de-coupled connectors and cable assemblies

Threaded, bayonet and breach-lock receptacles for all popular military standard type connectors

A choice of dummy stowage receptacles is offered for most circular bayonet coupled and thread coupled connectors. These products provide reliable protection for all types of de-coupled connectors, from threaded MIL-C-28840 versions to bayonet coupled MIL-DTL-38999 Series II.

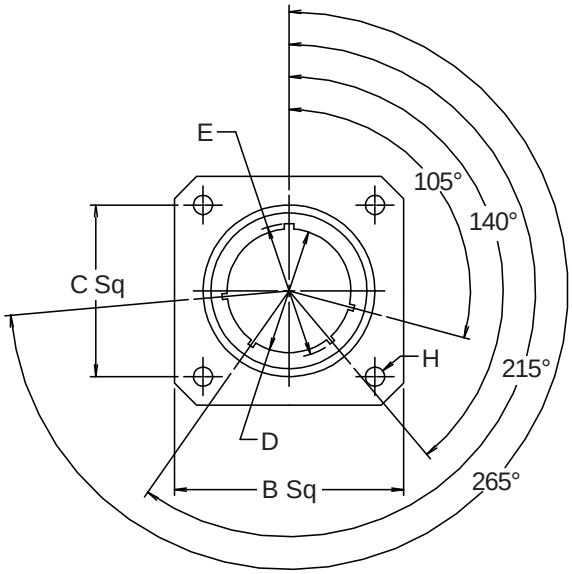
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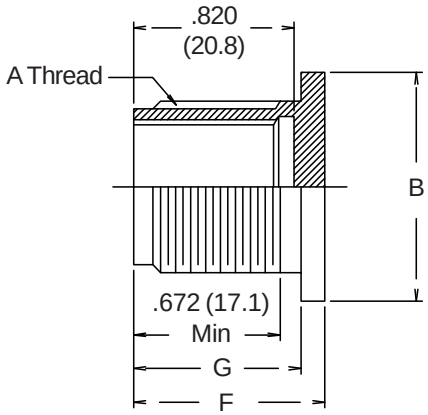
650CS002
Dummy Stowage Receptacle
MIL-C-22992

MIL-C-22992

650 C S 002 M 24

- Product Series
- Connector Designator
- Angle and Profile
- Basic Number
- Finish (Table II)
- Cable Entry (Table III)





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TABLE III: DIMENSIONS

Shell Size	J Thread Class 2A	B ± .020 (0.5)	C SQ	D + .005 (0.1) -.010 (0.3)	E + .010 (0.3) -.006 (0.2)	F + .021 (0.5) -.010 (0.3)	G + .010 (0.3) -.000 (0)	H ± .005 (0.1)
12	.8750 -0.1P-0.2L-DS	1.188 (30.2)	.906 (23.0)	.567 (14.4)	.647 (16.4)	.938 (23.8)	.797 (20.2)	.150 (3.8)
14	1.0000-0.1P-0.2L-DS	1.281 (32.3)	.969 (24.6)	.692 (17.6)	.772 (19.6)	.938 (23.8)	.797 (20.2)	.150 (3.8)
16	1.1250-0.1P-0.2L-DS	1.375 (34.9)	1.062 (27.0)	.817 (20.8)	.897 (22.8)	..938 (23.8)	.797 (20.2)	.150 (3.8)
18	1.2500-0.1P-0.2L-DS	1.500 (38.1)	1.156 (29.4)	.942 (23.9)	1.022 (26.0)	.953 (24.2)	.797 (20.2)	.177 (4.5)
20	1.3750-0.1P-0.2L-DS	1.625 (41.3)	1.250 (31.8)	1.068 (27.1)	1.148 (29.2)	.953 (24.2)	.797 (20.2)	.177 (4.5)
22	1.5000-0.1P.-02L--DS	1.750 (44.5)	1.375 (34.9)	1.192 (30.3)	1.272 (32.3)	.953 (24.2)	.797 (20.2)	.177 (4.5)
24	1.7500-0.1P-0.2L-DS	2.000 (50.8)	1.562 (39.7)	1.317 (33.5)	1.473 (37.4)	1.047 (26.6)	.859 (21.8)	.177 (4.5)
28	2.0000-0.1P-0.2L-DS	2.250 (57.2)	1.750 (44.5)	1.536 (39.0)	1.692 (43.0)	1.047 (26.6)	.859 (21.8)	.177 (4.5)
32	2.2500-0.1P-0.2L-DS	2.500 (63.5)	1.938 (49.2)	1.786 (45.4)	1.942 (49.3)	1.110 (28.2)	.922 (23.4)	.209 (5.3)
36	2.5000-0.1P-0.2L-DS	2.750 (69.9)	2.188 (55.6)	2.005 (50.9)	2.161 (54.9)	1.110 (28.2)	.922 (23.4)	.209 (5.3)
40	2.7500-0.1P-0.2L-DS	3.000 (76.2)	2.375 (60.3)	2.255 (57.3)	2.411 (61.2)	1.110 (28.2)	.922 (23.4)	.209 (5.3)

1. For complete dimensions see Mil-C-22992.
2. Metric dimensions (mm) are indicated in parentheses.

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650DS001
Dummy Stowage Receptacle - Bayonet
MIL-C-26482 and MIL-C-83723 Series I

650DS001 B 16

- Basic Part No.
- Finish (Table IV)
- Shell Size

MIL-C-26482

MIL-C-83723 Series I Bayonet

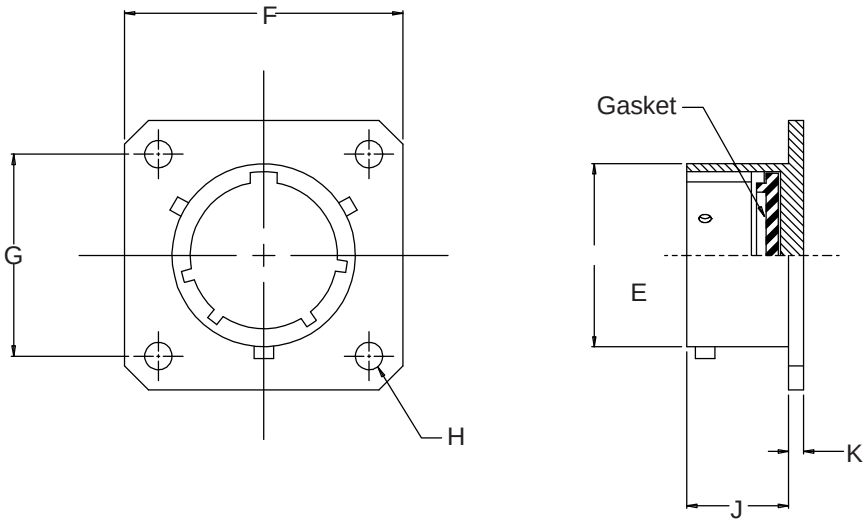


TABLE III: DIMENSIONS

Shell Size	E Dia		F Max		G		H Dia ±.010 (0.3)		J		K	
08	.471	(12.0)	.828	(21.0)	.594	(15.1)	.120	(3.0)	.478	(12.1)	.062	(1.6)
10	.588	(14.9)	.954	(24.2)	.719	(18.3)	.120	(3.0)	.478	(12.1)	.062	(1.6)
12	.748	(19.0)	1.047	(26.6)	.812	(20.6)	.120	(3.0)	.478	(12.1)	.062	(1.6)
14	.873	(22.2)	1.141	(29.0)	.906	(23.0)	.120	(3.0)	.478	(12.1)	.062	(1.6)
16	.998	(25.3)	1.234	(31.3)	.969	(24.6)	.120	(3.0)	.478	(12.1)	.062	(1.6)
18	1.123	(28.5)	1.328	(33.7)	1.062	(27.0)	.120	(3.0)	.478	(12.1)	.062	(1.6)
20	1.248	(31.7)	1.453	(36.9)	1.156	(29.4)	.120	(3.0)	.572	(14.5)	.094	(2.4)
22	1.373	(34.9)	1.578	(40.1)	1.250	(31.8)	.120	(3.0)	.572	(14.5)	.094	(2.4)
24	1.498	(38.0)	1.703	(43.3)	1.375	(34.9)	.147	(3.7)	.605	(15.4)	.094	(2.4)

TABLE IV: STANDARD FINISHES

Finish Symbol	Finish
B	Cadmium Olive Drab
C	Anodize, Black
M	Electroless nickel
NF	500 hr Cadmium Olive Drab

1. For complete dimensions see Military Standard MS3115.
2. Metric dimensions (mm) are indicated in parentheses.

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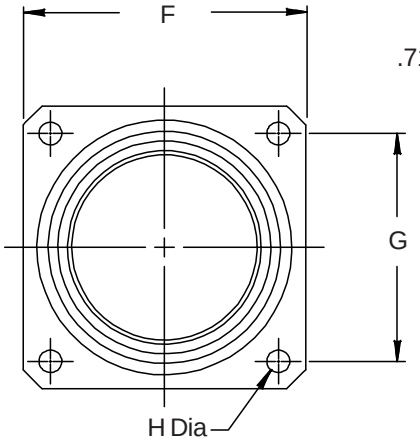
MIL-C-26500

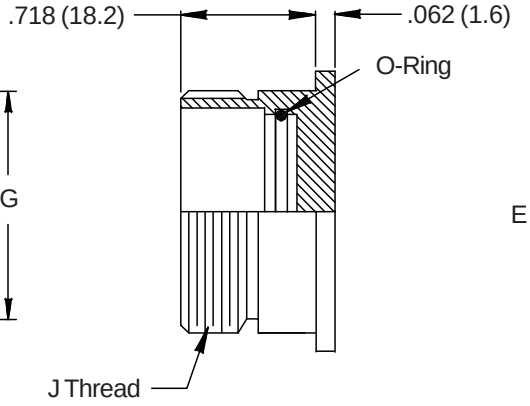
MIL-C-83723 Series III Threaded and Bayonet

650ES001 B 16

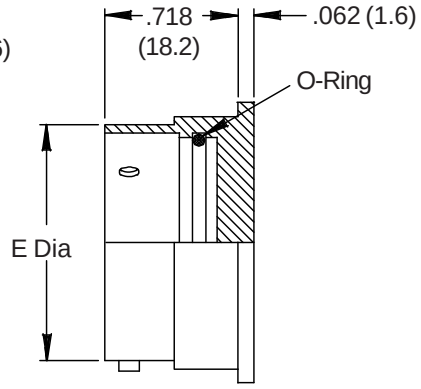
- Basic Part No.
  - 650ES001
  - 650ES002
- Finish (Table II)
- Shell Size

650ES001





650ES002



See inside back cover fold-out or page 14 for Table II.

TABLE III: DIMENSIONS

Shell Size	Shell Size Mil. Ref. *	E Dia	F	G	H Dia	J Thread
08	7	.536 (13.6)	.812 (20.6)	.594 (15.1)	.125 (3.2)	9/16 - 24 UNEF
10	1	.659 (16.7)	.937 (23.8)	.719 (18.3)	.125 (3.2)	11/16 - 24 UNEF
12	2	.829 (21.1)	1.031 (26.2)	.812 (20.6)	.125 (3.2)	7/8 - 20 UNEF
14	3	.898 (22.8)	1.125 (28.6)	.906 (23.0)	.125 (3.2)	15/16 - 20 UNEF
16	4	1.025 (26.0)	1.250 (31.8)	.969 (24.6)	.125 (3.2)	1 1/16 - 18 UNEF
18	5	1.131 (28.7)	1.343 (34.1)	1.062 (27.0)	.125 (3.2)	1 3/16 - 18 UNEF
20	8	1.256 (31.9)	1.437 (36.5)	1.156 (29.4)	.125 (3.2)	1 5/16 - 18 UNEF
22	6	1.381 (35.1)	1.562 (39.7)	1.250 (31.8)	.125 (3.2)	1 7/16 - 18 UNEF
24	9	1.506 (38.3)	1.703 (43.3)	1.375 (34.9)	.154 (3.9)	1 9/16 - 18 UNEF

* MS27296 and MS27297

Metric dimensions (mm) are indicated in parentheses.

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650GS001
Dummy Stowage Receptacle - Threaded
MIL-C-28876

MIL-C-28876

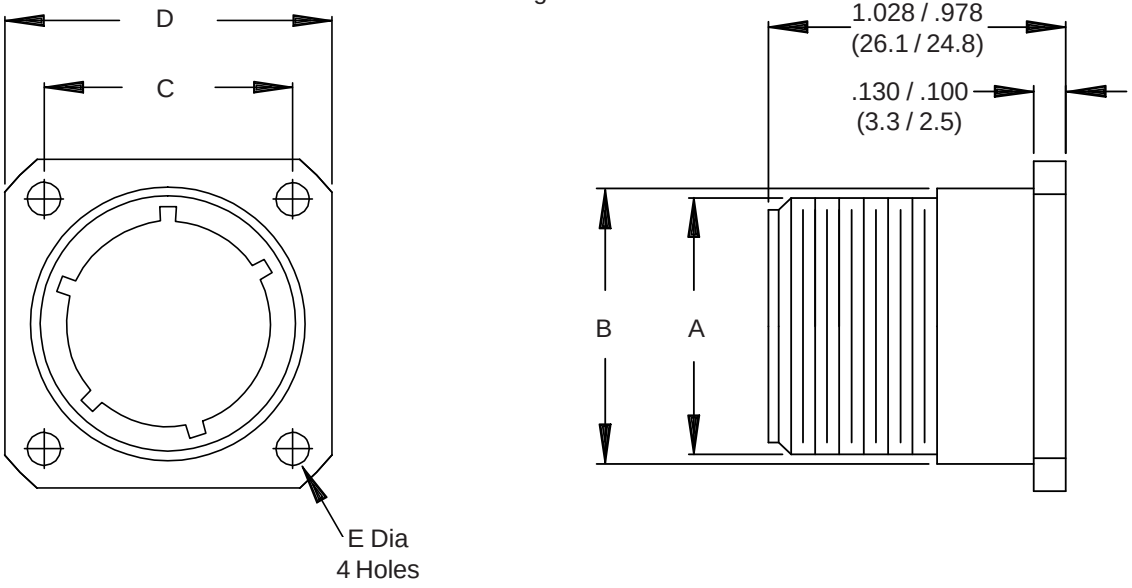
650GS001 NF 17 - 1

Basic Part No.

Finish (Table II)

Shell Size

Polarization
1 through 6



See inside back cover fold-out or page 14 for Table II.

TABLE III: DIMENSIONS

Shell Size	Shell Size Mil. Ref.	A Dia Max	B Ref. Mtg Hole	C	D Max	E Max
11	A	.750 (19.1)	.812 (20.6)	.750 (19.1)	1.043 (26.5)	.130 (3.3)
13	B	.875 (22.2)	.937 (23.8)	.843 (21.4)	1.158 (29.4)	.130 (3.3)
15	C	1.062 (27.0)	1.124 (28.5)	.968 (24.6)	1.278 (32.5)	.130 (3.3)
17	D	1.125 (28.6)	1.187 (30.1)	1.015 (25.8)	1.403 (35.6)	.130 (3.3)
19	E	1.312 (33.3)	1.375 (34.9)	1.140 (29.0)	1.528 (38.8)	.130 (3.3)
23	F	1.500 (38.1)	1.562 (39.7)	1.281 (32.5)	1.738 (44.1)	.130 (3.3)
25	G	1.625 (41.3)	1.687 (42.8)	1.392 (35.4)	1.838 (46.7)	.157 (4.0)
29	H	1.812 (46.0)	1.874 (47.6)	1.568 (39.8)	2.158 (54.8)	.157 (4.0)
33	J	2.000 (50.8)	2.062 (52.4)	1.734 (44.0)	2.348 (59.6)	.183 (4.6)

Metric dimensions (mm) are indicated in parentheses.

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MIL-C-81511 Series I & III

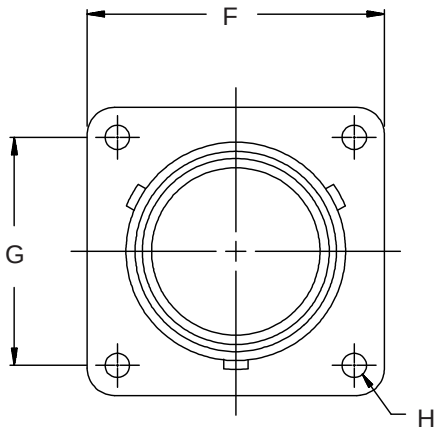
650JS001 M 16

- Basic Part No.
- Finish (Table IV)
- Shell Size

MIL-C-81511 Series II & IV

650JS002 M 16

- Basic Part No.
- Finish (Table IV)
- Shell Size



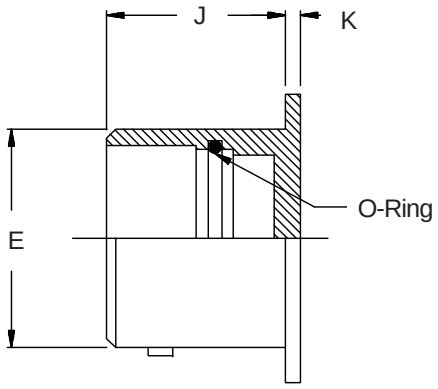


TABLE III: DIMENSIONS

Shell Size	E Dia		F Max		G		H Max		J		K	
08	.553	(14.0)	.820	(20.8)	.599	(15.2)	.126	(3.2)	.645	(16.4)	.070	(1.8)
10	.678	(17.2)	.945	(24.0)	.724	(18.4)	.126	(3.2)	.645	(16.4)	.070	(1.8)
14	.928	(23.6)	1.133	(28.8)	.911	(23.1)	.126	(3.2)	.645	(16.4)	.070	(1.8)
16	1.054	(26.8)	1.258	(32.0)	.974	(24.7)	.126	(3.2)	.645	(16.4)	.070	(1.8)
18	1.178	(29.9)	1.351	(34.3)	1.067	(27.1)	.126	(3.2)	.645	(16.4)	.070	(1.8)
20	1.303	(33.1)	1.475	(37.5)	1.161	(29.5)	.126	(3.2)	.645	(16.4)	.070	(1.8)
22	1.428	(36.3)	1.570	(39.9)	1.255	(31.9)	.126	(3.2)	.645	(16.4)	.070	(1.8)
24	1.553	(39.4)	1.711	(43.5)	1.380	(35.1)	.153	(3.9)	.645	(16.4)	.070	(1.8)

TABLE IV: STANDARD FINISHES

Glenair Symbol	Military Ref.	Finish
N	1	Cadmium Olive Drab over Nickel
M	2	Electroless nickel

1. For complete dimensions see Military Standard MIL-C-81511/19 and /30.
2. Metric dimensions (mm) are indicated in parentheses.

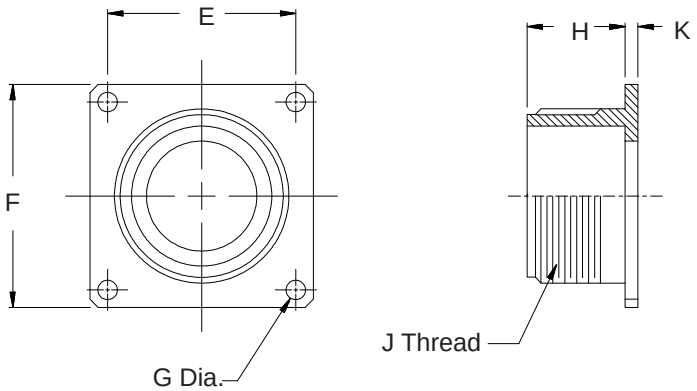
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650BS001
Dummy Stowage Receptacle - Threaded
with Through-Hole Back Flange
MIL-C-5015

MIL-C-5015

650BS001 B 20

- Basic Part No.
- Finish (Table II)
- Shell Size



See inside back cover fold-out or page 14 for Table II.

TABLE III: DIMENSIONS

Shell Size	J Thread Class 2A	E		F Max		G		H Max		K Max	
08S	1/2 -28 UNEF	.594	(15.1)	.906	(23.0)	.120	(3.0)	.593	(15.1)	.156	(4.0)
10S	5/8 -24 UNEF	.719	(18.3)	1.031	(26.2)	.120	(3.0)	.593	(15.1)	.156	(4.0)
12S	3/4 -20 UNEF	.812	(20.6)	1.125	(28.6)	.120	(3.0)	.593	(15.1)	.156	(4.0)
12	3/4 -20 UNEF	.812	(20.6)	1.125	(28.6)	.120	(3.0)	.781	(19.8)	.156	(4.0)
14S	7/8 -20 UNEF	.906	(23.0)	1.219	(31.0)	.120	(3.0)	.593	(15.1)	.156	(4.0)
14	7/8 -20 UNEF	.906	(23.0)	1.219	(31.0)	.120	(3.0)	.781	(19.8)	.156	(4.0)
16S	1 -20 UNEF	.969	(24.6)	1.312	(33.3)	.120	(3.0)	.593	(15.1)	.156	(4.0)
16	1 -20 UNEF	.969	(24.6)	1.312	(33.3)	.120	(3.0)	.781	(19.8)	.156	(4.0)
18	1 1/8 -18 UNEF	1.062	(27.0)	1.406	(35.7)	.120	(3.0)	.781	(19.8)	.203	(5.2)
20	1 1/4 -18 UNEF	1.156	(29.4)	1.531	(38.9)	.120	(3.0)	.781	(19.8)	.203	(5.2)
22	1 3/8 -18 UNEF	1.250	(31.8)	1.656	(42.1)	.120	(3.0)	.781	(19.8)	.203	(5.2)
24	1 1/2 -18 UNEF	1.375	(34.9)	1.781	(45.2)	.147	(3.7)	.843	(21.4)	.203	(5.2)
28	1 3/4 -18 UNS	1.562	(39.7)	2.031	(51.6)	.147	(3.7)	.843	(21.4)	.203	(5.2)
32	2 -18 UNS	1.750	(44.5)	2.281	(57.9)	.173	(4.4)	.906	(23.0)	.359	(9.1)
36	2 1/4 -16 UN	1.938	(49.2)	2.531	(64.3)	.173	(4.4)	.906	(23.0)	.359	(9.1)
40	2 1/2 -16 UN	2.188	(55.6)	2.781	(70.6)	.173	(4.4)	.906	(23.0)	.359	(9.1)
44	2 3/4 -16 UN	2.375	(60.3)	3.031	(77.0)	.173	(4.4)	.906	(23.0)	.359	(9.1)
48	3 -16 UN	2.625	(66.7)	3.281	(83.3)	.173	(4.4)	.906	(23.0)	.359	(9.1)

1. For complete dimensions see Mil-C-5015.
2. Metric dimensions (mm) are indicated in parentheses.

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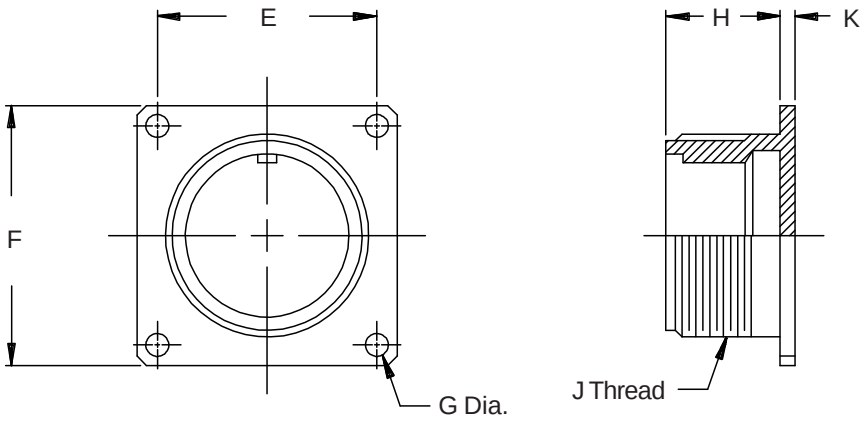
650BS012 B 20

Basic Part No.

Finish (Table II)

Shell Size

MIL-C-5015



See inside back cover fold-out or page 14 for Table II.

TABLE III: DIMENSIONS

Shell Size	J Thread Class 2A	E		F Max		G		H Max		K Max	
08S	1/2 -28 UNEF	.594	(15.1)	.906	(23.0)	.120	(3.0)	.593	(15.1)	.156	(4.0)
10S	5/8 -24 UNEF	.719	(18.3)	1.031	(26.2)	.120	(3.0)	.593	(15.1)	.156	(4.0)
12S	3/4 -20 UNEF	.812	(20.6)	1.125	(28.6)	.120	(3.0)	.593	(15.1)	.156	(4.0)
12	3/4 -20 UNEF	.812	(20.6)	1.125	(28.6)	.120	(3.0)	.781	(19.8)	.156	(4.0)
14S	7/8 -20 UNEF	.906	(23.0)	1.219	(31.0)	.120	(3.0)	.593	(15.1)	.156	(4.0)
14	7/8 -20 UNEF	.906	(23.0)	1.219	(31.0)	.120	(3.0)	.781	(19.8)	.156	(4.0)
16S	1 -20 UNEF	.969	(24.6)	1.312	(33.3)	.120	(3.0)	.593	(15.1)	.156	(4.0)
16	1 -20 UNEF	.969	(24.6)	1.312	(33.3)	.120	(3.0)	.781	(19.8)	.156	(4.0)
18	1 1/8 -18 UNEF	1.062	(27.0)	1.406	(35.7)	.120	(3.0)	.781	(19.8)	.203	(5.2)
20	1 1/4 -18 UNEF	1.156	(29.4)	1.531	(38.9)	.120	(3.0)	.781	(19.8)	.203	(5.2)
22	1 3/8 -18 UNEF	1.250	(31.8)	1.656	(42.1)	.120	(3.0)	.781	(19.8)	.203	(5.2)
24	1 1/2 -18 UNEF	1.375	(34.9)	1.781	(45.2)	.147	(3.7)	.843	(21.4)	.203	(5.2)
28	1 3/4 -18 UNS	1.562	(39.7)	2.031	(51.6)	.147	(3.7)	.843	(21.4)	.203	(5.2)
32	2 -18 UNS	1.750	(44.5)	2.281	(57.9)	.173	(4.4)	.906	(23.0)	.359	(9.1)
36	2 1/4 -16 UN	1.938	(49.2)	2.531	(64.3)	.173	(4.4)	.906	(23.0)	.359	(9.1)
40	2 1/2 -16 UN	2.188	(55.6)	2.781	(70.6)	.173	(4.4)	.906	(23.0)	.359	(9.1)
44	2 3/4 -16 UN	2.375	(60.3)	3.031	(77.0)	.173	(4.4)	.906	(23.0)	.359	(9.1)
48	3 -16 UN	2.625	(66.7)	3.281	(83.3)	.173	(4.4)	.906	(23.0)	.359	(9.1)

1. For complete dimensions see Mil-C-5015.
2. Metric dimensions (mm) are indicated in parentheses.

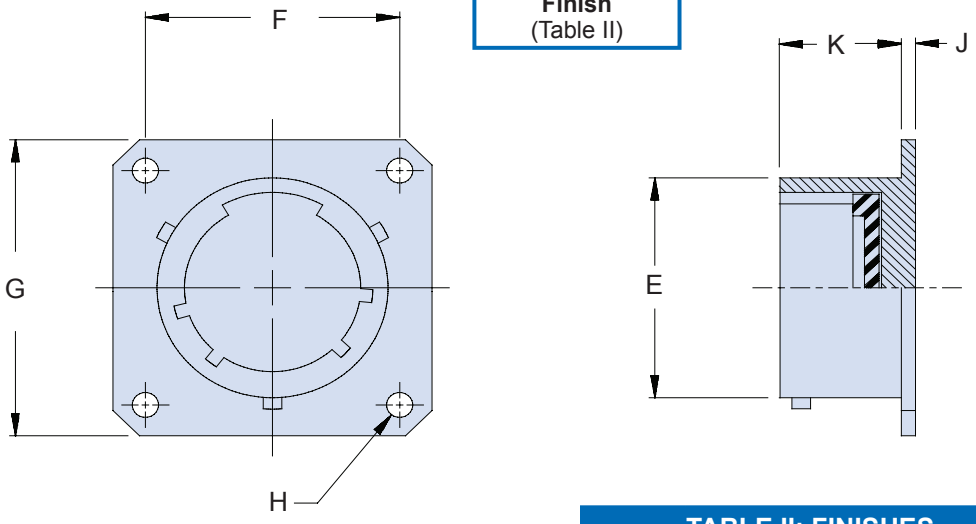
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Glenair®

650FS001
Dummy Stowage Receptacle for
MIL-DTL-38999 Series I Connector

Basic Number	Shell Size	
650FS001	M	17

Finish (Table II)



APPLICATION NOTES

1. See applicable Military Specification for complete dimensions.
2. Metric dimensions (mm) are indicated in parentheses.

TABLE II: FINISHES

Symbol	Finish
B	Cadmium Plate, Olive Drab
C	Anodize, Black
GB	Black Anodize, Hard Coat
M	Electroless Nickel
N	Cad Plate, Olive Drab over Electroless Nickel
NF	Cadmium Plate, Olive Drab over Electroless Nickel
MT	Ni-PTFE *1000 Hour Grey™* Nickel Fluorocarbon Polymer
ZN	Zinc-Nickel

TABLE I: DIMENSIONS

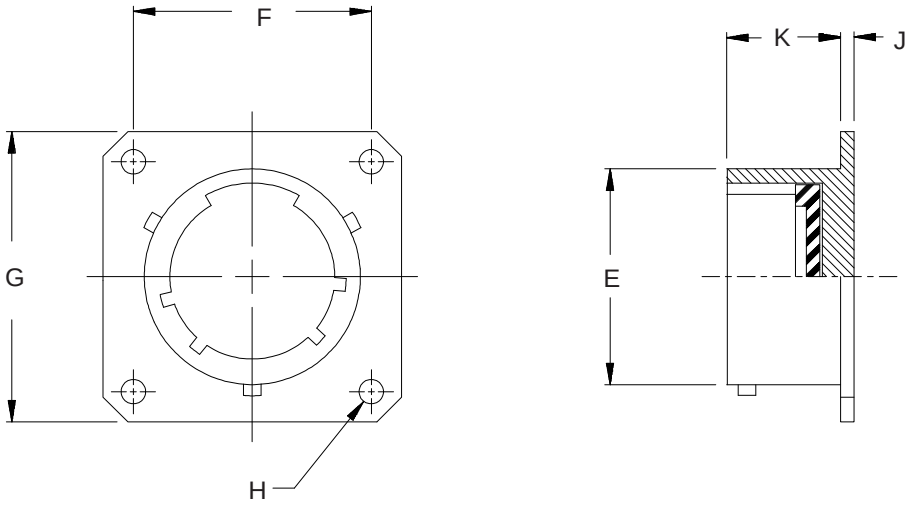
Shell Size	E Max	F Dim	G ±.020 (0.5)	H Nom	J +.015 (0.4) -.000	K ±.010 (0.3)
9	572 (14.5)	.719 (18.3)	.938 (23.8)	.128 (3.3)	.085 (2.2)	.727 (18.5)
11	.701 (17.8)	.812 (20.6)	1.031 (26.2)	.128 (3.3)	.085 (2.2)	.727 (18.5)
13	.851 (21.6)	.906 (23.0)	1.125 (28.6)	.128 (3.3)	.085 (2.2)	.727 (18.5)
15	.976 (24.8)	.969 (24.6)	1.219 (31.0)	.128 (3.3)	.085 (2.2)	.727 (18.5)
17	1.101 (28.0)	1.062 (27.0)	1.312 (33.3)	.128 (3.3)	.085 (2.2)	.727 (18.5)
19	1.208 (30.7)	1.156 (29.4)	1.438 (36.5)	.128 (3.3)	.085 (2.2)	.727 (18.5)
21	1.333 (33.9)	1.250 (31.8)	1.562 (39.7)	.128 (3.3)	.115 (2.9)	.697 (17.7)
23	1.458 (37.0)	1.375 (34.9)	1.688 (42.9)	.147 (3.7)	.115 (2.9)	.697 (17.7)
25	1.583 (40.2)	1.500 (38.1)	1.812 (46.0)	.147 (3.7)	.115 (2.9)	.697 (17.7)

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MIL-C-38999 Series II

650FS002 M 16

- Basic Part No.
- Finish (Table II)
- Shell Size



See inside back cover fold-out or page 14 for Table II.

TABLE III: DIMENSIONS

Shell Size	E Max	F	G Max	H Nom	J	K
08	.474 (12.0)	.594 (15.1)	.823 (20.9)	.120 (3.0)	.063 (1.6)	.449 (11.4)
10	.591 (15.0)	.719 (18.3)	.949 (24.1)	.120 (3.0)	.063 (1.6)	.449 (11.4)
12	.751 (19.1)	.812 (20.6)	1.042 (26.5)	.120 (3.0)	.063 (1.6)	.449 (11.4)
14	.876 (22.3)	.906 (23.0)	1.136 (28.9)	.120 (3.0)	.063 (1.6)	.449 (11.4)
16	1.001 (25.4)	.969 (24.6)	1.230 (31.2)	.120 (3.0)	.063 (1.6)	.449 (11.4)
18	1.126 (28.6)	1.062 (27.0)	1.323 (33.6)	.120 (3.0)	.063 (1.6)	.449 (11.4)
20	1.251 (31.8)	1.156 (29.4)	1.449 (36.8)	.120 (3.0)	.063 (1.6)	.449 (11.4)
22	1.376 (35.0)	1.250 (31.8)	1.573 (40.0)	.120 (3.0)	.063 (1.6)	.449 (11.4)
24	1.501 (38.1)	1.375 (34.9)	1.699 (43.2)	.147 (3.7)	.063 (1.6)	.449 (11.4)

1. For complete dimensions see Military Standard MIL-C-38999 Series II.
2. Metric dimensions (mm) are indicated in parentheses.

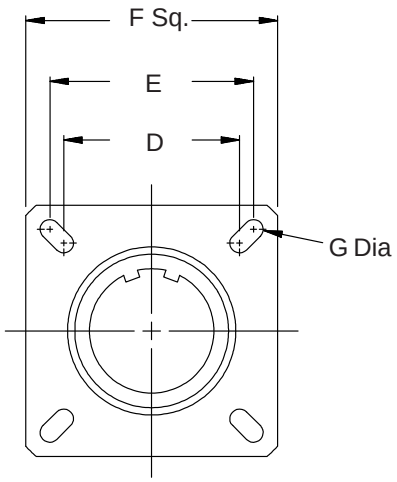
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650HS010
Dummy Stowage Receptacle - Threaded
MIL-C-38999 Series III

MIL-C-38999 Series III

650HS010 B 17

- Basic Part No.
- Finish (Table II)
- Shell Size



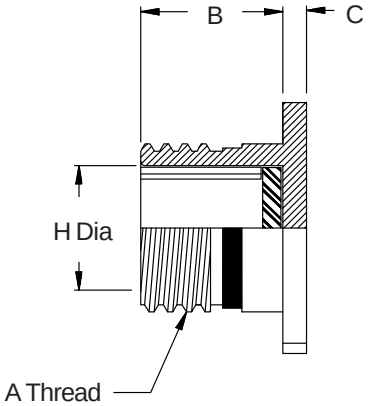


TABLE III: DIMENSIONS

Shell Size	Shell Size Code	A Thread	B Max		C Max		D	
09	A	.625-.1P-3LTS	.843	(21.4)	.110	(2.8)	.594	(15.1)
11	B	.750-.1P-3LTS	.843	(21.4)	.110	(2.8)	.719	(18.3)
13	C	.875-.1P-3LTS	.843	(21.4)	.110	(2.8)	.812	(20.6)
15	D	1.000-.1P-3LTS	.843	(21.4)	.110	(2.8)	.906	(23.0)
17	E	1.187-.1P-3LTS	.843	(21.4)	.110	(2.8)	.969	(24.6)
19	F	1.250-.1P-3LTS	.843	(21.4)	.110	(2.8)	1.062	(27.0)
21	G	1.375-.1P-3LTS	.811	(20.6)	.137	(3.5)	1.156	(29.4)
23	H	1.500-.1P-3LTS	.811	(20.6)	.137	(3.5)	1.250	(31.8)
25	J	1.625-.1P-3LTS	.811	(20.6)	.137	(3.5)	1.375	(34.9)

TABLE III (Continued)

Shell Size	Shell Size Code	E		F Max		G Dia ±.007	(0.2)	H Dia	
09	A	.719	(18.3)	.949	(24.1)	.128	(3.3)	.492	(12.5)
11	B	.812	(20.6)	1.043	(26.5)	.128	(3.3)	.620	(15.7)
13	C	.906	(23.0)	1.138	(28.9)	.128	(3.3)	.769	(19.5)
15	D	.969	(24.6)	1.232	(31.3)	.128	(3.3)	.894	(22.7)
17	E	1.062	(27.0)	1.322	(33.6)	.128	(3.3)	1.019	(25.9)
19	F	1.156	(29.4)	1.448	(36.8)	.128	(3.3)	1.124	(28.5)
21	G	1.250	(31.8)	1.574	(40.0)	.128	(3.3)	1.249	(31.7)
23	H	1.375	(34.9)	1.700	(43.2)	.154	(3.9)	1.374	(34.9)
25	J	1.500	(38.1)	1.822	(46.3)	.154	(3.9)	1.499	(38.1)

See inside back cover fold-out or page 14 for Table II.

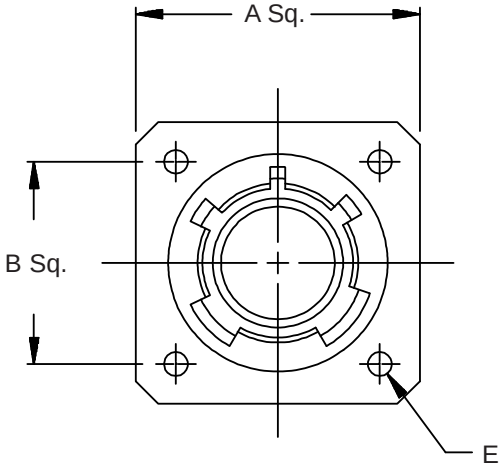
Metric dimensions (mm) are indicated in parentheses.

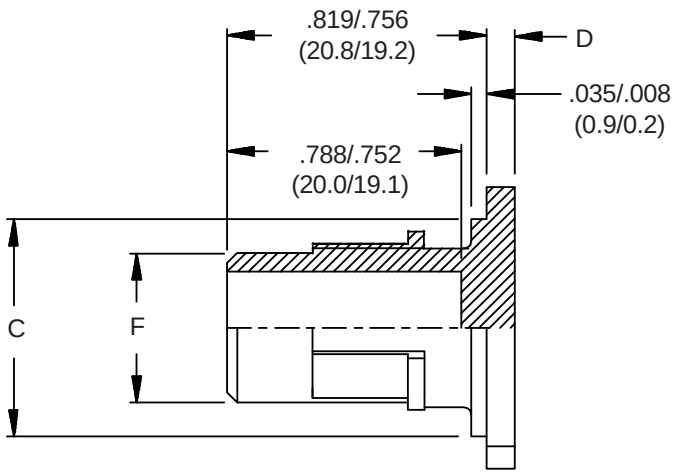
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MIL-C-38999 Series IV Universal Polarization

650HS007 M 19

- Basic Part No.
- Finish (Table II)
- Shell Size





See inside back cover fold-out or page 14 for Table II.

TABLE III: DIMENSIONS

Shell Size	Shell Size Code	A Max		B BSC		C + 0 -.015		C (0.0) (-0.4)		D ±.006		D (±0.2)		E ±.006		E (±0.2)		F + 0 -.006		F (0.0) (-0.2)	
11	B	1.051	(26.7)	.812	(20.6)	.793	(20.1)			.094		(2.4)		.132		(3.4)		.509		(12.9)	
13	C	1.146	(29.1)	.906	(23.0)	.919	(23.3)			.094		(2.4)		.132		(3.4)		.634		(16.1)	
15	D	1.240	(31.5)	.969	(24.6)	1.044	(26.5)			.094		(2.4)		.132		(3.4)		.759		(19.3)	
17	E	1.335	(33.9)	1.062	(27.0)	1.170	(29.7)			.094		(2.4)		.132		(3.4)		.885		(22.5)	
19	F	1.461	(37.1)	1.156	(29.4)	1.294	(32.9)			.094		(2.4)		.132		(3.4)		1.009		(25.6)	
21	G	1.583	(40.2)	1.250	(31.8)	1.419	(36.0)			.126		(3.2)		.132		(3.4)		1.134		(28.8)	
23	H	1.709	(43.4)	1.375	(34.9)	1.544	(39.2)			.126		(3.2)		.152		(3.9)		1.259		(32.0)	
25	J	1.835	(46.6)	1.500	(38.1)	1.669	(42.4)			.126		(3.2)		.152		(3.9)		1.384		(35.2)	

1. Equivalent to DOD-C-38999/50.
2. Metric dimensions (mm) are indicated in parentheses.

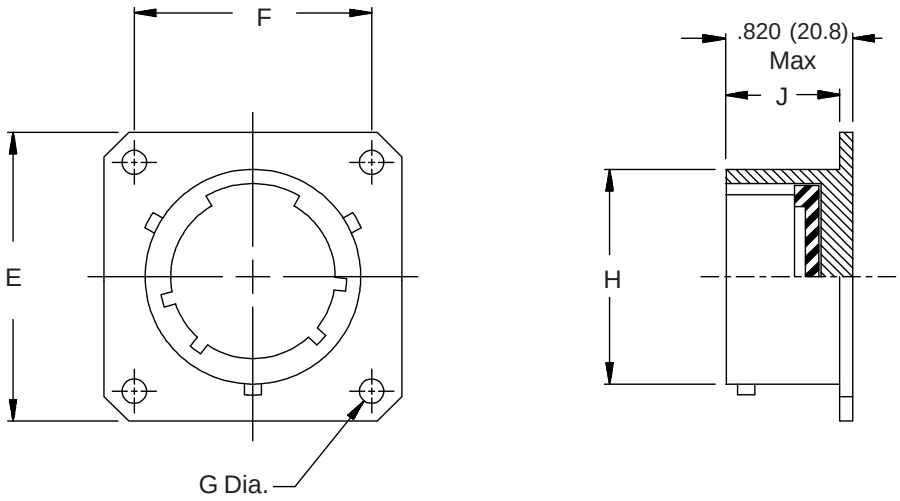
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650LS001
Dummy Stowage Receptacle - Bayonet
S J T

650LS001 M 16

S J T

- Basic Part No.
- Finish (Table II)
- Shell Size



See inside back cover fold-out or page 14 for Table II.

TABLE III: DIMENSIONS

Shell Size	E	F	G	H	J Dim
08	.812 (20.6)	.594 (15.1)	.120 (3.0)	.473 (12.0)	.670 (17.0)
10	.938 (23.8)	.719 (18.3)	.120 (3.0)	.590 (15.0)	.670 (17.0)
12	1.031 (26.2)	.812 (20.6)	.120 (3.0)	.750 (19.1)	.670 (17.0)
14	1.125 (28.6)	.906 (23.0)	.120 (3.0)	.875 (22.2)	.670 (17.0)
16	1.219 (31.0)	.969 (24.6)	.120 (3.0)	1.000 (25.4)	.670 (17.0)
18	1.312 (33.3)	1.062 (27.0)	.120 (3.0)	1.125 (28.6)	.670 (17.0)
20	1.438 (36.5)	1.156 (29.4)	.120 (3.0)	1.250 (31.8)	.640 (16.3)
22	1.562 (39.7)	1.250 (31.8)	.120 (3.0)	1.375 (34.9)	.640 (16.3)
24	1.686 (42.8)	1.375 (34.9)	.147 (3.7)	1.500 (38.1)	.640 (16.3)

Metric dimensions (mm) are indicated in parentheses.

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PRODUCT FEATURES

- **Plug and Receptacle Covers for All MS Type Circular Connectors**
- **Threaded, Bayonet and Breach-Lock Designs to Exact Connector Interface Specifications**
- **Wide Selection of Attachment Chains**
- **Conductive and Non-Conductive Metal and Rubber Versions**

Extend interconnect system life and improve performance with protective covers

An essential part of every safety-critical interconnect harness and connector assembly

A wide selection of EMI/RFI protective covers are offered for both bayonet and thread coupled circular connectors. Glenair Series 66 metal covers offer a broad choice of attachments not provided on Military Standard versions.

Our Series 78 "Mr. Bean" Protective Rubber Covers are designed to prevent finish damage caused by metal-to-metal contact between disengaged covers and equipment boxes. The durable and solvent-resistent rubber material is available in both onductive and non-conductive versions. Hundreds of additional "Mr. Bean" Protective Rubber Cover designs are available beyond the universal connector plug and receptacle covers presented here, including special high-temperature versions. Please consult the factory for custom requirements.



Introducing Glenair “Mr. Bean” Protective Rubber Covers: Conductive and non-conductive rubber covers prevent finish damage between disengaged covers and equipment panels. See page 24 in this section for more information.

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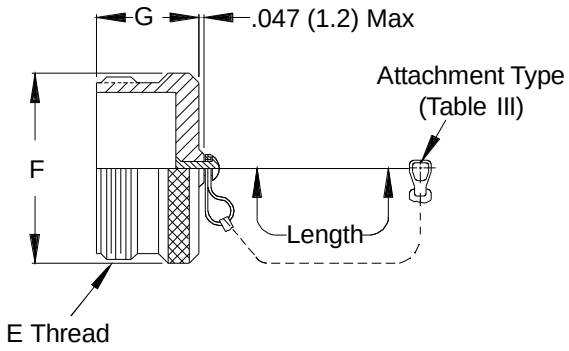
660-004 (Plug) - 660-005 (Receptacle) Protective Covers

MIL-C-5015

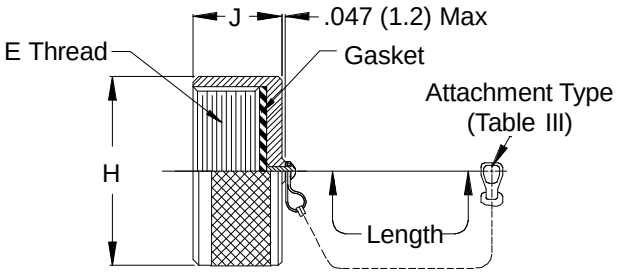
MIL-C-5015

660-004 M 20 S 6 -04

- Basic Part No.
  - 660-004 Plug
  - 660-005 Receptacle
- Finish (Table II)
- Shell Size (Table X)
- Attachment Type (Table III)
- Attachment Length (in inches)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)



660-004 Plug Cover



660-005 Receptacle Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size	E Thread	F Max	G Max	H Max	J Max
08	1/2 - 28 UNEF	.562 (14.3)	.656 (16.7)	.688 (17.5)	.465 (11.8)
10	5/8 - 24 UNEF	.687 (17.4)	.656 (16.7)	.815 (20.7)	.465 (11.8)
12	3/4 - 20 UNEF	.812 (20.6)	.844 (21.4)	1.000 (25.4)	.465 (11.8)
14	7/8 - 20 UNEF	.937 (23.8)	.844 (21.4)	1.125 (28.6)	.465 (11.8)
16	1 - 20 UNEF	1.062 (27.0)	.844 (21.4)	1.188 (30.2)	.465 (11.8)
18	1 1/8 - 18 UNEF	1.187 (30.1)	.844 (21.4)	1.344 (34.1)	.465 (11.8)
20	1 1/4 - 18 UNEF	1.312 (33.3)	.844 (21.4)	1.469 (37.3)	.465 (11.8)
22	1 3/8 - 18 UNEF	1.437 (36.5)	.844 (21.4)	1.594 (40.5)	.465 (11.8)
24	1 1/2 - 18 UNEF	1.562 (39.7)	.844 (21.4)	1.719 (43.7)	.465 (11.8)
28	1 3/4 - 18 UNS	1.812 (46.0)	.844 (21.4)	1.969 (50.0)	.531 (13.5)
32	2 - 18 UNS	2.062 (52.4)	.844 (21.4)	2.219 (56.4)	.531 (13.5)
36	2 1/4 - 16 UN	2.312 (58.7)	.844 (21.4)	2.469 (62.7)	.531 (13.5)
40	2 1/2 - 16 UN	2.562 (65.1)	.844 (21.4)	2.719 (69.1)	.531 (13.5)
44	2 3/4 - 16 UN	2.812 (71.4)	.844 (21.4)	2.969 (75.4)	.531 (13.5)
48	3 - 16 UN	3.062 (77.8)	.844 (21.4)	3.188 (81.0)	.531 (13.5)

See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

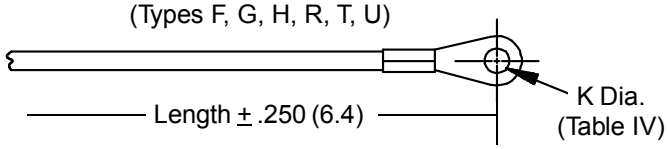
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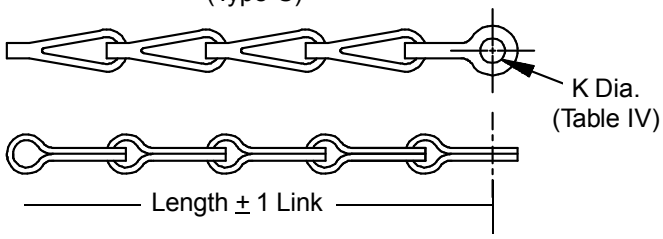
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660-004 (Plug) - 660-005 (Receptacle)
Protective Covers
MIL-C-5015

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

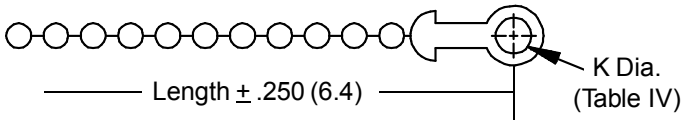


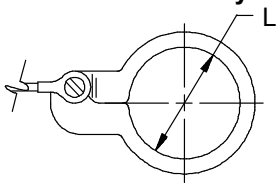
TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

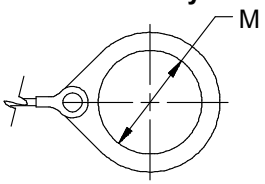
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

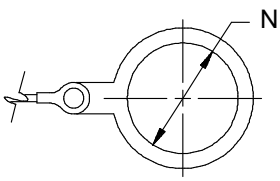


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

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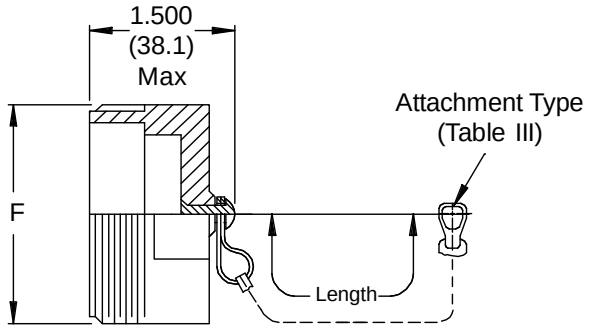
660-006 (Plug) - 660-007 (Receptacle) Protective Covers

MIL-C-22992

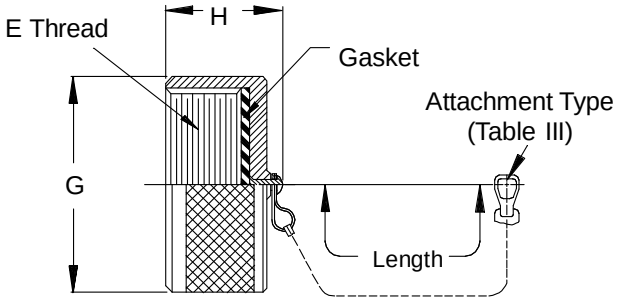
MIL-C-22992

660-006 G 16 S 5 -04

- Basic Part No.
  - 660-006 Plug
  - 660-007 Receptacle
- Finish (Table II)
- Shell Size (Table X)
- Attachment Type (Table III)
- Attachment Length (in inches)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)



660-006 Plug Cover



660-007 Receptacle Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size	E Thread	F Max	G Max	H Max
12	.8750-0.1P-0.2L-DS	.875 (22.2)	1.094 (27.8)	.765 (19.4)
14	1.0000-0.1P-0.2L-DS	1.000 (25.4)	1.219 (31.0)	.765 (19.4)
16	1.1250-0.1P-0.2L-DS	1.125 (28.6)	1.344 (34.1)	.980 (24.9)
18	1.2500-0.1P-0.2L-DS	1.250 (31.8)	1.469 (37.3)	.980 (24.9)
20	1.3750-0.1P-0.2L-DS	1.375 (34.9)	1.562 (39.7)	.980 (24.9)
22	1.5000-0.1P-0.2L-DS	1.500 (38.1)	1.688 (42.9)	.980 (24.9)
24	1.7500-0.1P-0.2L-DS	1.750 (44.5)	1.938 (49.2)	.980 (24.9)
28	2.0000-0.1P-0.2L-DS	2.000 (50.8)	2.219 (56.4)	.980 (24.9)
32	2.2500-0.1P-0.2L-DS	2.250 (57.2)	2.469 (62.7)	.980 (24.9)
36	2.5000-0.1P-0.2L-DS	2.500 (63.5)	2.719 (69.1)	.980 (24.9)
40	2.7500-0.1P-0.2L-DS	2.750 (69.9)	2.969 (75.4)	.980 (24.9)

See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

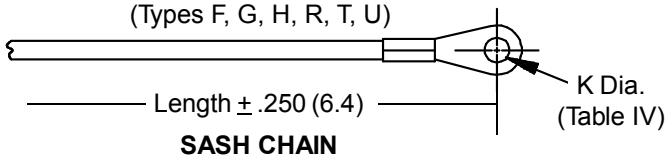
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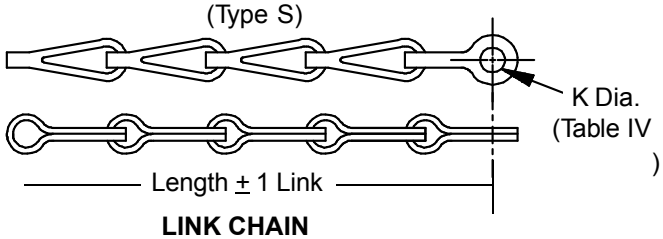
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660-006 (Plug) - 660-007 (Receptacle)
Protective Covers
MIL-C-22992

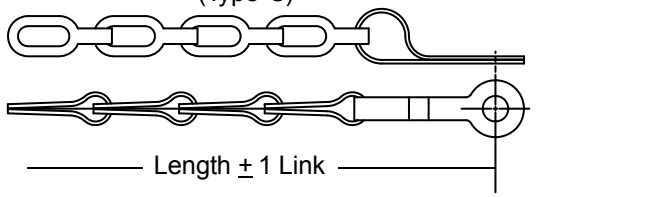
ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



LINK CHAIN
(Type C)



BEAD CHAIN
(Type D)

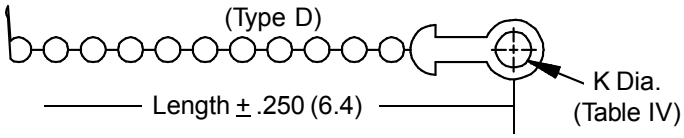


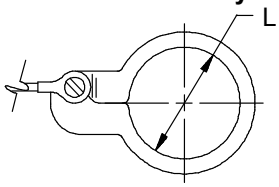
TABLE III: ATTACHMENT

Sym	Attachment Type
C	Link Chain, Cres., Nickel Plate
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

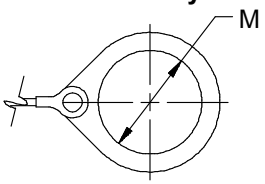
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

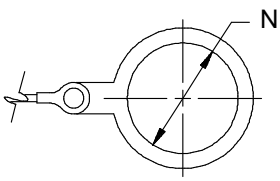


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.7)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

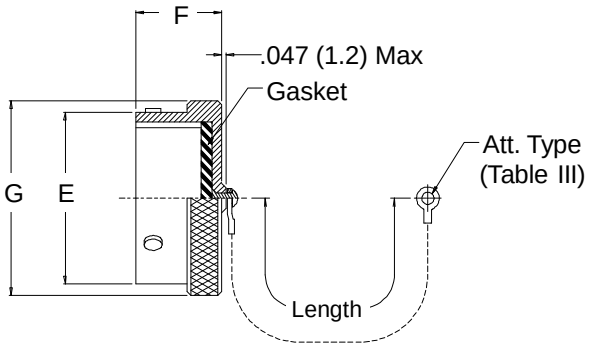
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660-008 (Plug) - 660-009 (Receptacle)
661-001 (EMI Receptacle)
Protective Covers
MIL-C-26482

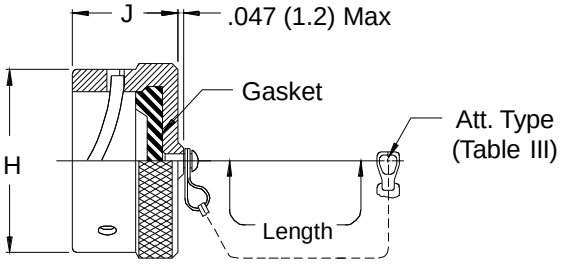
MIL-C-26482

660-008 M 20 S 6 -04

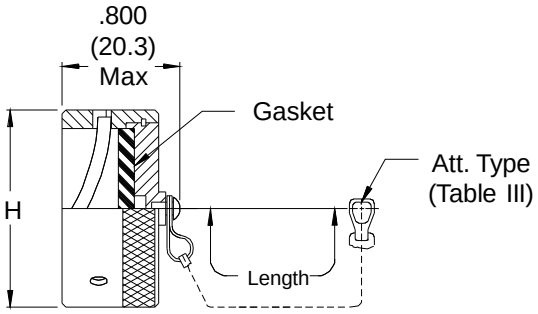
- Basic Part No.
  - 660-008 Plug
  - 660-009 Receptacle
  - 661-001 Receptacle
- Finish (Table II)
- Shell Size (Table X)
- Attachment Type (Table III)
- Attachment Length (in inches)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)



660-008 Plug Cover



660-009 Receptacle Cover



661-001 EMI/RFI Receptacle Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size	E Dia	F Max	G Dia Max	H Dia Max	J Max
08	.473 (12.0)	.562 (14.3)	.719 (18.3)	.734 (18.6)	.562 (14.3)
10	.590 (15.0)	.562 (14.3)	.844 (21.4)	.859 (21.8)	.562 (14.3)
12	.750 (19.1)	.562 (14.3)	1.000 (25.4)	1.000 (25.4)	.562 (14.3)
14	.875 (22.2)	.562 (14.3)	1.125 (28.6)	1.125 (28.6)	.562 (14.3)
16	1.000 (25.4)	.562 (14.3)	1.250 (31.8)	1.250 (31.8)	.562 (14.3)
18	1.125 (28.6)	.562 (14.3)	1.375 (34.9)	1.375 (34.9)	.562 (14.3)
20	1.250 (31.8)	.625 (15.9)	1.500 (38.1)	1.500 (38.1)	.562 (14.3)
22	1.375 (34.9)	.625 (15.9)	1.625 (41.3)	1.625 (41.3)	.562 (14.3)
24	1.500 (38.1)	.658 (16.7)	1.750 (44.5)	1.750 (44.5)	.602 (15.3)

See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

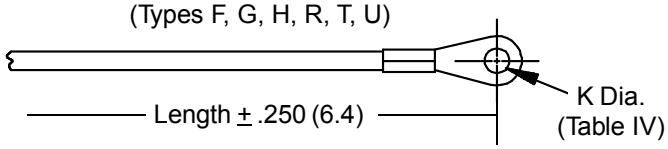
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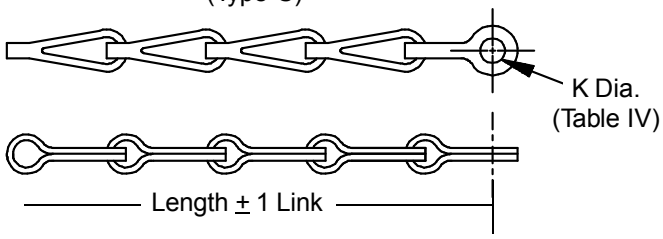
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660-008 (Plug) - 660-009 (Receptacle)
661-001 (EMI Receptacle)
Protective Covers
MIL-C-26482

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

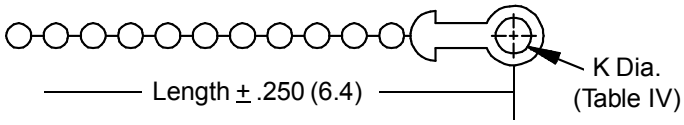


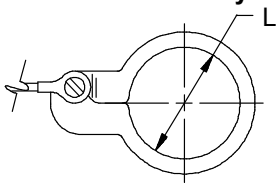
TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

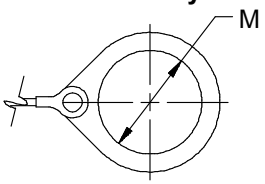
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

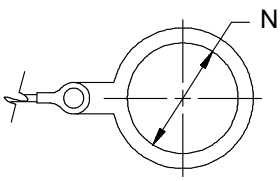


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

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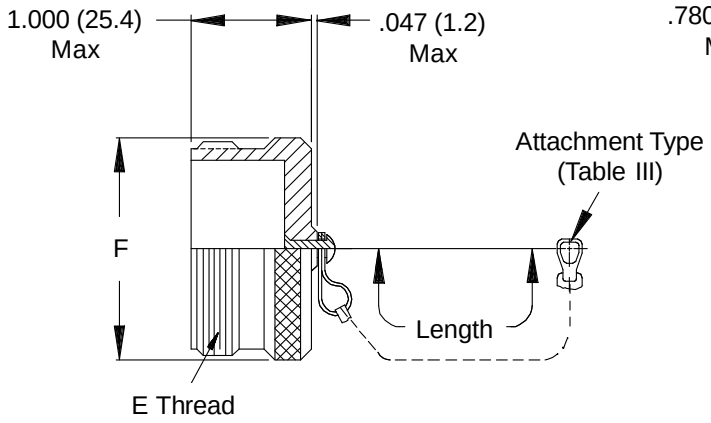
660-010 (Plug) - 660-011 (Receptacle) Protective Covers

MIL-C-28840

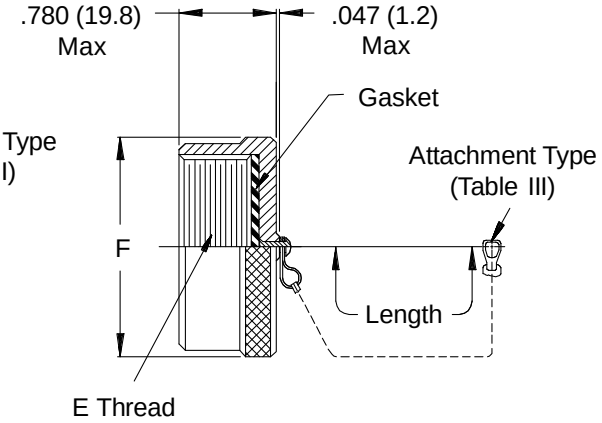
MIL-C-28840

660-010 NF D S 5 -04

- 660-010 NF D S 5 -04 — Basic Part No.
  - 660-010 Plug
  - 660-011 Receptacle
- NF — Finish (Table II)
- D — Shell Size Designator (Table X)
- S — Attachment Type (Table III)
- 5 — Attachment Length (in inches)
- -04 — Ring or Eyelet Dash No. (Tables IV, V, VI, VII)



660-010 Plug Cover



660-011 Receptacle Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size Designator	Shell Size (Ref.)	E Thread	F Max
A	11	.750-0.1P-0.2L-DS	1.028 (26.1)
B	13	.875-0.1P-0.2L-DS	1.141 (29.0)
C	15	1.062-0.1P-0.2L-DS	1.263 (32.1)
D	17	1.125-0.1P-0.2L-DS	1.387 (35.2)
E	19	1.312-0.1P-0.2L-DS	1.513 (38.4)
F	23	1.500-0.1P-0.2L-DS	1.703 (43.3)
G	25	1.625-0.1P-0.2L-DS	1.825 (46.4)
H	29	1.812-0.1P-0.2L-DS	2.143 (54.4)
J	33	2.000-0.1P-0.2L-DS	2.329 (59.2)

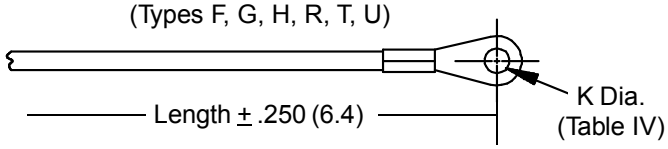
See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

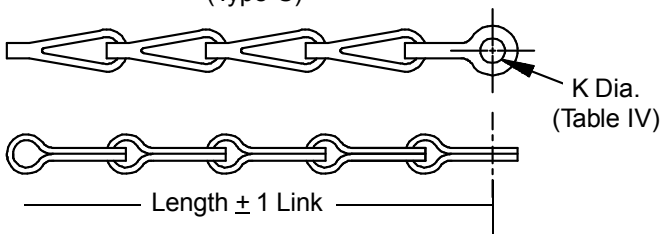
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660-010 (Plug) - 660-011 (Receptacle)
Protective Covers
MIL-C-28840

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

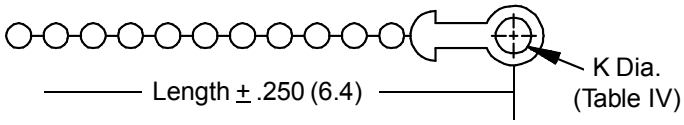


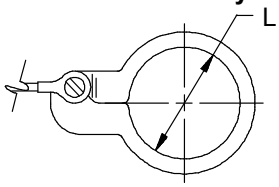
TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

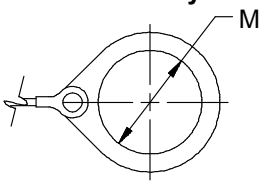
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

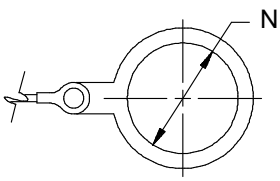


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

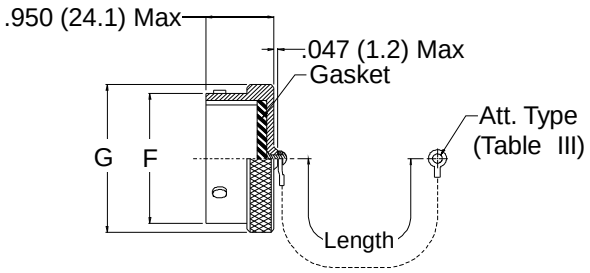
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660-012 (Plug) - 660-013 (Receptacle)
661-002 (EMI Receptacle)
Protective Covers
MIL-C-38999 Series I

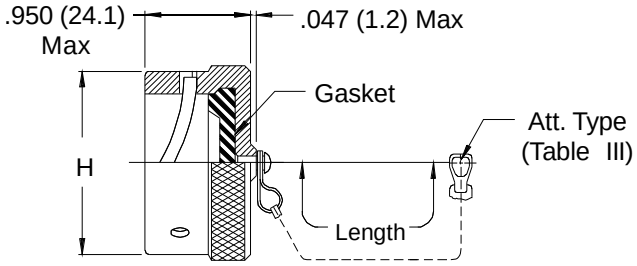
MIL-C-38999 Series I

660-012 M 17 S 5 -04

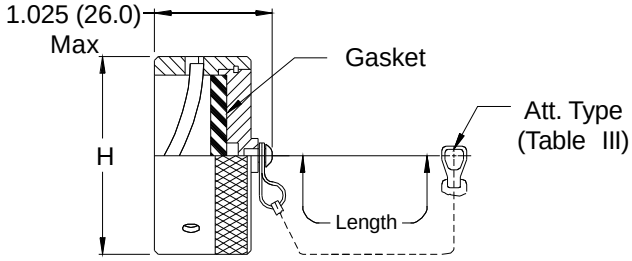
- 660-012 M 17 S 5 -04 — Basic Part No.
  - 660-012 Plug
  - 660-013 Receptacle
  - 661-002 Receptacle
- Finish (Table II)
- Shell Size (Table X)
- Attachment Type (Table III)
- Attachment Length (in inches)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)



660-012 Plug Cover



660-013 Receptacle Cover



661-002 EMI/RFI Receptacle Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size	F Dia	G Dia Max	H Max
09	.572 (14.5)	.820 (20.8)	.844 (21.4)
11	.700 (17.8)	.940 (23.9)	.968 (24.6)
13	.850 (21.6)	1.070 (27.2)	1.125 (28.6)
15	.975 (24.8)	1.190 (30.2)	1.250 (31.8)
17	1.100 (27.9)	1.320 (33.5)	1.406 (35.7)
19	1.207 (30.7)	1.440 (36.6)	1.500 (38.1)
21	1.332 (33.8)	1.570 (39.9)	1.625 (41.3)
23	1.457 (37.0)	1.690 (42.9)	1.750 (44.5)
25	1.582 (40.2)	1.820 (46.2)	1.875 (47.6)

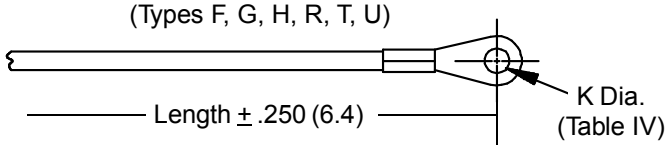
See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

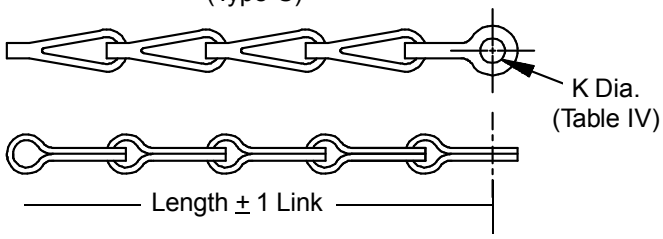
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660-012 (Plug) - 660-013 (Receptacle)
661-002 (EMI Receptacle)
Protective Covers
MIL-C-38999 Series I

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

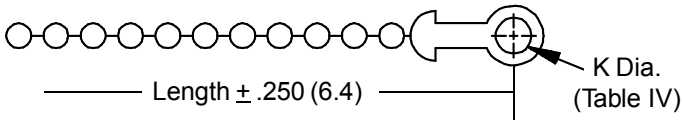


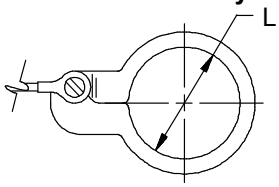
TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

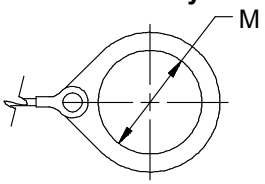
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

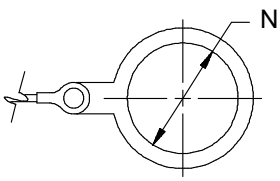


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

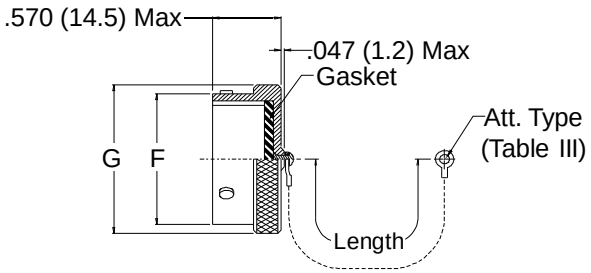
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660-014 (Plug) - 660-015 (Receptacle)
661-003 (EMI Receptacle)
Protective Covers
MIL-C-38999 Series II

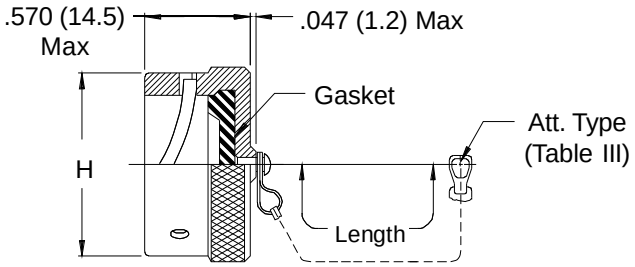
MIL-C-38999 Series II

660-014 G 16 S 5 -04

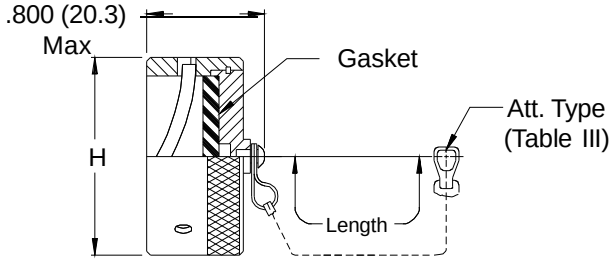
- Basic Part No.
  - 660-014 Plug
  - 660-015 Receptacle
  - 661-003 Receptacle
- Finish (Table II)
- Shell Size (Table X)
- Attachment Type (Table III)
- Attachment Length (in inches)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)



660-014 Plug Cover



660-015 Receptacle Cover



661-003 EMI/RFI Receptacle Cover

TABLE X: SHELL SIZE DIMINSIONS

Shell Size	F Dia	G Dia Max	H Dia Max
08	.473 (12.0)	.720 (18.3)	.719 (18.3)
10	.590 (15.0)	.850 (21.6)	.812 (20.6)
12	.750 (19.1)	1.000 (25.4)	1.000 (25.4)
14	.875 (22.2)	1.130 (28.7)	1.125 (28.6)
16	1.000 (25.4)	1.250 (31.8)	1.250 (31.8)
18	1.125 (28.6)	1.380 (35.1)	1.375 (34.9)
20	1.250 (31.8)	1.500 (38.1)	1.500 (38.1)
22	1.375 (34.9)	1.630 (41.4)	1.625 (41.3)
24	1.500 (38.1)	1.750 (44.5)	1.750 (44.5)

See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

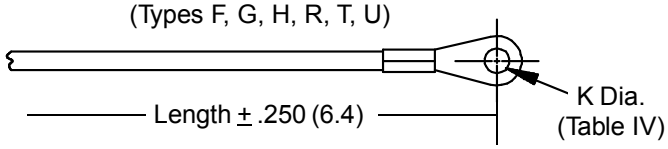
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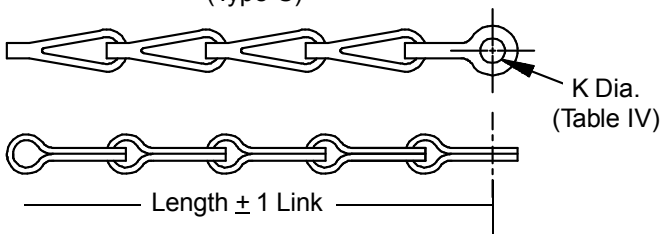
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660-014 (Plug) - 660-015 (Receptacle)
661-003 (EMI Receptacle)
Protective Covers
MIL-C-38999 Series II

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

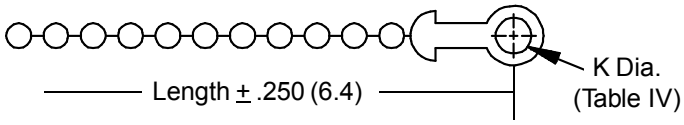


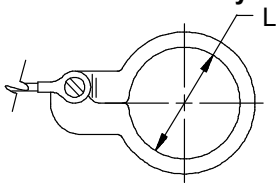
TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

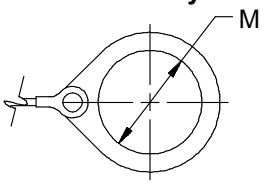
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

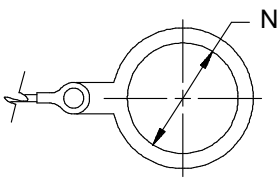


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

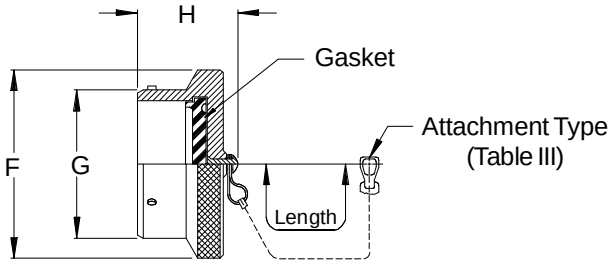
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660-016 (Plug) - 660-017 (Plug)
660-018 (Receptacle) - 661-004 (EMI Receptacle)
Protective Covers
MIL-C-81511

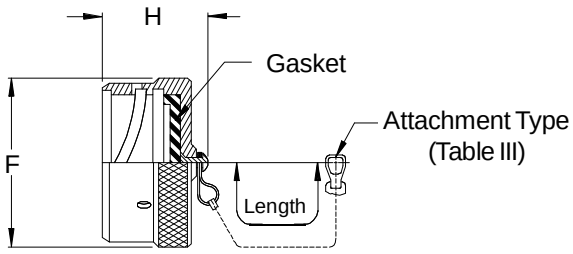
MIL-C-81511

660-016 M 20 S 5 -04

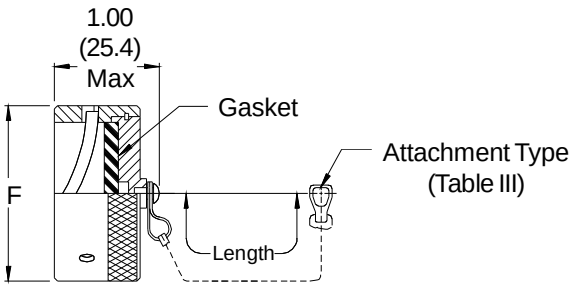
- Basic Part No.
  - 660-016 Plug
  - 660-017 Plug
  - 660-018 Receptacle
  - 661-004 Receptacle
- Finish (Table II)
- Shell Size (Table X)
- Attachment Type (Table III)
- Attachment Length (in inches)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)



660-016 Plug Cover - Series 1 & 3 (100% Scoop Proof)
660-017 Plug Cover - Series 2 & 4 (50% Scoop Proof)



660-018 Receptacle Cover



661-004 EMI/RFI Receptacle Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size	F Dia Max		G Dia Max		H Max Series I & III		H Max Series II & IV	
08	.845	(21.5)	.553	(14.0)	1.125	(28.6)	.985	(25.0)
10	.970	(24.6)	.678	(17.2)	1.125	(28.6)	.985	(25.0)
14	1.220	(31.0)	.928	(23.6)	1.125	(28.6)	.985	(25.0)
16	1.345	(34.2)	1.054	(26.8)	1.125	(28.6)	.985	(25.0)
18	1.470	(37.3)	1.178	(29.9)	1.125	(28.6)	.985	(25.0)
20	1.595	(40.5)	1.303	(33.1)	1.125	(28.6)		
22	1.720	(43.7)	1.428	(36.3)	1.125	(28.6)		
24	1.845	(46.9)	1.553	(39.4)	1.125	(28.6)		

See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

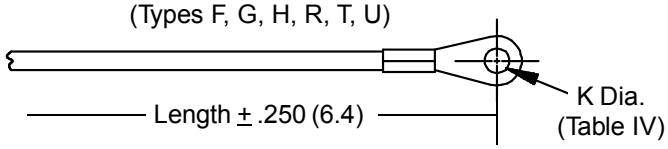
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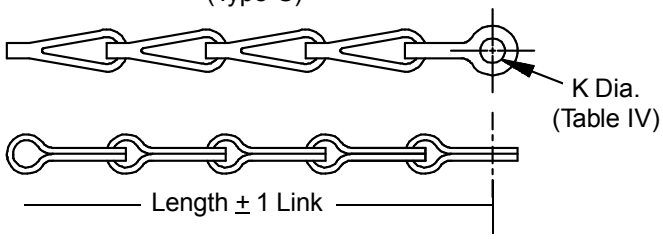
Printed in U.S.A.

660-016 (Plug) - 660-017 (Plug)
660-018 (Receptacle) - 661-004 (EMI Receptacle)
Protective Covers
MIL-C-81511

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

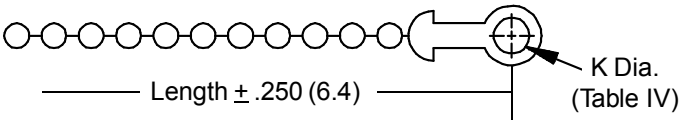


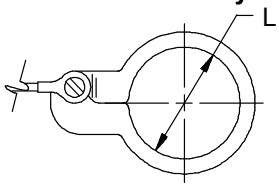
TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

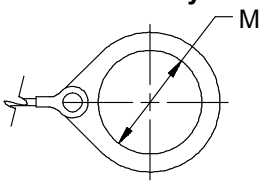
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

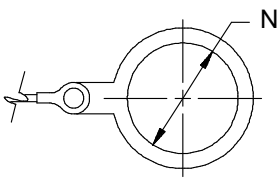


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

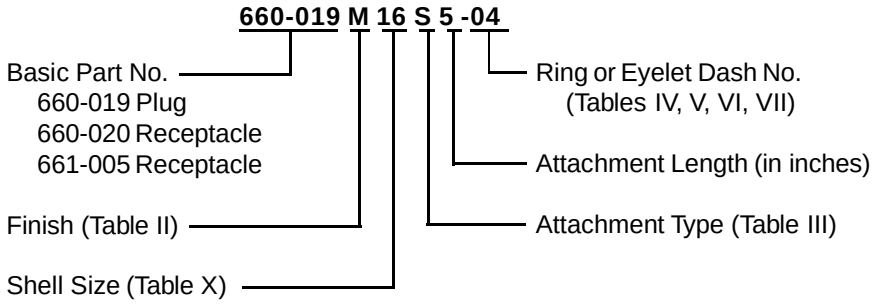
TABLE VII: SOLID RING STYLE A

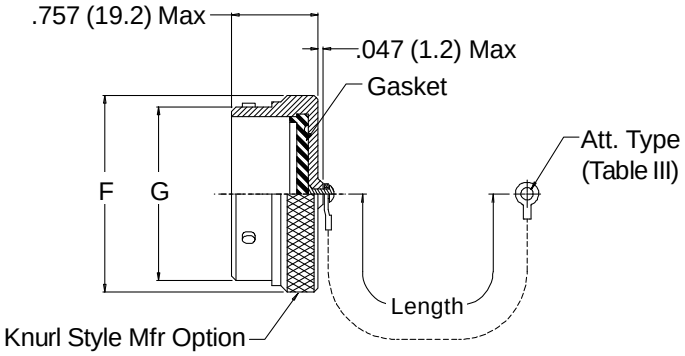
Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

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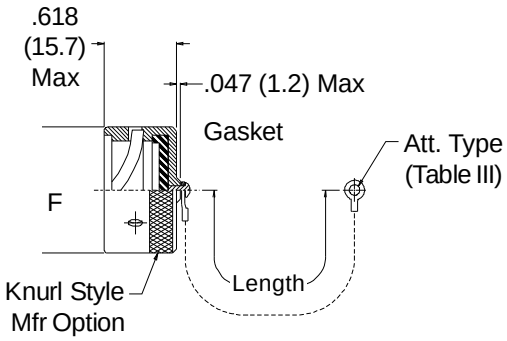
660-019 (Plug) - 660-020 (Receptacle)
661-005 (EMI Receptacle)
Protective Covers
MIL-C-83723 Series III Bayonet

MIL-C-83723 Series III Bayonet

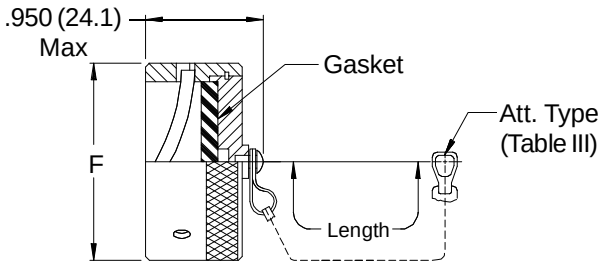




660-019 Plug Cover



660-020 Receptacle Cover



661-005 EMI/RFI Receptacle Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size	F Dia Max		G Dia	
08	.776	(19.7)	.536	(13.6)
10	.906	(23.0)	.659	(16.7)
12	1.078	(27.4)	.829	(21.1)
14	1.141	(29.0)	.898	(22.8)
16	1.266	(32.2)	1.025	(26.0)
18	1.375	(34.9)	1.131	(28.7)
20	1.510	(38.4)	1.256	(31.9)
22	1.625	(41.3)	1.381	(35.1)
24	1.760	(44.7)	1.506	(38.3)

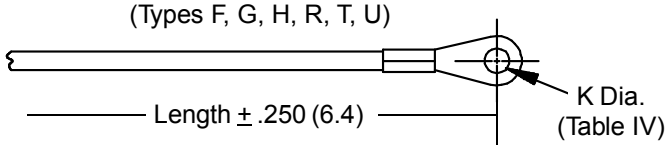
See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

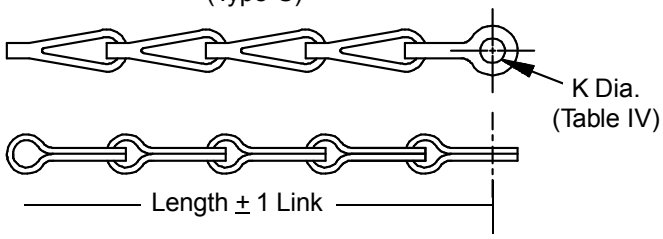
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660-019 (Plug) - 660-020 (Receptacle)
661-005 (EMI Receptacle)
Protective Covers
MIL-C-83723 Series III Bayonet

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

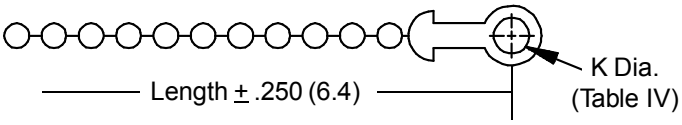


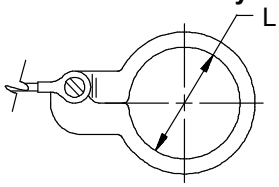
TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

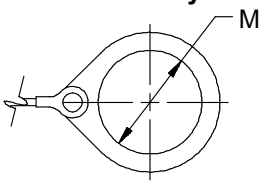
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

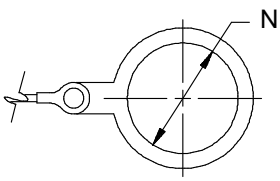


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

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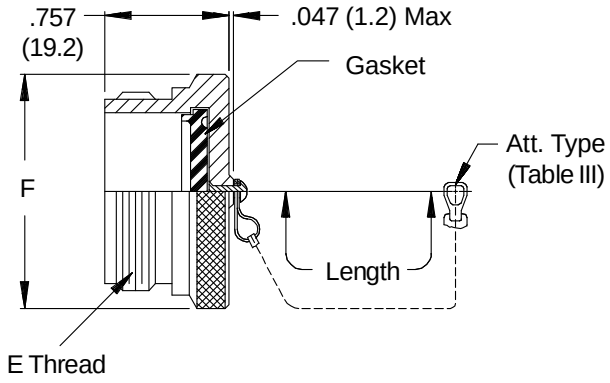
660-021 (Plug) - 660-022 (Receptacle) Protective Covers

MIL-C-83723 Series III Threaded

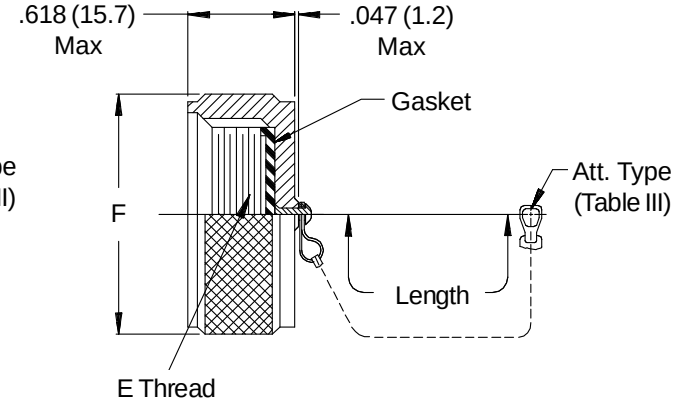
MIL-C-83723 Series III Threaded

660-021 M 14 S 5 -04

- Basic Part No.
  - 660-021 Plug
  - 660-022 Receptacle
- Finish (Table II)
- Shell Size (Table X)
- Attachment Type (Table III)
- Attachment Length (in inches)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)



660-021 Plug Cover



660-022 Receptacle Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size	E Thread Class 2A/2B	F Dia Max
08	9/16 - 24 UNEF	.776 (19.7)
10	11/16 - 24 UNEF	.906 (23.0)
12	7/8 - 20 UNEF	1.078 (27.4)
14	15/16 - 20 UNEF	1.141 (29.0)
16	1 1/16 - 18 UNEF	1.266 (32.2)
18	1 3/16 - 18 UNEF	1.375 (34.9)
20	1 5/16 - 18 UNEF	1.510 (38.4)
22	1 7/16 - 18 UNEF	1.625 (41.3)
24	1 9/16 - 18 UNEF	1.760 (44.7)

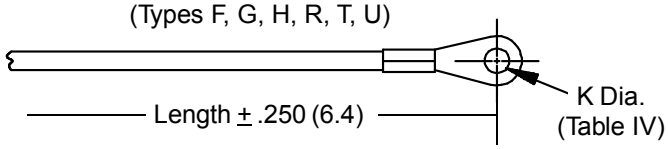
See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

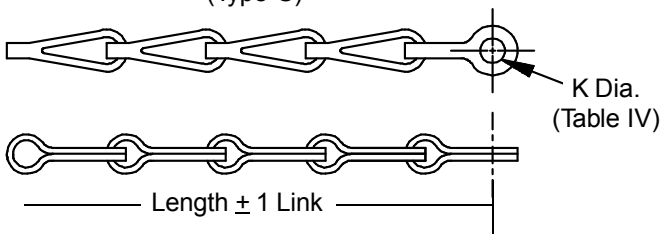
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660-021 (Plug) - 660-022 (Receptacle)
Protective Covers
MIL-C-83723 Series III Threaded

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

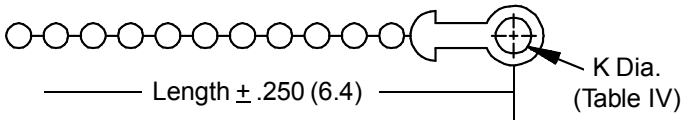


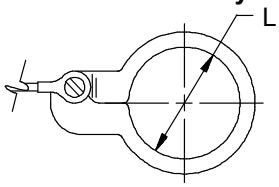
TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

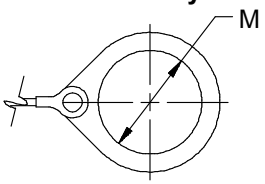
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

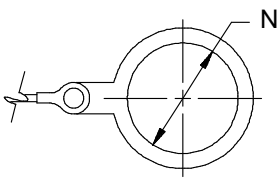


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

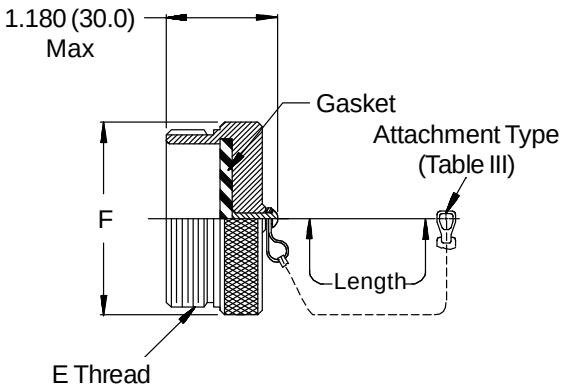
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660-023 (Plug) - 660-024 (Receptacle)
Protective Covers
MIL-C-38999 Series III Threaded

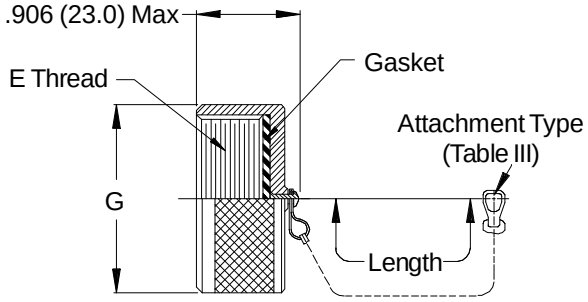
MIL-C-38999 Series III

660-023 M 15 S 5 -04

- Basic Part No.: 660-023 Plug, 660-024 Receptacle
- Finish (Table II)
- Shell Size (Table X)
- Attachment Type (Table III)
- Attachment Length (in inches)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)



660-023 Plug Cover



660-024 Receptacle Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size	Shell Size Code Ref.	E Thread	F Max	G Max
09	A	.6250-0.1P-0.3L-TS	.906 (23.0)	.906 (23.0)
11	B	.7500-0.1P-0.3L-TS	1.024 (26.0)	1.102 (28.0)
13	C	.8750-0.1P-0.3L-TS	1.220 (31.0)	1.220 (31.0)
15	D	1.0000-0.1P-0.3L-TS	1.300 (33.0)	1.260 (32.0)
17	E	1.1875-0.1P-0.3L-TS	1.457 (37.0)	1.457 (37.0)
19	F	1.2500-0.1P-0.3L-TS	1.575 (40.0)	1.535 (39.0)
21	G	1.3750-0.1P-0.3L-TS	1.732 (44.0)	1.654 (42.0)
23	H	1.5000-0.1P-0.3L-TS	1.811 (46.0)	1.772 (45.0)
25	J	1.6250-0.1P-0.3L-TS	1.969 (50.0)	1.929 (49.0)

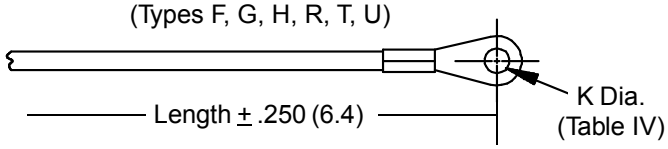
See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.

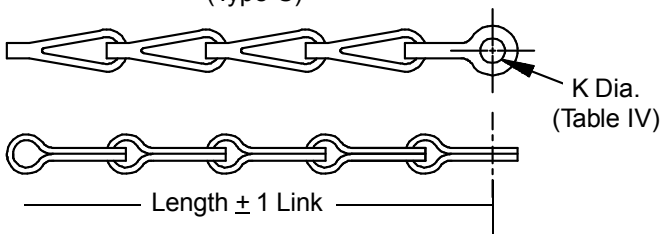
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660-023 (Plug) - 660-024 (Receptacle)
Protective Covers
MIL-C-38999 Series III Threaded

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

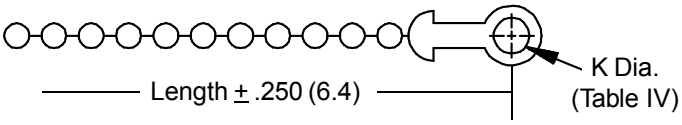


TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Fluoropolymer Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C

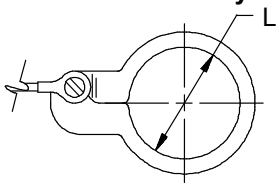


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

SOLID RING - Style B

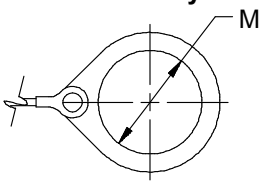


TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

SOLID RING - Style A

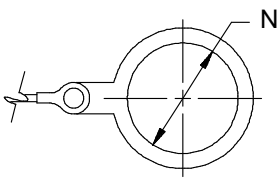


TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.438	(36.5)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

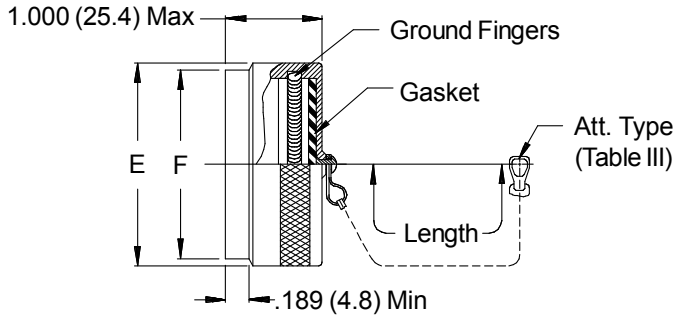
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660-031 (Receptacle) - 660-032 (Plug) Protective Covers
MIL-C-38999 Series IV

MIL-C-38999 Series IV

660-031 M 19 S 6 -01 G

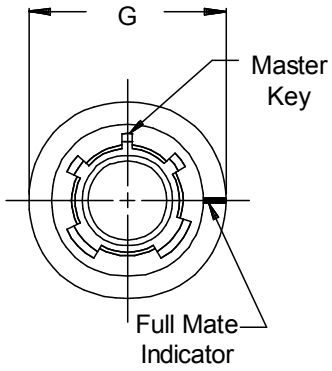
- Basic Part No.: 660-031 Receptacle, 660-032 Plug
- Finish (Table II)
- Shell Size (Table X)
- Attachment Type (Table III)
- Attachment Length (in inches)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)
- Ground Spring (Omit for None)

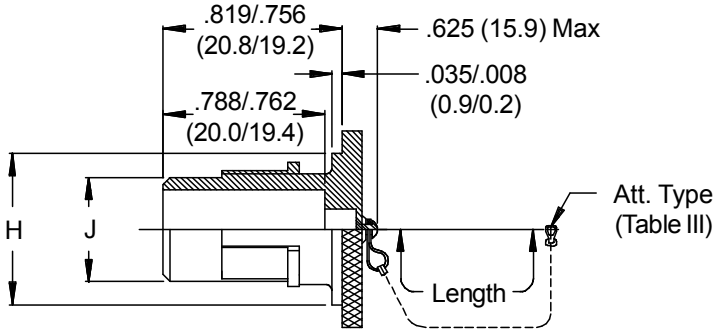


660-031 Receptacle Cover

See inside back cover fold-out or page 14 for Table II.

Metric dimensions (mm) are indicated in parentheses.





660-032 Plug Cover

TABLE X: SHELL SIZE DIMENSIONS

Shell Size	Shell Size Code Ref.	E Dia Max	F Dia Max	G Dia Max	H Dia +.0 -.015 (+0.0) (-0.4)	J Dia +.0 -.015 (+0.0) (-0.4)
11	B	.875 (22.2)	.775 (19.7)	1.180 (30.0)	.793 (20.1)	.509 (12.9)
13	C	1.000 (25.4)	.901 (22.9)	1.320 (33.5)	.919 (23.3)	.634 (16.1)
15	D	1.125 (28.6)	1.039 (26.4)	1.440 (36.6)	1.044 (26.5)	.759 (19.3)
17	E	1.250 (31.8)	1.150 (29.2)	1.560 (39.6)	1.170 (29.7)	.885 (22.5)
19	F	1.375 (34.9)	1.276 (32.4)	1.680 (42.7)	1.294 (32.9)	1.009 (25.6)
21	G	1.500 (38.1)	1.402 (35.6)	1.820 (46.2)	1.419 (36.0)	1.134 (28.8)
23	H	1.625 (41.3)	1.528 (38.8)	1.940 (49.3)	1.544 (39.2)	1.259 (32.0)
25	J	1.750 (44.5)	1.650 (41.9)	2.060 (52.3)	1.669 (42.4)	1.384 (35.2)

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667-118
Protective Receptacle Cover
for MIL-DTL-5015 Series Connectors with Anti-Decoupling Device

Basic Part Number	Attachment Type	Ring Style Dash Number		
667-118 - Protective Cover	*See Table III*	*See Tables IV, V, VI and VII on Series 66 and 78 - Page 24*		
667-118	**16**	**R**	**6**	**01**
	Connector Shell Size (*See Table I*)		**Attachment Length** (*In Inches*)	

B

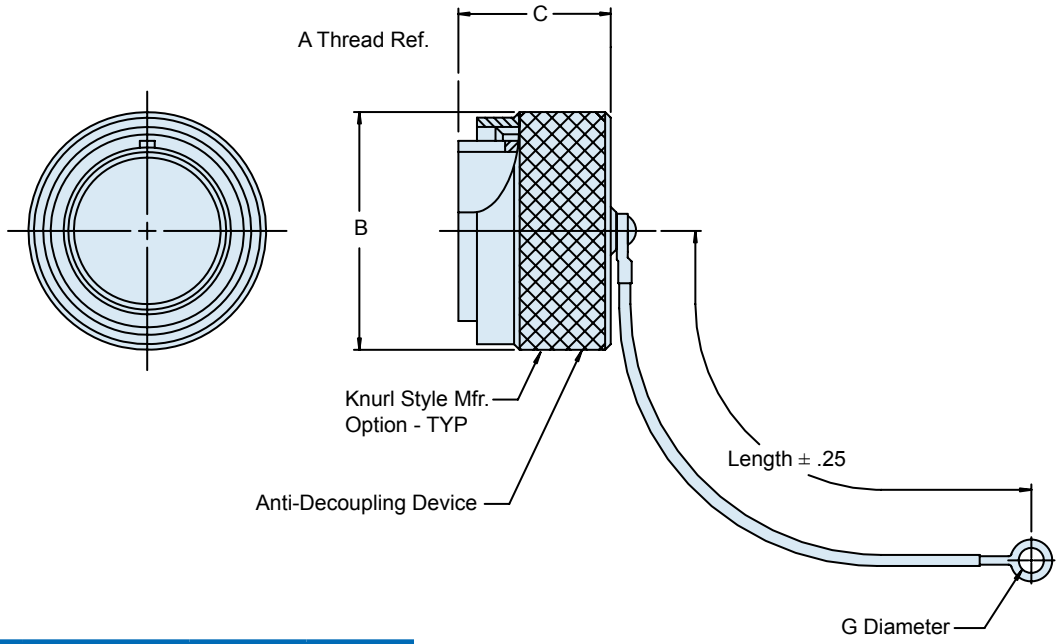


TABLE I: CONNECTOR SHELL SIZE

Shell Size	A Thread	B Max	C Max
08	1/2-28	.844	1.13
10	5/8-24	.969	
12	3/4-20	1.062	
14	7/8-20	1.156	
16	1-20	1.250	
18	1 1/8-18	1.344	
20	1 1/4-18	1.469	
22	1 3/8-18	1.549	
24	1 1/2-18	1.719	
28	1 3/4-18	1.969	

TABLE III: ATTACHMENT

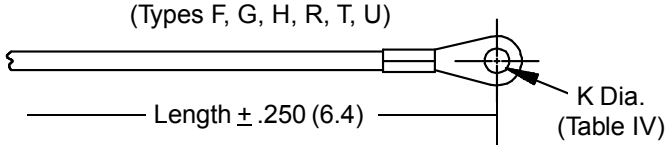
Symbol	Attachment
F	Wire Rope, Nylon Jacket w/ Terminal
G	.094 Diameter Nylon Cord (black) w/ Loop Ends
H	Wire Rope, Teflon Jacket w/ Terminal
N	Attachment Omitted
R	Wire Rope, PVC Jacket w/ Terminal
T	Wire Rope, NO Jacket, w/ Terminal
K	Nylon Rope

Metric dimensions (mm) are in parentheses and are for reference only.

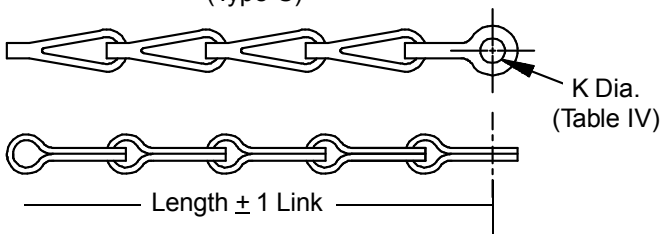
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660-031 (Receptacle) - 660-032 (Plug)
Protective Covers
MIL-C-38999 Series IV

ROPE
(Types F, G, H, R, T, U)



SASH CHAIN
(Type S)



BEAD CHAIN
(Type D)

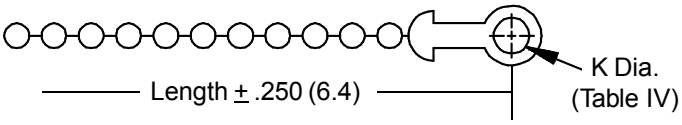


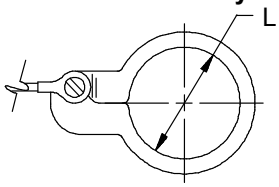
TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Teflon Jacket
N	No Attachment
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

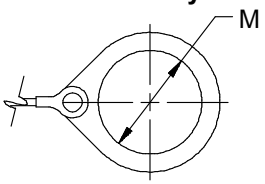
TABLE IV: EYELET

Dash No.	K DIA ±.010	(0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

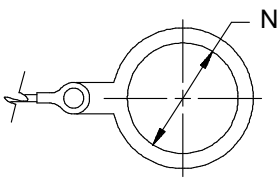


TABLE V: SPLIT RING STYLE C

Dash No.	L Dia. ±.015	(0.4)	Dash No.	L Dia. ±.015	(0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

TABLE VI: SOLID RING STYLE B

Dash No.	M Dia. ±.015	(0.4)	Dash No.	M Dia. ±.015	(0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
12	.718	(18.2)	27	1.640	(41.7)
13	.765	(19.4)	28	1.687	(42.8)
14	.844	(21.4)	29	1.765	(44.8)
15	.890	(22.6)	30	1.890	(48.0)
16	.968	(24.6)	31	1.953	(49.6)
17	1.015	(25.8)	32	1.968	(50.0)
18	1.093	(27.8)	33	2.077	(52.8)
19	1.140	(29.0)	35	2.140	(54.4)
20	1.203	(30.6)	36	2.187	(55.5)
21	1.265	(32.1)	40	2.406	(61.1)
22	1.343	(34.1)	44	2.656	(67.5)
23	1.453	(36.9)	48	3.031	(77.0)
			118	.310	(7.9)

TABLE VII: SOLID RING STYLE A

Dash No.	N Dia. ±.015	(0.4)	Dash No.	N Dia. ±.015	(0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

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780-001 (Plug)
"Mr. Bean" Protective Rubber Covers
Universal Circular

MIL-C-38999 Series I, II, III

MIL-DTL-5015

MIL-C-26482 SERIES I AND II

MIL-DTL-83723 SERIES III

MIL-C-81511 SERIES I, II, III AND IV

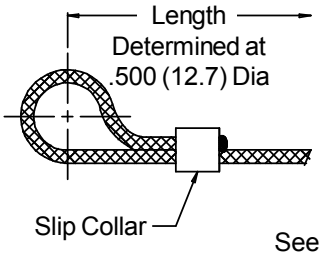
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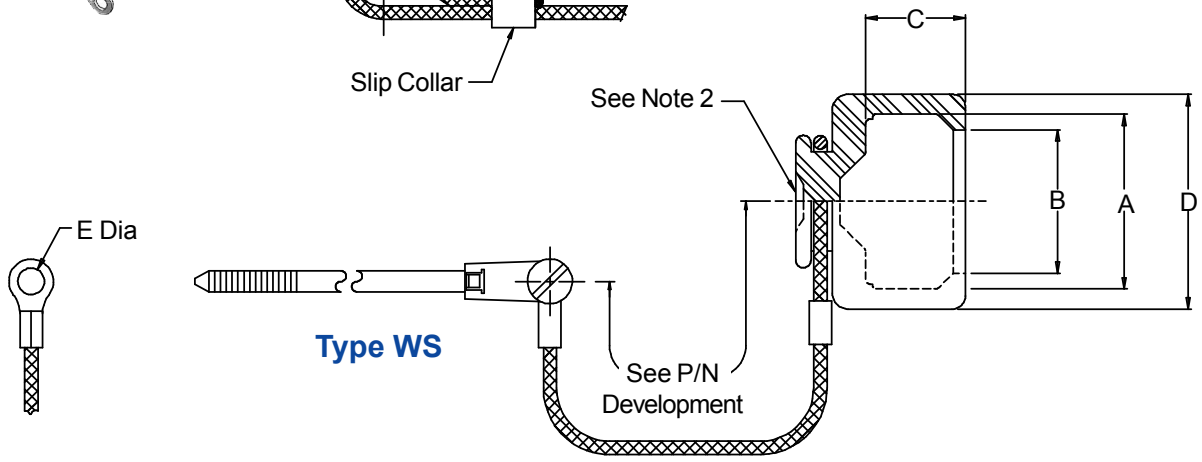
780-001-16 G 12-03 C

- Product Series
- Basic No.
- Dash No. (Table I)
- G = Nylon Rope Attachment (Omit for None)
- Attachment Length (Inches) ±1.000 (25.4)
- Dash No. (Table II)
- C = Conductive (Omit for Standard)



Type SK





NOTES:

1. Metric dimensions (mm) are indicated in parentheses.
2. This series of covers is similar to Bean Rubber BP Series, Same Dash No., ie: BP-16-WC equivalent to 780-001-16G12-09.
3. Standard material contains trace amounts of sulfur (a vulcanizing agent) which is known to contribute to degradation/corrosion of silver plated components such as braid, etc. Specify MOD Code suffix -675 for sulfur-free material.



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780-001 (Plug)
"Mr. Bean" Protective Rubber Covers
Universal Circular

TABLE I: COVER DIMENSIONS

Dash No.	A Dia	B Dia	C Dim	D Dim
07	.440 (11.2)	.380 (9.7)	1.000 (25.4)	1.250 (31.8)
08	.780 (19.8)	.560 (14.2)	1.000 (25.4)	1.150 (29.2)
09	.850 (21.6)	.650 (16.5)	1.000 (25.4)	1.250 (31.8)
10	.890 (22.6)	.680 (17.3)	1.000 (25.4)	1.250 (31.8)
11	1.050 (26.7)	.830 (21.1)	1.000 (25.4)	1.560 (39.6)
12	1.060 (26.9)	.840 (21.3)	1.000 (25.4)	1.560 (39.6)
13	1.220 (31.0)	1.000 (25.4)	1.000 (25.4)	1.680 (42.7)
14	1.180 (30.0)	.960 (24.4)	1.000 (25.4)	1.680 (42.7)
15	1.350 (34.3)	1.130 (28.7)	1.000 (25.4)	1.810 (46.0)
16	1.310 (33.3)	1.090 (27.7)	1.000 (25.4)	1.810 (46.0)
17	1.480 (37.6)	1.260 (32.0)	1.000 (25.4)	2.040 (51.8)
18	1.420 (36.1)	1.170 (29.7)	1.000 (25.4)	2.040 (51.8)
19	1.580 (40.1)	1.360 (34.5)	1.250 (31.8)	2.180 (55.4)
20	1.560 (39.6)	1.340 (34.0)	1.250 (31.8)	2.180 (55.4)
21	1.710 (43.4)	1.490 (37.9)	1.250 (31.8)	2.310 (58.7)
22	1.680 (42.7)	1.440 (36.6)	1.250 (31.8)	2.310 (58.7)
23	1.830 (46.5)	1.610 (40.9)	1.250 (31.8)	2.430 (61.7)
24	1.800 (45.7)	1.590 (40.4)	1.250 (31.8)	2.430 (61.7)
25	1.960 (49.8)	1.740 (44.2)	1.250 (31.8)	2.680 (68.1)
26	1.900 (48.3)	1.730 (43.9)	1.250 (31.8)	2.680 (68.1)
27	2.160 (54.9)	1.750 (44.5)	1.250 (31.8)	2.680 (68.1)
28	2.060 (52.3)	1.840 (46.7)	1.250 (31.8)	2.680 (68.1)
32	2.310 (58.7)	2.130 (54.1)	1.250 (31.8)	2.680 (68.1)
36	2.560 (65.0)	2.320 (58.9)	1.250 (31.8)	3.180 (80.8)
38	2.760 (70.1)	2.500 (63.5)	1.250 (31.8)	3.200 (81.3)
40	2.810 (71.4)	2.580 (65.5)	1.250 (31.8)	3.480 (88.4)
44	3.060 (77.7)	2.840 (72.1)	1.560 (39.6)	3.580 (90.9)
48	3.310 (84.1)	3.090 (78.5)	1.560 (39.6)	3.870 (98.3)
50	3.000 (76.2)	2.870 (72.9)	1.560 (39.6)	3.570 (90.7)
52	3.750 (95.3)	3.460 (87.9)	1.300 (33.0)	4.270 (108.5)
-SADWG	.430 (10.9)	.360 (9.1)	.430 (10.9)	.750 (19.1)

TABLE II: ATTACHMENT

Dash No.	E Dia ±.010 (0.3)
00	No Terminal
01	.140 (3.6)
02	.182 (4.6)
03	.191 (4.9)
04	.197 (5.0)
05	.167 (4.2)
06	.125 (3.2)
07	.218 (5.5)
09	.156 (4.0)
WS	With Strap
SK	Slip Knot

Metric dimensions (mm) are indicated in parentheses.

TABLE III: CONNECTOR APPLICATION REFERENCE

Dash No.	MIL-DTL-5015	MIL-C-26482 Series I & II	MIL-DTL-38999 Series I	MIL-DTL-38999 Series II	MIL-DTL-38999 Series III	MIL-DTL-83723 Series III Bayonet	MIL-DTL-83723 Series III Threaded	MIL-C-81511 Series I, II, III, IV	MIL-C-28840
08		8		8		8	8		
09	8 & 8S							8	
10		10		10	9	10	10		
11	10S, 10 SL		9		11			10	A (11)
12	12, 12S	12	11	12		12	12		
13								14	B (13)
14	14, 14S	14		14	13	14	14		
15	18		13					16	C (15)
16	16, 16S	16		16	15	16	16		
17	20		15					18	D (17)
18		18		18	17	18	18		
19	22		17						E (19)
20		20		20	19	20	20		F (23)
21	24		19						
22		22		22	21	22	22	20	G (25)
23			21						
24		24		24	23	24	24	22	
25	28		23						
26					25			24	H (29)
27			25						J (33)
32	32								
36	36								
38	40								
48	48								
50	44								

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780-002 (Receptacle)
Mr. Bean Protective Rubber Covers
Universal Circular

MIL-C-38999
Series I, II, III

MIL-DTL-5015

MIL-C-26482
SERIES I AND II

MIL-DTL-83723
SERIES III

MIL-C-81511
SERIES I, II, III AND IV

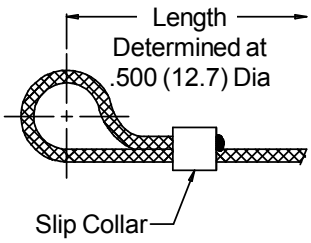
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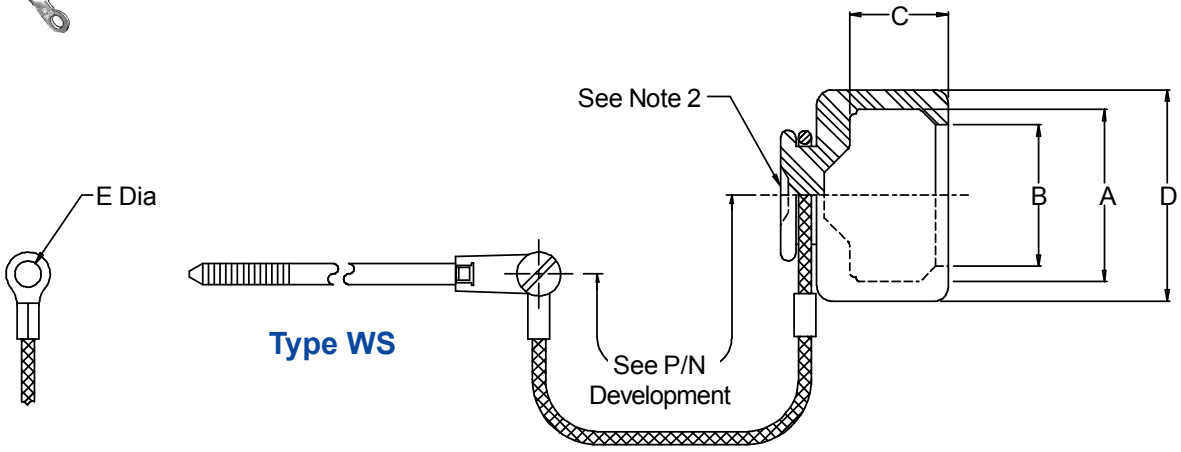
780-002-16 G 12-03 C

- Product Series
- Basic No.
- Dash No. (Table I)
- G = Nylon Rope Attachment (Omit for None)
- Attachment Length (Inches) ±1.000 (25.4)
- Dash No. (Table II)
- C = Conductive (Omit for Standard)



Type SK





NOTES:

1. Metric dimensions (mm) are indicated in parentheses.
2. This series of covers is similar to Bean Rubber BP Series, Same Dash No., ie: BP-16-W equivalent to 780-002-16G12-09.
3. Standard material contains trace amounts of sulfur (a vulcanizing agent) which is known to contribute to degradation/corrosion of silver plated components such as braid, etc. Specify MOD Code suffix -675 for sulfur-free material.



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780-002 (Receptacle)
Mr. Bean Protective Rubber Covers
Universal Circular

TABLE I: COVER DIMENSIONS

Dash No.	A Dia	B Dia	C Dim	D Dim	Bean Rubber Mfg Cross Ref No.
01	.160 (4.1)	N/A.220	.400 (10.2)	.750 (19.1)	N/A
02	.240 (6.1)	(5.6)	.400 (10.2)	.750 (19.1)	N/A
03	.320 (8.1)	.250 (6.4)	.300 (7.6)	.750 (19.1)	BP-3
04	.420 (10.7)	.390 (9.9)	.630 (16.0)	.750 (19.1)	BP-4
05	.370 (9.4)	.330 (8.4)	.500 (12.7)	.750 (19.1)	N/A
06	.470 (11.9)	.440 (11.2)	.630 (16.0)	.750 (19.1)	BP-6
07	.780 (19.8)	.560 (14.2)	.630 (16.0)	1.150 (29.2)	SBP-7
08	.780 (19.8)	.560 (14.2)	.630 (16.0)	1.150 (29.2)	SBP-8
09	.850 (21.6)	.650 (16.5)	.630 (16.0)	1.250 (31.8)	SBP-9
10	.890 (22.6)	.680 (17.3)	.630 (16.0)	1.250 (31.8)	SBP-10
11	1.050 (26.7)	.830 (21.1)	.630 (16.0)	1.560 (39.6)	SBP-11
12	1.060 (26.9)	.840 (21.3)	.630 (16.0)	1.560 (39.6)	SBP-12
13	1.220 (31.0)	1.000 (25.4)	.630 (16.0)	1.680 (42.7)	SBP-13
14	1.180 (30.0)	.960 (24.4)	.630 (16.0)	1.680 (42.7)	SBP-14
15	1.350 (34.3)	1.130 (28.7)	.630 (16.0)	1.810 (46.0)	SBP-15
16	1.310 (33.3)	1.090 (27.7)	.630 (16.0)	1.810 (46.0)	SBP-16
17	1.480 (37.6)	1.260 (32.0)	.630 (16.0)	2.040 (51.8)	SBP-17
18	1.420 (36.1)	1.210 (30.7)	.630 (16.0)	2.040 (51.8)	SBP-18
19	1.560 (39.7)	1.340 (34.0)	.630 (16.0)	2.150 (54.6)	SBP-19
20	1.560 (39.7)	1.340 (34.0)	.630 (16.0)	2.180 (55.4)	SBP-20
21	1.680 (42.7)	1.460 (37.1)	.630 (16.0)	2.310 (58.7)	SBP-21
22	1.680 (42.7)	1.460 (37.1)	.630 (16.0)	2.310 (58.7)	SBP-22
23	1.800 (45.7)	1.590 (40.4)	.690 (17.5)	2.430 (61.7)	SBP-23
24	1.800 (45.7)	1.590 (40.4)	.690 (17.5)	2.430 (61.7)	SBP-24
25	1.960 (49.8)	1.740 (44.2)	.690 (17.5)	2.580 (65.5)	SBP-25
26	1.900 (48.3)	1.710 (43.4)	.690 (17.5)	2.640 (67.1)	SBP-26
27	2.160 (54.9)	1.750 (44.5)	.690 (17.5)	2.580 (65.5)	SBP-27
28	2.050 (52.1)	1.580 (40.1)	.630 (16.0)	3.300 (83.8)	SBP-28
32	2.310 (58.7)	2.130 (54.1)	TBD	2.980 (75.7)	N/A
36	2.560 (65.0)	2.320 (58.9)	TBD	3.180 (80.8)	N/A
40	2.810 (71.4)	2.590 (65.8)	.690 (17.5)	3.430 (87.1)	SBP-40
50	3.000 (76.2)	2.870 (72.9)	TBD	3.570 (90.7)	N/A
12JA	.980 (24.9)	.840 (21.3)	.630 (16.0)	1.250 (31.8)	SBP-12JA

TABLE II: ATTACHMENT

Dash No.	E Dia ±.010 (0.3)
00	No Terminal
01	.140 (3.6)
02	.182 (4.6)
03	.191 (4.9)
04	.197 (5.0)
05	.167 (4.2)
06	.125 (3.2)
07	.218 (5.5)
09	.156 (4.0)
WS	With Strap
SK	Slip Knot

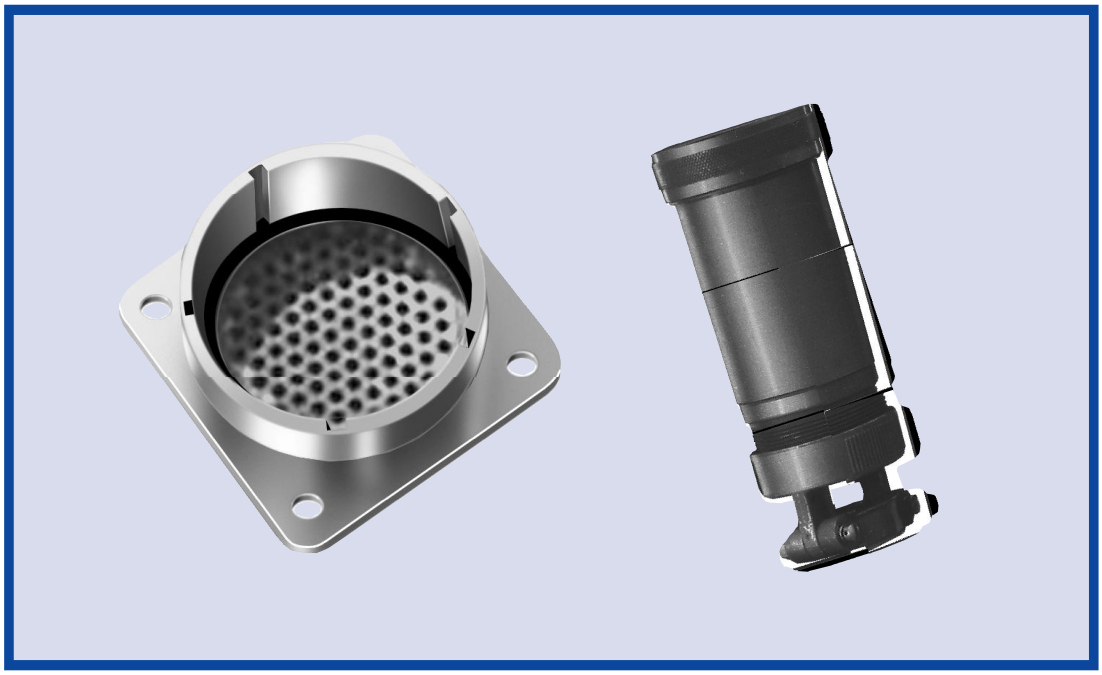
Metric dimensions (mm) are indicated in parentheses.

TABLE TABLE III: CONNECTOR APPLICATION REFERENCE

Dash No.	MIL-DTL-5015	MIL-C-26482 Series I & II	MIL-DTL-38999 Series I	MIL-DTL-38999 Series II	MIL-DTL-38999 Series III	MIL-DTL-83723 Series III Bayonet	MIL-DTL-83723 Series III Threaded	MIL-C-81511 Series I, II, III, IV	MIL-C-28840
04	8 & 8S	8		8					
06		10	9	10		8	8	8	
08	10S, 10 SL		11		9	10	10	10	
09	12, 12S	12		12	11				A (11)
10			13						
11	14, 14S	14		14	13	12	12	14	B (13)
12			15			14	14		
13	18	18	17	18					D (17)
14	16, 16S	16		16	15	16	16	16	C (15)
15	20	20		20	19				
16			19		17	18	18	18	
17	22	22		22	21				
18			21			20	20	20	E (19)
19	24			22					
20			23		23	22	22	22	
21					25				G (25)
22		24	25	24		24	24	24	F (239)
23	28								
26									H (21)
28	32								J (33)
32	36								
36	40								
40	44								
50	48								

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Shipboard Interconnect Requirements?



Glenair is MIL-C-28840 Qualified

The standard connector series for shipboard use, MIL-C-28840 offers high-density insert arrangement and high-shock performance. Glenair's qualified product line is now fully tooled and many popular part numbers are in stock, ready for same-day shipment. The MIL-C-28840 features RFI/EMI shielding, scoop-proof shells and corrosion-resistant materials and finishes. In addition to all the connector types and styles, Glenair makes all the backshell accessory slash numbers as well. The addition of the MIL-C-28840 connector product line is part of Glenair's total commitment to meeting all your shipboard interconnect requirements. So when you think M28840, think Glenair—from connectors to accessories. Please call the factory, or see our website, for order information .

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Glenair offers a broad choice of protective cover attachments.

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670-001
Protective Cover Attachments

670-001 R 01 -104 -4.25

- Basic Part No.
- Attachment Type (Table III)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)
- Ring or Eyelet Dash No. (Tables IV, V, VI, VII)
- Attachment Length (in inches)

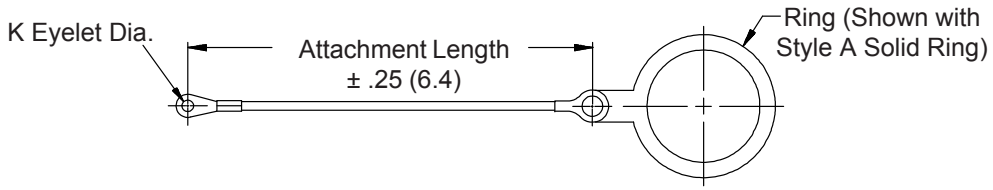


TABLE III: ATTACHMENT

Sym	Attachment Type
D	Bead Chain, Cres., Passivate
F	Wire Rope, Nylon Jacket
G	Nylon Rope
H	Wire Rope, Teflon Jacket
R	Wire Rope, PVC Jacket
S	#8 Sash Chain, Cres., Passivate
T	Wire Rope, No Jacket
U	Wire Rope, Polyurethane Jacket with Terminal

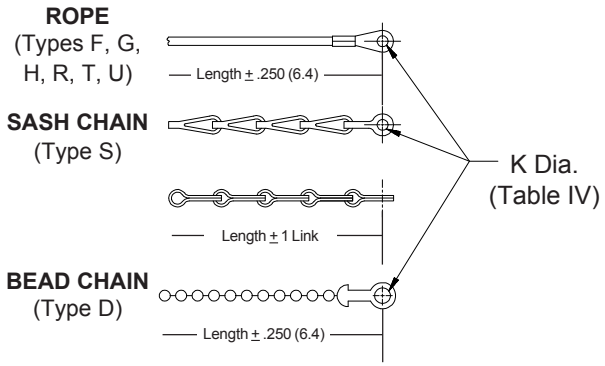
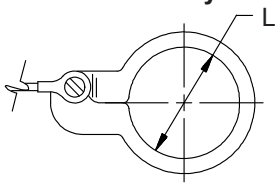


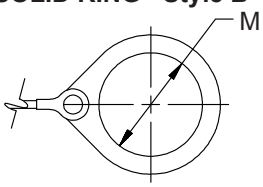
TABLE IV: EYELET

Dash No.	K DIA ±.010	K DIA (0.3)
01	.140	(3.6)
02	.182	(4.6)
03	.191	(4.9)
04	.197	(5.0)
05	.167	(4.2)
06	.125	(3.2)
07	.218	(5.5)
09	.156	(4.0)
00	No Eyelet	

SPLIT RING - Style C



SOLID RING - Style B



SOLID RING - Style A

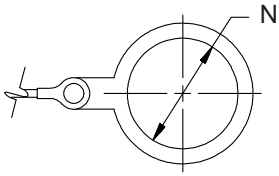


TABLE V: SPLIT RING

Dash No.	L Dia. ±.015	L Dia. (0.4)	Dash No.	L Dia. ±.015	L Dia. (0.4)
50	.425	(10.8)	74	1.625	(41.3)
52	.485	(12.3)	76	1.750	(44.5)
54	.640	(16.3)	78	1.875	(47.6)
56	.750	(19.1)	80	1.980	(50.3)
58	.890	(22.6)	82	2.060	(52.3)
60	1.015	(25.8)	84	2.235	(56.8)
62	1.095	(27.8)	86	2.310	(58.7)
64	1.130	(28.7)	88	2.475	(62.9)
66	1.250	(31.8)	90	2.655	(67.4)
68	1.350	(34.3)	92	2.810	(71.4)
70	1.390	(35.3)	94	3.045	(77.3)
72	1.485	(37.7)			

Metric dimensions (mm) are indicated in parentheses.

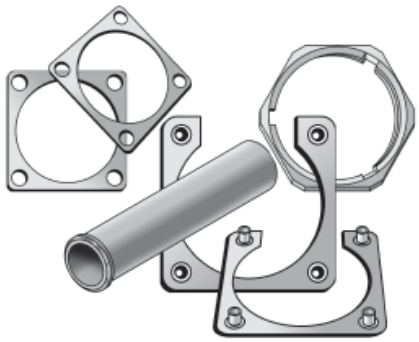
TABLE VI: SOLID RING TYPE B

Dash No.	M Dia. ±.015	M Dia. (0.4)	Dash No.	M Dia. ±.015	M Dia. (0.4)
08	.468	(11.9)	24	1.484	(37.7)
10	.593	(15.1)	25	1.577	(40.1)
11	.265	(6.73)	27	1.640	(41.7)
12	.718	(18.2)	28	1.687	(42.8)
13	.765	(19.4)	29	1.765	(44.8)
14	.844	(21.4)	30	1.890	(48.0)
15	.890	(22.6)	31	1.953	(49.6)
16	.968	(24.6)	32	1.968	(50.0)
17	1.015	(25.8)	33	2.077	(52.8)
18	1.093	(27.8)	35	2.140	(54.4)
19	1.140	(29.0)	36	2.187	(55.5)
20	1.203	(30.6)	40	2.406	(61.1)
21	1.265	(32.1)	44	2.656	(67.5)
22	1.343	(34.1)	48	3.031	(77.0)
23	1.453	(36.9)			

TABLE VII: SOLID RING TYPE A

Dash No.	N Dia. ±.015	N Dia. (0.4)	Dash No.	N Dia. ±.015	N Dia. (0.4)
095	.312	(7.9)	109	1.266	(32.2)
100	.391	(9.9)	209	1.312	(33.3)
101	.516	(13.1)	110	1.391	(35.3)
102	.583	(14.8)	210	1.438	(36.5)
103	.641	(16.3)	111	1.521	(38.6)
104	.708	(18.0)	211	1.536	(39.0)
105	.766	(19.5)	112	1.641	(41.7)
205	.788	(20.0)	113	1.766	(44.9)
106	.896	(22.2)	213	1.812	(46.0)
206	.907	(23.0)	114	1.891	(48.0)
107	1.016	(25.8)	214	1.938	(49.2)
207	1.025	(26.0)	115	2.078	(52.8)
108	1.141	(29.0)	116	2.406	(61.1)
308	1.188	(30.2)	117	2.510	(63.8)
208	1.203	(30.6)			

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PRODUCT TYPES

- Non-Metallic Protective Covers
- Gaskets and Nut-Plates
- Jam Nuts
- Banding Split Rings
- Potting Boots

Interconnect hardware for every application requirement

Essential commercial and military standard hardware

Can't find it anywhere else in the book? This section of the catalog includes miscellaneous accessories such as Jam Nuts, Potting Boots, Gaskets, Bushings and "Marshal Bean" Rubber Protective Covers for Circular Plug and Receptacle Connectors



Introducing Glenair "Mr. Bean" Protective Rubber Covers: Conductive and non-conductive rubber covers prevent finish damage between disengaged covers and equipment panels.

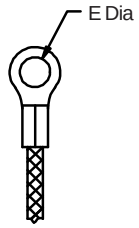
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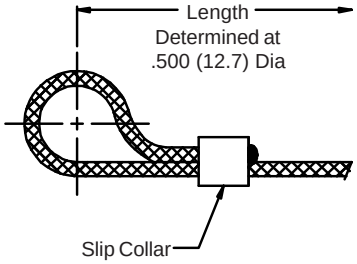
780-001
"Marshal Bean" Protective Rubber Cover for Circular Plug Connectors

780-001-16 G 12 - 03 C

- Product Series
- Basic Number
- Shell Size (Table I)
- Attachment Rope
  G = Nylon Rope
  (Omit for None)
- Attachment Length in Inches
  (± .250 [6.35] Inch)
- Attachment Type (Table II)
- C = Conductive
  (Omit for Standard)



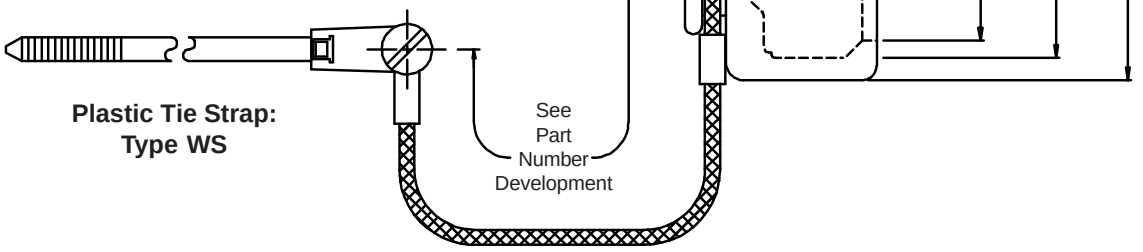
Eyelet



Slip Knot:Type SK



"To Protect and to Serve"



Plastic Tie Strap: Type WS

NOTES:

1. Cover identified in area shown.
2. Metric dimensions (mm) are indicated in parentheses.
3. This series of covers is similar to Bean Rubber Mfg. Co. BP Series, Same Dash Number, i.e.: BP-16-WC equivalent to 780-001-16G12-09.
4. Material/Finish: Cover - Neoprene/N.A.; Attachment - Nylon Cord/N.A.; Lanyard, Screw and Locknut - Cres/Passivated; Slip Bushing - Kynar/N.A.

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780-001
"Marshal Bean" Protective Rubber Cover for Circular Plug Connectors

TABLE I: SHELL SIZE

Shell Size	A Dia	B Dia	C Dim	D Dia
07	.440 (11.2)	.380 (9.7)	1.000 (25.4)	1.250 (31.8)
08	.780 (19.8)	.560 (14.2)	1.000 (25.4)	1.150 (29.2)
09	.850 (21.6)	.650 (16.5)	1.000 (25.4)	1.250 (31.8)
10	.890 (22.6)	.680 (17.3)	1.000 (25.4)	1.250 (31.8)
11	1.050 (26.7)	.830 (21.1)	1.000 (25.4)	1.560 (39.6)
12	1.060 (26.9)	.840 (21.3)	1.000 (25.4)	1.560 (39.6)
13	1.220 (31.0)	1.000 (25.4)	1.000 (25.4)	1.680 (42.7)
14	1.180 (30.0)	.960 (24.4)	1.000 (25.4)	1.680 (42.7)
15	1.350 (34.3)	1.130 (28.7)	1.000 (25.4)	1.810 (46.0)
16	1.310 (33.3)	1.090 (27.7)	1.000 (25.4)	1.810 (46.0)
17	1.480 (37.6)	1.260 (32.0)	1.000 (25.4)	2.040 (51.8)
18	1.420 (36.1)	1.170 (29.7)	1.000 (25.4)	2.040 (51.8)
19	1.580 (40.1)	1.360 (34.5)	1.250 (31.8)	2.180 (55.4)
20	1,560 (39.6)	1.340 (34.0)	1.250 (31.8)	2.180 (55.4)
21	1.710 (43.4)	1.490 (37.9)	1.250 (31.8)	2.310 (58.7)
22	1.680 (42.7)	1.440 (36.6)	1.250 (31.8)	2.310 (58.7)
23	1.830 (46.5)	1.610 (40.9)	1.250 (31.8)	2.430 (61.7)
24	1.800 (45.7)	1.590 (40.4)	1.250 (31.8)	2.430 (61.7)
25	1.960 (49.8)	1.740 (44.2)	1.250 (31.8)	2.680 (68.1)
26	1.900 (48.3)	1.730 (43.9)	1.250 (31.8)	2.680 (68.1)
27	2.160 (54.9)	1.750 (44.5)	1.250 (31.8)	2.680 (68.1)
28	2.060 (52.3)	1.840 (46.7)	1.250 (31.8)	2.680 (68.1)
32	2.310 (58.7)	2.130 (54.1)	1.250 (31.8)	2.980 (75.7)
36	2.560 (65.0)	2.320 (58.9)	1.250 (31.8)	3.180 (80.8)
37	2.810 (71.4)	2.320 (58.9)	1.250 (31.8)	3.180 (80.8)
38	2.760 (70.1)	2.500 (63.5)	1.250 (31.8)	3.200 (81.3)
40	2.810 (71.4)	2.580 (65.5)	1.250 (31.8)	3.480 (88.4)
44	3.060 (77.7)	2.840 (72.1)	1.560 (39.6)	3.580 (90.9)
48	3.310 (84.1)	3.090 (78.5)	1.560 (39.6)	3.870 (98.3)
50	3.000 (76.2)	2.870 (72.9)	1.560 (39.6)	3.570 (90.7)
52	3.750 (95.3)	3.460 (87.9)	1.300 (33.0)	4.270 (108.5)
-SADWG	.430 (10.9)	.360 (9.1)	.430 (10.9)	.750 (19.1)

TABLE II: ATTACHMENT TYPE

Dash No.	E Dia ±.010 (0.3)
00	No Terminal
01	.140 (3.6)
02	.182 (4.6)
03	.191 (4.9)
04	.197 (5.0)
05	.167 (4.2)
06	.125 (3.2)
07	.218 (5.5)
09	.156 (4.0)
WS	With Strap
SK	Slip Knot

Metric dimensions (mm) are indicated in parentheses.

CONNECTOR APPLICATION REFERENCE

Shell Size	MIL-DTL-5015	MIL-C-26482 Series I & II	MIL-DTL-38999 Series I	MIL-DTL-38999 Series II	MIL-DTL-38999 Series III	MIL-DTL-83723 Series III Bayonet	MIL-DTL-83723 Series III Threaded	MIL-C-81511 Series I, II, III & IV	MIL-C-28840
08		8		8		8	8		
09	8, 8S							8	
10		10	9	10	9	10	10		
11	10S, 10SL		11		11			10	A (11)
12	12, 12S	12		12		12	12		
13								14	
14	14, 14S	14	13	14	13	14	14		B (13)
15	18							16	
16	16, 16S	16	15	16	15	16	16		C (15)
17	20							18	
18		18	17	18	17	18	18		D (17)
19	22								
20		20	19	20	19	20	20		E (19)
21	24								F (23)
22		22	21	22	21	22	22	20	
23									G (25)
24		24	23	24	23	24	24	22	
25	28								
26			25		25			24	
27									H (29)
32	32								J (33)
36	36								
38	40								
48	48								
50	44								

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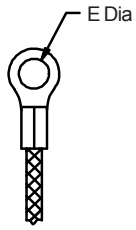
780-002
"Marshal Bean" Protective Rubber Cover for Circular Receptacle Connectors

780-002-16 G 12 - 03 C

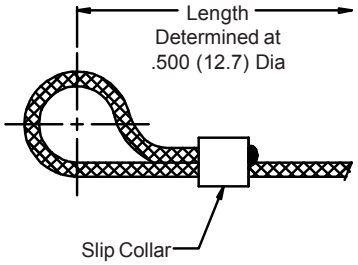
- Product Series
- Basic Number
- Shell Size (Table I)
- Attachment Rope
  G = Nylon Rope
  (Omit for None)
- Attachment Length in Inches
  (± .250 [6.35] Inch)
- Attachment Type (Table II)
- C = Conductive
  (Omit for Standard)



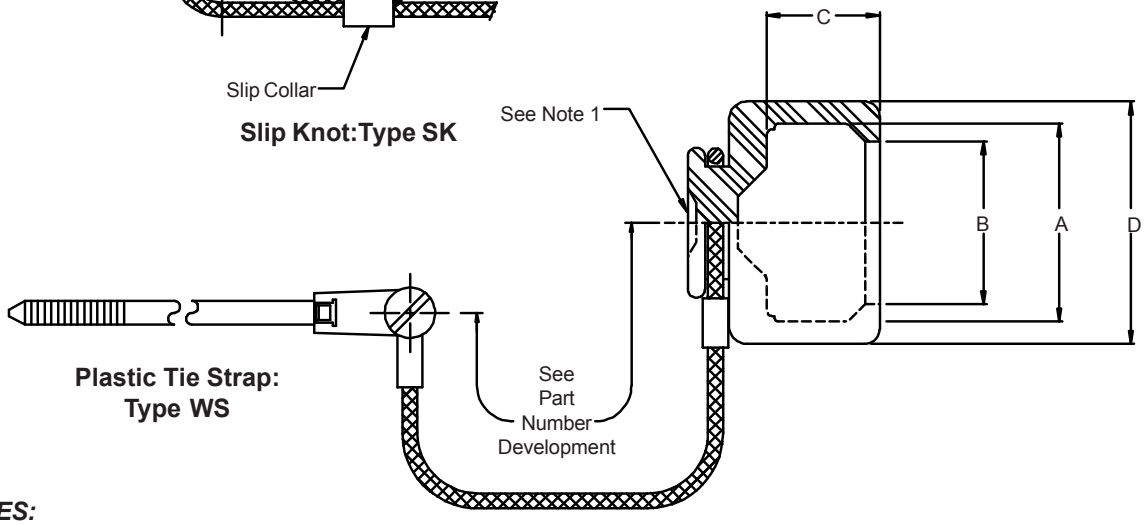
"To Protect and to Serve"



Eyelet



Slip Knot:Type SK



Plastic Tie Strap:
Type WS

NOTES:

1. Cover identified in area shown.
2. Metric dimensions (mm) are indicated in parentheses.
3. This series of covers is similar to Bean Rubber Mfg. Co. BP Series, Same Dash Number Except as noted in Table I), ie: SBP-16-WC equivalent to 780-002-16G12-09.
4. Material/Finish: Cover - 5BR blend/A.A.
   Lanyard, Screw and Locknut - Cres/Passivated; Slip Bushing - Kynar/N.A.
5. Standard material contains trace amounts of sulfur (a vulcanizing agent) which is known to contribute to degradation/corossion of silver plated components such as braid, etc. Specifiy MOD Code suffix -678 for sulfur-free material.

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780-002
"Marshal Bean" Protective Rubber Cover for Circular Receptacle Connectors

Glenair®

Miscellaneous Accessories

TABLE I: SHELL SIZE

Shell Size	A Dia	B Dia	C Dim	D Dia
01	.160 (4.1)	N/A	.400 (10.2)	.750 (19.1)
02	.240 (6.1)	.220 (5.6)	.400 (10.2)	.750 (19.1)
03	.320 (8.1)	.250 (6.4)	.300 (7.6)	.750 (19.1)
04	.420 (10.7)	.390 (9.9)	.630 (16.0)	.750 (19.1)
05	.370 (9.4)	.330 (8.4)	.500 (12.7)	.750 (19.1)
06	.470 (11.9)	.440 (11.2)	.630 (16.0)	.750 (19.1)
07	.780 (19.8)	.560 (14.2)	.630 (16.0)	1.150 (29.2)
08	.780 (19.8)	.560 (14.2)	.630 (16.0)	1.150 (29.2)
09	.850 (21.6)	.650 (16.5)	.630 (16.0)	1.250 (31.8)
10	.890 (22.6	.680 (17.3)	630 (16.0)	1.250 (31.8)
11	1.050 (26.7)	.830 (21.1)	.630 (16.0)	1.560 (39.6)
12	1.060 (26.9)	.840 (21.3)	.630 (16.0)	1.560 (39.6)
13	1.220 (31.0)	1.000 (25.4)	.630 (16.0)	1.680 (42.7)
14	1.180 (30.0)	.960 (24.4)	630 (16.0)	1.680 (42.7)
15	1.350 (34.3)	1.130 (28.7)	.630 (16.0)	1.810 (46.0)
16	1.310 (33.3)	1.090 (27.7)	.630 (16.0)	1.810 (46.0)
17	1.480 (37.6)	1.260 (32.0)	.630 (16.0)	2.040 (51.8)
18	1.420 (36.1)	1.210 (30.7)	630 (16.0)	2.040 (51.8)
19	1.560 (39.6)	1.340 (34.0)	.630 (16.0)	2.150 (54.6)
20	1.560 (39.6)	1.340 (34.0)	.630 (16.0)	2.180 (55.4)
21	1.680 (42.7)	1.460 (37.1)	.630 (16.0)	2.310 (58.7)
22	1.680 (42.7)	1.460 (37.1)	630 (16.0)	2.310 (58.7)
23	1.800 (45.7)	1.590 (40.4)	.630 (16.0)	2.430 (61.7)
24	1.800 (45.7)	1.590 (40.4)	.630 (16.0)	2.430 (61.7)
25	1.960 (49.8)	1.740 (44.2)	.630 (16.0)	2.580 (65.5)
26	1.900 (48.3)	1.710 (43.4)	.630 (16.0)	2.640 (67.1)
27	2.160 (54.9)	1.750 (44.5)	.630 (16.0)	2.580 (65.5)
28	2.050 (52.1)	1.580 (40.1)	.630 (16.0)	3.300 (83.8)
32	2.310 (58.7)	2.130 (54.1)	TBD	2.980 (75.7)
36	2.560 (65.0	2.320 (58.9)	TBD	3.180 (80.8)
40	2.810 (71.4)	2.590 (65.8)	.690 (17.5)	3.430 (87.1)
50	3.000 (76.2)	2.870 (72.9)	TBD	3.570 (90.7)
12JA	.980 (24.9)	.840 (21.3)	.630 (16.0)	1.250 (31.8)

TABLE II: ATTACHMENT TYPE

Dash No.	E Dia ±.010 (0.3)
00	No Terminal
01	.140 (3.6)
02	.182 (4.6)
03	.191 (4.9)
04	.197 (5.0)
05	.167 (4.2)
06	.125 (3.2)
07	.218 (5.5)
09	.156 (4.0)
WS	With Strap
SK	Slip Knot

Metric dimensions (mm) are indicated in parentheses.

CONNECTOR APPLICATION REFERENCE

Shell Size	MIL-DTL-5015	MIL-C-26482 Series I & II	MIL-DTL-38999 Series I	MIL-DTL-38999 Series II	MIL-DTL-38999 Series III	MIL-DTL-83723 Series III Bayonet	MIL-DTL-83723 Series III Threaded	MIL-C-81511 Series I, II, III & IV	MIL-C-28840
04	8, 8S	8		8					
06		10	9	10		8	8	8	
08	10S, 10SL		11		9	10	10	10	
09	12, 12S	12		12	11				A (11)
10			13						
11	14, 14S	14		14	13	12	12	14	B (13)
12			15			14	14		
13	18	18	17	18					D (17)
14	16, 16S	16		16	15	16	16	16	C (15)
15	20	20		20	19				
16			19		17	18	18	18	
17	22	22		22	21				E (19)
18			21			20	20	20	
19	24								
20			23		23	22	22	22	G (25)
21					25				F (23)
22		24	25	24		24	24	24	
23	28								H (29)
26									J (33)
28	32								
32	36								
36	40								
40	44								
50	48								

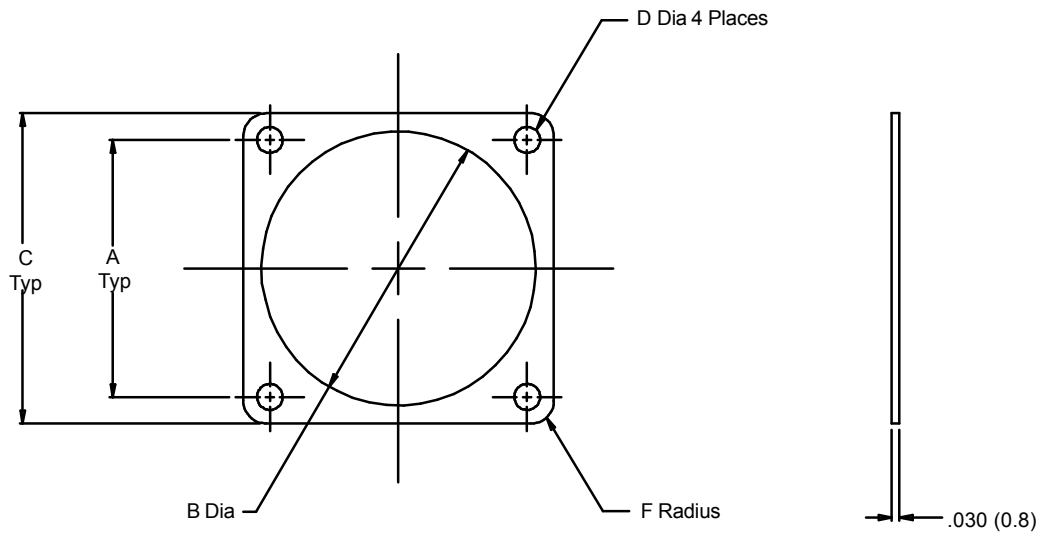
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930-001
Gasket for Flange Mount Receptacle Connector

930 - 001 F 02

- Product Series: 930
- Basic Number: 001
- Material Symbol (Table II): F
- Dash Number (Table I): 02



NOTES:

1. Identified by bag and tag in suitable quantities.
2. Metric dimensions (mm) are indicated in parentheses.

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930-001
Gasket for Flange Mount Receptacle Connector

TABLE I: DASH NUMBER

Dash No.	MIL-DTL-26482, 26500, 83723 Series I & III NAS1599 B&T	MIL-DTL-38999 Series I & II	MIL-DTL-38999 Series III & IV	AS81703	A ±.005	A (0.1)	B Dia ±.007	B Dia (0.2)	C ±.008	C (0.2)	D Dia ±.005	D Dia (0.1)	F Rad ±.015	F Rad (0.4)
01	8	8	-	-	.595	(15.1)	.562	(14.3)	.812	(20.6)	.125	(3.2)	.105	(2.7)
02	-	-	-	3	.625	(15.9)	.603	(15.3)	.896	(22.8)	.125	(3.2)	.105	(2.7)
03	10	9 & 10	9	7	.719	(18.3)	.687	(17.4)	.937	(23.8)	..125	(3.2)	.105	(2.7)
04	12	11 & 12	11	-	.812	(20.6)	.772	(19.6)	1.031	(26.2)	.125	(3.2)	.105	(2.7)
05	-	-	-	12	.812	(20.6)	.828	(21.0)	1.114	(28.3)	.125	(3.2)	.105	(2.7)
06	14	13 & 14	13	19	.906	(23.0)	.937	(23.8)	1.125	(28.6)	.125	(3.2)	.105	(2.7)
07	16	15 & 16	15	27	.969	(24.6)	1.063	(27.0)	1.250	(31.8)	.125	(3.2)	.135	(3.4)
08	18	17 & 18	17	-	1.062	(27.0)	1.187	(30.1)	1.343	(34.1)	.125	(3.2)	.135	(3.4)
09	-	-	-	37	1.187	(30.1)	1.266	(32.2)	1.458	(37.0)	.125	(3.2)	.135	(3.4)
10	20	19 & 20	19	-	1.156	(29.4)	1.312	(33.3)	1.467	(37.3)	.125	(3.2)	.135	(3.4)
11	22	21 & 22	21	-	1.250	(31.8)	1.437	(36.5)	1.562	(39.7)	.125	(3.2)	.135	(3.4)
12	24	23 & 24	23	-	1.375	(34.9)	1.562	(39.7)	1.703	(43.3)	.152	(3.9)	.135	(3.4)
13	-	-	-	61	1.436	(36.5)	1.570	(39.9)	1.799	(45.7)	.125	(3.2)	.135	(3.4)
14	-	25	25	-	1.500	(38.1)	1.600	(40.6)	1.812	(46.0)	.152	(3.9)	.135	(3.4)

TABLE II: MATERIAL

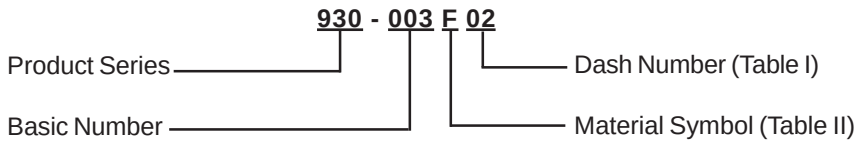
Symbol	Material Description
B	Fluorosilicone with Silver Aluminum 84 Shore (Ref)
C	Conductive — Metex
F	Fluorosilicone
M	Conductive — Con-Sil II
N	Neoprene
S	Silicone
V	Viton

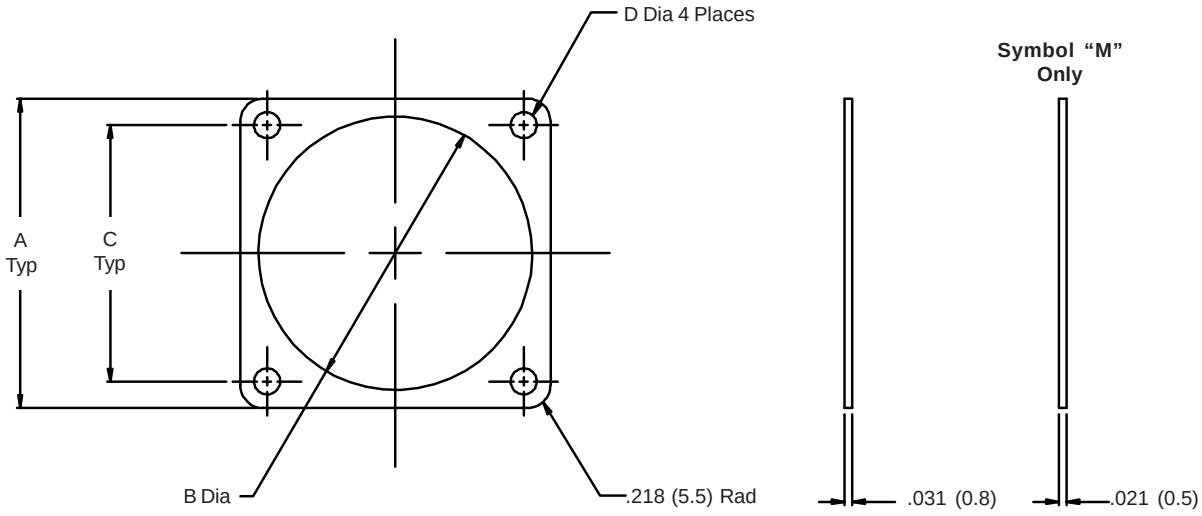
Metric Dimensions (mm) are indicated in parenthesis.

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Glenair®

930-003
Gasket for MIL-C-22992 Class L Receptacle Connectors





NOTES:

1. Identified by bag and tag in suitable quantities.
2. Metric dimensions (mm) are indicated in parentheses.

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TABLE I: DASH NUMBER

Dash No.	ESC Part No.	Shell Size MIL-C-22992 Class L	A ±.010	A (0.3)	B Dia	B (14.3)	C ±.007	C (0.2)	D ±.008	D (0.2)
01	229402–1	01	2.375	(15.1)	2.000	(14.3)	1.719	(20.6)	.177	(3.2)
02	229402–2	02	2.625	(66.7)	2.250	(57.2)	1.906	(48.4)	.209	(5.3)
03	229402–3	03	3.125	(79.4)	2.750	(69.9)	2.406	(61.1)	.281	(7.1)
04	229402–4	04	3.375	(85.7)	3.000	(76.2)	2.656	(67.5)	.281	(7.1)
05	229402–5	05	3.625	(66.7)	3.250	(82.6)	2.906	(73.8)	.281	(7.1)
06	229402–6	06	3.875	(98.4)	3.500	(88.9)	3.156	(80.2)	.281	(7.1)

TABLE II: MATERIAL

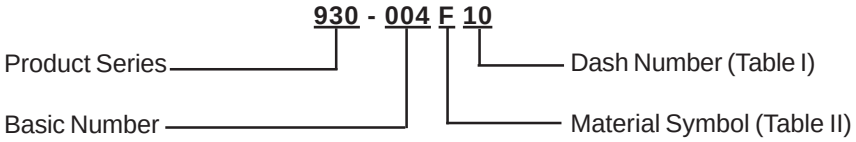
Symbol	Material Description
C	Conductive — Metex
F	Fluorosilicone
M	Conductive — Con-Sil II
N	Neoprene
S	Silicone

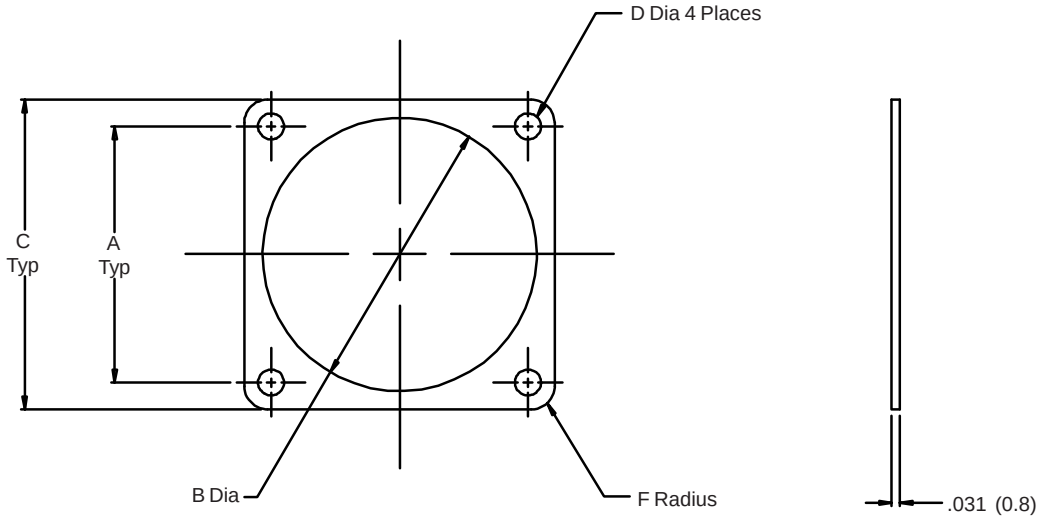
Metric Dimensions (mm) are indicated in parenthesis.

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930-004
Gasket for MIL-DTL-5015 and MIL-C-22992 Class C - J and R Receptacle Connectors





NOTES:

1. Identified by bag and tag in suitable quantities.
2. Metric dimensions (mm) are indicated in parentheses.

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930-004
Gasket for MIL-DTL-5015 and MIL-C-22992 Class C - J and R Receptacle Connectors

TABLE I: DASH NUMBER

Dash No.	MIL-DTL-5015	MIL-C-22992 Class C J & R	A ±.010	A (0.3)	B Dia +.016 -.0	B Dia (+0.4 -0)	C +.016 -.0	C (+0.4 -0)	D Dia ±.010	D Dia (0.1)	F Rad ±.010	F Rad (0.3)
1	8S	-	.594	(15.1)	.500	(12.7)	.875	(22.2)	.172	(4.4)	.141	(3.6)
2	10S & 10SL	-	.719	(18.3)	.625	(15.9)	1.000	(24.4)	.172	(4.4)	.141	(3.6)
3	12 & 12S	-	.812	(20.6)	.750	(19.1)	1.094	(27.8)	.172	(4.4)	.141	(3.6)
4	14 & 14S	12	.906	(23.0)	.875	(22.2)	1.188	(30.2)	.172	(4.4)	.141	(3.6)
5	16 & 16S	14	.969	(24.6)	1.000	(25.4)	1.281	(32.5)	.172	(4.4)	.156	(4.0)
6	18	16	1.062	(27.0)	1.125	(28.6)	1.375	(34.9)	.203	(5.2)	.156	(4.0)
7	20	18	1.156	(29.4)	1.250	(31.8)	1.500	(38.1)	.203	(5.2)	.172	(4.4)
8	22	20	1.250	(31.8)	1.375	(34.9)	1.625	(41.3)	.203	(5.2)	.188	(4.8)
9	24	22	1.375	(34.9)	1.500	(38.1)	1.750	(44.5)	.203	(5.2)	.188	(4.8)
10	28	24	1.562	(39.7)	1.750	(44.5)	2.000	(50.8)	.203	(5.2)	.219	(5.6)
11	28	-	2.188	(55.6)	1.750	(44.5)	2.688	(68.3)	.203	(5.2)	.250	(6.4)
12	32	28	1.750	(44.5)	2.000	(50.8)	2.250	(57.6)	.219	(5.6)	.250	(6.4)
13	36	32	1.938	(49.2)	2.188	(55.6)	2.500	(63.5)	.219	(5.6)	.281	(7.1)
14	40	36	1.188	(30.2)	2.438	(61.9)	2.750	(69.9)	.219	(5.6)	.281	(7.1)
15	18*	-	1.062	(27.0)	1.220	(31.0)	1.375	(34.9)	.203	(5.2)	.156	(4.0)

*Fits Amphenol GT Series

TABLE II: MATERIAL

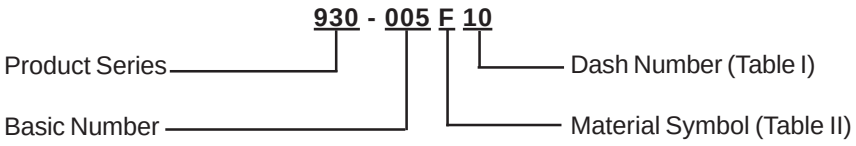
Symbol	Material Description
C	Conductive — Metex
F	Fluorosilicone
M	Conductive — Con-Sil II
N	Neoprene
S	Silicone

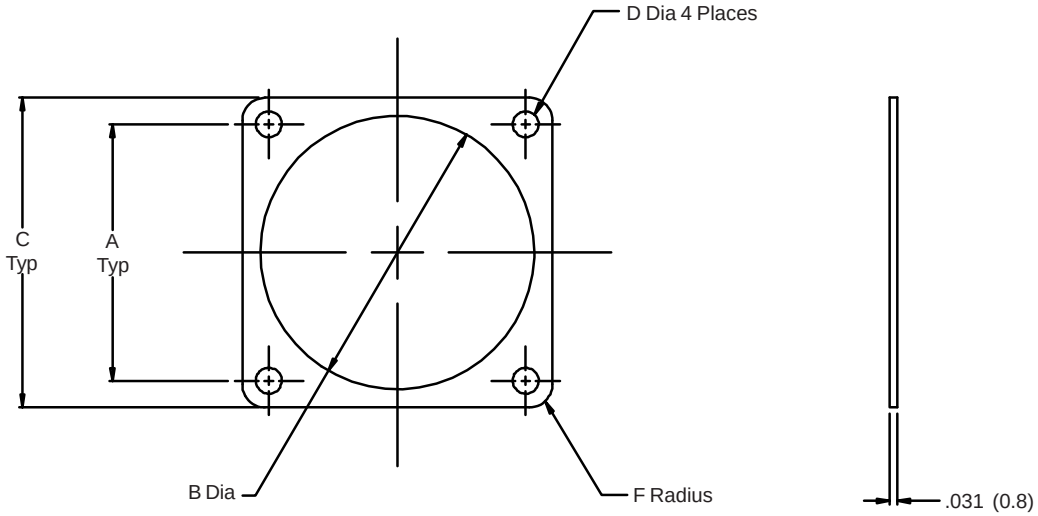
Metric Dimensions (mm) are indicated in parenthesis.

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Glenair®

930-005
Gasket for MIL-C-81511 Connectors





NOTES:

1. Identified by bag and tag in suitable quantities.
2. Metric dimensions (mm) are indicated in parentheses.

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TABLE I: DASH NUMBER

Dash No.	Shell Size MIL-C-81511	A ±.005	A (0.1)	B Dia +.015 -.0	B Dia (+0.4 -0)	C +.015 -.0	C (+0.4 -0)	D Dia ±.005	D Dia (0.1)	F Radius ±.015	F Radius (0.4)
8	8	.594	(15.1)	.555	(14.1)	.804	(20.4)	.125	(3.2)	.105	(2.7)
10	10	.719	(18.3)	.680	(17.3)	.929	(23.6)	.125	(3.2)	.105	(2.7)
14	14	.906	(23.0)	.930	(23.6)	1.117	(28.4)	.125	(3.2)	.105	(2.7)
16	16	.969	(24.6)	1.056	(26.8)	1.242	(31.5)	.125	(3.2)	.135	(3.4)
18	18	1.062	(27.0)	1.180	(30.0)	1.335	(33.9)	.125	(3.2)	.135	(3.4)
20	20	1.156	(29.4)	1.305	(33.1)	1.459	(37.1)	.125	(3.2)	.135	(3.4)
22	22	1.250	(31.8)	1.430	(36.3)	1.554	(39.5)	.125	(3.2)	.135	(3.4)
24	24	1.375	(34.9)	1.555	(39.5)	1.695	(43.1)	.152	(3.9)	.135	(3.4)

TABLE II: MATERIAL

Symbol	Material Description
C	Conductive — Metex
F	Fluorosilicone
M	Conductive — Con-Sil II
N	Neoprene
S	Silicone

Metric Dimensions (mm) are indicated in parenthesis.

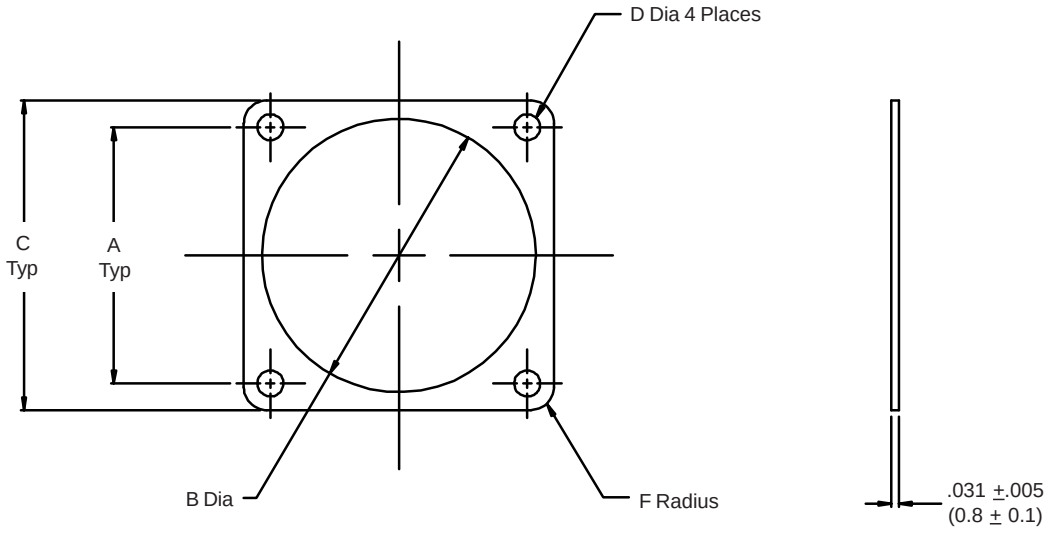
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Glenair®

930-006
Gasket for MIL-C-28840 Connectors

930 - 006 F 13

- Product Series
- Basic Number
- Material Symbol (Table II)
- Shell Size (Table I)



NOTES:

1. Identified by bag and tag in suitable quantities.
2. Metric dimensions (mm) are indicated in parentheses.

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TABLE I: SHELL SIZE

Shell Size	A		B Dia		C		D Dia		F Radius	
MIL-C-28840	±.010	(0.3)	+.016 -.0	(+0.4 -0)	+.016 -.0	(+0.4 -0)	±.010	(0.3)	±.010	(0.3)
11	.750	(19.1)	.750	(19.1)	1.023	(26.0)	.120	(3.0)	.141	(3.6)
13	.843	(21.4)	.875	(22.2)	1.138	(28.9)	.120	(3.0)	.141	(3.6)
15	.968	(24.6)	1.062	(27.0)	1.258	(32.0)	.120	(3.0)	.141	(3.6)
17	1.015	(25.8)	1.125	(28.6)	1.383	(35.1)	.120	(3.0)	.156	(4.0)
19	1.140	(29.0)	1.312	(33.3)	1.508	(38.3)	.120	(3.0)	.172	(4.4)
23	1.281	(32.5)	1.500	(38.1)	1.718	(43.6)	.120	(3.0)	.188	(4.8)
25	1.392	(35.4)	1.625	(41.3)	1.818	(46.2)	.147	(3.7)	.188	(4.8)
29	1.568	(39.2)	1.875	(47.6)	2.138	(54.3)	.147	(3.7)	.219	(5.6)
33	1.734	(44.0)	2.062	(52.4)	2.328	(59.1)	.173	(4.4)	.219	(5.6)

TABLE II: MATERIAL

Symbol	Material Description
F	Fluorosilicone
M	Conductive — Con-Sil II
N	Neoprene

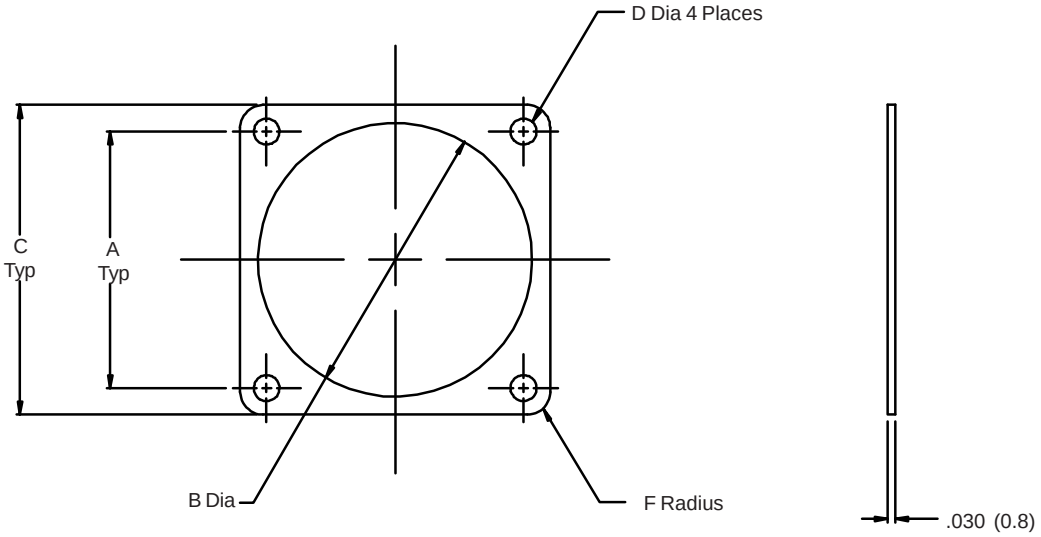
Metric Dimensions (mm) are indicated in parenthesis.

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930-007
Gasket for Series 800 & 801 Flange Mount Receptacle Connector

930 - 007 F 02

- Product Series
- Basic Number
- Material Symbol (Table III)
- Dash Number
  - Series 800 - Table I
  - Series 801 - Table II



NOTES:

1. Identified by bag and tag, 25 pieces maximum per bag.
2. Metric dimensions (mm) are indicated in parentheses.

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930-007
Gasket for Series 800 & 801 Flange Mount Receptacle Connector

TABLE I: SERIES 800

Dash No.	Series 800 Shell Size	A ±.005	A (0.1)	B Dia ±.007	B Dia (0.2)	C ±.008	C (0.2)	D Dia ±.005	D Dia (0.1)	F Rad ±.015	F Rad (0.4)
01	5	.363	(9.2)	.290	(7.4)	.527	(13.4)	.093	(2.4)	.078	(2.0)
02	6	.423	(10.7)	.350	(8.9)	.588	(14.9)	.093	(2.4)	.078	(2.0)
03	7	.483	(12.3)	.460	(11.7)	.650	(16.5)	.125	(3.2)	.078	(2.0)
04	8	.550	(14.0)	.530	(13.5)	.715	(18.2)	.125	(3.2)	.078	(2.0)
05	9	.719	(18.3)	.593	(15.1)	.938	(23.8)	.125	(3.2)	.105	(2.7)
06	12	.812	(20.6)	.718	(18.2)	1.031	(26.2)	.125	(3.2)	.105	(2.7)
07	14	.906	(23.0)	.968	(24.6)	1.125	(28.6)	.125	(3.2)	.105	(2.7)
08	15	.969	(24.6)	.968	(24.6)	1.219	(31.0)	.125	(3.2)	.105	(2.7)

TABLE I: SERIES 801

Dash No.	Series 801 Shell Size	A ±.005	A (0.1)	B Dia ±.007	B Dia (0.2)	C ±.008	C (0.2)	D Dia ±.005	D Dia (0.1)	F Rad ±.015	F Rad (0.4)
11	5	.363	(9.2)	.320	(8.1)	.530	(13.5)	.093	(2.4)	.078	(2.0)
12	6	.423	(10.7)	.375	(9.5)	.590	(15.0)	.093	(2.4)	.078	(2.0)
13	7	.483	(12.3)	.460	(11.7)	.650	(16.5)	.093	(2.4)	.078	(2.0)
14	–	–		–		–		–		–	
15	9	.607	(15.4)	.560	(14.2)	.850	(21.6)	.125	(3.2)	.105	(2.7)
16	13	.812	(20.6)	.815	(20.7)	1.030	(26.2)	.125	(3.2)	.105	(2.7)
17	16	.981	(24.9)	1.010	(25.7)	1.219	(31.0)	.125	(3.2)	.105	(2.7)
18	17	1.060	(26.9)	1.070	(27.2)	1.280	(32.5)	.125	(3.2)	.105	(2.7)

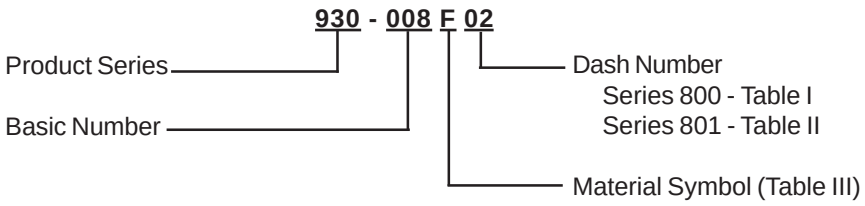
TABLE III: MATERIAL

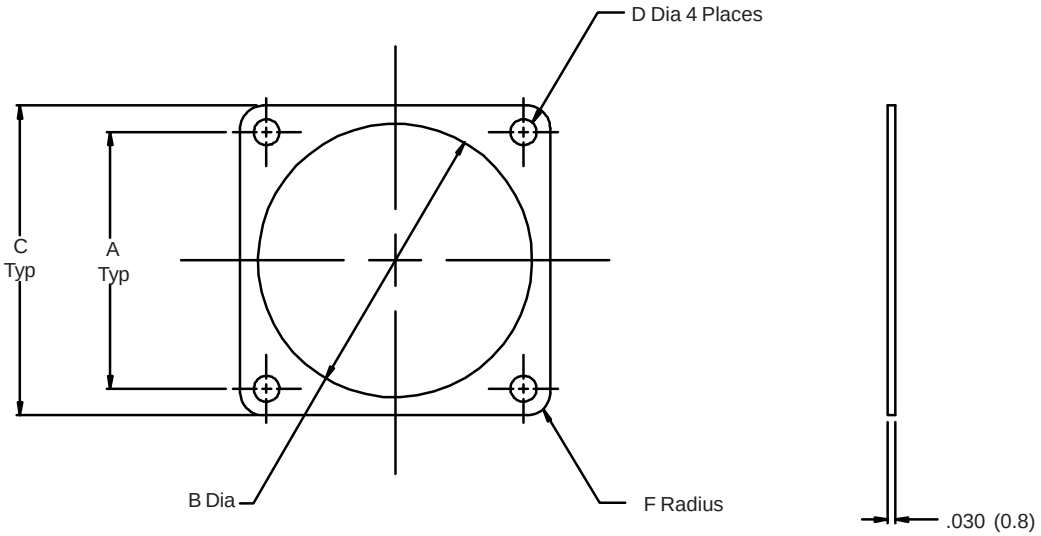
Symbol	Material Description	Color
C	Conductive — Metex	Off-White
F	Fluorosilicone	Blue
M	Conductive — Con-Sil II	Black
N	Neoprene	Black
S	Silicone	Red
V	Viton	Black

Metric Dimensions (mm) are indicated in parenthesis.

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930-008
Gasket for Series 800 & 801 Flange Mount Receptacle Connector





NOTES:

1. Identified by bag and tag, 25 pieces maximum per bag.
2. Metric dimensions (mm) are indicated in parentheses.

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930-008
Gasket for Series 800 & 801 Flange Mount Receptacle Connector

TABLE I: SERIES 800

Dash No.	Series 800 Shell Size	A ±.005	A (0.1)	B Dia ±.007	B Dia (0.2)	C ±.008	C (0.2)	D Dia ±.005	D Dia (0.1)	F Rad ±.015	F Rad (0.4)
01	5	.363	(9.2)	.290	(7.4)	.527	(13.4)	.093	(2.4)	.078	(2.0)
02	6	.423	(10.7)	.350	(8.9)	.588	(14.9)	.093	(2.4)	.078	(2.0)
03	7	.483	(12.3)	.460	(11.7)	.650	(16.5)	.125	(3.2)	.078	(2.0)
04	8	.550	(14.0)	.530	(13.5)	.715	(18.2)	.125	(3.2)	.078	(2.0)
05	9	.719	(18.3)	.593	(15.1)	.938	(23.8)	.125	(3.2)	.105	(2.7)
06	12	.812	(20.6)	.718	(18.2)	1.031	(26.2)	.125	(3.2)	.105	(2.7)
07	14	.906	(23.0)	.968	(24.6)	1.125	(28.6)	.125	(3.2)	.105	(2.7)
08	15	.969	(24.6)	.968	(24.6)	1.219	(31.0)	.125	(3.2)	.105	(2.7)

TABLE I: SERIES 801

Dash No.	Series 801 Shell Size	A ±.005	A (0.1)	B Dia ±.007	B Dia (0.2)	C ±.008	C (0.2)	D Dia ±.005	D Dia (0.1)	F Rad ±.015	F Rad (0.4)
11	5	.363	(9.2)	.320	(8.1)	.530	(13.5)	.093	(2.4)	.078	(2.0)
12	6	.423	(10.7)	.375	(9.5)	.590	(15.0)	.093	(2.4)	.078	(2.0)
13	7	.483	(12.3)	.460	(11.7)	.650	(16.5)	.093	(2.4)	.078	(2.0)
14	–	–		–		–		–		–	
15	9	.607	(15.4)	.560	(14.2)	.850	(21.6)	.125	(3.2)	.105	(2.7)
16	13	.812	(20.6)	.815	(20.7)	1.030	(26.2)	.125	(3.2)	.105	(2.7)
17	16	.981	(24.9)	1.010	(25.7)	1.219	(31.0)	.125	(3.2)	.105	(2.7)
18	17	1.060	(26.9)	1.070	(27.2)	1.280	(32.5)	.125	(3.2)	.105	(2.7)

TABLE III: MATERIAL

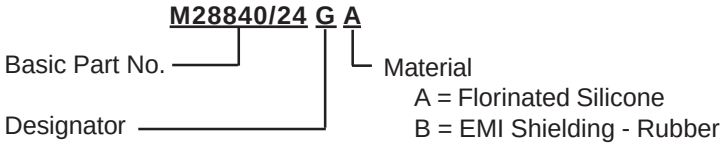
Symbol	Material Description	Color
C	Conductive — Metex	Off-White
F	Fluorosilicone	Blue
M	Conductive — Con-Sil II	Black
N	Neoprene	Black
S	Silicone	Red
V	Viton	Black

Metric Dimensions (mm) are indicated in parenthesis.

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M28840/24
Gasket



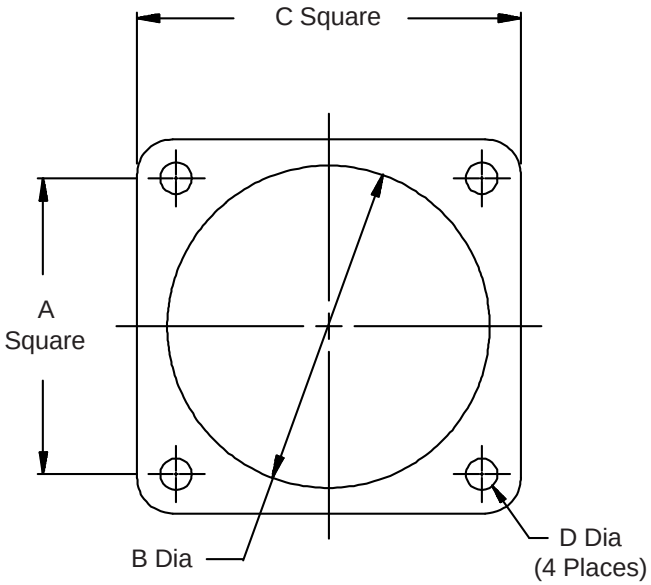


TABLE I

Desig-nator	Shell Size	A Sq. ±.010	A Sq. (.3)	B Dia ±.008	B Dia (.2)	C Sq. ±.008	C Sq. (.2)	D Dia ±.010	D Dia (.3)
A	11	.750	(19.1)	.758	(19.3)	1.031	(26.2)	.120	(3.0)
B	13	.843	(21.4)	.883	(22.4)	1.146	(29.1)	.120	(3.0)
C	15	.968	(24.6)	1.070	(27.2)	1.266	(32.2)	.120	(3.0)
D	17	1.015	(25.8)	1.133	(28.8)	1.391	(35.3)	.120	(3.0)
E	19	1.140	(29.0)	1.320	(33.5)	1.516	(38.5)	.120	(3.0)
F	23	1.281	(32.5)	1.508	(38.3)	1.726	(43.8)	.120	(3.0)
G	25	1.392	(35.4)	1.633	(41.5)	1.826	(46.4)	.147	(3.7)
H	29	1.568	(39.8)	1.883	(47.8)	2.146	(54.5)	.147	(3.7)
J	33	1.734	(44.0)	2.070	(52.6)	2.336	(59.3)	.173	(4.4)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.

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AS85049/94
Mounting Flange, Full Perimeter

M85049/94-10-A

- Basic Part No.
- Shell Size
- A = Primer Coat Required

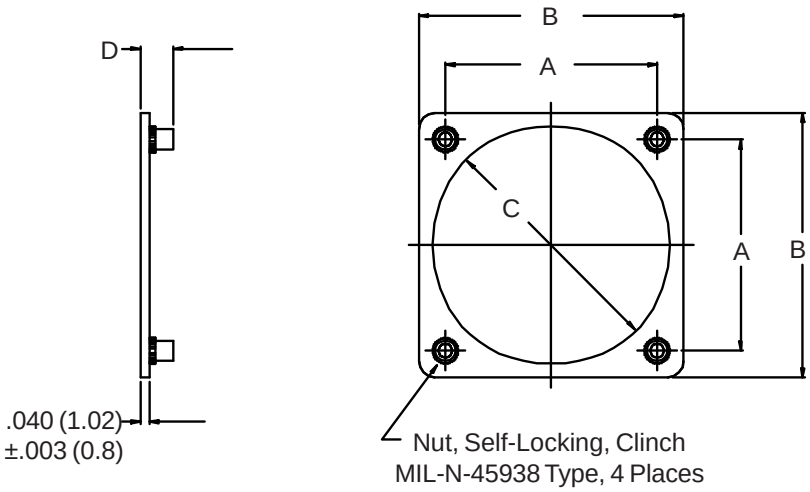


TABLE I

Shell Size	Thread UNJC-3B	A ±.015	A (0.38)	B Max	B	C ±.015	C (.4)	D	D
8	4-40	.594	(15.1)	.980	(24.9)	.570	(14.5)	.106	(.166)
10	4-40	.719	(18.3)	1.034	(26.3)	.720	(18.3)	.106	(.166)
12	4-40	.812	(20.6)	1.119	(28.4)	.855	(21.7)	.106	(.166)
14	4-40	.906	(23.0)	1.213	(30.8)	.984	(25.0)	.106	(.166)
16	4-40	.969	(24.6)	1.295	(32.9)	1.094	(27.8)	.106	(.166)
18	4-40	1.062	(27.0)	1.421	(36.1)	1.220	(31.0)	.106	(.166)
20	4-40	1.156	(29.4)	1.550	(39.4)	1.345	(34.2)	.106	(.166)
22	4-40	1.250	(31.8)	1.680	(42.7)	1.478	(37.5)	.106	(.166)
24	6-32	1.375	(34.9)	1.800	(45.7)	1.595	(40.5)	.123	(.183)
25	6-32	1.500	(38.1)	1.910	(48.5)	1.658	(42.1)	.123	(.183)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.

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AS85049/95
3/4 Perimeter Mounting Flange

Basic Part Number

***A** = Primer Coat Required*

M85049/95 - 10A - A

Shell Size and Class

APPLICATION NOTES

1. Assembly identified with manufacturer's name and part number, space permitting.
2. For complete dimensions, see the applicable Military Specification.
3. Metric dimensions (mm) are in parentheses.

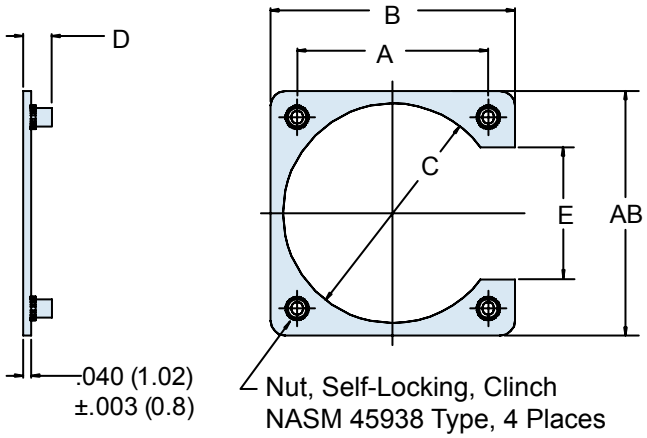


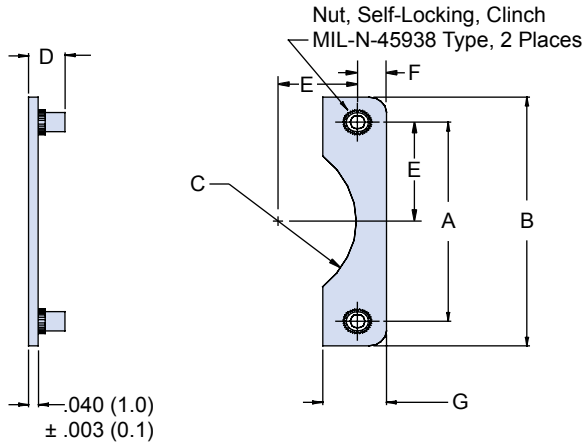
TABLE I: Reference for Connector Shell Size

Shell Size & Class	Thread UNJC-3B	A ±.005 (0.1)		B Max		C ±.015 (0.4)		D Max		E ±.030 (0.8)	
3A	4-40	.625	(15.9)	.940	23.88	.641	(16.3)	.166	(4.2)	.325	(8.3)
7A	4-40	.719	(18.3)	1.034	26.26	.688	(17.5)	.166	(4.2)	.433	(11.0)
8A	4-40	.594	(15.1)	.900	22.86	.570	(14.5)	.166	(4.2)	.308	(7.8)
10A	4-40	.719	(18.3)	1.034	26.26	.720	(18.3)	.166	(4.2)	.433	(11.0)
10B	6-32	.812	(20.6)	1.202	30.53	.749	(19.0)	.183	(4.6)	.433	(11.0)
12A	4-40	.812	(20.6)	1.119	28.42	.855	(21.7)	.166	(4.2)	.530	(13.5)
12B	6-32	.938	(23.8)	1.327	33.71	.938	(23.8)	.183	(4.6)	.530	(13.5)
14A	4-40	.906	(23.0)	1.213	30.81	.984	(25.0)	.166	(4.2)	.624	(15.8)
14B	6-32	1.031	(26.2)	1.421	36.09	1.031	(26.2)	.183	(4.6)	.624	(15.8)
16A	4-40	.969	(24.6)	1.295	32.89	1.094	(27.8)	.166	(4.2)	.687	(17.4)
16B	6-32	1.125	(28.6)	1.515	38.48	1.125	(28.6)	.183	(4.6)	.687	(17.4)
18A	4-40	1.062	(27.0)	1.421	36.09	1.220	(31.0)	.166	(4.2)	.780	(19.8)
18B	6-32	1.203	(30.6)	1.593	40.46	1.234	(31.3)	.183	(4.6)	.780	(19.8)
19A	4-40	.906	(23.0)	1.207	30.66	.953	(24.2)	.166	(4.2)	.620	(15.7)
20A	4-40	1.156	(29.4)	1.550	39.37	1.345	(34.2)	.166	(4.2)	.874	(22.2)
20B	6-32	1.297	(32.9)	1.703	43.26	1.359	(34.5)	.183	(4.6)	.865	(22.0)
22A	4-40	1.250	(31.8)	1.680	42.67	1.478	(37.5)	.166	(4.2)	.968	(24.6)
22B	6-32	1.375	(34.9)	1.753	44.53	1.483	(37.7)	.183	(4.6)	.907	(23.0)
24A	6-32	1.500	(38.1)	1.906	48.41	1.560	(39.6)	.183	(4.6)	1.000	(25.4)
24B	6-32	1.375	(34.9)	1.800	45.72	1.595	(40.5)	.183	(4.6)	1.031	(26.2)
25A	6-32	1.500	(38.1)	1.906	48.41	1.658	(42.1)	.183	(4.6)	1.125	(28.6)
27A	4-40	.969	(24.6)	1.270	32.26	1.094	(27.8)	.166	(4.2)	.683	(17.3)
28A	6-32	1.562	(39.7)	2.015	51.18	1.820	(46.2)	.183	(4.6)	1.125	(28.6)
32A	6-32	1.750	(44.5)	2.327	59.11	2.062	(52.4)	.183	(4.6)	1.188	(30.2)
36A	6-32	1.938	(49.2)	2.515	63.88	2.312	(58.7)	.183	(4.6)	1.375	(34.9)
37A	4-40	1.187	(30.1)	1.515	38.48	1.281	(32.5)	.166	(4.2)	.874	(22.2)
61A	4-40	1.437	(36.5)	1.827	46.41	1.594	(40.5)	.166	(4.2)	1.602	(40.7)

Dimensions in inches (millimeters) and are subject to change without notice.

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AS85049/96 and M85528/3
Mounting Flange, 1/4 Perimeter



M85049/96-24-A

Basic Part No.

Dash No.

A = Primer Coat Required

M85528/3-10-01

Basic Part No.

Dash No.

Numerical designation 01 indicates corrosion resistant nuts are required. Omit for alloy steel nuts.

TABLE I

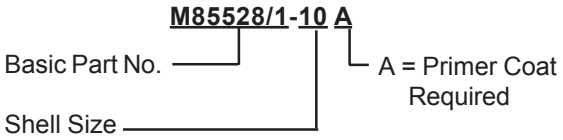
Shell Size	Thread UNJC-3B	A ± .003 (0.1)	B ± .015 (0.4)	C + .015 (.4) - .000 (.0)	D ± .030 (0.8)	E ± .005 (0.1)	F (Ref)	G Max
3	4-40	.625 (15.9)	.925 (23.5)	.300 (7.6)	.136 (3.5)	.312 (7.92)	.150 (3.81)	.310 (7.87)
7	4-40	.719 (18.3)	1.016 (25.8)	.298 (7.6)	.136 (3.5)	.359 (9.12)	.149 (3.78)	.308 (7.82)
8	4-40	.594 (15.1)	.891 (22.6)	.296 (7.5)	.136 (3.5)	.297 (7.54)	.148 (3.76)	.306 (7.77)
10	4-40	.719 (18.3)	1.016 (25.8)	.298 (7.6)	.136 (3.5)	.359 (9.12)	.149 (3.78)	.308 (7.82)
12	4-40	.812 (20.6)	1.109 (28.2)	.296 (7.5)	.136 (3.5)	.406 (10.31)	.148 (3.76)	.306 (7.77)
14	4-40	.906 (23.0)	1.203 (30.6)	.296 (7.5)	.136 (3.5)	.453 (11.51)	.148 (3.76)	.306 (7.77)
16	4-40	.969 (24.6)	1.266 (32.2)	.298 (7.6)	.136 (3.5)	.484 (12.29)	.149 (3.78)	.308 (7.82)
18	4-40	1.062 (27.0)	1.390 (35.3)	.328 (8.3)	.136 (3.5)	.531 (13.49)	.164 (4.17)	.338 (8.59)
19	4-40	.906 (23.0)	1.203 (30.6)	.296 (7.5)	.136 (3.5)	.453 (11.51)	.148 (3.76)	.306 (7.77)
20	4-40	1.156 (29.4)	1.510 (38.4)	.354 (9.0)	.136 (3.5)	.578 (14.68)	.177 (4.50)	.364 (9.25)
22	4-40	1.250 (31.8)	1.640 (41.7)	.390 (9.9)	.136 (3.5)	.625 (15.88)	.195 (4.95)	.400 (10.16)
24	6-32	1.375 (34.9)	1.760 (44.7)	.386 (9.8)	.153 (3.9)	.687 (17.45)	.193 (4.90)	.396 (10.06)
25	6-32	1.500 (38.1)	1.859 (47.2)	.358 (9.1)	.153 (3.9)	.750 (19.05)	.179 (4.55)	.368 (9.35)
27	4-40	.969 (24.6)	1.266 (32.2)	.298 (7.6)	.136 (3.5)	.484 (12.29)	.149 (3.78)	.308 (7.82)
28	6-32	1.562 (39.7)	2.000 (50.8)	.438 (11.1)	.153 (3.9)	.781 (19.84)	.219 (5.56)	.448 (11.38)
32	6-32	1.750 (44.5)	2.312 (58.7)	.562 (14.3)	.153 (3.9)	.875 (22.23)	.281 (7.14)	.572 (14.53)
36	6-32	1.938 (49.2)	2.500 (63.5)	.562 (14.3)	.153 (3.9)	.969 (24.61)	.281 (7.14)	.572 (14.53)
37	4-40	1.187 (30.1)	1.500 (38.1)	.314 (8.0)	.136 (3.5)	.593 (15.06)	.157 (3.99)	.324 (8.23)
61	4-40	1.437 (36.5)	1.812 (46.0)	.376 (9.6)	.136 (3.5)	.718 (18.24)	.188 (4.78)	.386 (9.80)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.

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M85528/1
Mounting Flange, Full Perimeter



Note: part superceded by M85049/94

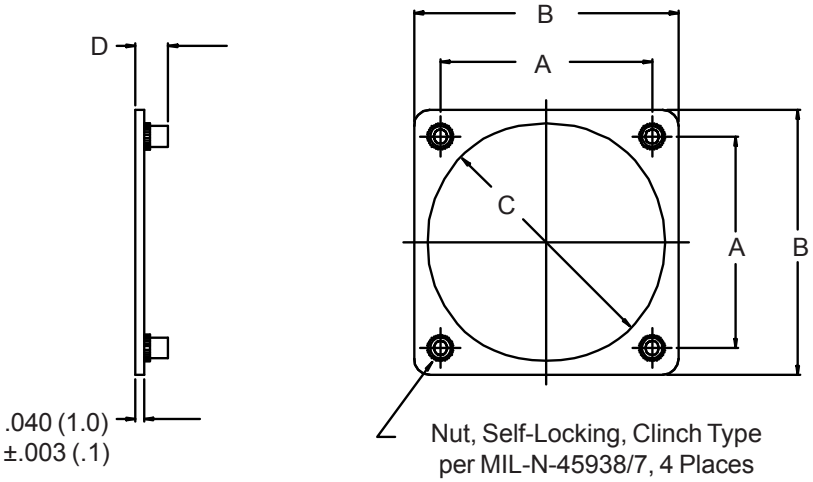


TABLE I

Shell Size	Thread UNJC-3B	A ±.003	A (.1)	B ±.015	B (.4)	C -.010	C (.3)	D ±.030	D (.8)
8	4-40	.594	(15.1)	.880	(22.4)	.570	(14.5)	.136	(3.5)
10	4-40	.719	(18.3)	1.005	(25.5)	.700	(17.8)	.136	(3.5)
12	4-40	.812	(20.6)	1.098	(27.9)	.820	(20.8)	.136	(3.5)
14	4-40	.906	(23.0)	1.192	(30.3)	.945	(24.0)	.136	(3.5)
16	4-40	.969	(24.6)	1.255	(31.9)	1.070	(27.2)	.136	(3.5)
18	4-40	1.062	(27.0)	1.348	(34.2)	1.196	(30.4)	.136	(3.5)
20	4-40	1.156	(29.4)	1.500	(38.1)	1.320	(33.5)	.136	(3.5)
22	4-40	1.250	(31.8)	1.625	(41.3)	1.440	(36.6)	.136	(3.5)
24	6-32	1.375	(34.9)	1.750	(44.5)	1.570	(39.9)	.153	(3.9)
25	6-32	1.500	(38.1)	1.891	(48.0)	1.658	(42.1)	.153	(3.9)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.

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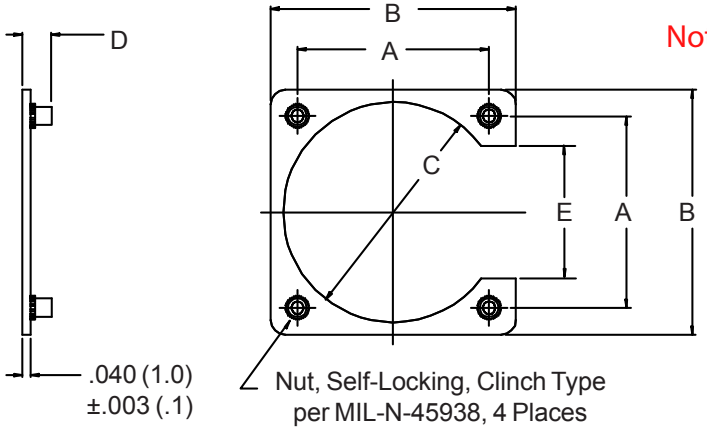
M85528/2
Mounting Flange, 3/4 Perimeter

Glenair®

Miscellaneous Accessories

M85528/2-8A 01 A

- Basic Part No.
- Shell Size and Class
- Numerical designation indicates corrosion resistant nuts are required. Omit for alloy steel nuts.
- A = Primer Coat Required



Note: superceded by M85049/95

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.

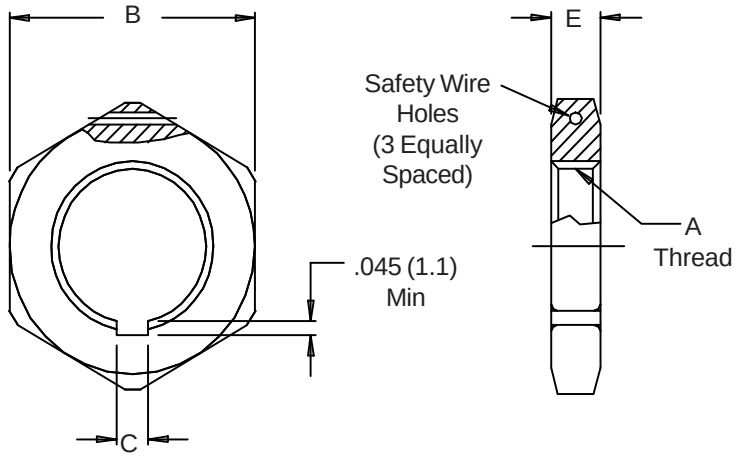
TABLE I

Shell Size & Class	Thread UNJC-3B	A ±.003	A (.1)	B ±.015	B (.4)	C ±.010	C (.4)	D ±.030	D (.8)	E ±.020	E (.5)
3A	4-40	.625	(15.9)	.925	(23.5)	.641	(16.3)	.136	(3.5)	.325	(8.3)
6A	4-40	.469	(11.9)	.755	(19.2)	.366	(9.3)	.136	(3.5)	.183	(4.6)
7A	4-40	.719	(18.3)	1.019	(25.9)	.688	(17.5)	.136	(3.5)	.433	(11.0)
8A	4-40	.594	(15.1)	.880	(22.4)	.570	(14.5)	.136	(3.5)	.308	(7.8)
10A	4-40	.719	(18.3)	1.019	(25.9)	.720	(18.3)	.136	(3.5)	.433	(11.0)
10B	6-32	.812	(20.6)	1.187	(30.1)	.749	(19.0)	.153	(3.9)	.433	(11.0)
12A	4-40	.812	(20.6)	1.104	(28.0)	.855	(21.7)	.136	(3.5)	.530	(13.5)
12B	6-32	.938	(23.8)	1.312	(33.3)	.938	(23.8)	.153	(3.9)	.526	(13.4)
14A	4-40	.906	(23.0)	1.198	(30.4)	.984	(25.0)	.136	(3.5)	.624	(15.8)
14B	6-32	1.031	(26.2)	1.406	(35.7)	1.031	(26.2)	.153	(3.9)	.620	(15.7)
16A	4-40	.969	(24.6)	1.280	(32.5)	1.094	(27.8)	.136	(3.5)	.687	(17.4)
16B	6-32	1.125	(28.6)	1.500	(38.1)	1.125	(28.6)	.153	(3.9)	.683	(17.3)
18A	4-40	1.062	(27.0)	1.406	(35.7)	1.220	(31.0)	.136	(3.5)	.780	(19.8)
18B	6-32	1.203	(30.6)	1.578	(40.1)	1.234	(31.3)	.153	(3.9)	.776	(19.7)
19A	4-40	.906	(23.0)	1.192	(30.3)	.953	(24.2)	.136	(3.5)	.620	(15.7)
20A	4-40	1.156	(29.4)	1.535	(39.0)	1.345	(34.2)	.136	(3.5)	.874	(22.2)
20B	6-32	1.297	(32.9)	1.688	(42.9)	1.359	(34.5)	.153	(3.9)	.865	(22.0)
22A	4-40	1.250	(31.8)	1.665	(42.3)	1.478	(37.5)	.136	(3.5)	.968	(24.6)
22B	6-32	1.375	(34.9)	1.738	(44.1)	1.483	(37.7)	.153	(3.9)	.907	(23.0)
24A	4-40	1.500	(38.1)	1.891	(48.0)	1.560	(39.6)	.153	(3.9)	1.000	(25.4)
24B	6-32	1.375	(34.9)	1.785	(45.3)	1.595	(40.5)	.153	(3.9)	1.031	(26.2)
25A	6-32	1.500	(38.1)	1.891	(48.0)	1.658	(42.1)	.153	(3.9)	1.125	(28.6)
27A	4-40	.969	(24.6)	1.255	(31.9)	1.094	(27.8)	.136	(3.5)	.683	(17.3)
28A	6-32	1.562	(39.7)	2.000	(50.8)	1.820	(46.2)	.153	(3.9)	1.125	(28.6)
32A	6-32	1.750	(44.5)	2.312	(58.7)	2.062	(52.4)	.153	(3.9)	1.188	(30.2)
36A	6-32	1.938	(49.2)	2.500	(63.5)	2.312	(58.7)	.153	(3.9)	1.375	(34.9)
37A	4-40	1.187	(30.1)	1.500	(38.1)	1.281	(32.5)	.136	(3.5)	.874	(22.2)
61A	4-40	1.437	(36.5)	1.812	(46.0)	1.594	(40.5)	.136	(3.5)	1.602	(40.7)

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Glenair®

MS3186
Jam Nut



D - Number of Slots

MS3186 A 113 B

Basic Part No.

Material:
- A = Aluminum
- S = Steel
- C = CRES

Dash No.

Finish:
- A = Black Anodize
- B = Black Cadmium over Corrosion Resistant Steel
- N = Electroless Nickel (Space Use Only)
- P = Passivated
- W = Cadmium Olive Drab Over Electroless Nickel

TABLE I

Dash No.	FOR CONNECTOR SHELL SIZE (REF.)								
	MIL-DTL-5015	MIL-DTL-26482	MIL-DTL-26500	MIL-DTL-83723 I	MIL-DTL-83723 III	MIL-DTL-38999 I	MIL-DTL-38999 II	MIL-C-28840	MIL-C-27599
101	8S	--	--	--	--	--	--	--	--
102	--	8	--	8	--	--	--	--	--
103	10S, 10SL	--	--	--	--	--	--	--	--
104	--	--	8	--	--	--	--	--	--
105	--	--	--	--	8	--	--	--	--
106	--	10	--	10	--	9	--	--	9
107	12S, 12	--	10	--	10	--	--	--	--
108	--	--	--	--	--	11	--	--	11
109	14S, 14	12	--	12	--	--	8	11	8
110	--	--	12	--	12	--	--	--	--
111	16S, 16	14	14	14	14	13	10	13	10, 13
112	--	--	16	--	16 Bay	--	--	--	--
113	18	16	--	16	16 Thd	15	12	--	12, 15
114	--	--	--	--	--	--	--	15	--
115	--	--	18	--	--	--	--	--	14, 17
116	20	18	--	18	18	17	14	17	--
117	22	20	20	20	20	19	16	--	16, 19
118	--	--	--	--	--	--	--	19	--
119	--	--	22	--	--	--	--	--	--
120	24	22	--	22	22	21	18	--	18, 21
121	--	24	24	24	24	23	20	23	20, 23
122	28	--	--	--	--	25	22	25	22, 25
123	--	--	--	--	--	--	24	--	24
124	--	--	--	--	--	--	--	29	--
125	32	--	--	--	--	--	--	--	--
126	--	--	--	--	--	--	--	33	--
127	36	--	--	--	--	--	--	--	--
128	40	--	--	--	--	--	--	--	--
129	44	--	--	--	--	--	--	--	--
130	48	--	--	--	--	--	--	--	--

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TABLE II

Dash No.	A Thread	B ±.017	B (.4)	C Max	C (.4)	D Min. No. of Slots	E Dia ±.017	E Dia (.4)
101	.500 - 28 UNEF-2B	.687	(17.4)	None		None	.125	(3.2)
102	.5625 - 24 UNEF-2B	.750	(19.1)	.135	(3.4)	2	.125	(3.2)
103	.625 - 24 UNEF-2B	.812	(20.6)	None		None	.125	(3.2)
104	.625 - 20 UN-2B	.812	(20.6)	None		2	.125	(3.2)
105	.625 - 20 UN-2B	.812	(20.6)	None		2	.125	(3.2)
106	.6875 - 24 UNEF-2B	.875	(22.2)	.135	(3.4)	1	.125	(3.2)
107	.750 - 20 UNEF-2B	.937	(23.8)	None		2	.125	(3.2)
108	.8125 - 20 UNEF-2B	1.000	(25.4)	.135	(3.4)	1	.125	(3.2)
109	.875 - 20 UNEF-2B	1.062	(27.0)	.135	(3.4)	1	.125	(3.2)
110	.9375 - 20 UNEF-2B	1.123	(28.5)	None		1	.125	(3.2)
111	1.000 - 20 UNEF-2B	1.188	(30.2)	.135	(3.4)	1	.125	(3.2)
112	1.125 - 20 UN-2B	1.312	(33.3)	None		1	.125	(3.2)
113	1.125 - 18 UNEF-2B	1.312	(33.3)	.135	(3.4)	1	.125	(3.2)
114	1.1875 - 18 UNEF-2B	1.375	(34.9)	None		None	.125	(3.2)
115	1.250 - 20 UN-2B	1.438	(36.5)	None		None	.125	(3.2)
116	1.250 - 18 UNEF-2B	1.438	(36.5)	.135	(3.4)	1	.125	(3.2)
117	1.375 - 18 UNEF-2B	1.562	(39.7)	.192	(4.9)	1	.125	(3.2)
118	1.4375 - 18 UNEF-2B	1.625	(41.3)	None		None	.125	(3.2)
119	1.500 - 20 UN-2B	1.688	(42.9)	None		None	.125	(3.2)
120	1.500 - 18 UNEF-2B	1.688	(42.9)	.192	(4.9)	1	.125	(3.2)
121	1.625 - 18 UNEF-2B	1.812	(46.0)	.192	(4.9)	1	.125	(3.2)
122	1.750 - 18 UNS-2B	2.000	(50.8)	.192	(4.9)	1	.125	(3.2)
123	1.875 - 16 UN-2B	2.125	(54.0)	None		None	.125	(3.2)
124	1.9375 - 16 UN-2B	2.187	(55.5)	None		None	.189	(4.8)
125	2.000 - 18 UNS-2B	2.250	(57.2)	None		None	.189	(4.8)
126	2.125 - 16 UN-2B	2.375	(60.3)	None		None	.189	(4.8)
127	2.250 - 16 UN-2B	2.500	(63.5)	None		None	.189	(4.8)
128	2.500 - 16 UN-2B	2.750	(69.9)	None		None	.189	(4.8)
129	2.750 - 16 UN-2B	3.000	(76.2)	None		None	.189	(4.8)
130	3.000 - 16 UN-2B	3.250	(82.6)	None		None	.189	(4.8)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.

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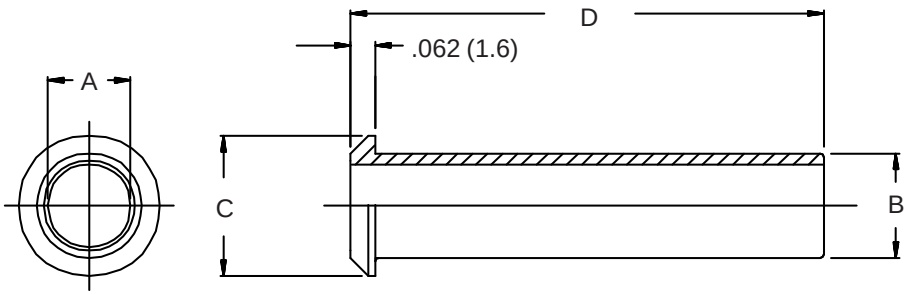
MS3420
Telescoping Bushing

MS3420-3

Basic Part No.

Dash No.

Material is Rubber per MIL-STD-417



MS3420-3 L

Basic Part No.

Dash No.

Material

A = Rubber per MIL-STD-417
D = Silicone Rubber
L = Fluorosilicone Rubber

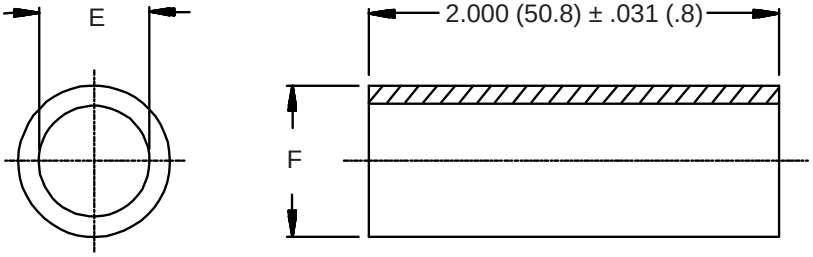


TABLE I

Dash No.	A Dia	B Dia	C Dia	D Dim	E Dia	F Dia
3	.130 (3.3)	.210 (5.3)	.379 (9.6)	2.875 (73.0)	.125 (3.2)	.210 (5.3)
4	.220 (5.6)	.302 (7.7)	.505 (12.8)	2.750 (69.9)	.219 (5.6)	.302 (7.7)
6	.312 (7.9)	.427 (10.8)	.619 (15.7)	2.625 (66.7)	.312 (7.9)	.427 (10.8)
8	.437 (11.1)	.552 (14.0)	.744 (18.9)	2.500 (63.5)	.438 (11.1)	.531 (13.5)
10	.562 (14.3)	.615 (15.6)	.889 (22.6)	2.375 (60.3)	.438 (11.1)	.615 (15.6)
12	.625 (15.9)	.740 (18.8)	1.084 (27.5)	2.250 (57.2)	.541 (13.7)	.740 (18.8)
16	.750 (19.1)	.927 (23.5)	1.314 (33.4)	2.125 (54.0)	.750 (19.1)	.927 (23.5)
18	n/a	n/a	n/a	n/a	.938 (23.8)	1.115 (28.3)
20	.937 (23.8)	1.240 (31.5)	1.598 (40.6)	2.000 (50.8)	.938 (23.8)	1.240 (31.5)
24	1.250 (31.8)	1.365 (34.7)	1.847 (46.9)	1.875 (47.6)	1.125 (28.6)	1.365 (34.7)
28	1.375 (34.9)	1.614 (41.0)	2.085 (53.0)	1.750 (44.5)	1.250 (31.8)	1.614 (41.0)
32	1.624 (41.2)	1.864 (47.3)	2.335 (59.3)	1.625 (41.3)	1.625 (41.3)	1.865 (47.4)
40	1.874 (47.6)	2.364 (60.0)	2.835 (72.0)	1.500 (38.1)	1.875 (47.6)	2.365 (60.1)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.

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Printed in U.S.A.

D38999/28
Jam Nut

Glenair Connector Designator H

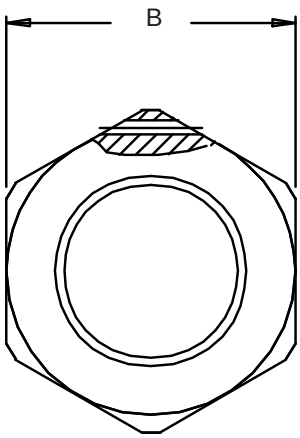
MIL-DTL-38999 Series III & IV, EN3645

D38999/28-11 F

Basic Part No.

Dash No.

Material and Finish:
C = Aluminum, Anodize
F = Aluminum, Electroless Nickel
K = Corrosion Resistant Steel Passivate
W = Aluminum, Cadmium Olive Drab over Electroless Nickel



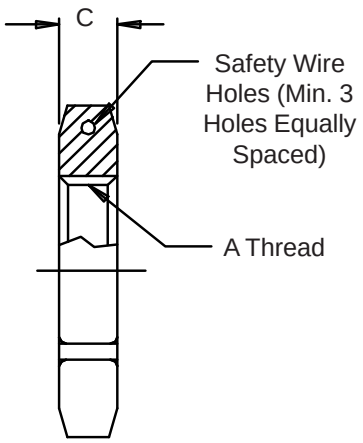


TABLE I

Dash No.	Shell Size Series III	Shell Size Series IV	A Thread Class 2B	B Hex Max	C +.018 -.000	C (.45) (.00)
1	9	--	M17 X 1 - 6H*	.945 (24.00)	.125	(3.17)
2	11	--	M20 X 1 - 6H*	1.063 (27.00)	.125	(3.17)
3	13	11	M25 X 1 - 6H	1.260 (32.00)	.125	(3.17)
4	15	13	M28 X 1 - 6H	1.417 (36.00)	.125	(3.17)
5	--	15	M31 X 1 - 6H	1.614 (41.00)	.125	(3.17)
6	17	--	M32 X 1 - 6H	1.457 (37.00)	.125	(3.17)
7	--	17	M34 X 1 - 6H	1.614 (41.00)	.125	(3.17)
8	19	--	M35 X 1 - 6H	1.614 (41.00)	.125	(3.17)
9	21	19	M38 X 1 - 6H	1.811 (46.00)	.125	(3.17)
10	23	21	M41 X 1 - 6H	1.969 (50.00)	.125	(3.17)
11	25	23	M44 X 1 - 6H	2.017 (51.23)	.125	(3.17)
12	--	25	M47 X 1 - 6H	2.165 (55.00)	.125	(3.17)

* Modified Minor Diameter

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.

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Glenair®

M83723/70
Receptacle Adapter

MIL-DTL-83723
Series III
Classes A, G, R and W

M83723/70 W 22

Basic Part No. — Shell Size

Material and Finish:
- A = Aluminum, Black Anodize
- R = Aluminum, Electroless Nickel
- G = Corrosion Resistant Steel Passivate
- W = Aluminum, Cadmium Olive Drab over Electroless Nickel

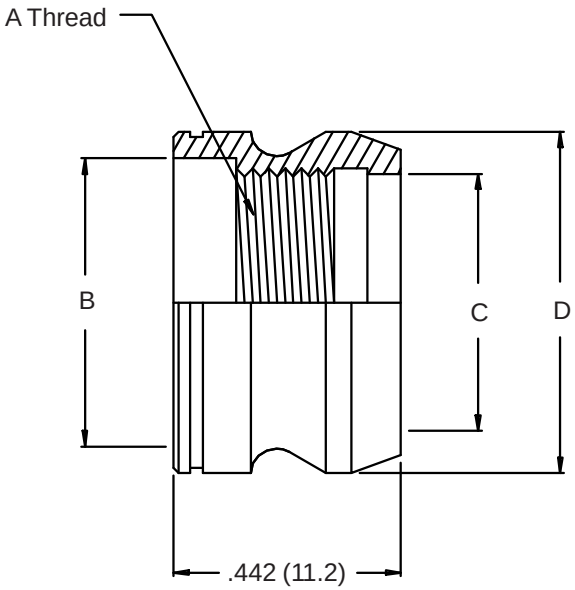


TABLE I

Shell Size	A Thread UNEF-2B	B Dia Max	C Dia	D Dia Max
8	.5264 - 24	.579 (14.7)	.525 (13.3)	.689 (17.5)
10	.6875 - 24	.714 (18.1)	.650 (16.5)	.814 (20.7)
12	.8750 - 20	.894 (22.7)	.840 (21.3)	1.001 (25.4)
14	.9375 - 20	.954 (24.2)	.900 (22.9)	1.064 (27.0)
16	1.0625 - 18	1.079 (27.4)	1.025 (26.0)	1.189 (30.2)
18	1.1875 - 18	1.204 (30.6)	1.150 (29.2)	1.330 (33.8)
20	1.3125 - 18	1.329 (33.8)	1.275 (32.4)	1.455 (37.0)
22	1.4375 - 18	1.454 (36.9)	1.400 (35.6)	1.580 (40.1)
24	1.5625 - 18	1.579 (40.1)	1.525 (38.7)	1.705 (43.3)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.

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AS85049/32-1
90° Adapter, Non-Environmental, RFI

MIL-DTL-38999
Series I & II

M85049/32-1-8
Basic Part No. — Dash No.

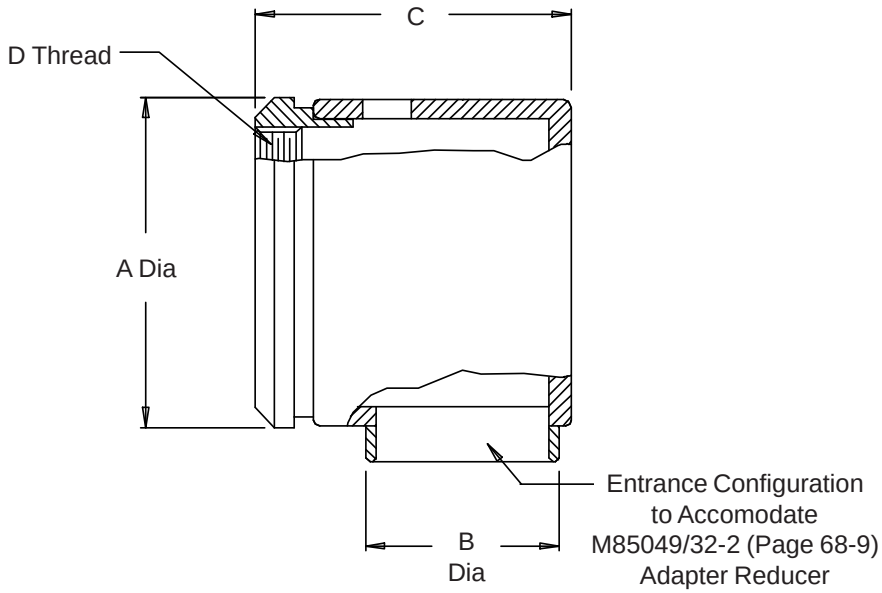


TABLE I

Dash No.	Shell Size Series I	Shell Size Series II	A Dia Max	B Dia Max	C Max	D Thread Class 2B
8	9	8	.594 (15.1)	.359 (9.1)	.719 (18.3)	.4375 - 28 UNEF
10	11	10	.719 (18.3)	.406 (10.3)	.766 (19.5)	.5625 - 24 UNEF
12	13	12	.844 (21.4)	.500 (12.7)	.859 (21.8)	.6875 - 24 UNEF
14	15	14	.969 (24.6)	.578 (14.7)	.938 (23.8)	.8125 - 20 UNEF
16	17	16	1.094 (27.8)	.641 (16.3)	1.000 (25.4)	.9375 - 20 UNEF
18	19	18	1.219 (31.0)	.688 (17.5)	1.047 (26.6)	1.0625 - 18 UNEF
20	21	20	1.344 (34.1)	.734 (18.6)	1.094 (27.8)	1.1875 - 18 UNEF
22	23	22	1.469 (37.3)	.796 (20.2)	1.156 (29.4)	1.3125 - 18 UNEF
24	25	24	1.594 (40.5)	.859 (21.8)	1.219 (31.0)	1.4375 - 18 UNEF

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.
3. Material: Copper alloy. Finish: Tin-lead solder plate.

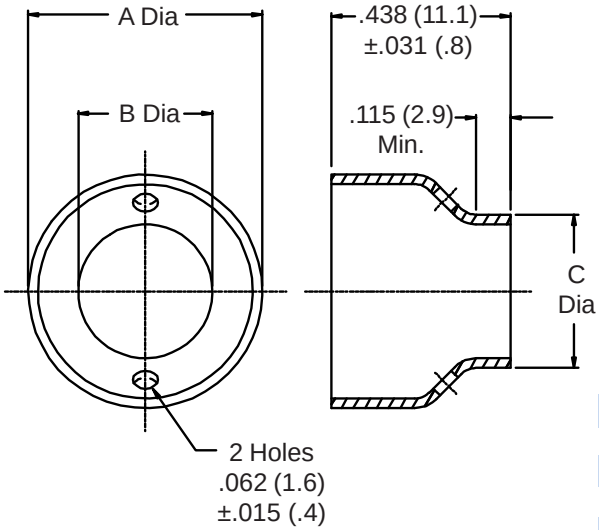
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Glenair®

AS85049/32-2
Adapter Reducer

MIL-DTL-38999
Series I & II

M85049/32-2-8
Basic Part No. — Dash No.



1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.
3. Material: Copper alloy. Finish: Tin-lead solder plate.
4. Adapter reducer for use with M85049/32-1 and M85049/33-1.

TABLE I

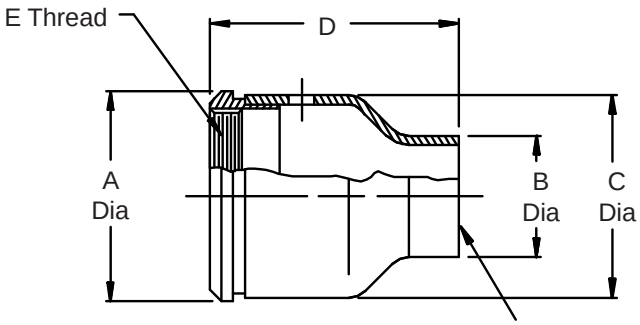
Dash No.	Fits Adapter Shell Size	A Dia Ref		B Dia Min		C Max	
81	8	.291	(7.4)	.163	(4.1)	.219	(5.6)
82	8	.291	(7.4)	.171	(4.3)	.234	(5.9)
83	8	.291	(7.4)	.187	(4.7)	.250	(6.4)
101	10	.346	(8.8)	.216	(5.5)	.266	(6.8)
121	12	.441	(11.2)	.197	(5.0)	.250	(6.4)
122	12	.441	(11.2)	.216	(5.5)	.266	(6.8)
123	12	.441	(11.2)	.279	(7.1)	.328	(8.3)
141	14	.506	(12.9)	.216	(5.5)	.266	(6.8)
142	14	.506	(12.9)	.289	(7.3)	.344	(8.7)
143	14	.506	(12.9)	.311	(7.9)	.359	(9.1)
144	14	.506	(12.9)	.342	(8.7)	.391	(9.9)
145	14	.506	(12.9)	.359	(9.1)	.406	(10.3)
146	14	.571	(14.5)	.386	(9.8)	.438	(11.1)
161	16	.571	(14.5)	.216	(5.5)	.266	(6.8)
162	16	.571	(14.5)	.289	(7.3)	.344	(8.7)
163	16	.571	(14.5)	.342	(8.7)	.391	(9.9)
164	16	.571	(14.5)	.405	(10.3)	.453	(11.5)
165	16	.571	(14.5)	.327	(8.3)	.375	(9.5)
181	18	.616	(15.6)	.216	(5.5)	.266	(6.8)
182	18	.616	(15.6)	.289	(7.3)	.344	(8.7)
183	18	.616	(15.6)	.342	(8.7)	.391	(9.9)
184	18	.616	(15.6)	.380	(9.7)	.430	(10.9)
185	18	.616	(15.6)	.450	(11.4)	.500	(12.7)
201	20	.664	(16.9)	.327	(8.3)	.375	(9.5)
202	20	.664	(16.9)	.390	(9.9)	.453	(11.5)
203	20	.664	(16.9)	.444	(11.3)	.500	(12.7)
204	20	.664	(16.9)	.405	(10.3)	.469	(11.9)
205	20	.664	(16.9)	.483	(12.3)	.531	(13.5)
206	20	.664	(16.9)	.499	(12.7)	.547	(13.9)
221	22	.738	(18.7)	.358	(9.1)	.406	(10.3)
222	22	.738	(18.7)	.437	(11.1)	.484	(12.3)
223	22	.738	(18.7)	.452	(11.5)	.500	(12.7)
224	22	.738	(18.7)	.468	(11.9)	.516	(13.1)
225	22	.738	(18.7)	.561	(14.2)	.609	(15.5)
241	24	.796	(20.2)	.593	(15.1)	.641	(16.3)

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AS85049/33-1
Adapter, Non-Environmental, RFI

MIL-DTL-38999
Series I & II

M85049/33-1-8
Basic Part No. — Dash No.



Entrance Configuration to Accomodate
M85049/32-2 (Page 68-9)
Adapter Reducer

TABLE I

Dash No.	Shell Size Series I	Shell Size Series II	A Dia Max	B Dia Max	C Dia Max	D Max	E Thread Class 2B
8	9	8	.594 (15.1)	.359 (9.1)	.516 (13.1)	.844 (21.4)	.4375 - 28 UNEF
10	11	10	.719 (18.3)	.406 (10.3)	.641 (16.3)	.969 (24.6)	.5625 - 24 UNEF
12	13	12	.844 (21.4)	.500 (12.7)	.766 (19.5)	1.094 (27.8)	.6875 - 24 UNEF
14	15	14	.969 (24.6)	.578 (14.7)	.891 (22.6)	1.156 (29.4)	.8125 - 20 UNEF
16	17	16	1.094 (27.8)	.641 (16.3)	1.016 (25.8)	1.219 (31.0)	.9375 - 20 UNEF
18	19	18	1.219 (31.0)	.688 (17.5)	1.141 (29.0)	1.344 (34.1)	1.0625 - 18 UNEF
20	21	20	1.344 (34.1)	.734 (18.6)	1.265 (32.1)	1.469 (37.3)	1.1875 - 18 UNEF
22	23	22	1.469 (37.3)	.796 (20.2)	1.391 (35.3)	1.594 (40.5)	1.3125 - 18 UNEF
24	25	24	1.594 (40.5)	.859 (21.8)	1.516 (38.5)	1.719 (43.7)	1.4375 - 18 UNEF

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.
3. Material: Copper alloy. Finish: Tin-lead solder plate.

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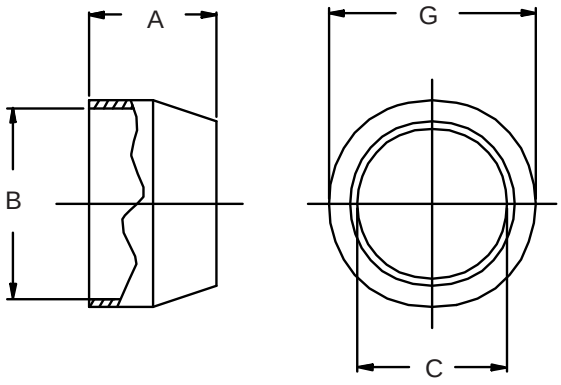
Glenair®

AS85049/74
Potting Boot

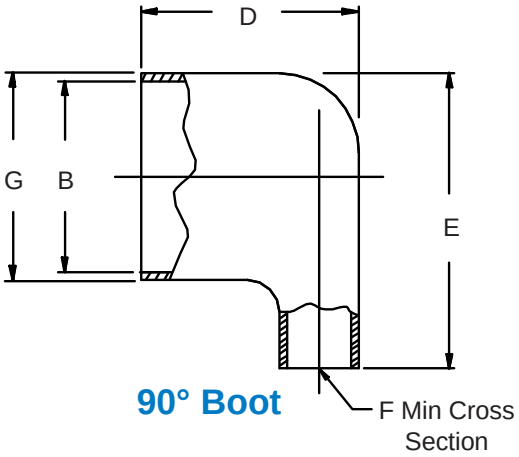
For Use With M85049/61 Potting Boot Ring (Page 30-3)

M85049/74-10-1

- Basic Part No.
- Shell Size
- Geometry
  - 1 = Straight
  - 2 = 90°



Straight Boot



90° Boot

TABLE I

Shell Size	A Min		A Max		B Dia ±.005	(.1)	C Min ID		D Max		E Max		F Min		G Max	
8	.450	(11.4)	.500	(12.7)	.511	(13.0)	.317	(8.1)	.766	(19.5)	1.000	(25.4)	.110	(2.8)	.608	(15.4)
10	.450	(11.4)	.500	(12.7)	.637	(16.2)	.434	(11.0)	.922	(23.4)	1.125	(28.6)	.200	(5.1)	.734	(18.6)
12	.450	(11.4)	.500	(12.7)	.761	(19.3)	.548	(13.9)	1.031	(26.2)	1.125	(28.6)	.290	(7.4)	.858	(21.8)
14	.450	(11.4)	.500	(12.7)	.887	(22.5)	.673	(17.1)	1.016	(25.8)	1.297	(32.9)	.400	(10.2)	.984	(25.0)
16	.450	(11.4)	.500	(12.7)	1.013	(25.7)	.798	(20.3)	1.016	(25.8)	1.375	(34.9)	.490	(12.4)	1.110	(28.2)
18	.450	(11.4)	.500	(12.7)	1.137	(28.9)	.899	(22.8)	1.078	(27.4)	1.469	(37.3)	.590	(15.0)	1.234	(31.3)
20	.550	(14.0)	.594	(15.1)	1.263	(32.1)	1.024	(26.0)	1.094	(27.8)	1.625	(41.3)	.730	(18.5)	1.360	(34.5)
22	.550	(14.0)	.594	(15.1)	1.387	(35.2)	1.149	(29.2)	1.094	(27.8)	1.703	(43.3)	.860	(21.8)	1.484	(37.7)
24	.550	(14.0)	.594	(15.1)	1.513	(38.4)	1.274	(32.4)	1.281	(32.5)	2.047	(52.0)	1.070	(27.2)	1.610	(40.9)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.
3. Material: Translucent nylon, mimimum wall thickness .020 (.51).

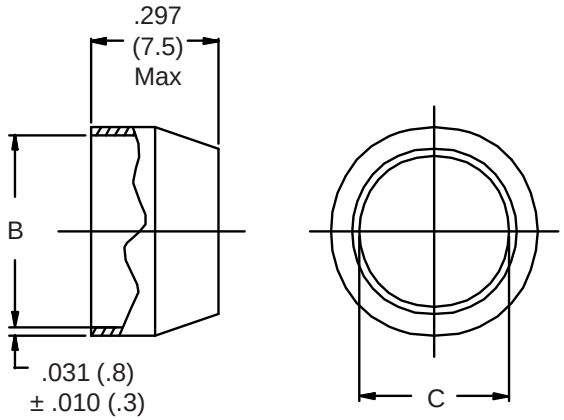
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AS85049/75
Potting Boot

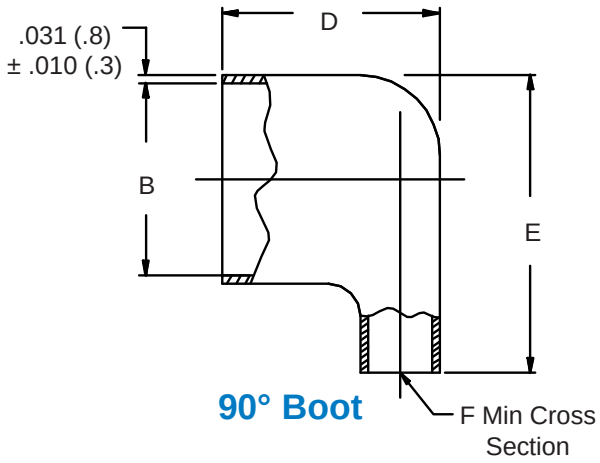
For Use With M85049/58 Potting Boot Ring (Page 30-2)

M85049/75-10-1

- Basic Part No.
- Shell Size
- Geometry
  - 1 = Straight
  - 2 = 90°



Straight Boot



90° Boot

TABLE I

Shell Size	B Dia ±.005	(.1)	C Min ID		D Max		E Max		F Min	
8	.527	(13.4)	.434	(11.0)	.438	(11.1)	.766	(19.5)	.073	(1.9)
10	.652	(16.6)	.548	(13.9)	.469	(11.9)	.891	(22.6)	.117	(3.0)
12	.776	(19.7)	.673	(17.1)	.562	(14.3)	1.031	(26.2)	.206	(5.2)
14	.898	(22.8)	.798	(20.3)	.719	(18.3)	1.156	(29.4)	.384	(9.8)
16	1.016	(25.8)	.899	(22.8)	.781	(19.8)	1.287	(32.7)	.443	(11.3)
18	1.140	(29.0)	1.024	(26.0)	.844	(21.4)	1.406	(35.7)	.561	(14.2)
20	1.265	(32.1)	1.149	(29.2)	.906	(23.0)	1.531	(38.9)	.693	(17.6)
22	1.390	(35.3)	1.274	(32.4)	.938	(23.8)	1.656	(42.1)	.840	(21.3)
24	1.515	(38.5)	1.399	(35.5)	1.031	(26.2)	1.781	(45.2)	.999	(25.4)

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.
3. Material: Translucent nylon.

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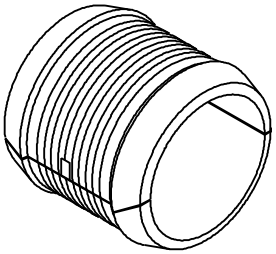
AS85049/93
Banding Split-Ring

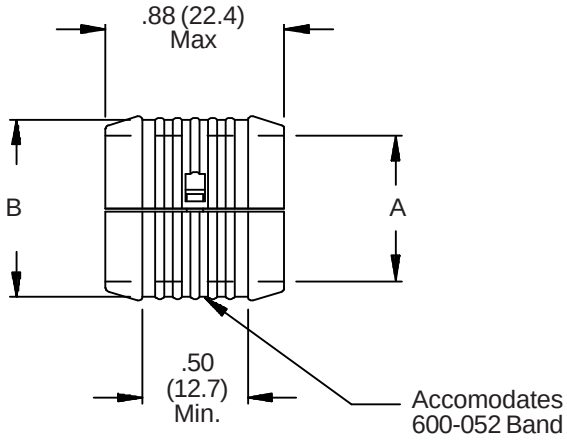
M85049/93-10
Basic Part No. — Dash No.

1. For complete dimensions see applicable Military Specification.
2. Metric dimensions (mm) are indicated in parentheses.
3. Use with Glenair banding backshells and braid socks. Consult factory for specific application part numbers.

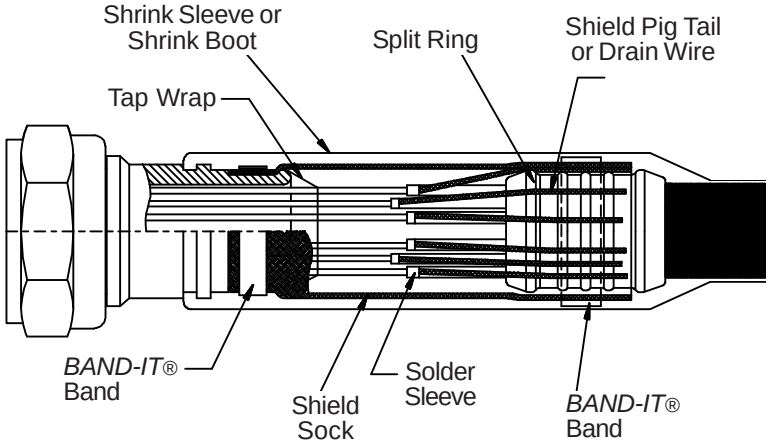
TABLE I

	A Dia		B Dia	
Dash No.	± .01	(0.3)	± .03	(0.8)
04	.25	(6.4)	.36	(9.1)
06	.38	(9.7)	.49	(12.4)
08	.50	(12.7)	.61	(15.5)
10	.63	(16.0)	.74	(18.8)
12	.75	(19.1)	.86	(21.8)
14	.88	(22.4)	.99	(25.1)
16	1.00	(25.4)	1.11	(28.2)
18	1.13	(28.7)	1.24	(31.5)
20	1.25	(31.8)	1.36	(34.5)
22	1.38	(35.1)	1.49	(37.8)
24	1.50	(38.1)	1.61	(40.9)
26	1.63	(41.4)	1.74	(44.2)
28	1.75	(44.5)	1.86	(47.2)



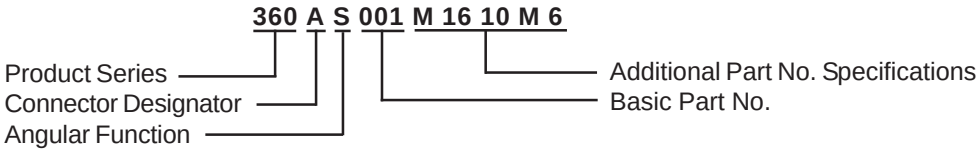


SAMPLE APPLICATION



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SAMPLE PART NUMBER DEVELOPMENT



Prod. Ser. Basic No.	Angle/ Profile	Connector Designator	Page
310-001	H	AFHLS	310-2
310-001	J	AFHLS	310-2
310-001	S	AFGHJLS	310-2
310-006	S	AFHLS	310-6
310-034	H	ABCDEFGHJKLS	310-4
310-034	J	ABCDEFGHJKLS	310-4
310-034	S	ABCDEFGHJKLS	310-4
311-001	A	AFHJLS	311-2
311-001	B	AFHJLS	311-2
311-001	C	AFHLS	311-6
311-001	D	AFHLS	311-6
311-001	F	AFHLS	311-6
311-001	H	AFHLS	311-4
311-001	J	AFHLS	311-4
311-001	S	AFHJLS	311-2
311-002	A	ABCDEFGHJKLS	311-8
311-002	B	ABCDEFGHJKLS	311-8
311-002	H	ABCDEFGHJKLS	311-10
311-002	J	ABCDEFGHJKLS	311-10
311-002	S	ABCDEFGHJKLS	311-8
311-039	C	AFHLS	311-14
311-039	D	AFHLS	311-14
311-039	F	AFHLS	311-14
311-039	H	AFHLS	311-12
311-039	J	AFHLS	311-12
311-039	S	AFHLS	311-12
319-001	A	AFHLS	319-2
319-001	B	AFHLS	319-2
319-001	C	AFHLS	319-6
319-001	D	AFHLS	319-6
319-001	F	AFHLS	319-6
319-001	H	AFHLS	319-4
319-001	J	AFHLS	319-4
319-001	S	AFHLS	319-2
319-043	H	ABCDEFGHJKLS	319-8
319-043	J	ABCDEFGHJKLS	319-8
319-043	S	ABCDEFGHJKLS	319-8
319-044	C	AFHLS	319-12
319-044	D	AFHLS	319-12
319-044	F	AFHLS	319-12
319-044	H	AFHLS	319-10
319-044	J	AFHLS	319-10
319-044	S	AFHLS	319-10
320-001	A	AFHLS	32-2
320-001	B	AFHLS	32-2
320-001	S	AFHLS	32-2
320-002	S	ABCDEFGHJKLS	32-3
330-001	S	AFHLS	33-2
330-002	S	AFHLS	33-2
330-003	S	ABCDEFGHJKLS	33-3
330-004	S	ABCDEFGHJKLS	33-3
340-001	S	AFGHJLS	34-2
340-002	S	ABCDEFGHJKLS	34-3

Prod. Ser. Basic No.	Angle/ Profile	Connector Designator	Page
360-001	A	AFHLS	36-2
360-001	B	AFHLS	36-2
360-001	S	AFHLS	36-2
360-002	A	ABCDEFGHJKLS	36-4
360-002	B	ABCDEFGHJKLS	36-4
360-002	S	ABCDEFGHJKLS	36-4
360-003	H	G	36-6
360-003	J	G	36-6
360-003	S	G	36-6
360-017	H	AFHLS	36-8
360-017	J	AFHLS	36-8
360-017	S	AFHLS	36-8
370-001	A	AFHLS	37-4
370-001	B	AFHLS	37-4
370-001	M	AFHLS	37-6
370-001	N	AFHLS	37-6
370-001	S	AFHLS	37-4
370-002	A	ABCDEFGHJKLS	37-10
370-002	B	ABCDEFGHJKLS	37-10
370-002	M	ABCDEFGHJKLS	37-12
370-002	N	ABCDEFGHJKLS	37-12
370-002	S	ABCDEFGHJKLS	37-10
370-003	A	AFHLS	37-14
370-003	B	AFHLS	37-14
370-003	S	AFHLS	37-14
370-004	A	ABCDEFGHJKLS	37-18
370-004	B	ABCDEFGHJKLS	37-18
370-004	S	ABCDEFGHJKLS	37-18
370-005	A	AFHLS	37-20
370-005	B	AFHLS	37-20
370-005	S	AFHLS	37-20
370-006	A	ABCDEFGHJKLS	37-22
370-006	B	ABCDEFGHJKLS	37-22
370-006	S	ABCDEFGHJKLS	37-22
370-007	H	G	37-8
370-007	J	G	37-8
370-007	S	G	37-8
370-008	A	G	37-16
370-008	B	G	37-16
370-008	S	G	37-16
370-023	P	AFHLS	37-24
370-023	R	AFHLS	37-24
370-024	P	AFHLS	37-26
370-024	R	AFHLS	37-26
380-001	A	AFHLS	38-14
380-001	B	AFHLS	38-14
380-001	S	AFHLS	38-14
380-002	A	ABCDEFGHJKLS	38-18
380-002	B	ABCDEFGHJKLS	38-18
380-002	S	ABCDEFGHJKLS	38-18
380-005	A	AFHLS	38-26
380-005	B	AFHLS	38-26
380-005	S	AFHLS	38-26

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Part Number Index

SAMPLE PART NUMBER DEVELOPMENT

360 A S 001 M 16 10 M 6

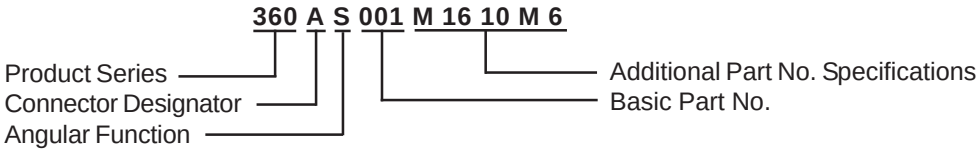
- 360 — Product Series
- A — Connector Designator
- S — Angle and Profile
- 001 — Basic Part No.
- M 16 10 M 6 — Additional Part No. Specifications

Prod. Ser. Basic No.	Angle/ Profile	Connector Designator	Page
380-006	A	ABCDEFGHJKLS	38-28
380-006	B	ABCDEFGHJKLS	38-28
380-006	S	ABCDEFGHJKLS	38-28
380-007	A	AFHLS	38-30
380-007	B	AFHLS	38-30
380-007	C	AFHLS	38-36
380-007	D	AFHLS	38-36
380-007	F	AFHLS	38-36
380-007	H	AFHLS	38-34
380-007	J	AFHLS	38-34
380-007	M	AFHLS	38-32
380-007	N	AFHLS	38-32
380-007	S	AFHLS	38-30
380-008	A	ABCDEFGHJKLS	38-38
380-008	B	ABCDEFGHJKLS	38-38
380-008	D	ABCDEFGHJKLS	38-42
380-008	F	ABCDEFGHJKLS	38-42
380-008	H	ABCDEFGHJKLS	38-40
380-008	J	ABCDEFGHJKLS	38-40
380-008	S	ABCDEFGHJKLS	38-38
380-009	A	AFHLS	38-50
380-009	B	AFHLS	38-50
380-009	C	AFHLS	38-56
380-009	D	AFHLS	38-56
380-009	F	AFHLS	38-56
380-009	H	AFHLS	38-54
380-009	J	AFHLS	38-54
380-009	M	AFHLS	38-52
380-009	N	AFHLS	38-52
380-009	S	AFHLS	38-50
380-010	A	ABCDEFGHJKLS	38-58
380-010	B	ABCDEFGHJKLS	38-58
380-010	D	ABCDEFGHJKLS	38-62
380-010	F	ABCDEFGHJKLS	38-62
380-010	H	ABCDEFGHJKLS	38-60
380-010	J	ABCDEFGHJKLS	38-60
380-010	S	ABCDEFGHJKLS	38-58
380-011	H	G	38-16
380-011	J	G	38-16
380-011	S	G	38-16
380-013	A	AFHLS	38-70
380-013	B	AFHLS	38-70
380-013	C	AFHLS	38-74
380-013	D	AFHLS	38-74
380-013	F	AFHLS	38-74
380-013	H	AFHLS	38-72
380-013	J	AFHLS	38-72
380-013	S	AFHLS	38-70
380-014	A	ABCDEFGHJKLS	38-76
380-014	B	ABCDEFGHJKLS	38-76
380-014	D	ABCDEFGHJKLS	38-78
380-014	F	ABCDEFGHJKLS	38-78
380-014	S	ABCDEFGHJKLS	38-76

Prod. Ser. Basic No.	Angle/ Profile	Connector Designator	Page
380-018	A	AFHLS	38-84
380-018	B	AFHLS	38-84
380-018	C	AFHLS	38-90
380-018	D	AFHLS	38-90
380-018	F	AFHLS	38-90
380-018	H	AFHLS	38-88
380-018	J	AFHLS	38-88
380-018	M	AFHLS	38-86
380-018	N	AFHLS	38-86
380-018	S	AFHLS	38-84
380-019	A	ABCDEFGHJKLS	38-92
380-019	B	ABCDEFGHJKLS	38-92
380-019	C	ABCDEFGHJKLS	38-96
380-019	D	ABCDEFGHJKLS	38-96
380-019	F	ABCDEFGHJKLS	38-96
380-019	H	ABCDEFGHJKLS	38-94
380-019	J	ABCDEFGHJKLS	38-94
380-019	S	ABCDEFGHJKLS	38-92
380-071	A	AFHLS	38-124
380-071	B	AFHLS	38-124
380-071	S	AFHLS	38-124
380-103	A	AFHLS	38-104
380-103	B	AFHLS	38-104
380-103	C	AFHLS	38-110
380-103	D	AFHLS	38-110
380-103	F	AFHLS	38-110
380-103	H	AFHLS	38-108
380-103	J	AFHLS	38-108
380-103	M	AFHLS	38-106
380-103	N	AFHLS	38-106
380-103	S	AFHLS	38-104
380-104	A	ABCDEFGHJKLS	38-112
380-104	B	ABCDEFGHJKLS	38-112
380-104	D	ABCDEFGHJKLS	38-116
380-104	F	ABCDEFGHJKLS	38-116
380-104	H	ABCDEFGHJKLS	38-114
380-104	J	ABCDEFGHJKLS	38-114
380-104	S	ABCDEFGHJKLS	38-112
380-105	C	AFHLS	38-122
380-105	D	AFHLS	38-122
380-105	F	AFHLS	38-122
380-105	H	AFHLS	38-120
380-105	J	AFHLS	38-120
380-105	M	AFHLS	38-118
380-105	N	AFHLS	38-118
380-105	S	AFHLS	38-118
380-106	C	AFHLS	38-48
380-106	D	AFHLS	38-48
380-106	F	AFHLS	38-48
380-106	H	AFHLS	38-46
380-106	J	AFHLS	38-46
380-106	M	AFHLS	38-44
380-106	N	AFHLS	38-44

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SAMPLE PART NUMBER DEVELOPMENT



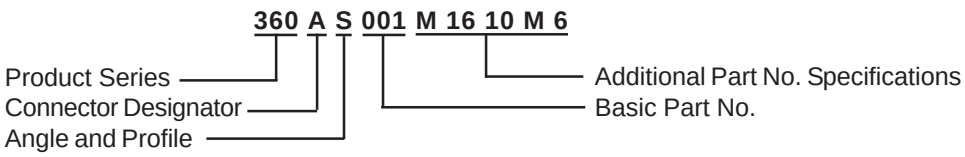
Prod. Ser. Basic No.	Angle/ Profile	Connector Designator	Page
380-106	S	AFHLS	38-44
380-107	C	AFHLS	38-68
380-107	D	AFHLS	38-68
380-107	F	AFHLS	38-68
380-107	H	AFHLS	38-66
380-107	J	AFHLS	38-66
380-107	M	AFHLS	38-64
380-107	N	AFHLS	38-64
380-107	S	AFHLS	38-64
380-109	C	AFHLS	38-102
380-109	D	AFHLS	38-102
380-109	F	AFHLS	38-102
380-109	H	AFHLS	38-100
380-109	J	AFHLS	38-100
380-109	M	AFHLS	38-98
380-109	N	AFHLS	38-98
380-109	S	AFHLS	38-98
380-111	C	AFHLS	38-82
380-111	D	AFHLS	38-82
380-111	F	AFHLS	38-82
380-111	H	AFHLS	38-80
380-111	J	AFHLS	38-80
380-111	S	AFHLS	38-80
380-115	A	AFHLS	38-20
380-115	B	AFHLS	38-20
380-115	S	AFHLS	38-20
380-116	H	G	38-22
380-116	J	G	38-22
380-116	S	G	38-22
380-117	A	ABCDEFGHJKLS	38-24
380-117	B	ABCDEFGHJKLS	38-24
380-117	S	ABCDEFGHJKLS	38-24
390-001	A	AFHLS	39-12
390-001	B	AFHLS	39-12
390-001	S	AFHLS	39-12
390-002	A	ABCDEFGHJKLS	39-16
390-002	B	ABCDEFGHJKLS	39-16
390-002	S	ABCDEFGHJKLS	39-16
390-003	A	AFHLS	39-18
390-003	B	AFHLS	39-18
390-003	S	AFHLS	39-18
390-004	A	AFHLS	39-22
390-004	B	AFHLS	39-22
390-004	S	AFHLS	39-22
390-005	A	AFHLS	39-24
390-005	B	AFHLS	39-24
390-005	S	AFHLS	39-24
390-006	A	ABCDEFGHJKLS	39-28
390-006	B	ABCDEFGHJKLS	39-28
390-006	S	ABCDEFGHJKLS	39-28
390-007	A	AFHLS	39-30
390-007	B	AFHLS	39-30
390-007	S	AFHLS	39-30

Prod. Ser. Basic No.	Angle/ Profile	Connector Designator	Page
390-008	A	ABCDEFGHJKLS	39-32
390-008	B	ABCDEFGHJKLS	39-32
390-008	S	ABCDEFGHJKLS	39-32
390-009	A	AFHLS	39-34
390-009	B	AFHLS	39-34
390-009	S	AFHLS	39-34
390-010	A	ABCDEFGHJKLS	39-36
390-010	B	ABCDEFGHJKLS	39-36
390-010	S	ABCDEFGHJKLS	39-36
390-011	A	AFHLS	39-38
390-011	B	AFHLS	39-38
390-011	K	AFHLS	39-40
390-011	L	AFHLS	39-40
390-011	S	AFHLS	39-38
390-012	A	ABCDEFGHJKLS	39-42
390-012	B	ABCDEFGHJKLS	39-42
390-012	S	ABCDEFGHJKLS	39-42
390-013	H	G	39-14
390-013	J	G	39-14
390-013	S	G	39-14
390-014	H	G	39-20
390-014	J	G	39-20
390-014	S	G	39-20
390-015	H	G	39-26
390-015	J	G	39-26
390-015	S	G	39-26
390-035	A	ABCDEFGHJKLS	39-76
390-035	B	ABCDEFGHJKLS	39-76
390-035	S	ABCDEFGHJKLS	39-76
390-036	A	AFHLS	39-74
390-036	B	AFHLS	39-74
390-036	S	AFHLS	39-74
390-037	A	AFHLS	39-78
390-037	B	AFHLS	39-78
390-037	S	AFHLS	39-78
390-038	A	ABCDEFGHJKLS	39-80
390-038	B	ABCDEFGHJKLS	39-80
390-038	S	ABCDEFGHJKLS	39-80
390-053	A	AFHLS	39-60
390-053	B	AFHLS	39-60
390-053	H	AFHLS	39-64
390-053	J	AFHLS	39-64
390-053	M	AFHLS	39-62
390-053	N	AFHLS	39-62
390-053	S	AFHLS	39-60
390-054	A	ABCDEFGHJKLS	39-66
390-054	B	ABCDEFGHJKLS	39-66
390-054	H	ABCDEFGHJKLS	39-68
390-054	J	ABCDEFGHJKLS	39-68
390-054	S	ABCDEFGHJKLS	39-66
390-055	H	AFHLS	39-72
390-055	J	AFHLS	39-72
390-055	M	AFHLS	39-70

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SAMPLE PART NUMBER DEVELOPMENT

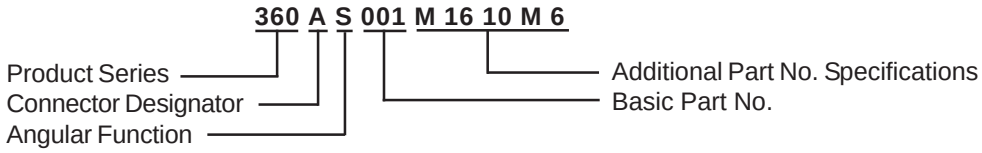


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390-055	N	AFHLS	39-70
390-055	S	AFHLS	39-70
390-056	A	AFHLS	39-46
390-056	B	AFHLS	39-46
390-056	H	AFHLS	39-50
390-056	J	AFHLS	39-50
390-056	M	AFHLS	39-48
390-056	N	AFHLS	39-48
390-056	S	AFHLS	39-46
390-057	A	ABCDEFGHJKLS	39-52
390-057	B	ABCDEFGHJKLS	39-52
390-057	H	ABCDEFGHJKLS	39-54
390-057	J	ABCDEFGHJKLS	39-54
390-057	S	ABCDEFGHJKLS	39-52
390-058	H	AFHLS	39-58
390-058	J	AFHLS	39-58
390-058	M	AFHLS	39-56
390-058	N	AFHLS	39-56
390-058	S	AFHLS	39-56
390-059	H	AFHLS	39-44
390-059	J	AFHLS	39-44
390-059	S	AFHLS	39-44
390-061	P	AFHLS	39-82
390-061	R	AFHLS	39-82
390-062	P	AFHLS	39-84
390-062	R	AFHLS	39-84
400-001	A	AFHLS	40-4
400-001	B	AFHLS	40-4
400-001	C	AFHLS	40-8
400-001	D	AFHLS	40-8
400-001	F	AFHLS	40-8
400-001	H	AFHLS	40-6
400-001	J	AFHLS	40-6
400-001	S	AFHLS	40-4
400-002	A	ABCDEFGHJKLS	40-10
400-002	B	ABCDEFGHJKLS	40-10
400-002	C	ABCDEFGHJKLS	40-14
400-002	D	ABCDEFGHJKLS	40-14
400-002	F	ABCDEFGHJKLS	40-14
400-002	H	ABCDEFGHJKLS	40-12
400-002	J	ABCDEFGHJKLS	40-12
400-002	S	ABCDEFGHJKLS	40-10
400-015	C	AFHLS	40-20
400-015	D	AFHLS	40-20
400-015	F	AFHLS	40-20
400-015	H	AFHLS	40-18
400-015	J	AFHLS	40-18
400-015	S	AFHLS	40-16
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401-008	H	AFHL	40-22
401-008	J	AFHL	40-22
401-008	S	AFHL	40-22
403-001	A	AFHL	40-24

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403-001	S	AFHL	40-24
407-016	H	AFHL	40-26
407-016	J	AFHL	40-26
407-016	S	AFHL	40-26
407-043	H	AFHL	40-28
407-043	J	AFHL	40-28
407-043	S	AFHL	40-28
420-001	A	AFHLS	42-2
420-001	B	AFHLS	42-2
420-001	S	AFHLS	42-2
420-002	A	ABCDEFGHJKLS	42-4
420-002	B	ABCDEFGHJKLS	42-4
420-002	S	ABCDEFGHJKLS	42-4
440-001	D	ABCDEFGHJKLS	440-10
440-001	F	ABCDEFGHJKLS	440-10
440-001	H	ABCDEFGHJKLS	440-8
440-001	J	ABCDEFGHJKLS	440-8
440-001	S	ABCDEFGHJKLS	440-8
440-030	C	AFHLS	440-16
440-030	D	AFHLS	440-16
440-030	F	AFHLS	440-16
440-030	H	AFHLS	440-12
440-030	J	AFHLS	440-12
440-030	M	AFHLS	440-14
440-030	N	AFHLS	440-14
440-030	S	AFHLS	440-12
440-031	D	ABCDEFGHJKLS	440-20
440-031	F	ABCDEFGHJKLS	440-20
440-031	H	ABCDEFGHJKLS	440-18
440-031	J	ABCDEFGHJKLS	440-18
440-031	S	ABCDEFGHJKLS	440-18
440-063	C	AFHLS	440-6
440-063	D	AFHLS	440-6
440-063	F	AFHLS	440-6
440-063	H	AFHLS	440-4
440-063	J	AFHLS	440-4
440-063	S	AFHLS	440-4
440-069	C	AFHLS	440-26
440-069	D	AFHLS	440-26
440-069	F	AFHLS	440-26
440-069	H	AFHLS	440-22
440-069	J	AFHLS	440-22
440-069	M	AFHLS	440-24
440-069	N	AFHLS	440-24
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SAMPLE PART NUMBER DEVELOPMENT



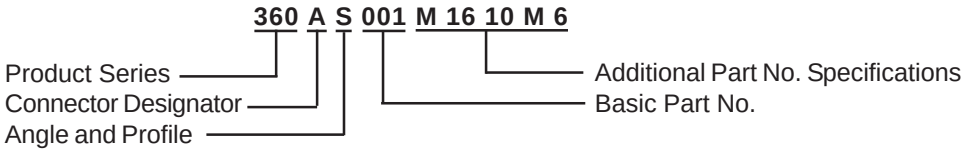
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440-071	J	ABCDEFGHJKLS	440-34
440-071	S	ABCDEFGHJKLS	440-34
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443-011	J	AFHLS	443-10
443-011	M	AFHLS	443-12
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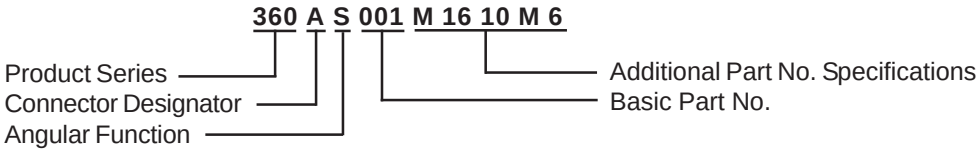


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Conversion Table

Multiply	By	To Obtain
acres	0.4047	hectares
atmospheres	1.10133	bars
atmospheres	0.0001033	kg per square meter
atmospheres	760	mm of mercury at 0°C
atmospheres	0.000010133	newtons per square meter
atmospheres	14.7	pounds per square inch
bars	0.9869	atmospheres
bars	100000	newtons per square meter
Btu	778.3	foot-pounds
Btu	0.000293	kilowatt-hours
Btu per hour	12.96	foot-pounds per minute
Btu per minute	17.58	watts
centimeters	0.03281	feet
centimeters	0.3937	inches
centimeters per second	1.969	feet per minute
centimeters per second	0.6	meters per minute
circular mils	0.000005067	square centimeters
circular mils	0.0000007854	square inches
circular mils	0.0005067	square millimeters
circular mils	0.7854	square mils
cubic centimeters	0.06102	cubic inches
cubic centimeters	0.001	liters
cubic feet	1728	cubic inches
cubic feet	0.02832	cubic meters
cubic feet	7.481	gallons (US liquid)
cubic feet	28.32	liters
cubic inches	16.393	cubic centimeters
cubic inches	0.0005787	cubic feet
cubic inches	0.00001639	cubic meters
cubic inches	0.01639	liters
cubic meters	35.31	cubic feet
cubic meters	1000	liters
dynes	0.00102	grams
dynes	0.00001	newtons
dynes	0.000002248	pounds
feet	30.48	centimeters
feet	12	inches
feet	0.0003048	kilometers
feet	0.06061	rods
feet of water (4°C)	0.8826	inches of mercury (0°C)
feet of water (4°C)	304.8	kg per square meter
feet of water (4°C)	62.43	pounds per square foot
feet per minute	0.508	centimeters per second
feet per minute	0.3048	meters per minute
feet per minute	0.01136	miles per hour
foot-pounds	0.001285	Btu
foot-pounds	1.356	joules
foot-pounds	.1383	kilogram-meters
foot-pounds	0.0000003766	kilowatt-hours
foot-pounds	1.3557	newton-meters
foot-pounds per minute	0.07716	Btu per hour
foot-pounds per minute	0.0226	watts
gallons (US liquid)	0.1337	cubic feet
gallons (US liquid)	0.003785	cubic meters
gallons (US liquid)	4	quarts
grams	980.7	dynes
grams	0.03527	ounce
grams per cm	0.0056	pounds per inch
grams per cubic cm	0.03613	pounds per cubic inch
grams per sq. cm	2.0481	pounds per square foot
hectares	2.471	acres
hectares	10000	square meters
horsepower	1.014	horsepower (metric)
horsepower (metric)	0.9863	horsepower
inches	2.54	centimeters
inches	0.8333	feet
inches	0.0254	meters
inches	25.4	millimeters
inches	1000	mils
inches	0.02778	yards
inches of mercury (0°C)	1.133	feet of water (4°C)
inches of mercury (0°C)	0.4912	pounds per square inch
inches of mercury (32°C)		33.86 millibars
inches of water (4°C)	0.07355	inches of mercury (0°C)
inches of water (4°C)	25.4	kg per square meter
inches of water (4°C)	0.5782	ounces per square inch
inches of water (4°C)	5.202	pounds per square foot
joules	0.7376	foot-pounds
joules	9.81	kilogram-meters
kilograms	9.807	newtons
kilograms	2.2046	pounds
kg.-calories per min.	69.77	watts
kilogram-force	9.81	newtons
kilogram-meters	7.233	foot-pounds
kilogram-meters	0.102	joules
kilograms per meter	0.672	pounds per foot
kilograms per meter	0.056	pounds per inch

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Military Part Number Reference Guide

The following cross reference lists Glenair connector accessories by military part number. It should be used as a guide to assist in finding commercial product substitutes for mil-spec products. Glenair's commercial products offer greater flexibility/options than the mil-spec products. Mil-spec products can be found in Glenair's *Military Standard Connector Accessories* catalog. If you are unable to locate a product in this catalog to satisfy your need, please contact your local Glenair sales representative or the Glenair factory for assistance.

Military Specification	Superceeding Part Number	Glenair's Commercial Catalog P/N	Description	Connector Interface or Designator (Below)	Page No.
GP2000		**	NAVSEA Series GP2000 Fittings	—	**
RP2000		**	NAVSEA Series RP2000 Fittings	—	**
MS3057A	AS85049/41	620-053 Style A	Str. Strain Relief	*****	62-2
MS3057B	AS85049/1	620-053 Style B	Str. Strain Relief	*****	62-2
MS3057C	AS85049/2	620-053 Style C	Str. Strain Relief	*****	62-2
MS3057D	AS85049/42	620-053 Style H	Str. Strain Relief	*****	62-2
MS3105		650BS001	Stowage Receptacle	MIL-DTLC-5015	65-6
MS3115		650DS001	Stowage Receptacle	MIL-DTL-26482	65-2
MS3152	AS85049/53	450AS001	Str. Qwik-Ty® Strain Relief	A	45-2
MS3153	AS85049/54	450AB001	45° Qwik-Ty® Strain Relief	A	45-2
MS3154	AS85049/55	450AA001	90° Qwik-Ty® Strain Relief	A	45-2
MS3158	AS85049/60-1	310AS001	Shrink Boot Adapter	A	310-2
MS3180		660-008	Protective Cover, Plug	MIL-DTL-26482	66-6
MS3181		660-009	Protective Cover, Recept.	MIL-DTL-26482	66-6
MS3184	AS85049/34	GS3184*	Adapter	D	**
MS3186		GS3186*	Jam Nut	Various	**
MS3188A	AS85049/8	390AA001	90° EMI/RFI Environmental Backshell	A	39-12
MS3188B	AS85049/9	370AA001	90° Environmental Backshell	A	37-4
MS3188C	AS85049/24	380AA001	90° EMI/RFI Non-Environmental Backshell	A	38-14
MS3189A	AS85049/6	390AB001	45° EMI/RFI Environmental Backshell	A	39-12
MS3189B	AS85049/7	370AB001	45° Environmental Backshell	A	37-4
MS3189C	AS85049/23	380AB001	45° EMI/RFI Non-Environmental Backshell	A	38-18
MS3415	AS85049/43	620AB047	45° Strain Relief	A	62-9
MS3416E	AS85049/31	610AS011	E Nut	A	61-2
MS3416G	AS85049/60-2G	310AS002	Shrink Boot Adapter	A	310-2
MS3417	AS85049/52-1	620AS046	Str. Strain Relief	A	62-6
MS3418	AS85049/51-1	620AA046	90° Strain Relief	A	62-6
MS3419	AS85049/26-1	440AS063	Crimp Ring Adapter	A	440-4
MS3420		**	Telescoping Bushing	—	**
MS3437A	AS85049/10	390AS001	Str. EMI/RFI Environmental Backshell	A	39-12
MS3437B	AS85049/11	370AS001	Str. Environmental Backshell	A	37-4
MS3437C	AS85049/25	380AS001	Str. EMI/RFI Non-Environmental Backshell	A	38-14
MS3480		TG38	Connector Wrench	MIL-DTL-5015 & MIL-DTL-83723 Ser. 2	***
MS3481		TG39	Connector Wrench	MIL-DTL-26482 Series 1 and 2, MIL-DTL-83723 Series I, and NAS 1599	***
MS3482		TG61	Connector Wrench	MIL-C-81511 Series 1 and 3	***
MS17349		660-007	Protective Cover, Recept.	MIL-C-22992	66-4
MS17350		660-006	Protective Cover, Plug	MIL-C-22992	66-4

LEGEND

* Original Commercial Part Number (Not Catalog #)
** Consult Factory
*** See Glenair's *Backshell Assembly, Banding Tools and Accessories* Catalog
**** See Glenair's *Composite Accessories* Catalog
***** MS "V" Thread Gen'l Duty "A" End Bell

BACKSHELL CONNECTOR DESIGNATORS

DESIG.	SPEC.	SERIES
A	MIL-C-5015	MS3400
	MIL-C-26482	2
	MIL-C-81703	3
	MIL-C-83723	I & III
	40M39569	
	DEF 5326-3	
	EN 2997, 3646	
	ESC 10, 11	
	LN 29504	
	NFC93422	HE302
	PAN 6432-1, -2	

DESIG.	SPEC.	SERIES
A	PATT 602	
B	MIL-C-5015	MS3100
C	MIL-C-22992	MS173XX
D	MIL-C-26482	1
E	MIL-C-26500	Aluminum
F	MIL-C-38999	I & II
	40M38277	
	PAN 6433-1	
	PATT 614	
	PATT 616	
	NFC93422	HE308, 9

DESIG.	SPEC.	SERIES
G	MIL-C-28840	
H	MIL-C-38999	III & IV
	EN3645	
J	MIL-C-81511	1, 2, 3 & 4
	VG95329	
K	MIL-C-83723	II

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Military Part Number Reference Guide

Military Specification	Superceeding Part Number	Glenair's Commercial Catalog P/N	Description	Connector Interface or Designator (Below)	Page No.
MS20047	MS27502	660-013	Protective Cover, Recept.	MIL-C-38999 Series I	66-10
MS20048	MS27501	660-012	Protective Cover, Plug	MIL-C-38999 Series I	66-10
M24758/1		**	Flexible Weatherproof EMI-EMP Conduit	—	**
M24758/2		**	Str. Conduit Fitting for M24758/9 thru /19	—	**
M24758/3		**	45° Conduit Fitting for M24758/9 thru /19	—	**
M24758/4		**	90° Conduit Fitting for M24758/9 thru /19	—	**
M24758/5		**	Conduit-to-Panel Fitting	—	**
M24758/6		**	Conduit-to-Threaded Pipe Fitting	—	**
M24758/7		**	Conduit-to-Stuffing Tube	—	**
M24758/8		**	Conduit-to-Conduit Fitting	—	**
M24758/9		**	Conduit Adapter	B	**
M24758/10		**	Conduit Adapter	Triaxial Connectors	**
M24758/11		**	Conduit Adapter	Coaxial Connectors	**
M24758/12		**	Conduit Adapter	D	**
M24758/13		**	Conduit Adapter	A	**
M24758/14		**	Conduit Adapter	—	**
M24758/15		**	Conduit Adapter	MIL-C-24235 Stuffing Tube	**
M24758/16		**	Conduit Adapter for Miscellaneous Thread	—	**
M24758/17		**	Conduit Adapter for Tapered Pipe Thread	—	**
M24758/18		**	Conduit Adapter for Str. Pipe Thread	—	**
M24758/19		**	Conduit Adapter for Panel Termination	—	**
MS25042		660-004	Protective Cover, Plug	MIL-DTL-5015	66-2
MS25043		660-005	Protective Cover, Recept.	MIL-DTL-5015	66-2
MS27291		620ES050	Str. Strain Relief	E	62-12
MS27292	M83723/59-1	660-021	Protective Cover, Plug	MIL-DTL-83723 Series III Thd	66-20
MS27293	M83723/59-2	660-019	Protective Cover, Plug	MIL-DTL-83723 Series III Bay.	66-18
MS27294	M83723/60-1	660-022	Protective Cover, Recept.	MIL-DTL-83723 Series III Thd	66-20
MS27295	M83723/60-2	660-020	Protective Cover, Recept.	MIL-DTL-83723 Series III Bay.	66-18
MS27296	M83723/61-1	650ES001	Stowage Receptacle, Threaded	MIL-DTL-26500 Thd and MIL-DTL-83723 Series III Thd	65-3
MS27297	M83723/61-2	650ES002	Stowage Receptacle, Bayonet	MIL-DTL-26500 Bay. and MIL-DTL-83723 Series III Bay.	65-3
MS27342-2	AS85049/49-2	620FS012	Str. Strain Relief	F	62-7
MS27352	MS27510	660-014	Protective Cover, Plug	MIL-DTL-38999 Series II	66-12
MS27353	MS27511	660-015	Protective Cover, Recept.	MIL-DTL-38999 Series II	66-12
MS27485	AS85049/58	**	Potting Boot Adapter	F	**
MS27501		660-012	Protective Cover, Plug	MIL-DTL-38999 Series I	66-10
MS27502		660-013	Protective Cover, Recept.	MIL-DTL-38999 Series I	66-10
MS27506	AS85049/49-2	620FS054	Str. Strain Relief	F	62-17
MS27507	AS85049/47	620FA012	90° Strain Relief	F	62-7
MS27510		660-014	Protective Cover, Plug	MIL-DTL-38999 Series II	66-12
MS27511		660-015	Protective Cover, Recept.	MIL-DTL-38999 Series II	66-12
MS27512	MS3186	GS3186*	Jam Nut	MIL-DTL-38999 Series II	**
MS27514	MS3186	GS3186*	Jam Nut	MIL-DTL-38999 Series I	**
MS27558		G2221-1A*	90° Strain Relief	E	**
MS27559		G2221-1A*	90° Strain Relief	E	**
MS27668	AS85049/56	450FS001	Str. Qwik-Ty® Strain Relief	F	45-5
MS27669	AS85049/57	450FB001	45° Qwik-Ty® Strain Relief	F	45-5

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**** See Glenair's *Composite Accessories* Catalog
***** MS "V" Thread Gen'l Duty "A" End Bell

BACKSHELL CONNECTOR DESIGNATORS

DESIG.	SPEC.	SERIES
A	MIL-DTL-5015	MS3400
	MIL-DTL-26482	2
	MIL-C-81703	3
	MIL-DTL-83723	I & III
	40M39569	
	DEF 5326-3	
	EN 2997, 3646	
	ESC 10, 11	
	LN 29504	
	NFC93422	HE302
	PAN 6432-1, -2	

DESIG.	SPEC.	SERIES
A	PATT 602	
B	MIL-DTL-5015	MS3100
C	MIL-C-22992	MS173XX
D	MIL-DTL-26482	1
E	MIL-DTL-26500	Aluminum
F	MIL-DTL-38999	I & II
	40M38277	
	PAN 6433-1	
	PATT 614	
	PATT 616	
	NFC93422	HE308, 9

DESIG.	SPEC.	SERIES
G	MIL-C-28840	
H	MIL-DTL-38999	III & IV
	EN3645	
J	MIL-C-81511	1, 2, 3 & 4
	VG95329	
K	MIL-DTL-83723	I

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MS27670	AS85049/63	450FA001	90° Qwik-Ty® Strain Relief	F	45-5
MS27741		410-003	Tag Ring	—	41-2
M28840/1		620GS051	Str. Strain Relief	G	62-13
M28840/2		620GA051	90° Strain Relief	G	62-7
M28840/3		620GB051	45° Strain Relief	G	62-7
M28840/4		GS28840/4*	Flexible Metal Core Conduit	—	**
M28840/5		GS28840/5*	EMI/EMP Conduit Backshell	G	**
M28840/6 A		GS28840/6A*	Str. EMI/RFI Environmental Backshell	G	**
M28840/6 B		GS28840/6B*	Str. Environmental Backshell	G	**
M28840/7		650GS001	Stowage Receptacle	MIL-C-28840	65-4
M28840/8 A		GS28840/8A*	90° Split EMI/RFI Environmental Backshell	G	**
M28840/8 B		GS28840/8B*	90° Environmental Backshell	G	**
M28840/9 A		GS28840/9A*	45° Split EMI/RFI Environmental Backshell	G	**
M28840/9 B		GS28840/9B*	45° Environmental Backshell	G	**
M28840/13		660-010	Protective Cover, Recept.	MIL-C-28840	66-8
M28840/15		660-011	Protective Cover, Plug	MIL-C-28840	66-8
M28840/22		GS28840/22*	Conduit Bushing	—	**
M28840/23		GS28840/23*	E Nut	G	**
M28840/24		GS28840/24*	Gasket	MIL-C-28840	**
M28840/25		GS28840/25*	90° EMI Adapters	MIL-C-28840	**
M28840/27		GS28840/27*	45° EMI Adapters	MIL-C-28840	**
M28840/30		GS28840/30*	Conduit Union	—	**
M38999/1	AS85049/27	610FS011	E Nut	F	61-2
M38999/2	AS85049/62	310FS001	Shrink Boot Adapter	F	310-2
M38999/3	AS85049/33-2	440FS063	Crimp Ring Adapter	F	440-4
M38999/4	AS85049/30	400-001	Tag Ring Adapter	F	40-4
M38999/5	AS85049/17	390FS012	Str. EMI/RFI Environmental Backshell	F	39-42
M38999/6	AS85049/29	360FS002	Non-Env. Strain Relief Backshell	F	36-4
M38999/7	AS85049/36	380FS008	Str. EMI/RFI Non-Environmental Backshell	F	38-38
M38999/8	AS85049/37	380FD007	90° EMI/RFI Non-Environmental Backshell	F	38-36
M38999/9		650FS001	Stowage Receptacle	MIL-DTL-38999 Series I	65-8
M38999/10		650FS002	Stowage Receptacle	MIL-DTL-38999 Series II	65-9
D38999/22		650HS010	Stowage Receptacle	MIL-DTL-38999 Series III	65-10
D38999/28		GS38999/28*	Jam Nut	MIL-DTL-38999 Series III and IV	**
D38999/32		660-023	Protective Cover, Plug, Composite	MIL-DTL-38999 Series III	66-14
D38999/33		660-024	Protective Cover, Recept., Composite	MIL-DTL-38999 Series III	66-14
D38999/50		650HS007	Stowage Receptacle	MIL-DTL-38999 Series IV	65-11
M81511/13		620JS001	Str. Strain Relief	J	62-18
M81511/14 (A,B)		390JS012	Str. RFI Environmental	J	39-42
M81511/14 (C,D)		380JS008	Str. RFI Non-Environmental Backshell	J	38-38
M81511/16		610JS012	E Nut	J	61-3
M81511/17		660-017	Protective Cover, Plug	MIL-C-81511 Series 2	66-16
M81511/18		660-018	Protective Cover, Recept.	MIL-C-81511 Series 1 and 2	66-16
M81511/19		650JS002	Stowage Receptacle	MIL-C-81511 Series 2	65-5
M81511/29		660-016	Protective Cover, Plug	MIL-C-81511 Series 1	66-16
M81511/30		650JS001	Stowage Receptacle	MIL-C-81511 Series 1	65-5
M83538/9		**	Adapter	MIL-DTL-83538/4	**
M83723/15A	AS85049/51-1	620AA046	90° Strain Relief	A	62-6

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BACKSHELL CONNECTOR DESIGNATORS

DESIG.	SPEC.	SERIES
A	MIL-DTL-5015	MS3400
	MIL-DTL-26482	2
	MIL-C-81703	3
	MIL-DTL-83723	I & III
	40M39569	
	DEF 5326-3	
	EN 2997, 3646	
	ESC 10, 11	
	LN 29504	
	NFC93422	HE302
	PAN 6432-1, -2	

DESIG.	SPEC.	SERIES
A	PATT 602	
B	MIL-DTL-5015	MS3100
C	MIL-C-22992	MS173XX
D	MIL-DTL-26482	1
E	MIL-DTL-26500	Aluminum
F	MIL-DTL-38999	I & II
	40M38277	
	PAN 6433-1	
	PATT 614	
	PATT 616	
	NFC93422	HE308, 9

DESIG.	SPEC.	SERIES
G	MIL-C-28840	
H	MIL-DTL-38999	III & IV
	EN3645	
J	MIL-C-81511	1, 2, 3 & 4
	VG95329	
K	MIL-C-83723	II

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M83723/15N	AS85049/31	610AS011	E Nut	A	61-2
M83723/15S	AS85049/52-1	620AS046	Str. Strain Relief	A	62-6
M83723/16M	AS85049/60-2G	310AS034	Shrink Boot Adapter	A	310-4
M83723/27M		310KS034	Shrink Boot Adapter	K	310-3
M83723/35A		**	90° Non-Env. Strain Relief Backshell	K	**
M83723/35N		G62981*	E Nut	K	**
M83723/35S		G62976*	Non-Environmental Strain Relief Backshell	K	**
M83723/44	MS3181	660-009	Protective Cover, Recept.	MIL-DTL-26482	66-6
M83723/45	MS3115	650DS001	Stowage Receptacle	MIL-DTL-26482	65-2
M83723/46	MS3180	660-008	Protective Cover, Plug	MIL-DTL-26482	66-6
M83723/50A		GTR53*	90° Qwik-Ty® Strain Relief	K	**
M83723/50B		GTR81*	45° Qwik-Ty® Strain Relief	K	**
M83723/50R		GTR89*	Str. Qwik-Ty® Strain Relief	K	**
M83723/59-1		660-021	Protective Cover, Plug	MIL-DTL-83723 Series III Thd	66-20
M83723/59-2		660-019	Protective Cover, Plug	MIL-DTL-83723 Series III Bay.	66-18
M83723/60-1		660-022	Protective Cover, Recept.	MIL-DTL-83723 Series III Thd	66-20
M83723/60-2		660-020	Protective Cover, Recept.	MIL-DTL-83723 Series III Bay.	66-18
M83723/61-1		650ES001	Stowage Receptacle, Threaded	MIL-DTL-26500 Thd and MIL-DTL-83723 Series III Thd	65-3
M83723/61-2		650ES002	Stowage Receptacle, Bayonet	MIL-DTL-26500 Bay. and MIL-DTL-83723 Series III Bay.	65-3
M83723/70		GS83723/70*	Receptacle Adapter	MIL-DTL-83723 Series III	**
M83733/15	AS85049/28	G61570*	EMI Rectangular Backshell	MIL-DTL-83733	**
M83733/16	AS85049/44	G8179*	Rectangular Strain Relief Backshell	MIL-DTL-83733	**
AS85049/1		620-053 Style B	Strain Relief	*****	62-2
AS85049/2		620-053 Style C	Strain Relief	*****	62-2
AS85049/3 1		GS85049/3*	Str. Environmental Backshell	C	**
AS85049/3 2		GS85049/3*	Str. Environmental Backshell	C	**
AS85049/3 3		GS85049/3*	Str. Environmental Backshell	C	**
AS85049/4 1		GS85049/4*	Str. Environmental Backshell	C	**
AS85049/4 2		GS85049/4*	Str. Environmental Backshell	C	**
AS85049/4 3		GS85049/4*	Str. Environmental Backshell	C	**
AS85049/5 1		GS85049/5*	Str. Environmental Backshell	C	**
AS85049/5 2		GS85049/5*	Str. Environmental Backshell	C	**
AS85049/5 3		GS85049/5*	Str. Environmental Backshell	C	**
AS85049/6		390AB001	45° EMI/RFI Environmental Backshell	A	39-12
AS85049/7		370AB001	45° Environmental Backshell	A	37-4
AS85049/8		390AA001	90° EMI/RFI Environmental Backshell	A	39-12
AS85049/9		370AA001	90° Environmental Backshell	A	37-4
AS85049/10		390AS001	Str. EMI/RFI Environmental Backshell	A	39-12
AS85049/11		370AS001	Str. Environmental Backshell	A	37-4
AS85049/14S		610HS006*	E Nut, Self Locking	H	**
AS85049/15G		450HB020*	45° Qwik-Ty® Strain Relief, Self-Lock. w/ Ground Lug	H	**
AS85049/15S		450HB020*	45° Qwik-Ty® Strain Relief, Self-Locking	H	**
AS85049/16G		450HS020*	90° Qwik-Ty® Strain Relief, Self-Lock. w/ Ground Lug	H	**
AS85049/16S		450HS020*	90° Qwik-Ty® Strain Relief, Self-Locking	H	**

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BACKSHELL CONNECTOR DESIGNATORS

DESIG.	SPEC.	SERIES
A	MIL-DTL-5015	MS3400
	MIL-DTL-26482	2
	MIL-C-81703	3
	MIL-DTL-83723	I & III
	40M39569	
	DEF 5326-3	
	EN 2997, 3646	
	ESC 10, 11	
	LN 29504	
	NFC93422	HE302
	PAN 6432-1, -2	

DESIG.	SPEC.	SERIES
A	PATT 602	
B	MIL-DTL-5015	MS3100
C	MIL-C-22992	MS173XX
D	MIL-DTL-26482	1
E	MIL-DTL-26500	Aluminum
F	MIL-DTL-38999	I & II
	40M38277	
	PAN 6433-1	
	PATT 614	
	PATT 616	
	NFC93422	HE308, 9

DESIG.	SPEC.	SERIES
G	MIL-C-28840	
H	MIL-DTL-38999	III & IV
	EN3645	
J	MIL-C-81511	1, 2, 3 & 4
	VG95329	
K	MIL-DTL-83723	I

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AS85049/17		390FS012	Str. EMI/RFI Environmental Backshell	F	39-42
AS85049/18		390HS011	Str. EMI/RFI Environmental Backshell	H	39-38
AS85049/19		380HS007	Str. EMI/RFI Non-Environmental Backshell	H	38-30
AS85049/20		440FS063	Crimp Ring Adapter	H	440-4
AS85049/21		360HS002	Non-Environmental Strain Relief Backshell	H	36-4
AS85049/23		380AB001	45° EMI/RFI Non-Environmental Backshell	A	38-14
AS85049/24		380AA001	90° EMI/RFI Non-Environmental Backshell	A	38-14
AS85049/25		380AS001	Str. EMI/RFI Non-Environmental Backshell	A	38-14
AS85049/26-1		440AS063	Crimp Ring Adapter	A	440-4
AS85049/26-2		GS85049/26-2*	Crimp Ring	—	**
AS85049/26-3		440AS063	Crimp Ring Adapter with Crimp Ring	A	440-4
AS85049/27		610FS011	E Nut	F	61-2
AS85049/27S		610FS007*	E Nut, Self Locking	F	**
AS85049/28		G61570*	EMI Rectangular Backshell	MIL-DTL-83733	**
AS85049/29		360FS002	Non-Environmental Strain Relief Backshell	F	36-4
AS85049/30		400-001	Tag Ring Adapter	F	40-4
AS85049/31		610AS011	E Nut	A	61-2
AS85049/31S		610AS005*	E Nut, Self Locking	A	**
AS85049/32-1		**	Adapter, Non-Env., RFI, 90°	F	**
AS85049/32-2		**	Adapter	—	**
AS85049/33-1		**	Adapter, Non-Env., RFI, Str.	F	**
AS85049/33-2		440FS063	Crimp Ring Adapter	F	440-4
AS85049/34		GS3184*	Adapter	D (MS3114 and MS3124 Only)	32-3
AS85049/36		380FS008	Str. EMI/RFI Non-Environmental Backshell	F	38-38
AS85049/37		380FD007	90° EMI/RFI Non-Environmental Backshell	F	38-36
AS85049/38		620HS011	Str. Strain Relief	H	62-8
AS85049/38S		620HS048	Str. Strain Relief, Self-Locking	H	62-11
AS85049/38SS		**	Str. Strain Relief, Self-Locking, St. Steel	H	**
AS85049/39		620HA011	90° Strain Relief	H	62-8
AS85049/39S		620HA048	90° Strain Relief, Self-Locking	H	62-11
AS85049/39SS		**	90° Strain Relief, Self-Locking, St. Steel	H	**
AS85049/41		620-053 Style A	Str. Strain Relief	*****	62-2
AS85049/42		620-053 Style H	Str. Strain Relief	*****	62-2
AS85049/43		620AB047	45° Strain Relief	A	62-9
AS85049/44		G8179*	Rectangular Strain Relief Backshell	MIL-DTL-83733	**
AS85049/45		GS85049/45*	Str. Strain Relief	F	**
AS85049/46		GS85049/46*	90° Strain Relief	F	**
AS85049/47		620FA012	90° Strain Relief	F	62-7
AS85049/47S		620FA048	90° Strain Relief, Self-Locking	F	62-11
AS85049/47SS		620FA048Z1	90° Strain Relief, Self-Locking (Steel)	F	62-11
AS85049/48-1		**	Rectangular Strain Relief Backshell	MIL-DTL-24308	**
AS85049/48-2		**	Rectangular Strain Relief Backshell	MIL-DTL-24308	**
AS85049/48-3		**	Rectangular Strain Relief Backshell	MIL-DTL-24308	**
AS85049/49-2		620FS012	Str. Strain Relief	F	62-7
AS85049/49-2S		620FS048	Str. Strain Relief, Self-Locking	F	62-11
AS85049/49-2SS		620FS048Z1	Str. Strain Relief, Self-Locking (Steel)	F	62-11
AS85049/50		**	90° Rectangular Strain Relief Backshell	MIL-DTL-24308	**
AS85049/51-1		620AA046	90° Strain Relief	A	62-6

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BACKSHELL CONNECTOR DESIGNATORS

DESIG.	SPEC.	SERIES
A	MIL-DTL-5015	MS3400
	MIL-DTL-26482	2
	MIL-C-81703	3
	MIL-DTL-83723	I & III
	40M39569	
	DEF 5326-3	
	EN 2997, 3646	
	ESC 10, 11	
	LN 29504	
	NFC93422	HE302
	PAN 6432-1, -2	

DESIG.	SPEC.	SERIES
A	PATT 602	
B	MIL-DTL-5015	MS3100
C	MIL-C-22992	MS173XX
D	MIL-DTL-26482	1
E	MIL-DTL-26500	Aluminum
F	MIL-DTL-38999	I & II
	40M38277	
	PAN 6433-1	
	PATT 614	
	PATT 616	
	NFC93422	HE308, 9

DESIG.	SPEC.	SERIES
G	MIL-C-28840	
H	MIL-DTL-38999	III & IV
	EN3645	
J	MIL-C-81511	1, 2, 3 & 4
	VG95329	
K	MIL-C-83723	II

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AS85049/51S		620AA048	90° Strain Relief, Self-Locking	A	62-10
AS85049/52-1		620AS046	Str. Strain Relief	A	62-6
AS85049/52S		620AS048	Str. Strain Relief, Self-Locking	A	62-10
AS85049/53	AS85049/52	450AS001	Str. Qwik-Ty® Strain Relief	A	45-2
AS85049/54	AS85049/43	450AB001	45° Qwik-Ty® Strain Relief	A	45-2
AS85049/55	AS85049/51	450AA001	90° Qwik-Ty® Strain Relief	A	45-2
AS85049/55G	AS85049/51S	450AA021*	90° Qwik-Ty® Str. Rel., Self Lock., Gr. Lug	A	**
AS85049/55S	AS85049/51S	450AA021*	90° Qwik-Ty® Strain Relief, Self-Locking	A	**
AS85049/56		450FS001	Str. Qwik-Ty® Strain Relief	F	45-5
AS85049/57		450FB001	45° Qwik-Ty® Strain Relief	F	45-5
AS85049/57G		450FB022*	45° Qwik-Ty® Str. Rel., Self Lock., Gr. Lug	F	**
AS85049/57S		450FB022*	45° Qwik-Ty® Strain Relief, Self-Locking	F	**
AS85049/58		GS85049/58*	Potting Boot Ring	F	**
AS85049/59		310CS034	Shrink Boot Adapter	C	310-4
AS85049/60-1		310AS001	Shrink Boot Adapter	A	310-2
AS85049/60-2G		310AS034	Shrink Boot Adapter	A	310-4
AS85049/61		GS27332*	Potting Boot Ring	MIL-C-27599	**
AS85049/62		310FS001	Shrink Boot Adapter	F	310-2
AS85049/63		450FA001	90° Qwik-Ty® Strain Relief	F	45-5
AS85049/63G		450FA022*	90° Qwik-Ty® Str. Rel., Self Lock., Gr. Lug	F	**
AS85049/63S		450FA022*	90° Qwik-Ty® Strain Relief, Self Locking	F	**
AS85049/69		310HS001	Shrink Boot Adapter	H	310-2
AS85049/74		**	Potting Boot	—	**
AS85049/75		**	Potting Boot	—	**
AS85049/76		390FL011	90° EMI/RFI Environmental Backshell	F	39-40
AS85049/77		390FK011	45° EMI/RFI Environmental Backshell	F	39-40
AS85049/78		390HK011	45° EMI/RFI Environmental Backshell	H	39-40
AS85049/79		390HL011	90° EMI/RFI Environmental Backshell	H	39-40
AS85049/82		440AS069	Str. Banding Backshell	A	44-22
AS85049/83		440AH069	45° Banding Backshell	A	44-22
AS85049/84		440AJ069	90° Banding Backshell	A	44-22
AS85049/85		440FS069	Str. Banding Backshell	F	44-22
AS85049/86		440FH069	45° Banding Backshell	F	44-22
AS85049/87		440FJ069	90° Banding Backshell	F	44-22
AS85049/88		440HS069	Str. Banding Backshell	H	44-22
AS85049/89		440HH069	45° Banding Backshell	H	44-22
AS85049/90		440HJ069	90° Banding Backshell	H	44-22
AS85049/91		620HS042	Str. Strain Relief, Composite Material	H	****
AS85049/92		620HA042	90° Strain Relief, Composite Material	H	****
AS85049/93		687-207	Banding Split Ring	—	****
AS85049/94***		**	Mounting Device, Full Perimeter	Various	**
AS85049/95***		**	Mounting Device, 3/4 Perimeter	Various	**
AS85049/96***		**	Mounting Device, 1/4 Perimeter	Various	**
ASM85528/1***		**	Mounting Device, Full Perimeter	Various	**
ASM85528/2***		**	Mounting Device, 3/4 Perimeter	Various	**
ASM85528/3***		**	Mounting Device, 1/4 Perimeter	Various	**
M90563		660-007	Protective Cover, Receptacle	MIL-C-22992	66-4
M90564		660-007	Protective Cover, Plug	MIL-C-22992	66-4

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**** See Glenair's *Composite Accessories* Catalog
***** MS "V" Thread Gen'l Duty "A" End Bell

BACKSHELL CONNECTOR DESIGNATORS

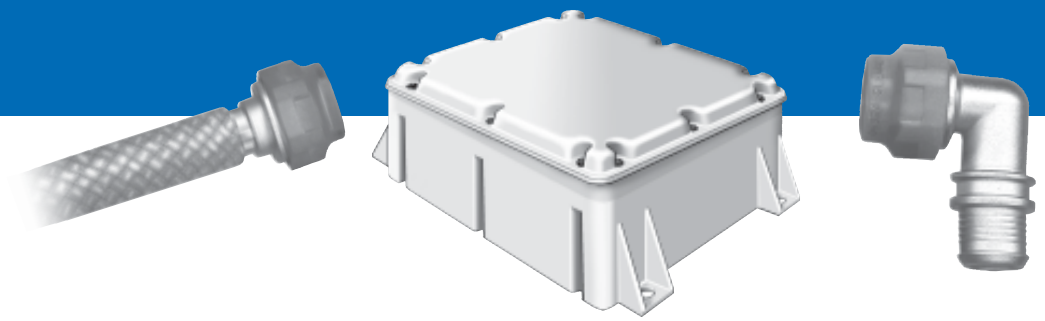
DESIG.	SPEC.	SERIES
A	MIL-DTL-5015	MS3400
	MIL-DTL-26482	2
	MIL-C-81703	3
	MIL-DTL-83723	I & III
	40M39569	
	DEF 5326-3	
	EN 2997, 3646	
	ESC 10, 11	
	LN 29504	
	NFC93422	HE302
	PAN 6432-1, -2	

DESIG.	SPEC.	SERIES
A	PATT 602	
B	MIL-DTL-5015	MS3100
C	MIL-C-22992	MS173XX
D	MIL-DTL-26482	1
E	MIL-DTL-26500	Aluminum
F	MIL-DTL-38999	I & II
	40M38277	
	PAN 6433-1	
	PATT 614	
	PATT 616	
	NFC93422	HE308, 9

DESIG.	SPEC.	SERIES
G	MIL-C-28840	
H	MIL-DTL-38999	III & IV
	EN3645	
J	MIL-C-81511	1, 2, 3 & 4
	VG95329	
K	MIL-C-83723	II

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Four Reasons to Choose Composites for Your Next Interconnect Application



Glenair's composite interconnect components are manufactured from high-grade engineering thermoplastics for the toughest application environments. Specifically geared for high-performance air, sea and space applications, Glenair's line of composite interconnect components are ideally suited for systems which require electromagnetic compatibility, reliable environmental protection and long-term durability. Here's why:

Corrosion Resistance: One of the most appealing attributes of composites is their unlimited corrosion resistance as compared to conventional metal materials. Aluminum interconnect components, for example, are subject to galvanic coupling which causes the material to be "sacrificed" to its cadmium/nickel plating. Since high-temperature plastic is not sacrificial to plating, finished products last longer, require less maintenance and so directly reduce the overall cost of ownership of the interconnect system.

Vibration Dampening: Unlike metals, polymer plastics are less subject to harmonic resonance due to their lighter weight and inherent attenuating properties. Which means threaded components made from these materials are far less likely to vibrate loose when subjected to prolonged periods of vibration and shock. Again, reduced maintenance and reduced cost of ownership are the major benefits realized by systems built from vibration dampening composite thermoplastics.

Weight Reduction: Composites can provide increased strength at lighter weights than conventional materials. Weight savings for composites over aluminum are approximately 40% (depending on component design). Savings versus other materials are even more pronounced: 60% for titanium; 80% for stainless steel and brass. Composite materials directly reduce aircraft empty weights and increase fuel fractions—resulting in smaller, lower-cost aircraft that use less fuel to perform a given mission.

Stealth: The reduction of electromagnetic signatures, corrosion-related magnetic signatures and acoustic signatures is critical to the development of stealth applications. Signatures are those characteristics by which systems may be detected, recognized, and engaged. The reduction of these signatures can improve survivability of military systems, leading to improved effectiveness and fewer casualties. Composites are at the heart of a broad range of advanced stealth application development projects.

See www.glenair.com for complete information

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** For easy reference, Tables I and II are duplicated inside the back cover fold-out.*

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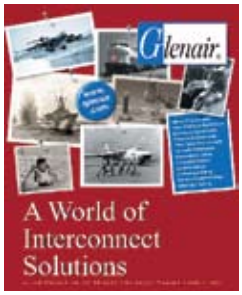
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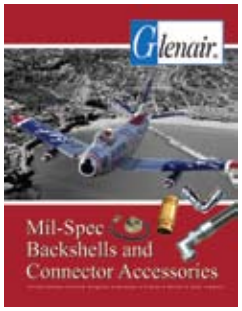
Glenair's World of Interconnect Solutions Capability Brochure

A color overview of Glenair's unique range of interconnect products and services. Available in English, French, German and Japanese.



Mil-Spec Backshells and Connector Accessories

This helpful Glenair catalog lists hundreds of Mil-Spec Backshells and Connector Accessory part numbers from backshells of all types to conduit, covers, backshell assembly tools, strain reliefs and fiber optic termini.



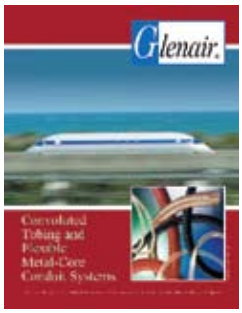
Composite Thermoplastic Connectors, Backshells, and Enclosures

Glenair is the world's leading supplier of composite solutions. Glenair has made an across-the-board commitment to integrate composites into every facet of the electrical interconnect system.



Convoluted Tubing, Braiding, and Flexible Metal-Core Conduit Systems

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Glenair's unique line of shipboard interconnect products includes MIL-C-24758 conduit systems, cable shield grounding assemblies, feed-through fittings, Sigmaform backshells and more.



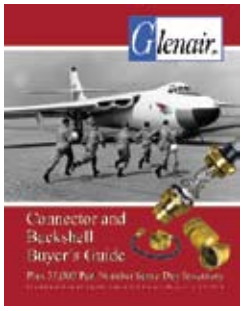
Rectangular Backshells and Accessories

A comprehensive catalog of Glenair rectangular rack and panel style backshells and accessories. Includes MIL-C-24308, MIL-C-83733, Mil-C-81659, MIL-DTL-83513, MIL-C-83527, ARINC, Cannon and Hypertronics.



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