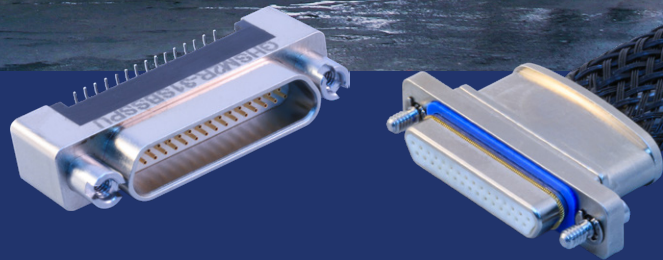


MISSION-CRITICAL
INTERCONNECT
SOLUTIONS



SERIES GHSM



Glenair High-Speed Micro-D Connectors and Cables

For USB 3.0 · 10GbE · Camera Link · PCIe 3.0

FEBRUARY 2023

GHSM
HIGH-SPEED
MICRO-D

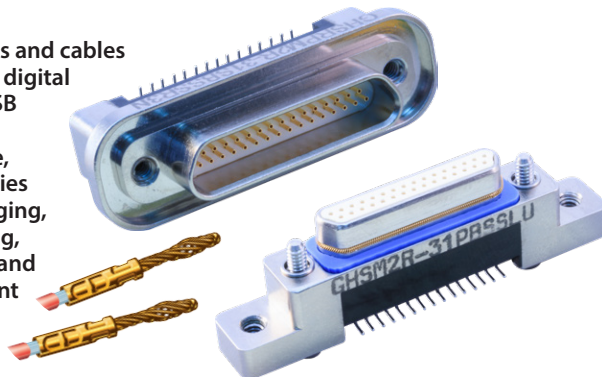


The Smallest and Lightest
Aerospace-Grade, High-
Speed Connector Solution



The High-Speed Micro-D uses an impedance optimized open pin field for high-density signal routing flexibility. 1 Amp pre-wired cable and PCB solutions deliver up to 15 Gbps performance per differential pair. Auxiliary EMC ground springs on plugs ensure data integrity and low attenuation performance.

High-Speed Micro-D connectors and cables are optimized for multi-gigabit digital datalink protocols including USB 3.0, 10GbE, Camera Link, and PCIe 3.0. The high-performance, aerospace-grade connector series features machined-shell packaging, low-attenuation contact spacing, low- κ PPS dielectric insulators, and Glenair shock- and vibe-resistant Nano TwistPin contacts.



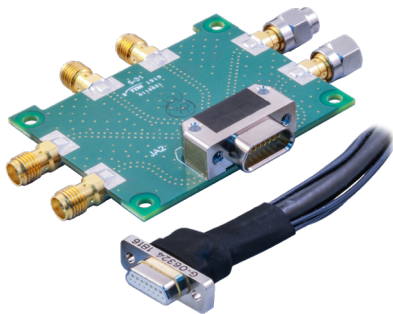
- Pre-wired factory pigtails, cordsets, and PCB connectors
- Unique contact isolation and spacing for optimal high-speed performance up to 15 Gbps
- Supports maximum #28 AWG wire
- Low- κ dielectric insulator combined with optimized contact size and spacing
- Precision-machined shells with gold or nickel plating
- 1 Amp TwistPin contacts for optimal performance in harsh vibration, shock, and high-temperature environments

The high-speed micro miniature rectangular interconnect solution for USB 3.0, 10GbE, Camera Link, and PCIe 3.0

PERFORMANCE SPECIFICATIONS Application notes		Introduction..... Page 2 Mod Code for Space Applications Page 3 Materials/Finishes, Performance Specifications..... Page 4 Recommended Panel Cut-out Dimensions Page 7 Supported Protocols, Insert Arrangements..... Page 8 Wiring Diagrams Page 9
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GHSRPM Prewired pin and socket rear panel-mount connectors: single-ended pigtails		GHSRPM How to Order / Dimensions..... Page 12
GHSM-BSS Straight surface-mount pin and socket PCB connectors		GHSM-BSS How to Order Connectors with Jackpost Hardware..... Page 14 How to Order Connectors with Jackscrew Hardware Page 18
GHSM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket PCB connectors		GHSM-HBR How to Order Connectors with Jackpost Hardware..... Page 22 How to Order Connectors with Jackscrew Hardware Page 26
GHSRPM-BSS Straight surface-mount pin and socket rear panel-mount connectors		GHSRPM-BSS How to Order / Dimensions..... Page 30
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GHSM-USP1 Sav-Con® Connector Saver		GHSM-USP1 How to Order / Dimensions..... Page 38
500-148 Plug and Receptacle Dust Covers		500-148 How to Order / Dimensions..... Page 39
179-045 Jackpost Kit for Panel-Mount Connectors		179-045 Jackpost Kit How to Order / Dimensions..... Page 41
963-057-28 Twisted Pair Cable		963-057-28 100 Ohm Differential Twisted Pair Cable..... Page 42

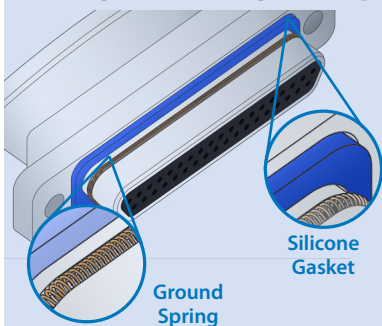
The miniature high-speed connector with mil-spec pedigree connector and contact packaging

INTRODUCTION

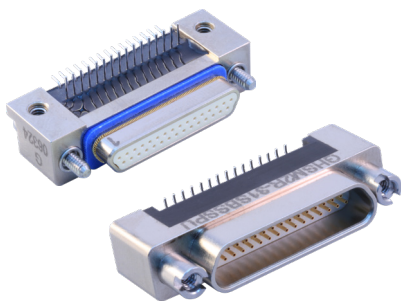


Micro-D High-Speed configurations include wired assemblies and straight or 90° PCB-mount connectors. Insert arrangements feature 1 Amp Nanominiature TwistPin contacts. All designs have been tested for today's popular high-speed protocols.

EMI SHIELDING AND ENVIRONMENTAL SEALING



Plug connectors feature a gold-plated stainless steel ground spring for EMI protection, and a silicone gasket for environmental sealing.



Straight and right-angle printed circuit board connectors

INTRODUCTION TO THE SERIES

The High-Speed Micro-D achieves its high-speed signal integrity and high data rate performance through innovative modifications to the standard Micro connector insert, principally in the use of an ultra-low dielectric insulation material, but in addition, with the use of Nano TwistPin contacts, exactly spaced and isolated to eliminate cross-talk and maintain impedance levels through the connector mating interface.

Available in both prewired factory cordsets—with hybrid shielded twisted pair (STP) and standard hookup wire cabling—as well as PCB configurations, the High-Speed Micro-D utilizes #28 gauge wire and is rated at 1 amp per contact (instead of the usual 3 amp rating found in standard Micro connectors).

Like other next-generation rectangulars from Glenair, the High-Speed Micro-D incorporates an auxiliary EMI ground spring on the plug, further enhancing the signal integrity of this ultra-small form-factor connector. In fact, the High-Speed Micro-D's size is perhaps its most important advantage as it is now arguably the smallest and lightest aerospace-grade high-speed interconnect.

The downselect process begins with the identification of the target high-speed protocol (see tables, opposite page). Each insert arrangement in the series is purpose-designed to meet the particular requirements of today's most popular high-speed datalink protocols. Prewired pigtail assemblies utilize shielded twisted pair cabling for the high-speed data pairs, and #28 gauge hookup wire for power and low-speed signal requirements. Ground wire terminations are also indicated for each insert arrangement. Consult Glenair Design & Installation of High-Speed Micro-D PCB Connectors Application Note for board layout and termination requirements.

MATERIALS AND FINISHES

Connector Shell: Aluminum Alloy 6061
Insulator: Polyphenylene Sulfide (PPS)
Flange Seal: Fluorosilicone Rubber, Blue
Pin Contact: Copper Alloy, Gold over Nickel Plating
Socket Contact: Copper Alloy, Gold over Nickel Plating
Ground Spring: Stainless Steel, Gold Plated
Hardware: 300 Series Stainless Steel, Passivated
Encapsulants: Hysol EE4215 and Stycast 2850FT/Catalyst 11

PERFORMANCE SPECIFICATIONS

Current Rating: 1 Amp*
DWV: 600 Vac Sea Level
Insulation Resistance:
Differential signal and discrete wires - 5000 Megohms Min. (500 VDC)
Differential signal drain wires only - 500 Megohms Min. (500 VDC)
Contact Resistance: 80 Milliohms Maximum
Operating Temperature: -55°C To 150°C
Mating Force: 7 Ounces X # of Contacts
Durability: 500 Mating Cycles

*See Glenair Test Report GT-20-786 for temperature rise vs. current performance

Mod Code 429 for Space Application



Detail of the Atmospheric Infrared Sounder Instrument (AIRS) with Glenair Micro-D Cables and Connectors
Photo courtesy JPL

Save Time and Cost with Modification Codes for Space Grade GHSM connectors

GHSM connectors are a good choice for all types of orbital and deep space projects. Glenair Modification Codes provide special processing for GHSMs to meet NASA requirements without the need for a customer 'Statement of Work' or 'Specification Control Drawing'. This section explains Glenair Modification Code ordering, and provides valuable information on outgassing and other space flight topics.

HOW TO ORDER SPACE GRADE GHSM CONNECTORS

Step 1: Find a Standard GHSM Part Number

Electroless nickel plated shells and Tefzel® wire are preferred for space flight. Cadmium plating is prohibited.

Step 2: Select a NASA Screening Level

The term "Screening Level" refers to the final inspection procedure and does not include outgassing.

- Level 1 for mission-critical highest reliability
- Level 2 for high reliability
- Level 3 for standard reliability

Step 3: Outgassing Processing

Specify bakeout or thermal vacuum outgassing. Both bakeout and thermal vacuum outgas processes incur additional cost.

Step 4: Select Appropriate Modification Code.

Match the desired level of screening, outgassing or a combination of both. Select from the table below to choose the right modification code. Add the modification code to the connector part number. Example: GHSM2R-25SBSSPU-429C

NASA EEE-INST-02, TABLE 2A SCREENING LEVELS

Inspection	Level 1	Level 2	Level 3
Visual	100%	100%	100%
Mechanical	2(0)	2(0)	
Dielectric Withstanding Voltage	2(0)	2(0)	
Insulation Resistance	2(0)	2(0)	
Contact Engagement & Separation Force	2(0)		
Hermeticity (Sealed Receptacles Only)	100%	100%	
Coupling Force	2(0)		

Required inspection quantity shown. Number in parenthesis indicates acceptance of failures allowed for all quantities inspected.

SCREENING LEVEL AND AVAILABLE OUTGASSING MODIFICATION CODES

NASA Screening Level	Special Screening Only		Special Screening Plus Outgassing Processing	
		Face Seal Deleted (Plug Only)	48 Hour Oven Bake 125° C.	Thermal Vacuum Outgassing 24 hrs. 125° C.
Level 1	Mod Code 429B	Mod Code 429F	Mod Code 429J	Mod Code 429C
Level 2	Mod Code 429	Mod Code 429D	Mod Code 429K	Mod Code 429A
Level 3	(Use Standard Part Number)	Mod Code 432	Mod Code 186S	Mod Code 186M

Materials and Finishes Performance Specification

GLENAIR HIGH-SPEED MICRO-D MATERIALS AND FINISHES	
Connector Shell	Aluminum alloy 6061 in accordance with SAE AMS-QQ-A-200/8 or SAE-AMS4027 • Plating code 2: electroless nickel in accordance with ASTM B733 or SAE-AMS2404 • Plating code 5: gold plated in accordance with ASTM B488 over electroless nickel in accordance with ASTM B733-90
Insulator	Unfilled polyphenylene sulfide (PPS) Fortron 1200L1 or equivalent
Flange Seal	Fluorosilicone rubber in accordance with MIL-R-25988
Pin contact	Suitable copper alloy, gold plated in accordance with ASTM B488, Type II, Class 1.27 (50 micro inches minimum), Code C, over nickel underplate in accordance with SAE AMS-QQ-N-290, class2 (50-150 micro inches)
Socket Contacts	Suitable copper alloy, gold plated in accordance with ASTM B488, Type II, Class 1.27 (50 micro inches minimum), Code C, over nickel underplate in accordance with SAE AMS-QQ-N-290, class2 (50-150 micro inches)
Ground Spring	Stainless steel, gold plated
Hardware	Stainless steel, 300 series, passivated in accordance with SAE-AMS2700
Encapsulant	Epoxy Resin Hysol EE4215/HD3561 and Stycast 2850FT/Catalyst 11
Pigtail Wire, Uninsulated	Suitable copper alloy, gold-plated, solder dipped in 60/40 tin-lead
Pigtail Wire, Insulated Hookup	• Wire Type K: Silver-coated copper wire, extruded PTFE insulation, 600 volts RMS, 200° C, in accordance with SAE AS 22759/11 • Wire Type J: High-strength silver-coated copper alloy wire, crosslinked modified ETFE insulation, 600 volts rms, 200° C, in accordance with SAE AS 22759/33
High-Speed Cable	High-strength silver-coated copper alloy wire, PFA and FEP insulation, 600 volts RMS, 150° C, 90 and 100 ohm impedance matched

GLENAIR HIGH-SPEED MICRO-D PERFORMANCE SPECIFICATIONS

1. Scope

- 1.1. **Scope:** This specification covers performance requirements for Glenair High-Speed Micro-D connectors manufactured in accordance with MIL-DTL-83513 and MIL-DTL-32139.
- 1.2. **Description:** Metal shell High-Speed Micro-D connectors on .050-inch (1.27 mm) centers, with Nano TwistPin contacts.

2. Order of Precedence

- 2.1. **Order of Precedence:** In the event of a conflict between the requirements of this specification and the references cited herein, this document takes precedence. The requirements set forth in customer specifications and Glenair detail drawings shall take precedence over this document.

3. Requirements

3.1. Electrical Performance Requirements

- 3.1.1. **Insulation Resistance:** 5,000 megohms minimum between any pair of contacts and any contact and the shell when tested in accordance with EIA-364 Procedure 21, which specifies 500 volts DC. Wiring harnesses shall be 500 megohms minimum.
- 3.1.2. **Dielectric Withstanding Voltage:**
 - 3.1.2.1. **Dielectric Withstanding Voltage (sea level):** 600 volts ac, rms 60 Hz. Connectors shall show no evidence of breakdown or flashover when subjected to the DWV test of EIA-364 Procedure 20.
 - 3.1.2.2. **Dielectric Withstanding Voltage (70,000 feet):** 150 volts ac, rms 60 Hz. Connectors shall show no evidence of breakdown or flashover when subjected to the DWV test of EIA-364 Procedure 20.

Performance Specification

3.1.3. Contact Resistance:

- 3.1.3.1. **Contact Resistance:** The voltage drop of a mated pair of contacts attached to wires shall not exceed 71 millivolt drop maximum using a 1 ampere test current, when tested in accordance with EIA-364-06, using any catalog supported wire types.
- 3.1.3.2. **Low Level Contact Resistance:** When tested with a micro-ohmmeter using a test current of 10 milliamperes maximum, the resistance of a mated pair of contacts shall be 71 milliohms maximum using any catalog supported wire types. Test procedure in accordance with EIA-364-23.
- 3.1.4. **Contact Current Capability:** Contacts shall be capable of carrying 1 ampere in continuous duty operation from -55° to 150° C when tested in accordance with EIA-364-70.
- 3.1.5. **Shell-to-Shell Conductivity:** A mated pair shall not exceed 10 millivolts maximum voltage drop when tested in accordance with EIA-364-83.
- 3.1.6. **Shielding Effectiveness:** A mated pair shall meet a requirement of 65 dB minimum attenuation when tested in accordance with EIA-364-66.
- 3.1.7. **Magnetic Permeability:** Magnetic permeability, when tested in accordance with EIA-364-54, shall not exceed 2 mu.

3.2. Mechanical Requirements

- 3.2.1. **Contact Engaging and Separation Force:** Maximum engaging force shall be 5 ounces when tested in accordance with MIL-DTL-32139. Minimum separation force shall be 0.4 ounces.
- 3.2.2. **Connector Mating and Unmating Force:** The maximum mating and unmating force shall be 7 ounces times the number of contacts when tested per MIL-DTL-32139. Mate connectors three times before taking initial measurements.
- 3.2.3. **Contact Retention:** Contacts, when tested in accordance with EIA-364-29, shall withstand a 2 pound axial load for a minimum of 5 seconds.
- 3.2.4. **Crimp Tensile Strength:** Wire shall not pull out of crimp joints at an applied force of less than 3 pounds (1.5 pound for 30 AWG wire) when tested in accordance with IPC-620D, Section 19.7.2. Wire breakage other than at the crimp shall not constitute a failure.
- 3.2.5. **Insert Retention:** Inserts shall not be dislodged or moved from their original position when subjected to an axial load of 50 pounds per square inch when tested in accordance with EIA-364-35.
- 3.2.6. **Resistance to Soldering Heat:** Connectors with printed circuit board terminations shall withstand immersion in a solder bath for 9-11 seconds at 260° C when tested in accordance with EIA-364-56 Procedure 3 Test Condition B. Connectors, after cooling, shall not exhibit damage or warpage when examined at 10X magnification.
- 3.2.7. **Solderability:** Printed circuit terminals shall meet the solderability requirements of MIL-STD-202 Method 208.
- 3.2.8. **Durability:** High Speed Micro-D connectors shall be capable of 500 cycles of mating with no damage or degradation to electrical performance. Engaging and separation force and mating forces shall not exceed the requirements of 3.2.1 and 3.2.2.

Performance Specification

3.3. Environmental Requirements

3.3.1. Salt Spray (corrosion): Connectors shall show no exposure of base metal due to corrosion when subjected to the salt spray test of EIA-364-26, condition B, with a 48 hour duration. In addition, connectors shall meet contact resistance, low level contact resistance, and mating force requirements.

3.3.2. Fluid Immersion: Connectors shall meet mating force requirements following 20 hours immersion in synthetic lubricating oil MIL-PRF-7808, 2 hours in Perchloroethylene cleaning solvent ASTM D4376, and 1 hour immersion in coolant MIL-PRF-87252, when tested in accordance with MIL-DTL-32139. There shall be no degradation of the plastic, bonding adhesives, or elastomers.

3.3.3. Thermal Vacuum Outgassing: The assembled connector mass excluding metallic parts shall not exceed 1.0% total mass loss (TML) or 0.1% total volatile condensable materials (CVCM) when tested in accordance with ASTM E595. NOTE: the face seal gasket on plug connectors exceeds the allowable TML/CVCM unless it is specially processed. This is acceptable per MIL-DTL-83513 but may not be permissible for specific space programs.

Outgassing Properties of GHSM Connectors					
Component	Material	Brand Name	% Total Mass Loss (TML)	% Collected Volatile Condensable Material (CVCM)	Test Report
Molded Insulator	Unfilled PPS	Fortron1200L1	0.09	<0.01	Glenair Test #TR75613-1
Machined Insulator	Unfilled PPS	Techtron 1000	0.08	0.00	NASA Test #GSFC24653
Organizer (HBR only)	40% Glass-filled PPS	Ryton R4-02XT	0.09	0.00	NASA Test #GSFC06826
Potting Compound	Epoxy	Hysol EE-4215	0.55	<0.01	Glenair Test #TR59899-3
(PC Tail Only)	Epoxy	Stycast 2850FT/11	0.47	0.01	NASA Test #GSFC06569
Face Seal Gasket "as received"	Fluorosilicone	None	1.28	0.25	Glenair Test #TR75613-1
Face Seal Gasket with Oven Bakeout 8hr @ 400°F	Fluorosilicone	None	0.08	0.01	Glenair Test TBD
Face Seal Gasket with Vacuum Bakeout 24hr @ 125°C	Fluorosilicone	None	0.07	0.02	Glenair Test TBD

3.3.4. Thermal Shock: Unmated connectors shall withstand 5 cycles of thermal shock with a minimum temperature of -55° C and a maximum temperature of 150° C when tested in accordance with EIA-364-32, Condition I. Connectors shall not exhibit any detrimental damage or degradation of electrical performance.

3.3.5. Humidity: Wired, mated connectors shall be subjected to humidity conditioning in accordance with EIA-364-31, Method IV (excluding steps 7a and 7b). On completion of step 6 of the final cycle, connectors shall be removed from the chamber, unmated and surface moisture removed. Connectors shall pass a DWV test of 360 volts (RMS 60 Hertz AC). Within 1 to 2 hours after removal of surface moisture, connectors shall meet 1 megohm insulation resistance. Following 24 hour conditioning, connectors shall meet 1000 megohm insulation resistance (500 megohm for cable harnesses).

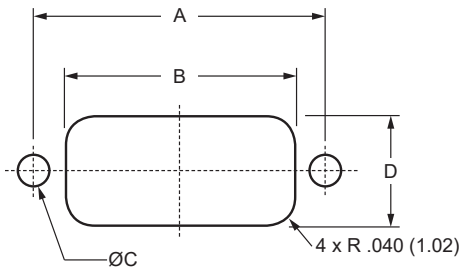
3.3.6. Vibration (sine): Connectors, when mated, wired in series, and fixtured in accordance with MIL-DTL-32139, shall exhibit no disruption of continuity, which lasts longer than 1 microsecond, in accordance with test procedure EIA-364-28, Condition IV. Connectors shall not be damaged and no loosening of parts shall occur. Peak level 20 g.

3.3.7. Shock: Connectors, when mated, wired in series, and fixtured in accordance with MIL-DTL-32139, shall not exhibit any discontinuity longer than 1 microsecond when tested in accordance with EIA-364-27, Test Condition G with 100+/-20 milliampere test current. Connectors shall not be damaged and no loosening of parts shall occur. Peak acceleration 100 g.

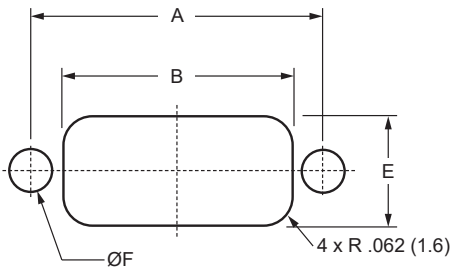
3.3.8. Marking Permanency: Connector marking shall meet the requirements of MIL-STD-202 Method 215.

3.3.9. Fungus Resistance: Connector materials shall meet the requirements of MIL-STD-810 Method 508.5.

Recommended Panel Cutout Dimensions
for Panel Mount Connectors



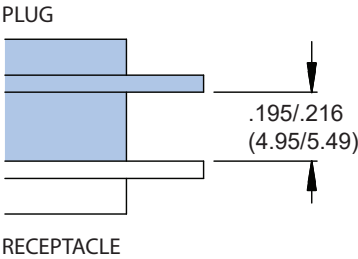
GHSM
Front Panel Mounting



GHSM
Rear Panel Mounting

GHSM Panel Cutouts						
	A	B	C	D	E	F
Layout	± .003 (0.08)	± .002 (.05)	± .002 (0.05)	± .002 (0.05)	+ .005 (0.13) - .000 (-0.00)	± .002 (0.05)
9	.565 (14.35)	.410 (10.41)	.091 (2.31)	.347 (8.81)	.256 (6.50)	.126 (3.20)
15	.715 (18.16)	.560 (14.22)	.091 (2.31)	.347 (8.81)	.256 (6.50)	.126 (3.20)
21	.865 (21.97)	.710 (18.03)	.091 (2.31)	.347 (8.81)	.256 (6.50)	.126 (3.20)
25	.965 (24.51)	.810 (20.57)	.091 (2.31)	.347 (8.81)	.256 (6.50)	.126 (3.20)
31	1.115 (28.32)	.960 (24.38)	.091 (2.31)	.347 (8.81)	.256 (6.50)	.126 (3.20)
37	1.265 (32.13)	1.110 (28.19)	.091 (2.31)	.347 (8.81)	.256 (6.50)	.126 (3.20)
51-2	1.615 (41.02)	1.460 (37.08)	.091 (2.31)	.347 (8.81)	.256 (6.50)	.126 (3.20)
67	2.015 (51.18)	1.858 (47.19)	.091 (2.31)	.347 (8.81)	.256 (6.50)	.126 (3.20)

Flange to Flange
Mated Dimensions



PANEL-MOUNT CUT-OUT DIMENSIONS

The miniature high-speed connector with mil-spec pedigree connector and contact packaging

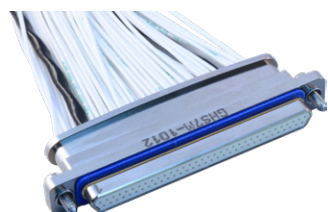
HIGH-SPEED PROTOCOLS AND INSERT ARRANGEMENTS

SUPPORTED HIGH-SPEED PROTOCOLS

Shell Sizes and contact arrangements optimized for today's popular high-speed protocols

 21 Display Port 1.2	 21 HDMI 2.0	 25 DVI-D Dual	 21 DVI-D Single
 15 SATA Gen 1, 2, and 3	 15 USB 3.0 SuperSpeed	 15 Up To: Cat 6A (10GBASE-T Ethernet)	 31 Camera Link

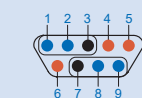
PREWIRED PIGTAIL AND BACK-TO-BACK CABLES



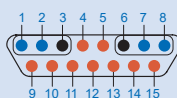
Turnkey, prewired plug and receptacle cable connectors are available as single-ended pigtails or back-to-back cable assemblies with pin or socket contacts per customer requirements. Shielded twisted pair (STP) wiring for differential data pairs is supplied in either 100 or 90 Ohms with a selection of jacketing and color. Discrete hookup wires may be specified in #28 or #30 gauge. Variable lengths of the assembly may be specified in 1 inch increments.

High-Speed Micro-D contact arrangements face view pin connector

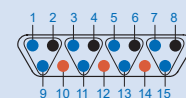
- high-speed signal pair
- signal-pair drain wire
- low-speed signal or power contacts



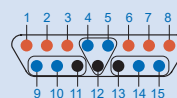
9 pin
(2 high-speed signal pairs)



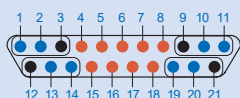
15 pin
(2 high-speed signal pairs)



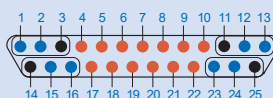
15E pin
up to 10GBASE-T Ethernet
(4 high-speed signal pairs)



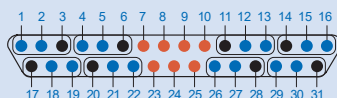
15U pin
USB 3.0
(3 high-speed signal pairs)



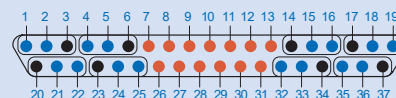
21 pin
(4 high-speed signal pairs)



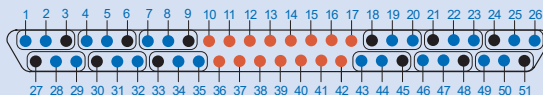
25 pin
(4 high-speed signal pairs)



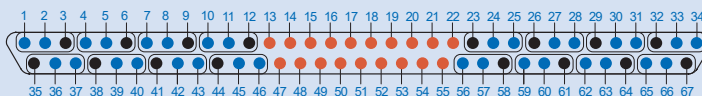
31 pin
(8 high-speed signal pairs)



37 pin
(8 high-speed signal pairs)



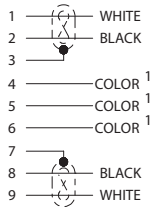
51 pin (special 2 row)
(12 high-speed signal pairs)



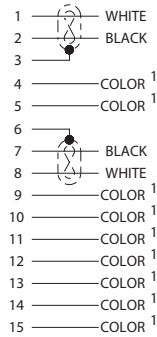
67 pin
(16 high-speed signal pairs)

Wiring Diagrams

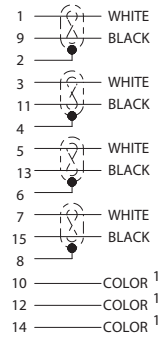
9 POSITION



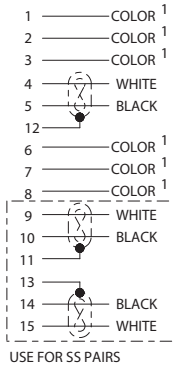
15 POSITION



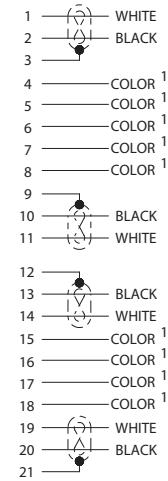
15E POSITION



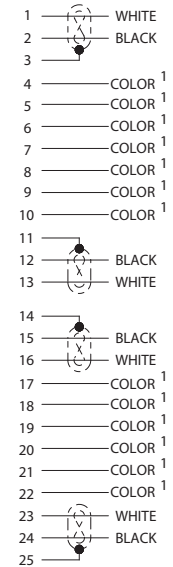
15U POSITION



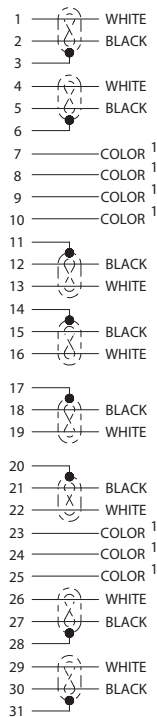
21 POSITION



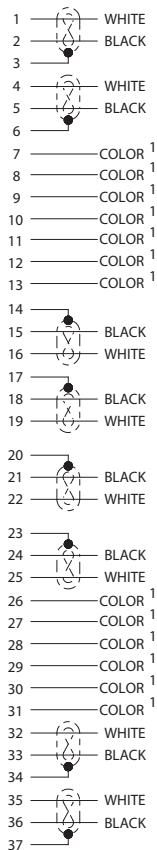
25 POSITION



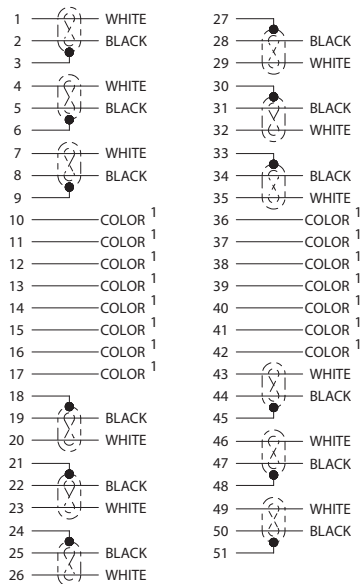
31 POSITION



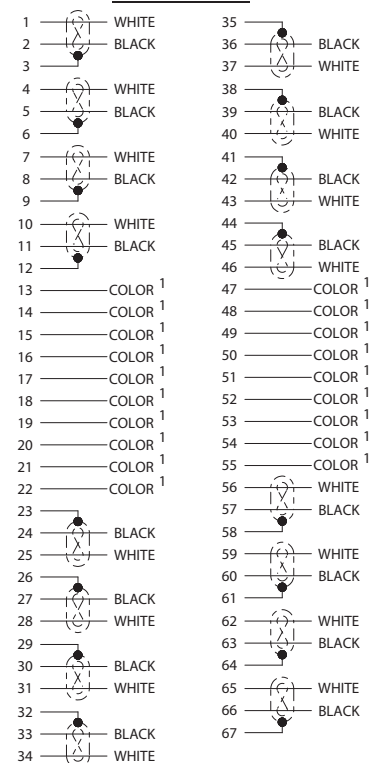
37 POSITION



51 POSITION

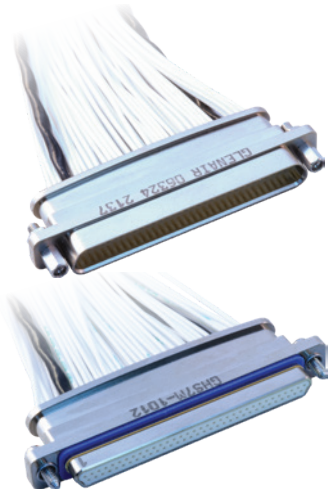


67 POSITION



GHSM prewired pin and socket cable connectors: pigtails and double-ended assemblies

GHSM



GHSM pin and socket
cable assemblies

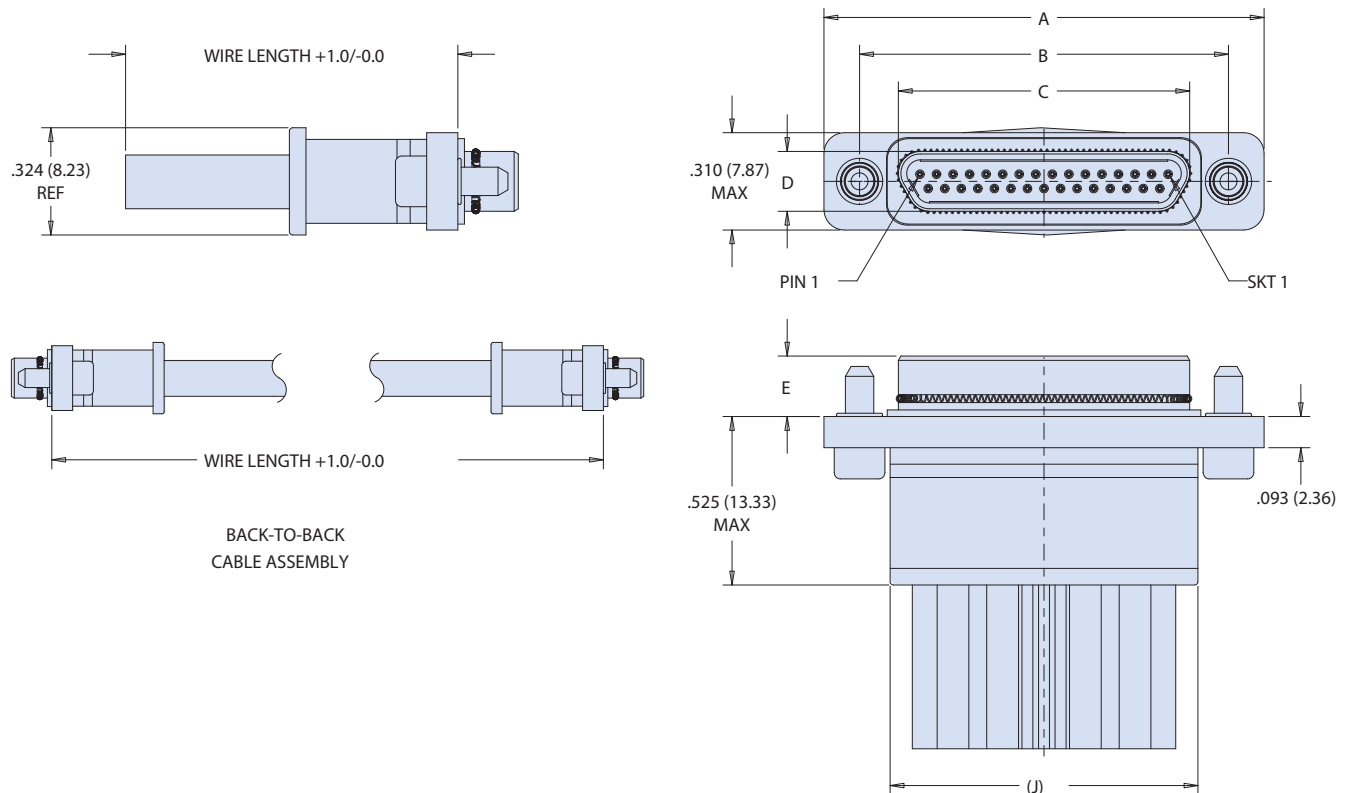
APPLICATION NOTES

GHSM cable connectors are pre-wired for use with specific high-speed datalink protocols. Each assembly is available as a single-ended wire pigtail or back-to-back jumper, pre-wired with STP cable for dedicated differential data pairs (plus ground wire). Remaining contacts are terminated with standard hook-up wire for low-speed signal or power. Choose the insert arrangement, per the table, that matches the target high-speed protocol.

How To Order	
Sample Part Number	GHSM 2 R -31 P -A 8 J 1 -18 L A
Series	GHSM = Glenair High-Speed Micro-D, Cable Assembly
Shell Finish	2 = Nickel 5 = Gold
Insulator Material	R = PPS
Contact Layout	9, 15, 15E, 15U, 21, 25, 31, 37, 51-2, 67
Contact Type	P = Pin (Single End Plug) S = Socket (Single End Receptacle) GP = Double End Cable, Pin Connectors Both Ends GS = Double End Cable, Socket Connectors Both Ends CS = Double End Cable, Pin and Socket
High-Speed Cable Type	C = Glenair Cable 963-057-28 (100 Ohm) Omit for discrete wire only
Discrete Wire Gage (AWG)	8 = #28 0 = #30 (J Wire Type only)
Discrete Wire Type	K = M22759/11 600 VRMS Teflon (TFE) J = M22759/33 600 VRMS Modified Cross-Linked Tefzel (ETFE)
Discrete Wire Color	1 = White 7 = Ten Color Repeating
Wire Length	Wire Length in Inches, 6 Inch Minimum; 18 = 18 Inches
Hardware Type	S = Male Jackscrew, Slot Head, Low Profile M = Male Jackscrew, Allen Head, Low Profile L = Male Jackscrew, Allen Head, Non-Removeable P = Female Jackpost Real Panel Jackpost options* R1 = .031" Panel R2 = .047" Panel R3 = .062" Panel R4 = .094" Panel R5 = .125" Panel R6 = .080" Panel *For connector styles with panel O-Ring groove, see series GHSRPM
Shield and Jacket Option	N = No Shield, No Jacket (Customer to Install) A = Braided Shield Installed (Nickel Over Copper) C = Braided Shield Installed (Nickel Over Copper) with E-CTFE Halar "Expando" Jacket S = 100% Braided Amberstrand Shield Installed T = 100% Braided Amberstrand Shield Installed with E-CTFE Halar "Expando" Jacket V = 75% Braided Amberstrand Shield Installed Z = 75% Braided Amberstrand Shield Installed with E-CTFE Halar "Expando" Jacket W = Armorlite Braided Microfilament Stainless Steel Shield Installed X = Armorlite Braided Microfilament Stainless Steel Shield Installed with E-CTFE Halar "Expando" Jacket

Hardware Options				
S	M	L	P	R1 - R6
Slot Head Jackscrew	Hex Head Jackscrew	Hex Head Jackscrew Non-Removable	Jackpost	Rear Panel Jackpost See GHSRPM Series for Details

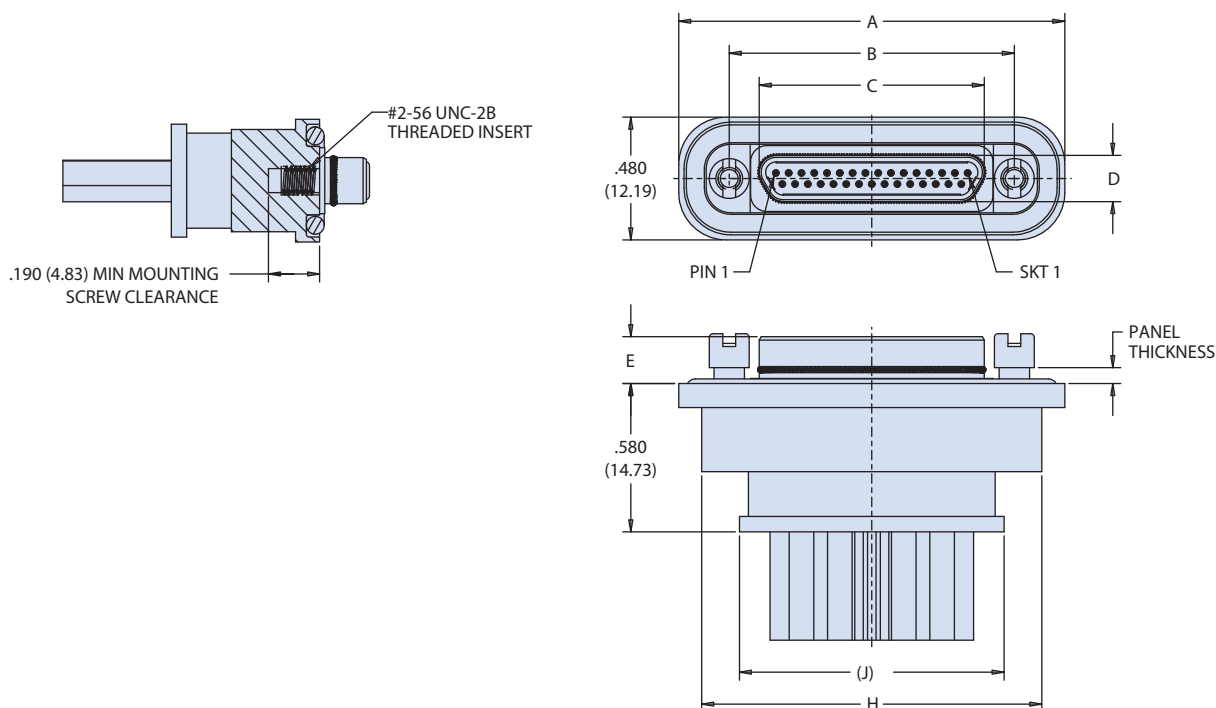
GHSM prewired pin and socket cable connectors: pigtails and double-ended assemblies



GHSM

Dimensions						
LAYOUT	A MAX	B ±0.003	C MAX	D MAX	E ± 0.003	J REF
9P	0.785 (19.94)	0.565 (14.35)	0.333 (8.46)	0.184 (4.67)	0.183 (4.65)	0.380 (9.65)
9S	0.785 (19.94)	0.565 (14.35)	0.400 (10.16)	0.250 (6.35)	0.195 (4.95)	0.450 (11.43)
15P	0.935 (23.75)	0.715 (18.16)	0.483 (12.27)	0.184 (4.67)	0.183 (4.65)	0.530 (13.46)
15S	0.935 (23.75)	0.715 (18.16)	0.551 (14.00)	0.250 (6.35)	0.195 (4.95)	0.600 (15.24)
21P	1.085 (27.56)	0.865 (21.97)	0.633 (16.08)	0.184 (4.67)	0.183 (4.65)	0.680 (17.27)
21S	1.085 (27.56)	0.865 (21.97)	0.701 (17.81)	0.250 (6.35)	0.195 (4.95)	0.750 (19.05)
25P	1.185 (30.10)	0.965 (24.51)	0.733 (18.62)	0.184 (4.67)	0.183 (4.65)	0.780 (19.81)
25S	1.185 (30.10)	0.965 (24.51)	0.801 (20.35)	0.250 (6.35)	0.195 (4.95)	0.850 (21.59)
31P	1.335 (33.91)	1.115 (28.32)	0.833 (21.16)	0.184 (4.67)	0.183 (4.65)	0.930 (23.62)
31S	1.335 (33.91)	1.115 (28.32)	0.951 (24.16)	0.250 (6.35)	0.195 (4.95)	1.000 (25.40)
37P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	0.184 (4.67)	0.183 (4.65)	1.080 (27.43)
37S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	0.250 (6.35)	0.195 (4.95)	1.150 (29.21)
51P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	0.184 (4.67)	0.183 (4.65)	1.390 (35.31)
51S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	0.250 (6.35)	0.195 (4.95)	1.460 (37.08)
67P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	0.184 (4.67)	0.183 (4.65)	1.830 (46.48)
67S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	0.250 (6.35)	0.195 (4.95)	1.900 (48.26)

GHSRPM Prewired pin and socket rear panel-mount connectors: single-ended pigtails

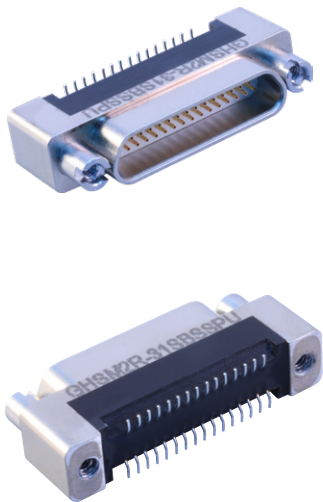


GHSRPM

Dimensions								
LAYOUT	A	B±.003	C MAX	D MAX	E±.003	F ±.003	J Ref	H
9P	1.510 (38.35)	.565 (14.35)	.333 (8.46)	.184 (4.67)	.183 (4.65)	1.110 (28.19)	.450 (11.43)	.720 (18.29)
9S	1.510 (38.35)	.565 (14.35)	.400 (10.16)	.250 (6.35)	.195 (4.95)	1.110 (28.19)	.450 (11.43)	.720 (18.29)
15P	1.660 (42.16)	.715 (18.16)	.483 (12.27)	.184 (4.67)	.183 (4.65)	1.260 (32.00)	.600 (15.24)	.870 (22.10)
15S	1.660 (42.16)	.715 (18.16)	.551 (14.00)	.250 (6.35)	.195 (4.95)	1.260 (32.00)	.600 (15.24)	.870 (22.10)
21P	1.810 (45.97)	.865 (21.97)	.633 (16.08)	.184 (4.67)	.183 (4.65)	1.410 (35.81)	.750 (19.05)	1.020 (25.91)
21S	1.810 (45.97)	.865 (21.97)	.701 (17.81)	.250 (6.35)	.195 (4.95)	1.410 (35.81)	.750 (19.05)	1.020 (25.91)
25P	1.910 (48.51)	.965 (24.51)	.733 (18.62)	.184 (4.67)	.183 (4.65)	1.510 (38.35)	.850 (21.59)	1.120 (28.45)
25S	1.910 (48.51)	.965 (24.51)	.801 (20.35)	.250 (6.35)	.195 (4.95)	1.510 (38.35)	.850 (21.59)	1.120 (28.45)
31P	2.060 (52.32)	1.115 (28.32)	.883 (22.43)	.184 (4.67)	.183 (4.65)	1.660 (42.16)	1.000 (25.40)	1.270 (32.26)
31S	2.060 (52.32)	1.115 (28.32)	.951 (24.16)	.250 (6.35)	.195 (4.95)	1.660 (42.16)	1.000 (25.40)	1.270 (32.26)
37P	2.210 (56.13)	1.265 (32.13)	1.033 (26.24)	.184 (4.67)	.183 (4.65)	1.810 (45.97)	1.150 (29.21)	1.420 (36.07)
37S	2.210 (56.13)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.195 (4.95)	1.810 (45.97)	1.150 (29.21)	1.420 (36.07)
51-2P	2.560 (65.02)	1.615 (41.02)	1.384 (35.15)	.184 (4.67)	.183 (4.65)	2.160 (54.86)	1.500 (38.10)	1.770 (44.96)
51-2S	2.560 (65.02)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)	.195 (4.95)	2.160 (54.86)	1.500 (38.10)	1.770 (44.96)
67P	2.960 (75.18)	2.015 (51.18)	1.784 (45.31)	.184 (4.67)	.183 (4.65)	2.560 (65.02)	1.900 (48.26)	2.170 (55.12)
67S	2.960 (75.18)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.195 (4.95)	2.560 (65.02)	1.900 (48.26)	2.170 (55.12)

GHSM-BSS Straight surface-mount
pin and socket PCB connectors (jackpost hardware)

GHSM-BSS

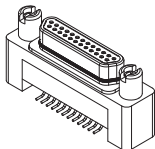
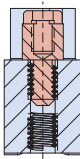


How To Order									
Sample Part Number		GHSM	2	R	-25	S	BSS	PU	-513
Series	GHSM = Glenair High-Speed Micro-D, Straight								
Shell Finish	2 = Nickel 5 = Gold								
Insulator Material	R = PPS								
Contact Layout	9, 15, 21, 25, 31, 37, 51-2, 67								
Contact Type	P = Pin (Plug) S = Socket (Receptacle)								
Termination Type	BSS = Board Straight Surface Mount								
Hardware Type (see options below)	Jackpost Options PN = Extended Jackposts for .062" PCB RN = Extended Jackposts for .196" PCB PU = Short Jackposts with Threaded Inserts								
	Rear Panel Jackposts with Threaded Inserts* R1 = .032" Panel R2 = .047" Panel R3 = .062" Panel R4 = .093" Panel R5 = .125" Panel R6 = .080" Panel								
Gold-Plated Terminal Mod Code	Connectors are solder-dipped in 60/40 Tin-Lead solder To delete solder dip and change to gold-plated terminals, add Mod Code -513								

*Refer to Appendix A for recommended panel cutout.

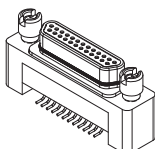
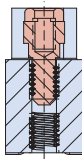
HARDWARE OPTIONS

PU STYLE



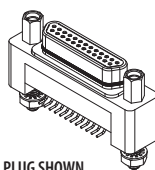
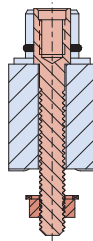
PLUG SHOWN WITH
SHORT JACKPOSTS AND
THREADED INSERTS

R1 - R6
STYLE



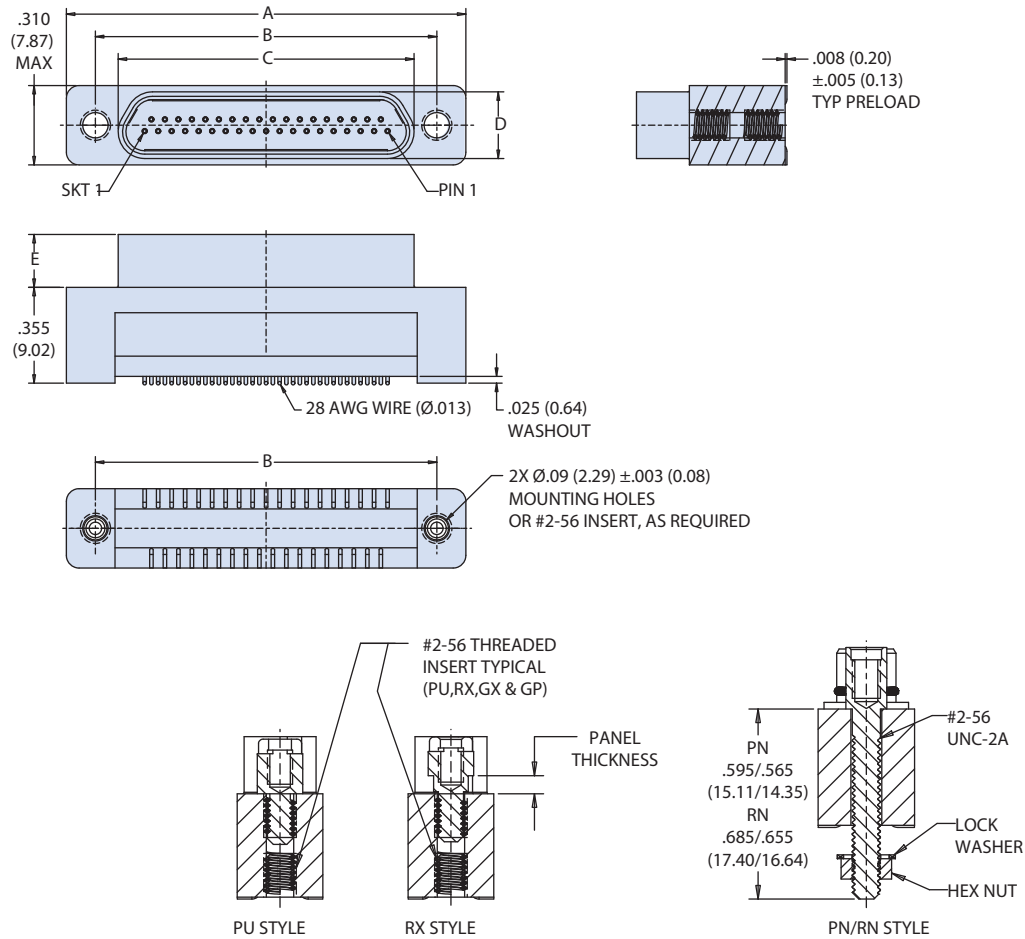
PLUG SHOWN WITH
REAR PANEL JACKPOSTS
AND THREADED INSERTS

PN/RN
STYLE



PLUG SHOWN
WITH EXTENDED
JACKPOSTS

GHSM-BSS Straight surface-mount pin and socket PCB connectors (jackpost hardware)

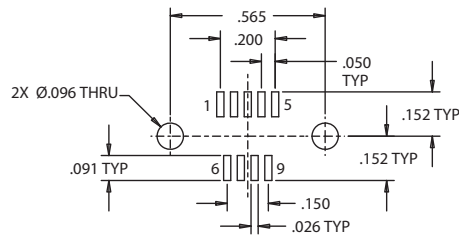


GHSM-BSS

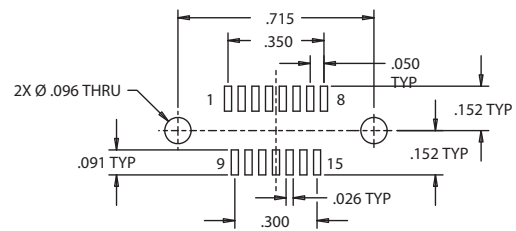
Dimensions					
LAYOUT	A MAX	B±.003	C MAX	D MAX	E±.003
9P	.785 (19.94)	.565 (14.35)	.333 (8.46)	.184 (4.67)	.183 (4.65)
9S	.785 (19.94)	.565 (14.35)	.400 (10.16)	.250 (6.35)	.195 (4.95)
15P	.935 (23.75)	.715 (18.16)	.483 (12.27)	.184 (4.67)	.183 (4.65)
15S	.935 (23.75)	.715 (18.16)	.551 (14.00)	.250 (6.35)	.195 (4.95)
21P	1.085 (27.56)	.865 (21.97)	.633 (16.08)	.184 (4.67)	.183 (4.65)
21S	1.085 (27.56)	.865 (21.97)	.701 (17.81)	.250 (6.35)	.195 (4.95)
25P	1.185 (30.10)	.965 (24.51)	.733 (18.62)	.184 (4.67)	.183 (4.65)
25S	1.185 (30.10)	.965 (24.51)	.801 (20.35)	.250 (6.35)	.195 (4.95)
31P	1.335 (33.91)	1.115 (28.32)	.883 (22.43)	.184 (4.67)	.183 (4.65)
31S	1.335 (33.91)	1.115 (28.32)	.951 (24.16)	.250 (6.35)	.195 (4.95)
37P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	.184 (4.67)	.183 (4.65)
37S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.195 (4.95)
51-2P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	.184 (4.67)	.183 (4.65)
51-2S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)	.195 (4.95)
67P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	.184 (4.67)	.183 (4.65)
67S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.195 (4.95)

GHSM-BSS Straight surface-mount pin and socket PCB connectors (jackpost hardware)

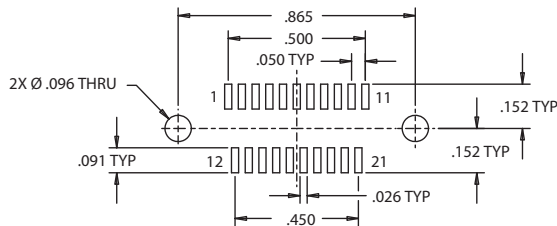
GHSM-BSS



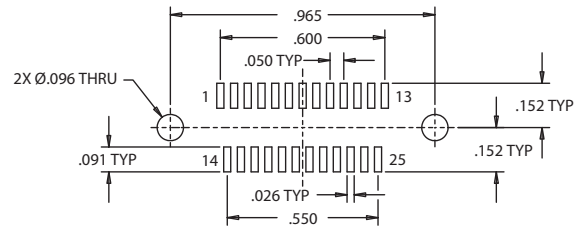
9 PIN



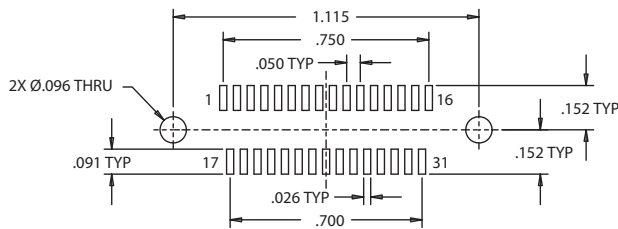
15 PIN



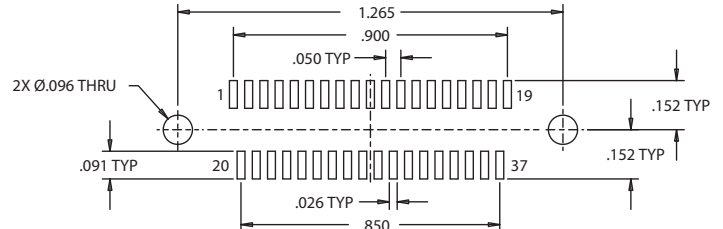
21 PIN



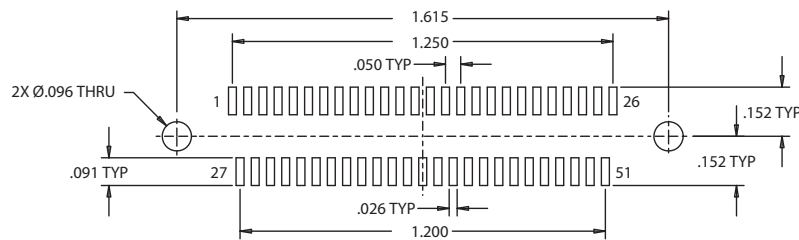
25 PIN



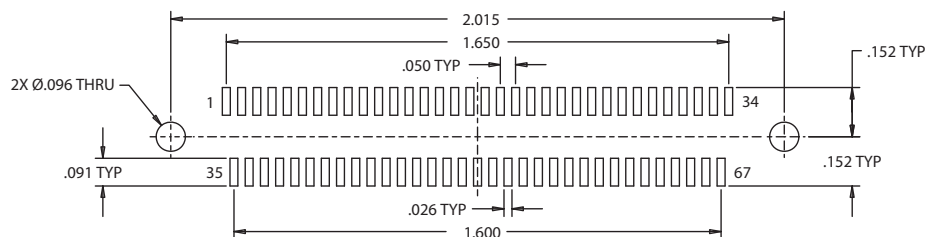
31 PIN



37 PIN



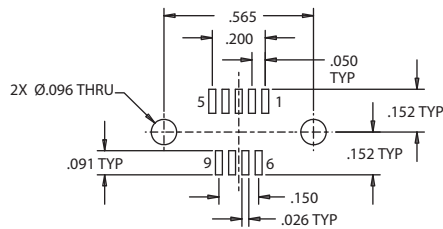
51-2 PIN



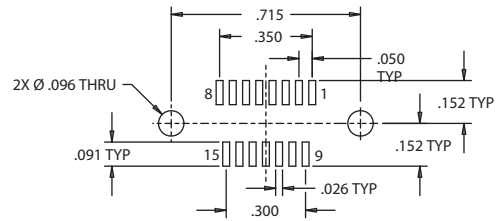
67 PIN

GHSM-BSS Straight surface-mount pin and socket PCB connectors (jackpost hardware)

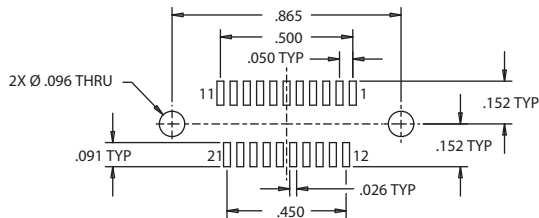
GHSM-BSS



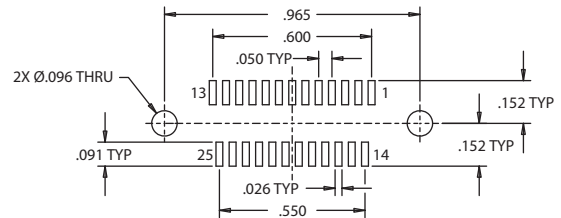
9 SOCKET



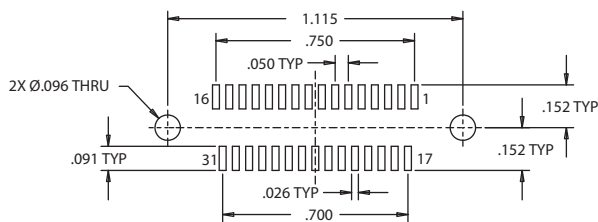
15 SOCKET



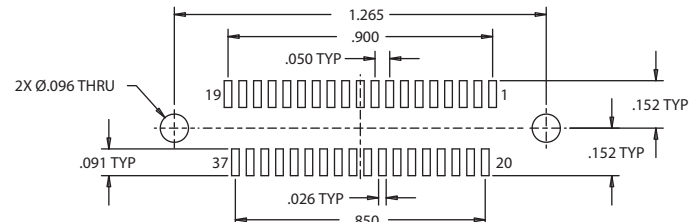
21 SOCKET



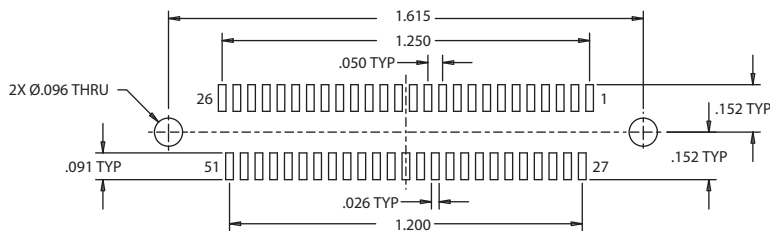
25 SOCKET



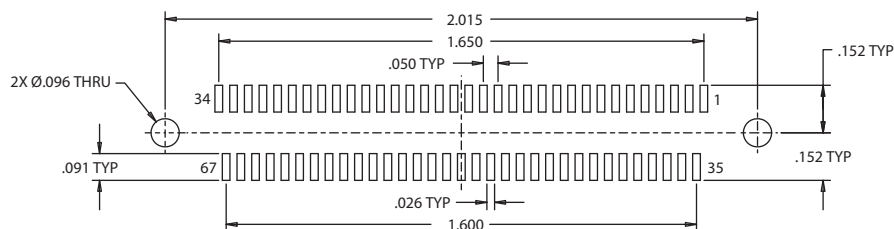
31 SOCKET



37 SOCKET



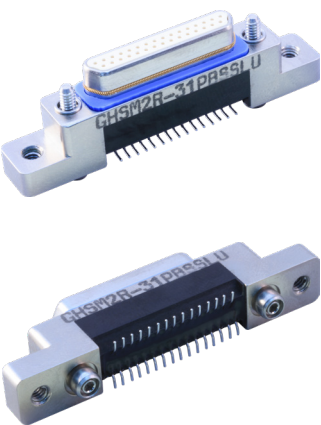
51-2 SOCKET



67 SOCKET

GHSM-BSS Straight surface-mount
pin and socket PCB connectors (jackscrew hardware)

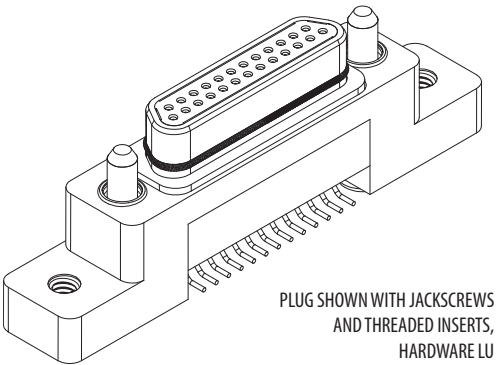
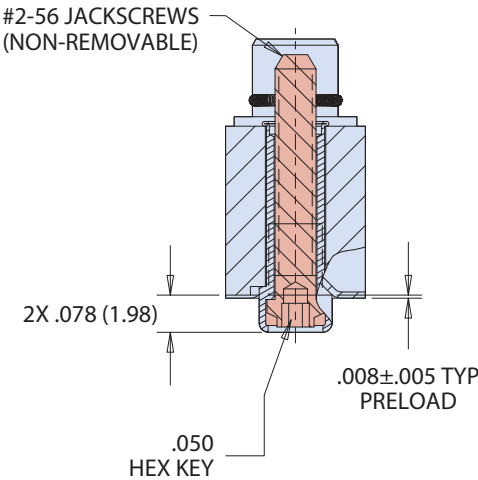
GHSM-BSS



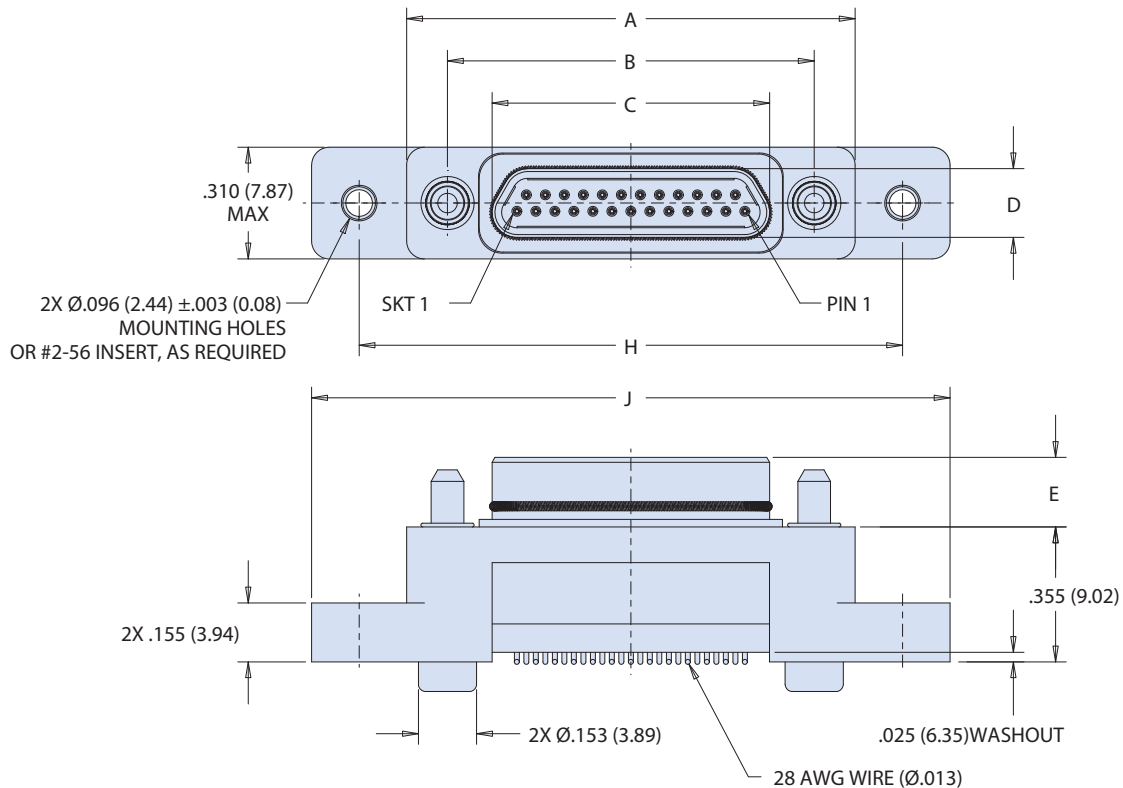
		How To Order							
Sample Part Number		GHSM	2	R	-25	S	BSS	LU	-513
Series	GHSM = Glenair High-Speed Micro-D, Straight								
Shell Finish	2 = Nickel 5 = Gold								
Insulator Material	R = PPS								
Contact Layout	9, 15, 21, 25, 31, 37, 51-2, 67								
Contact Type	P = Pin (Plug) S = Socket (Receptacle)								
Termination Type	BSS = Board Straight Surface Mount								
Hardware Type (see options below)	Jackscrews and Mounting Holes, with or without Threaded Insert LU = Hex Head Jackscrews (Non-Removable) with Threaded Inserts L = Hex Head Jackscrews (Non-Removable) with Thru-Holes								
Gold-Plated Terminal Mod Code	Connectors are solder-dipped in 60/40 Tin-Lead solder To delete solder dip and change to gold-plated terminals, add Mod Code -513								

HARDWARE OPTIONS

LU/L STYLE



GHSM-BSS Straight surface-mount pin and socket PCB connectors (jackscrew hardware)

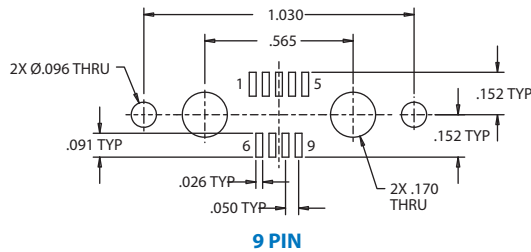


GHSM-BSS

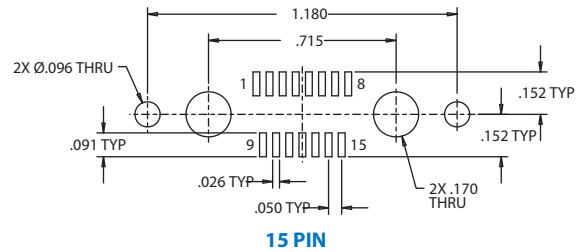
Dimensions							
LAYOUT	A MAX	B±.003	C MAX	D MAX	E±.003	H	J MAX
9P	.785 (19.94)	.565 (14.35)	.333 (8.46)	.184 (4.67)	.183 (4.65)	1.030 (26.16)	1.285 (32.64)
9S	.785 (19.94)	.565 (14.35)	.400 (10.16)	.250 (6.35)	.195 (4.95)	1.030 (26.16)	1.285 (32.64)
15P	.935 (23.75)	.715 (18.16)	.483 (12.27)	.184 (4.67)	.183 (4.65)	1.180 (29.97)	1.435 (36.45)
15S	.935 (23.75)	.715 (18.16)	.551 (14.00)	.250 (6.35)	.195 (4.95)	1.180 (29.97)	1.435 (36.45)
21P	1.085 (27.56)	.865 (21.97)	.633 (16.08)	.184 (4.67)	.183 (4.65)	1.330 (33.78)	1.585 (40.26)
21S	1.085 (27.56)	.865 (21.97)	.701 (17.81)	.250 (6.35)	.195 (4.95)	1.330 (33.78)	1.585 (40.26)
25P	1.185 (30.10)	.965 (24.51)	.733 (18.62)	.184 (4.67)	.183 (4.65)	1.430 (36.32)	1.685 (42.80)
25S	1.185 (30.10)	.965 (24.51)	.801 (20.35)	.250 (6.35)	.195 (4.95)	1.430 (36.32)	1.685 (42.80)
31P	1.335 (33.91)	1.115 (28.32)	.883 (22.43)	.184 (4.67)	.183 (4.65)	1.580 (40.13)	1.835 (46.61)
31S	1.335 (33.91)	1.115 (28.32)	.951 (24.16)	.250 (6.35)	.195 (4.95)	1.580 (40.13)	1.835 (46.61)
37P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	.184 (4.67)	.183 (4.65)	1.730 (43.94)	1.985 (50.42)
37S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.195 (4.95)	1.730 (43.94)	1.985 (50.42)
51-2P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	.184 (4.67)	.183 (4.65)	2.080 (52.83)	2.335 (59.31)
51-2S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)	.195 (4.95)	2.080 (52.83)	2.335 (59.31)
67P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	.184 (4.67)	.183 (4.65)	2.480 (62.99)	2.735 (69.47)
67S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.195 (4.95)	2.480 (62.99)	2.735 (69.47)

GHSM-BSS Straight surface-mount pin and socket PCB connectors (jackscrew hardware)

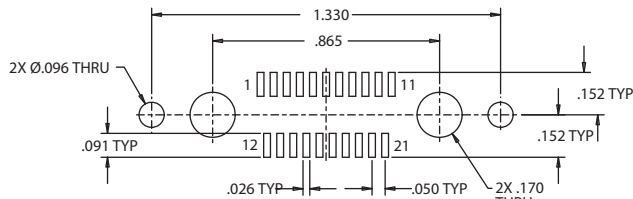
GHSM-BSS



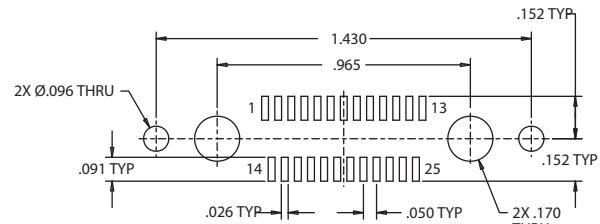
9 PIN



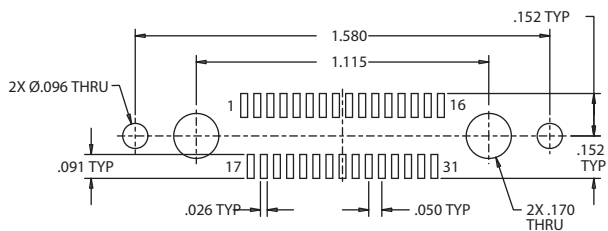
15 PIN



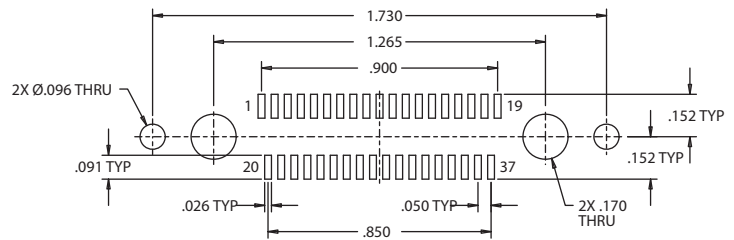
21 PIN



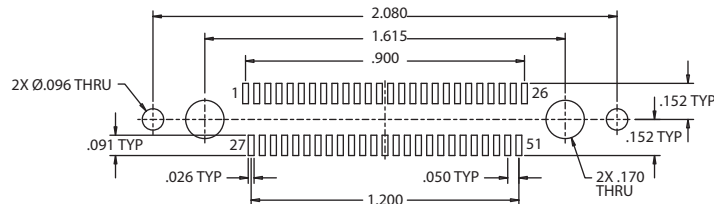
25 PIN



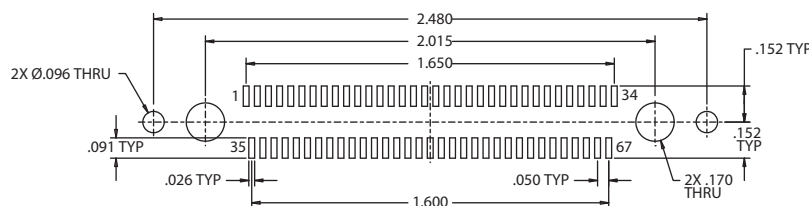
31 PIN



37 PIN



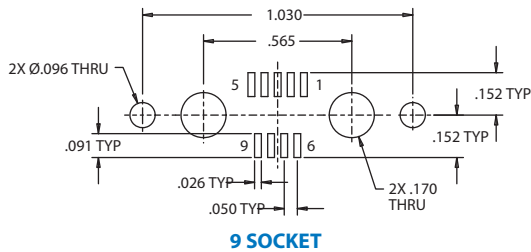
51-2 PIN



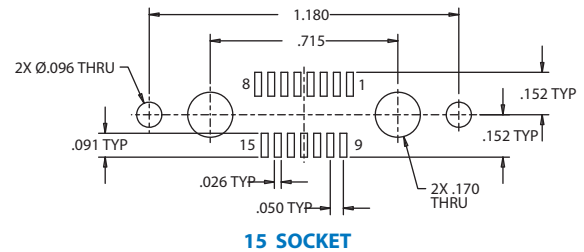
67 PIN

GHSM-BSS Straight surface-mount pin and socket PCB connectors (jackscrew hardware)

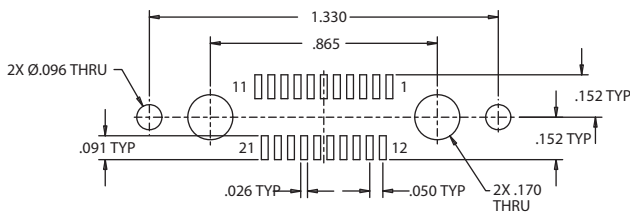
GHSM-BSS



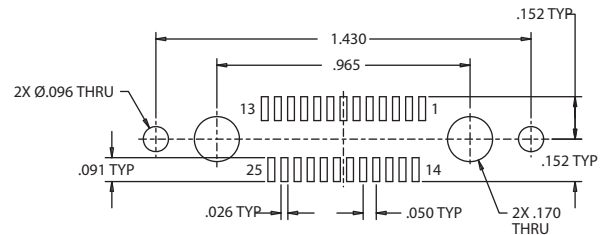
9 SOCKET



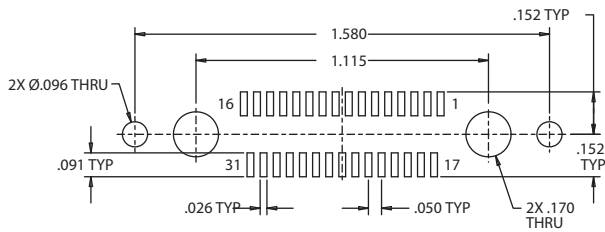
15 SOCKET



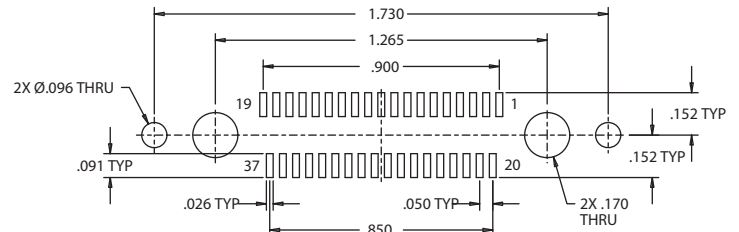
21 SOCKET



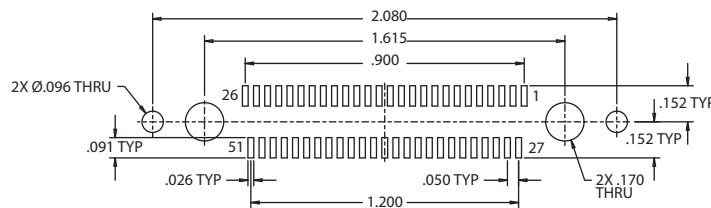
25 SOCKET



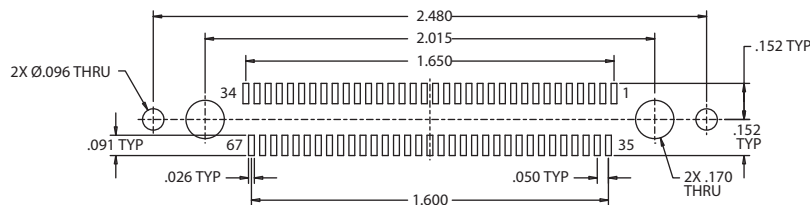
31 SOCKET



37 SOCKET



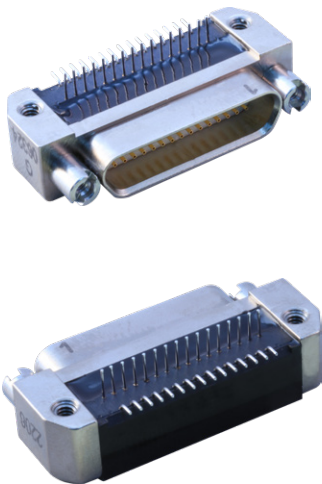
51-2 SOCKET



67 SOCKET

GHSM-HBR Hybrid right-angle (surface-mount / thru-hole)
pin and socket PCB connectors (jackpost hardware)

GHSM-HBR

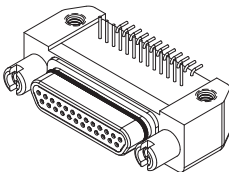
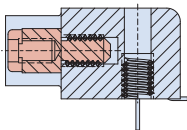


How To Order										
Sample Part Number	GHSM	2	R	-25	S	HBR	P	T	-.110	-513
Series	GHSM = Glenair High-Speed Micro-D, Right Angle									
Shell Finish	2 = Nickel 5 = Gold									
Insulator Material	R = PPS									
Contact Layout	9, 15, 21, 25, 31, 37, 51-2, 67									
Contact Type	P = Pin (Plug) S = Socket (Receptacle)									
Termination Type	HBR = Hybrid Board Right Angle									
Hardware Type (see options below)	P = Jackposts									
	Rear Panel Jackposts with Threaded Inserts*									
	R1 = .032" Panel R2 = .047" Panel									
	R3 = .062" Panel R4 = .093" Panel									
	R5 = .125" Panel R6 = .080" Panel									
Threaded Insert Option	T = Threaded Insert in Board Mounting Hole Omit for Thru-Hole									
Right Angle Lead Length	.080, .110, .140, .172; Length in inches ±.015									
Gold-Plated Terminal Mod Code	Connectors are solder-dipped in 60/40 Tin-Lead solder To delete solder dip and change to gold-plated terminals, add Mod Code -513									

*Refer to Appendix A for recommended panel cutout.

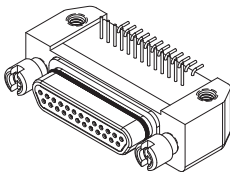
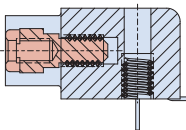
HARDWARE OPTIONS

P STYLE



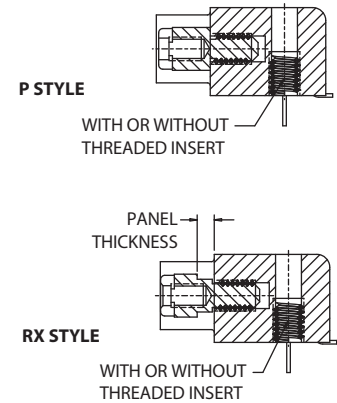
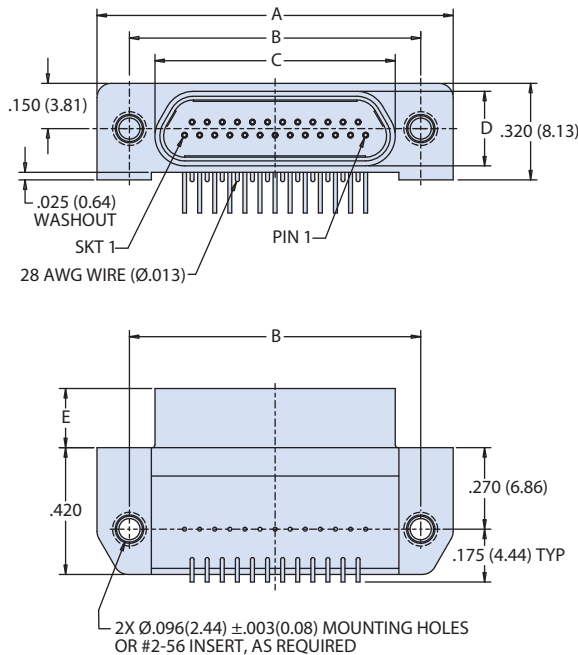
PLUG SHOWN
WITH JACKPOSTS
AND THREADED INSERTS

R1 - R6 STYLE



PLUG SHOWN
WITH REAR PANEL JACKPOSTS
AND THREADED INSERTS

GHSM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket PCB connectors (jackpost hardware)

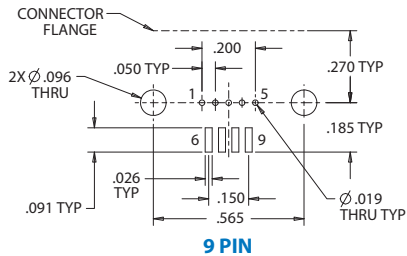


GHSM-HBR

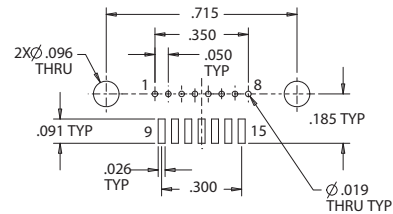
Dimensions					
LAYOUT	A MAX	B±.003	C MAX	D MAX	E±.003
9P	.785 (19.94)	.565 (14.35)	.333 (8.46)	.184 (4.67)	.183 (4.65)
9S	.785 (19.94)	.565 (14.35)	.400 (10.16)	.250 (6.35)	.195 (4.95)
15P	.935 (23.75)	.715 (18.16)	.483 (12.27)	.184 (4.67)	.183 (4.65)
15S	.935 (23.75)	.715 (18.16)	.551 (14.00)	.250 (6.35)	.195 (4.95)
21P	1.085 (27.56)	.865 (21.97)	.633 (16.08)	.184 (4.67)	.183 (4.65)
21S	1.085 (27.56)	.865 (21.97)	.701 (17.81)	.250 (6.35)	.195 (4.95)
25P	1.185 (30.10)	.965 (24.51)	.733 (18.62)	.184 (4.67)	.183 (4.65)
25S	1.185 (30.10)	.965 (24.51)	.801 (20.35)	.250 (6.35)	.195 (4.95)
31P	1.335 (33.91)	1.115 (28.32)	.883 (22.43)	.184 (4.67)	.183 (4.65)
31S	1.335 (33.91)	1.115 (28.32)	.951 (24.16)	.250 (6.35)	.195 (4.95)
37P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	.184 (4.67)	.183 (4.65)
37S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.195 (4.95)
51-2P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	.184 (4.67)	.183 (4.65)
51-2S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)	.195 (4.95)
67P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	.184 (4.67)	.183 (4.65)
67S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.195 (4.95)

GHSM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket PCB connectors (jackpost hardware)

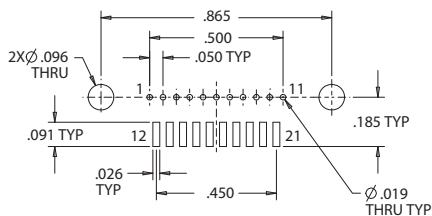
GHSM-HBR



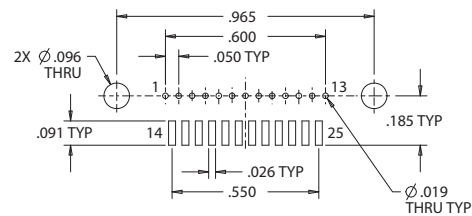
9 PIN



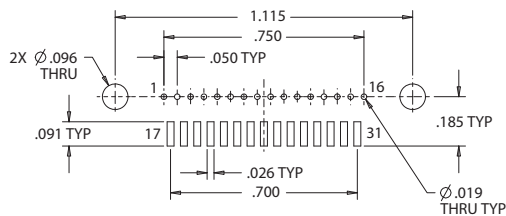
15 PIN



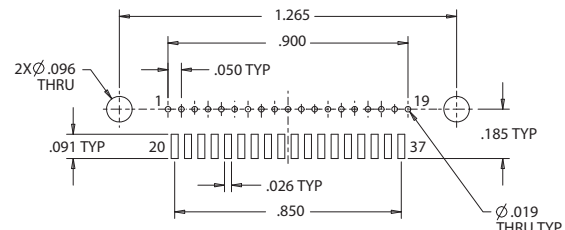
21 PIN



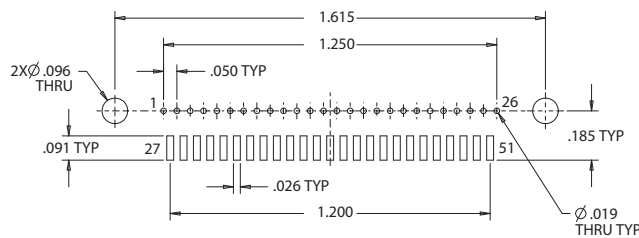
25 PIN



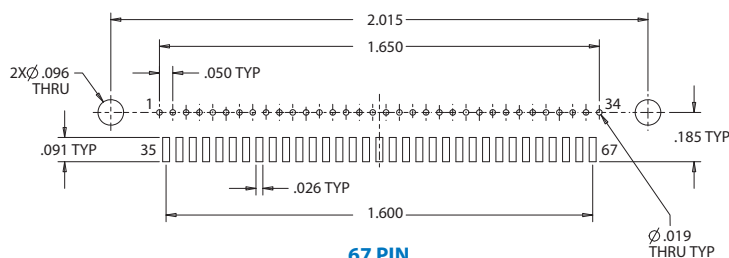
31 PIN



37 PIN



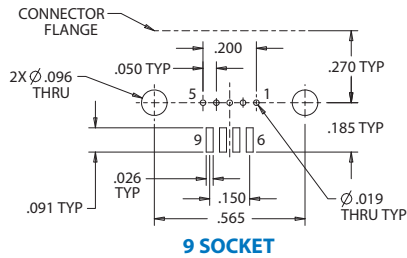
51-2 PIN



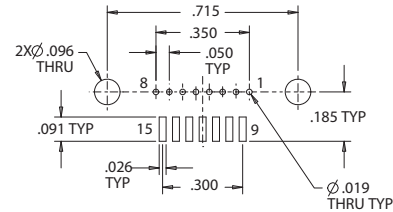
67 PIN

GHSM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket PCB connectors (jackpost hardware)

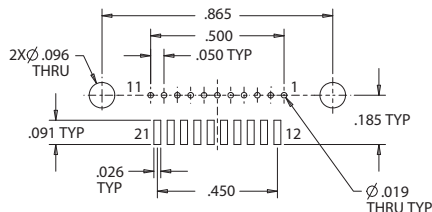
GHSM-HBR



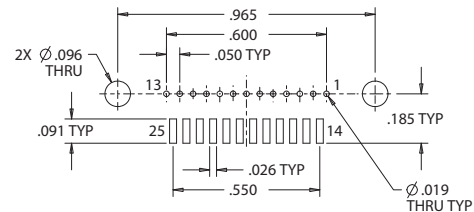
9 SOCKET



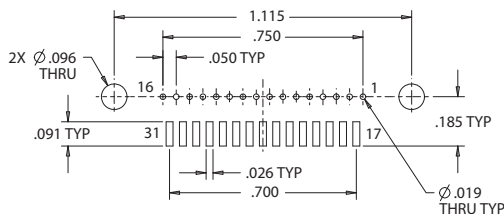
15 SOCKET



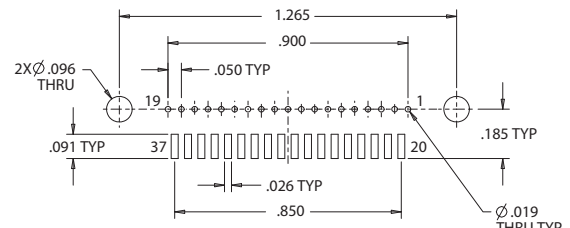
21 SOCKET



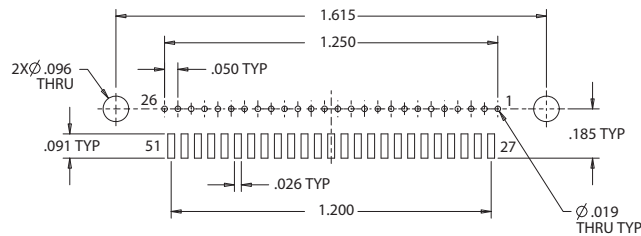
25 SOCKET



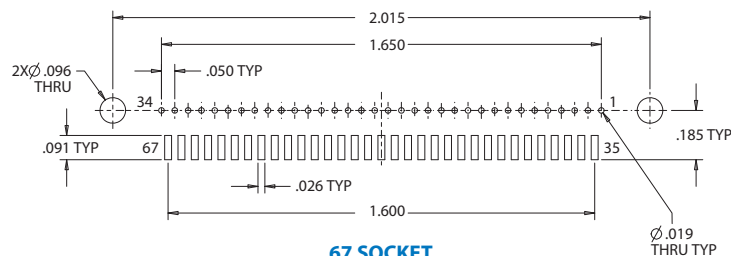
31 SOCKET



37 SOCKET



51-2 SOCKET



67 SOCKET

GHSM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket PCB connectors (jackscrew hardware)

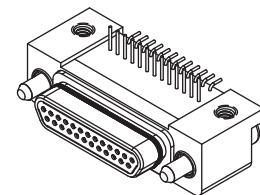
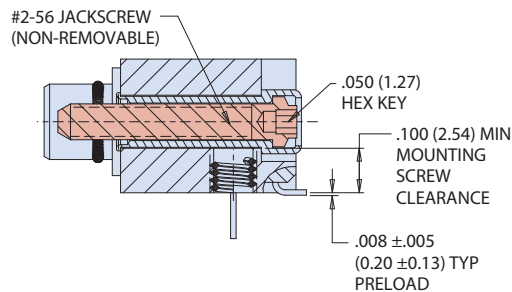
GHSM-HBR



How To Order										
Sample Part Number	GHSM	2	R	-25	S	HBR	L	T	-110	-513
Series	GHSM = Glenair High-Speed Micro-D, Right Angle									
Shell Finish	2 = Nickel 5 = Gold									
Insulator Material	R = PPS									
Contact Layout	9, 15, 21, 25, 31, 37, 51-2, 67									
Contact Type	P = Pin (Plug) S = Socket (Receptacle)									
Termination Type	HBR = Hybrid Board Right Angle									
Hardware Type (see table below)	L = Hex Head Jackscrews (Non-Removable)									
Threaded Insert Option	T = Threaded Insert in Board Mounting Hole									
Right Angle Lead Length	.080, .110, .140, .172; Length in inches ±.015									
Gold-Plated Terminal Mod Code	Connectors are solder-dipped in 60/40 Tin-Lead solder To delete solder dip and change to gold-plated terminals, add Mod Code -513									

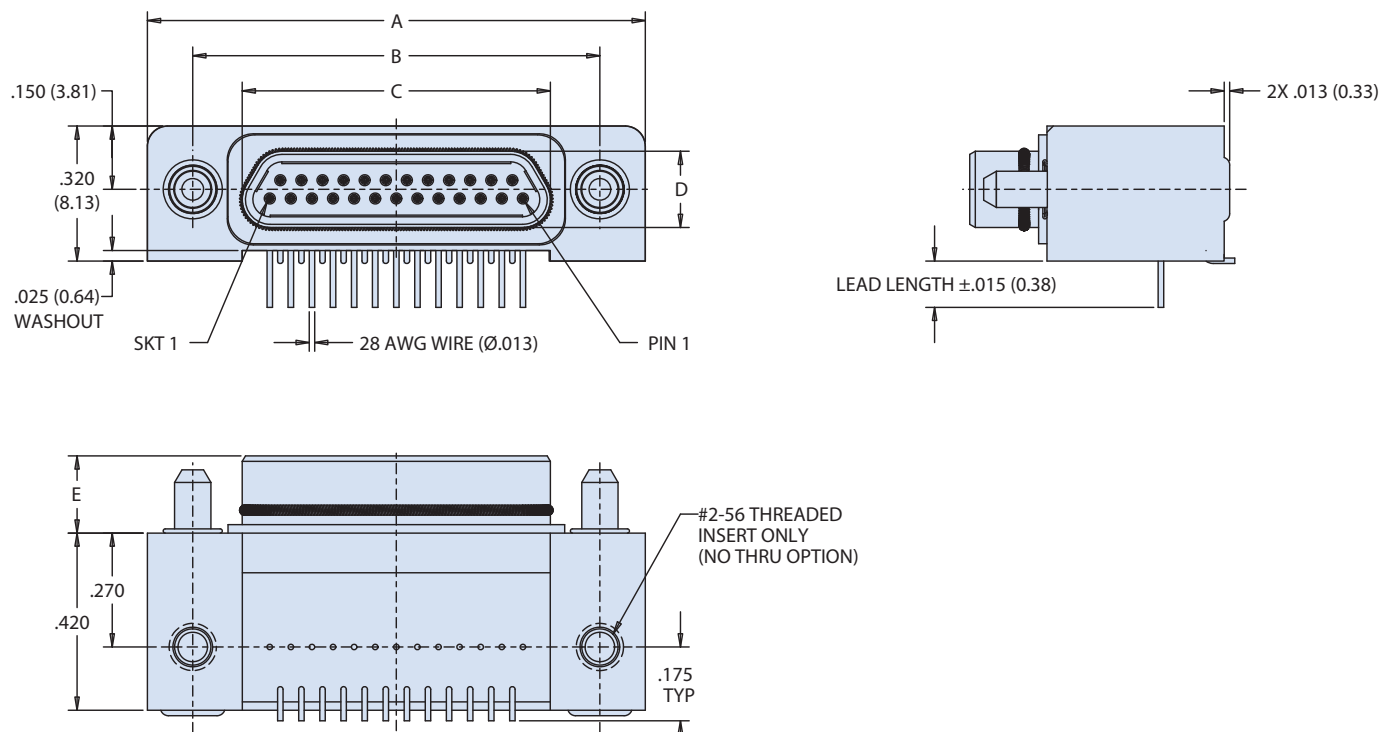
HARDWARE TYPE

L STYLE



PLUG SHOWN
WITH HEX HEAD JACKSCREWS

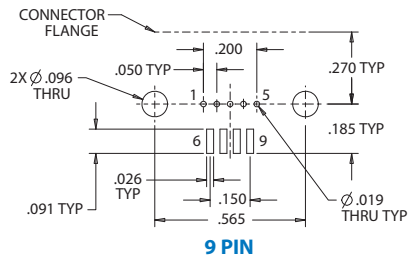
GHSM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket PCB connectors (jackscrew hardware)



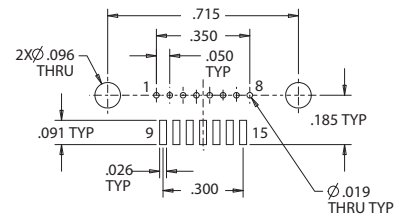
Dimensions					
LAYOUT	A MAX	B±.003	C MAX	D MAX	E±.003
9P	.785 (19.94)	.565 (14.35)	.333 (8.46)	.184 (4.67)	.183 (4.65)
9S	.785 (19.94)	.565 (14.35)	.400 (10.16)	.250 (6.35)	.195 (4.95)
15P	.935 (23.75)	.715 (18.16)	.483 (12.27)	.184 (4.67)	.183 (4.65)
15S	.935 (23.75)	.715 (18.16)	.551 (14.00)	.250 (6.35)	.195 (4.95)
21P	1.085 (27.56)	.865 (21.97)	.633 (16.08)	.184 (4.67)	.183 (4.65)
21S	1.085 (27.56)	.865 (21.97)	.701 (17.81)	.250 (6.35)	.195 (4.95)
25P	1.185 (30.10)	.965 (24.51)	.733 (18.62)	.184 (4.67)	.183 (4.65)
25S	1.185 (30.10)	.965 (24.51)	.801 (20.35)	.250 (6.35)	.195 (4.95)
31P	1.335 (33.91)	1.115 (28.32)	.883 (22.43)	.184 (4.67)	.183 (4.65)
31S	1.335 (33.91)	1.115 (28.32)	.951 (24.16)	.250 (6.35)	.195 (4.95)
37P	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	.184 (4.67)	.183 (4.65)
37S	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.195 (4.95)
51-2P	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	.184 (4.67)	.183 (4.65)
51-2S	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)	.195 (4.95)
67P	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	.184 (4.67)	.183 (4.65)
67S	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.195 (4.95)

GHSM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket PCB connectors (jackscrew hardware)

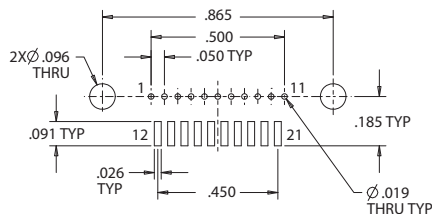
GHSM-HBR



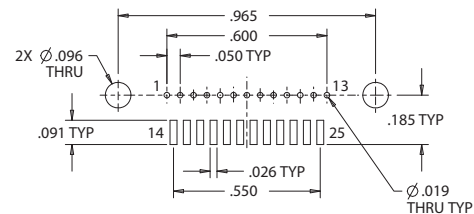
9 PIN



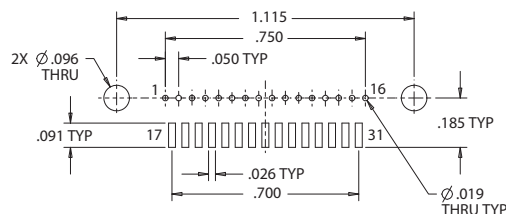
15 PIN



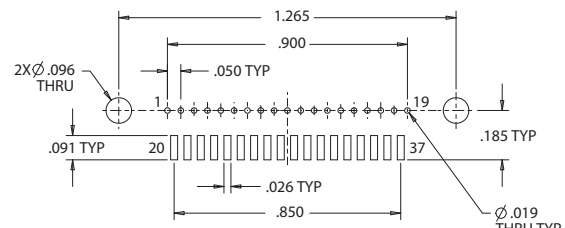
21 PIN



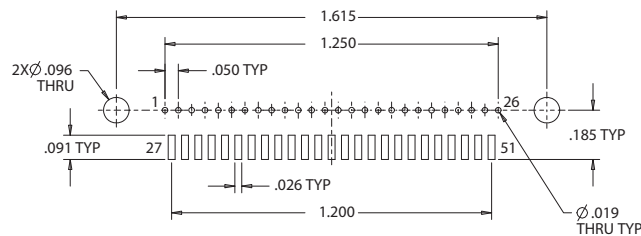
25 PIN



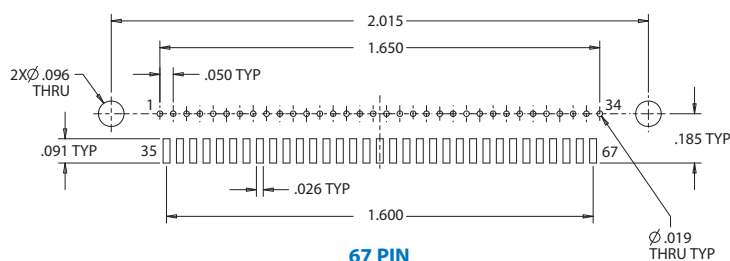
31 PIN



37 PIN



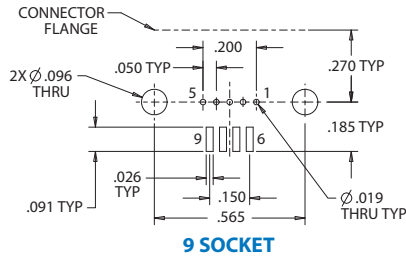
51-2 PIN



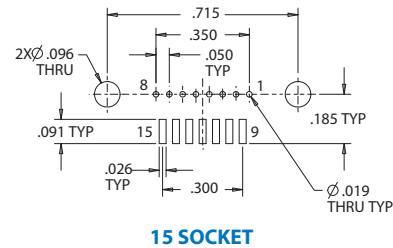
67 PIN

GHSM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket PCB connectors (jackscrew hardware)

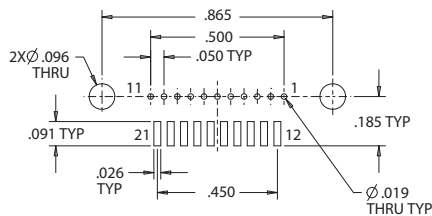
GHSM-HBR



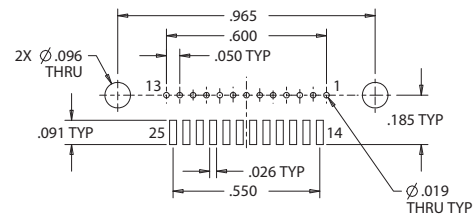
9 SOCKET



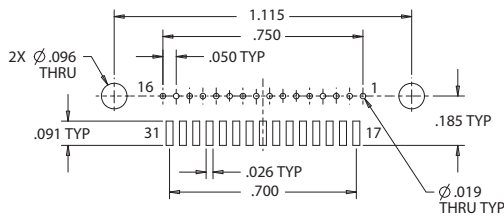
15 SOCKET



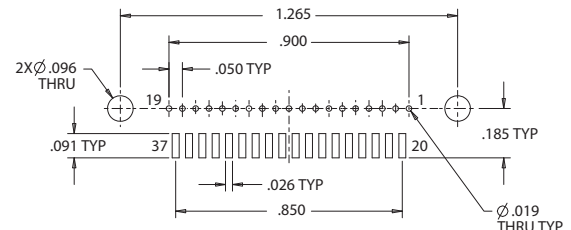
21 SOCKET



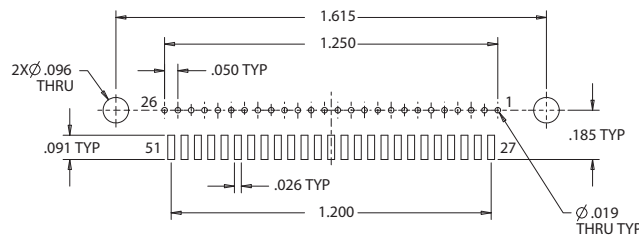
25 SOCKET



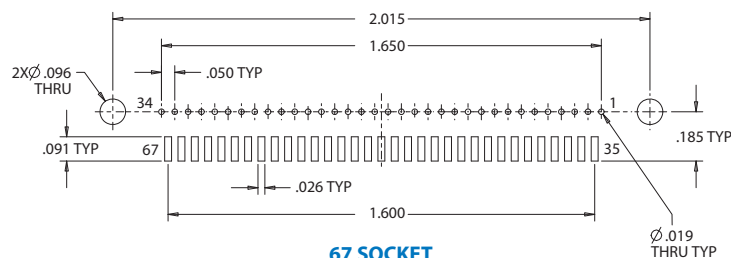
31 SOCKET



37 SOCKET



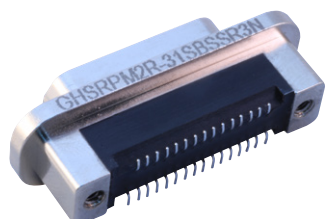
51-2 SOCKET



67 SOCKET

GHSRPM-BSS Straight surface-mount pin and socket rear panel-mount connectors (jackpost hardware)

GHSRPM-BSS



How To Order									
Sample Part Number	GHSRPM	2	R	-25	P	BSS	R3	N	-513
Series	GHSRPM = Glenair High-Speed Micro-D, Rear Panel Mount, Straight								
Shell Finish	2 = Nickel 5 = Gold								
Insulator Material	R = PPS								
Contact Layout	9, 15, 21, 25, 31, 37, 51-2, 67								
Contact Type	P = Pin (Plug) S = Socket (Receptacle)								
Termination Type	BSS = Board Straight Surface Mount								
Hardware Type (see table below)	Rear Panel Jackposts with Threaded Inserts* R1 = .031" Panel R2 = .047" Panel R3 = .062" Panel R4 = .094" Panel R5 = .125" Panel R6 = .080" Panel								
O-Ring	C = Conductive N = Non-Conductive (Nitrile)								
Gold-Plated Terminal Mod Code	Connectors are solder-dipped in 60/40 Tin-Lead solder To delete solder dip and change to gold-plated terminals, add Mod Code -513								

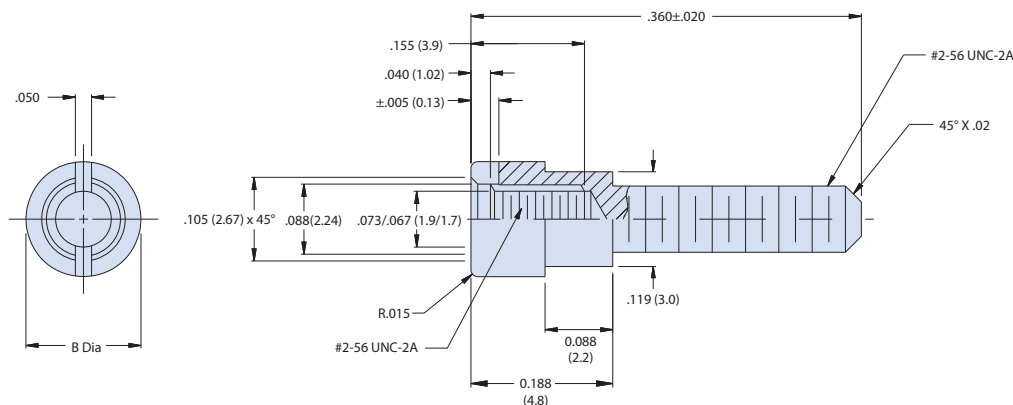
*Refer to Appendix A for recommended panel cutout.



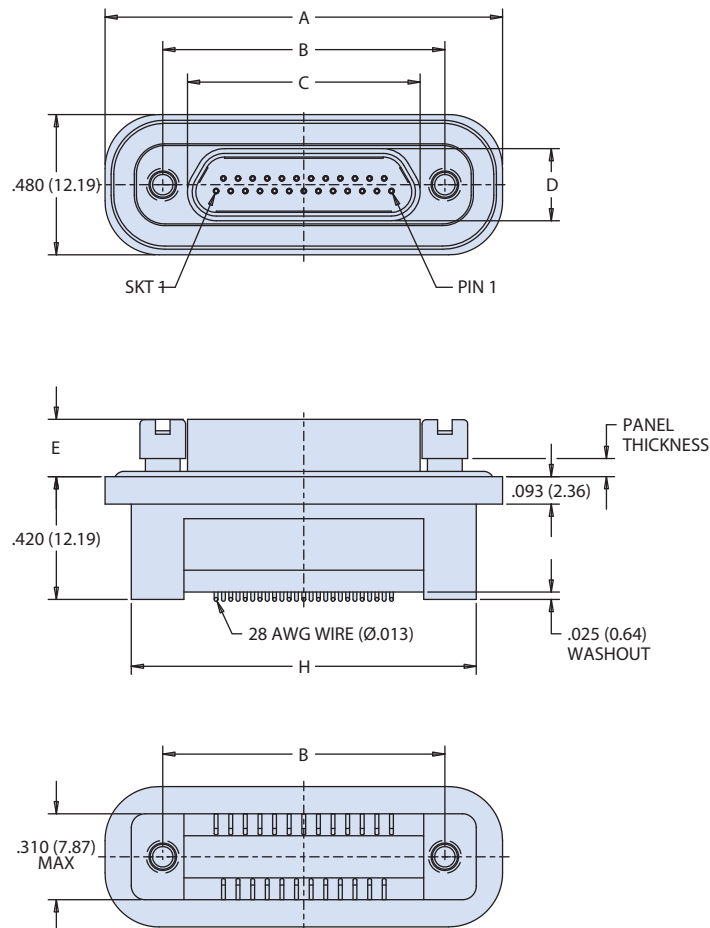
Rear Panel-Mount Mounting Hardware				
Code	Panel Thickness		J ± .003 (0.08)	K ± .005 (0.13)
	Fractional Value	Decimal Value		
R1	1/32	.031 (0.8)	.024 (0.6)	.050 (1.3)
R2	3/64	.047 (1.2)	.041 (1.0)	.050 (1.3)
R3	1/16	.062 (1.6)	.055 (1.4)	.050 (1.3)
R4	3/32	.094 (2.4)	.086 (2.2)	.050 (1.3)
R5	1/8	.125 (3.2)	.118 (3.0)	.030 (0.8)
R6	2/25	.080 (2.0)	.074 (1.9)	.050 (1.3)

HARDWARE MATERIAL

Corrosion-Resistant Steel IAW
ASTM-A484 and ASTM-A582



GHSRPM-BSS Straight surface-mount pin and socket rear panel-mount connectors (jackpost hardware)

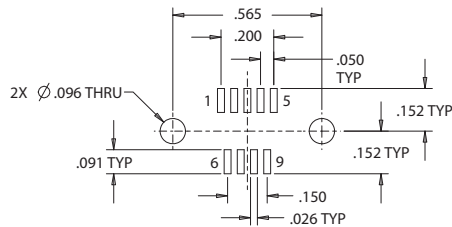


GHSRPM-BSS

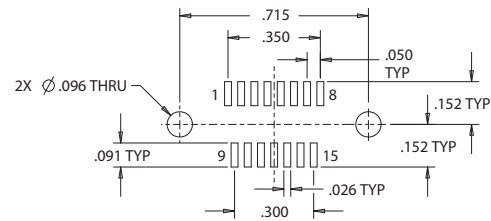
Dimensions						
LAYOUT	A	B±.003	C MAX	D MAX	E±.003	H MAX
9P	.960 (24.38)	.565 (14.35)	.333 (8.46)	.184 (4.67)	.183 (4.65)	.785 (19.94)
9S	.960 (24.38)	.565 (14.35)	.400 (10.16)	.250 (6.35)	.195 (4.95)	.785 (19.94)
15P	1.110 (28.19)	.715 (18.16)	.483 (12.27)	.184 (4.67)	.183 (4.65)	.935 (23.75)
15S	1.110 (28.19)	.715 (18.16)	.551 (14.00)	.250 (6.35)	.195 (4.95)	.935 (23.75)
21P	1.260 (32.00)	.865 (21.97)	.633 (16.08)	.184 (4.67)	.183 (4.65)	1.085 (27.56)
21S	1.260 (32.00)	.865 (21.97)	.701 (17.81)	.250 (6.35)	.195 (4.95)	1.085 (27.56)
25P	1.360 (34.54)	.965 (24.51)	.733 (18.62)	.184 (4.67)	.183 (4.65)	1.185 (30.10)
25S	1.360 (34.54)	.965 (24.51)	.801 (20.35)	.250 (6.35)	.195 (4.95)	1.185 (30.10)
31P	1.510 (38.35)	1.115 (28.32)	.883 (22.43)	.184 (4.67)	.183 (4.65)	1.335 (33.91)
31S	1.510 (38.35)	1.115 (28.32)	.951 (24.16)	.250 (6.35)	.195 (4.95)	1.335 (33.91)
37P	1.660 (42.16)	1.265 (32.13)	1.033 (26.24)	.184 (4.67)	.183 (4.65)	1.485 (37.72)
37S	1.660 (42.16)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.195 (4.95)	1.485 (37.72)
51-2P	2.010 (51.05)	1.615 (41.02)	1.384 (35.15)	.184 (4.67)	.183 (4.65)	1.835 (46.61)
51-2S	2.010 (51.05)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)	.195 (4.95)	1.835 (46.61)
67P	2.410 (61.21)	2.015 (51.18)	1.784 (45.31)	.184 (4.67)	.183 (4.65)	2.235 (56.77)
67S	2.410 (61.21)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.195 (4.95)	2.235 (56.77)

GHSRPM-BSS Straight surface-mount pin and socket rear panel-mount connectors (jackpost hardware)

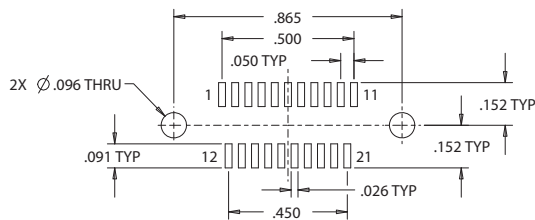
GHSRPM-BSS



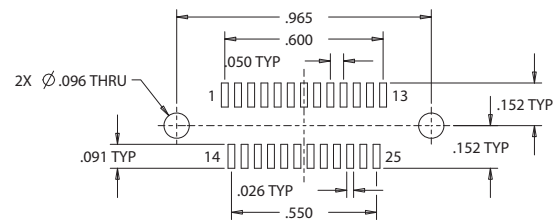
9 PIN



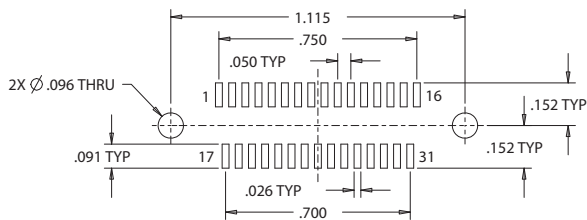
15 PIN



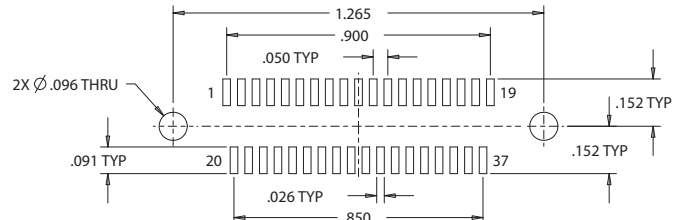
21 PIN



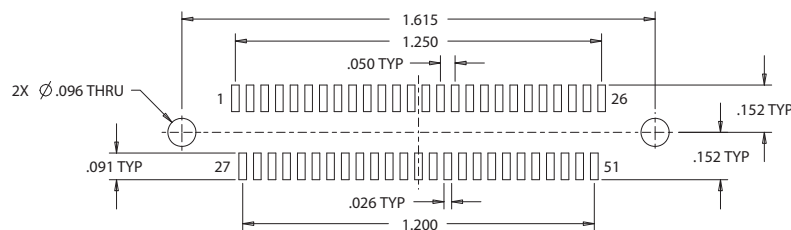
25 PIN



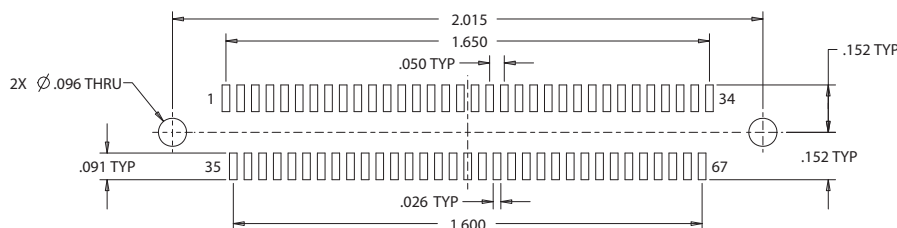
31 PIN



37 PIN



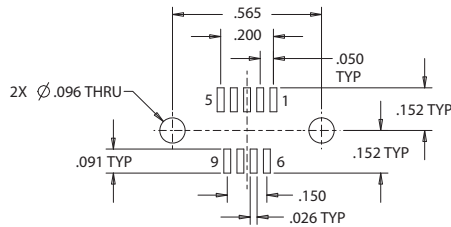
51-2 PIN



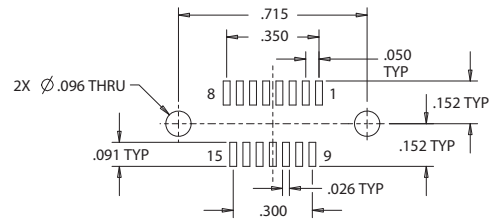
67 PIN

GHSRPM-BSS Straight surface-mount pin and socket rear panel-mount connectors (jackpost hardware)

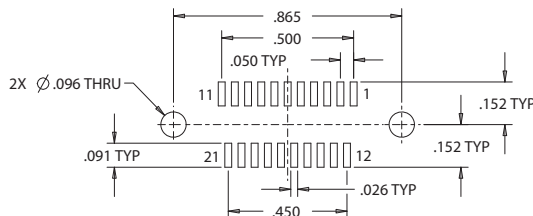
GHSRPM-BSS



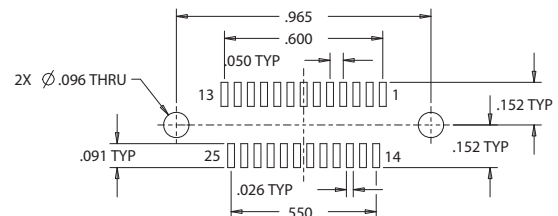
9 SOCKET



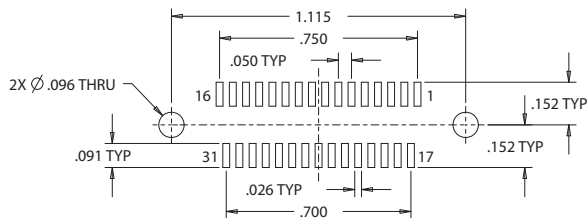
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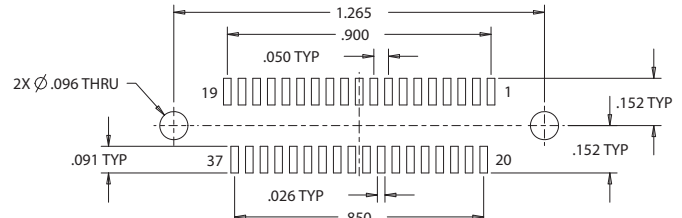
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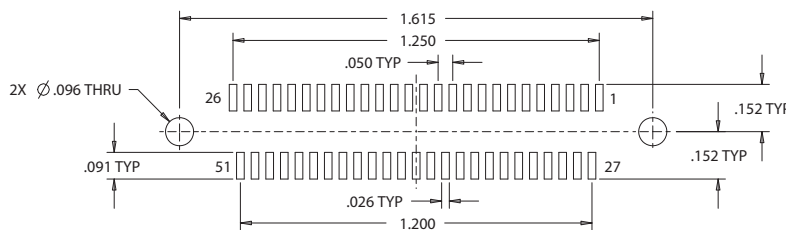
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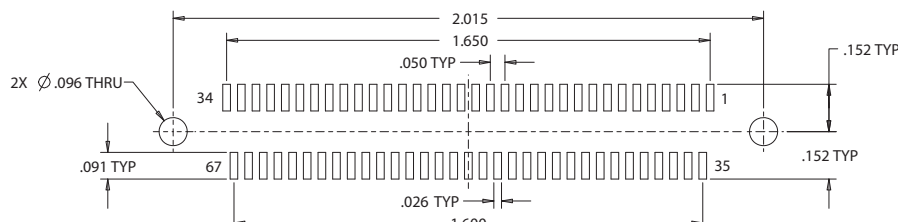
31 SOCKET



37 SOCKET



51-2 SOCKET



67 SOCKET

GHSRPM-HBR Hybrid right-angle (surface-mount / thru-hole)
pin and socket rear panel-mount connectors (jackpost hardware)

GHSRPM-HBR



How To Order											
Sample Part Number	GHSRPM	2	R	-25	P	HBR	R3	T	N	-110	-513
Series	GHSRPM = Glenair High-Speed Micro-D, Rear Panel Mount, Right Angle										
Shell Finish	2 = Nickel 5 = Gold										
Insulator Material	R = PPS										
Contact Layout	9, 15, 21, 25, 31, 37, 51-2, 67										
Contact Type	P = Pin (Plug) S = Socket (Receptacle)										
Termination Type	HBR = Hybrid Board Right Angle										
Hardware Type (see options below)	Rear Panel Jackposts*										
	R1 = .032" Panel										
	R2 = .047" Panel										
	R3 = .062" Panel										
	R4 = .093" Panel										
	R5 = .125" Panel										
	R6 = .080" Panel										
Threaded Insert Option	T = Threaded Insert in Board Mounting Hole Omit for Thru Hole										
O-Ring Material	C = Conductive N = Non-Conductive (Nitrile)										
Right Angle Lead Length	.080, .110, .140, .172 Length in inches ±.015										
Gold-Plated Terminal Mod Code	Connectors are solder-dipped in 60/40 Tin-Lead solder To delete solder dip and change to gold-plated terminals, add Mod Code -513										

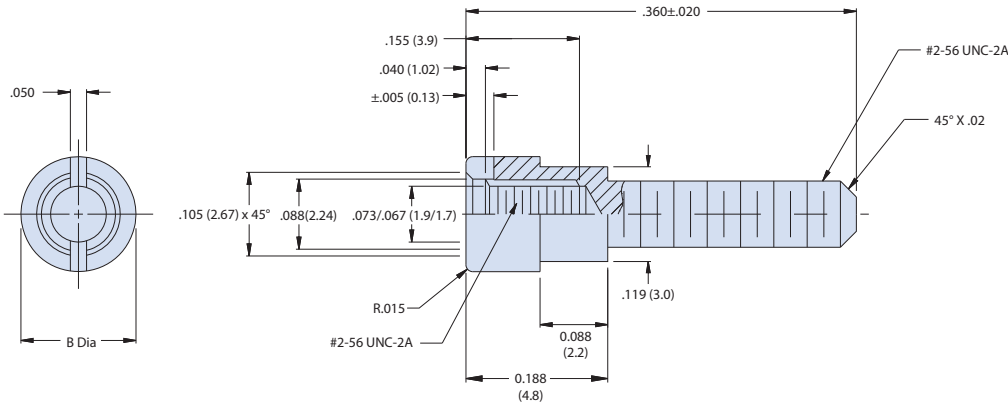
*Refer to Appendix A for recommended panel cutout.



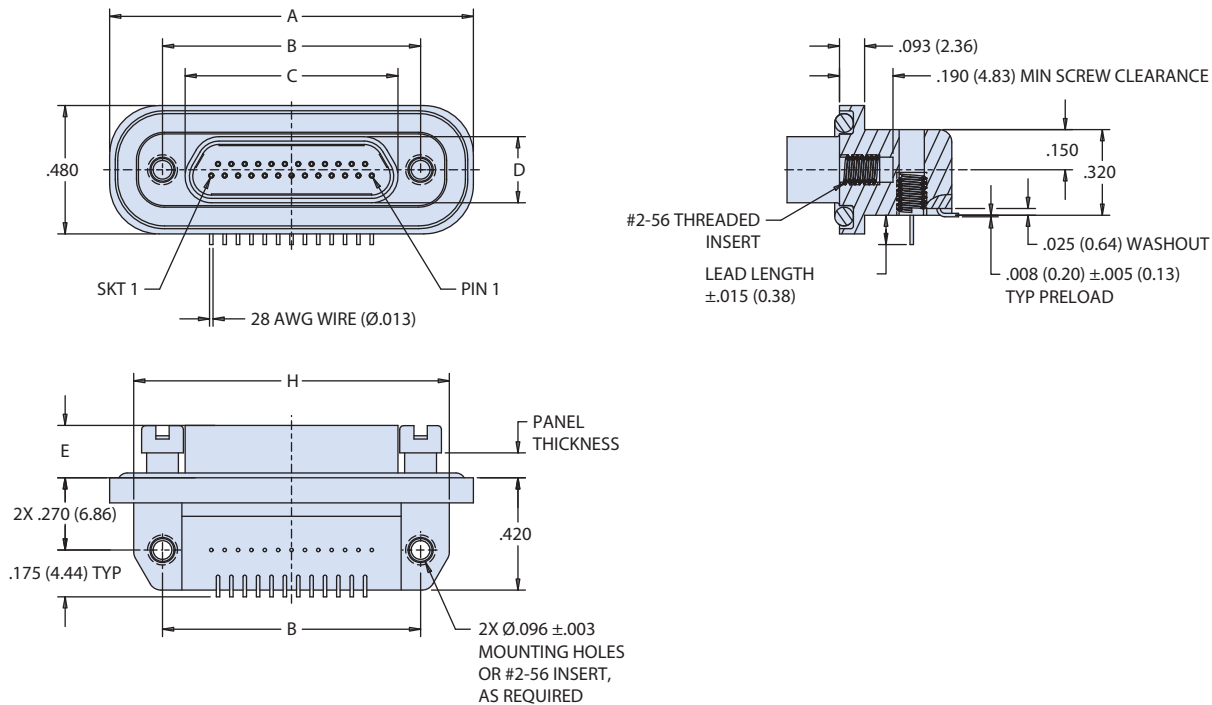
Rear Panel-Mount Mounting Hardware				
Code	Panel Thickness		J ± .003 (0.08)	K ± .005 (0.13)
	Fractional Value	Decimal Value		
R1	1/32	.031 (0.8)	.024 (0.6)	.050 (1.3)
R2	3/64	.047 (1.2)	.041 (1.0)	.050 (1.3)
R3	1/16	.062 (1.6)	.055 (1.4)	.050 (1.3)
R4	3/32	.094 (2.4)	.086 (2.2)	.050 (1.3)
R5	1/8	.125 (3.2)	.118 (3.0)	.030 (0.8)
R6	2/25	.080 (2.0)	.074 (1.9)	.050 (1.3)

HARDWARE MATERIAL

Corrosion-Resistant Steel IAW
ASTM-A484 and ASTM-A582



GHSRPM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket rear panel-mount connectors (jackpost hardware)

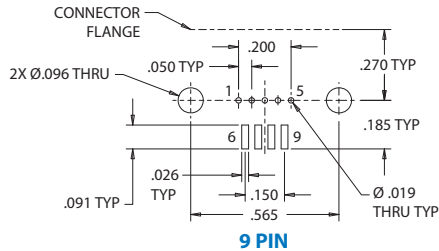


GHSRPM-HBR

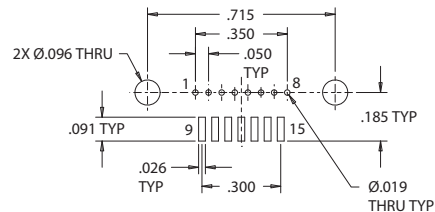
Dimensions						
LAYOUT	A	B±.003	C MAX	D MAX	E±.003	H MAX
9P	.960 (24.38)	.565 (14.35)	.333 (8.46)	.184 (4.67)	.183 (4.65)	.785 (19.94)
9S	.960 (24.38)	.565 (14.35)	.400 (10.16)	.250 (6.35)	.195 (4.95)	.785 (19.94)
15P	1.110 (28.19)	.715 (18.16)	.483 (12.27)	.184 (4.67)	.183 (4.65)	.935 (23.75)
15S	1.110 (28.19)	.715 (18.16)	.551 (14.00)	.250 (6.35)	.195 (4.95)	.935 (23.75)
21P	1.260 (32.00)	.865 (21.97)	.633 (16.08)	.184 (4.67)	.183 (4.65)	1.085 (27.56)
21S	1.260 (32.00)	.865 (21.97)	.701 (17.81)	.250 (6.35)	.195 (4.95)	1.085 (27.56)
25P	1.360 (34.54)	.965 (24.51)	.733 (18.62)	.184 (4.67)	.183 (4.65)	1.185 (30.10)
25S	1.360 (34.54)	.965 (24.51)	.801 (20.35)	.250 (6.35)	.195 (4.95)	1.185 (30.10)
31P	1.510 (38.35)	1.115 (28.32)	.883 (22.43)	.184 (4.67)	.183 (4.65)	1.335 (33.91)
31S	1.510 (38.35)	1.115 (28.32)	.951 (24.16)	.250 (6.35)	.195 (4.95)	1.335 (33.91)
37P	1.660 (42.16)	1.265 (32.13)	1.033 (26.24)	.184 (4.67)	.183 (4.65)	1.485 (37.72)
37S	1.660 (42.16)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.195 (4.95)	1.485 (37.72)
51-2P	2.010 (51.05)	1.615 (41.02)	1.384 (35.15)	.184 (4.67)	.183 (4.65)	1.835 (46.61)
51-2S	2.010 (51.05)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)	.195 (4.95)	1.835 (46.61)
67P	2.410 (61.21)	2.015 (51.18)	1.784 (45.31)	.184 (4.67)	.183 (4.65)	2.235 (56.77)
67S	2.410 (61.21)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.195 (4.95)	2.235 (56.77)

GHSRPM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket rear panel-mount connectors (jackpost hardware)

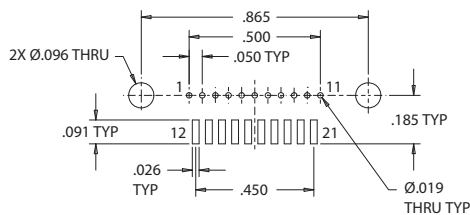
GHSRPM-HBR



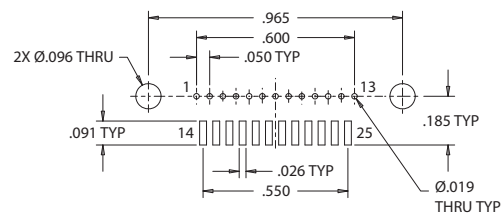
9 PIN



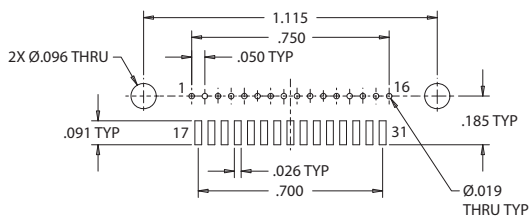
15 PIN



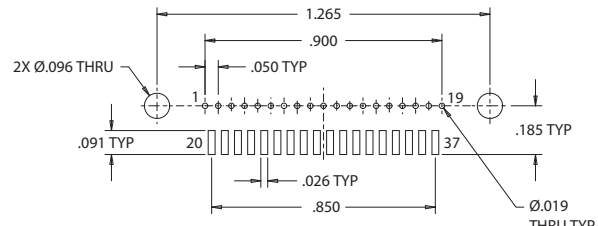
21 PIN



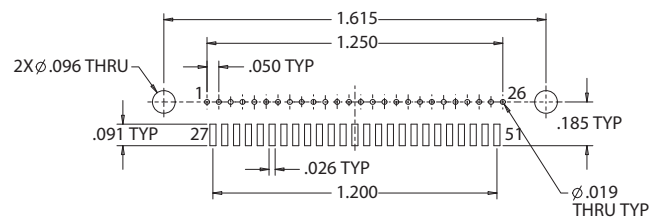
25 PIN



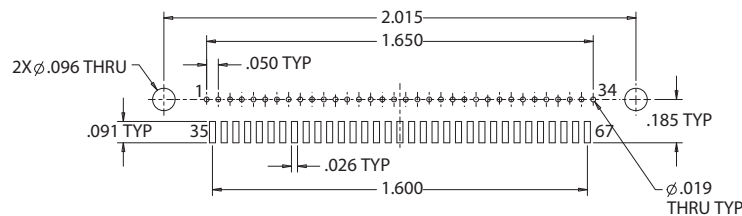
31 PIN



37 PIN



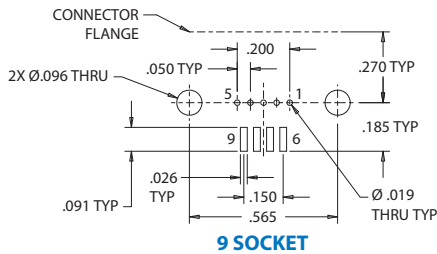
51-2 PIN



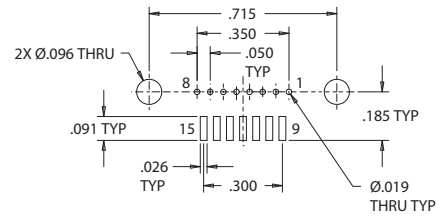
67 PIN

GHSRPM-HBR Hybrid right-angle (surface-mount / thru-hole) pin and socket rear panel-mount connectors (jackpost hardware)

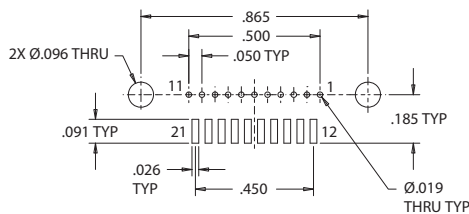
GHSRPM-HBR



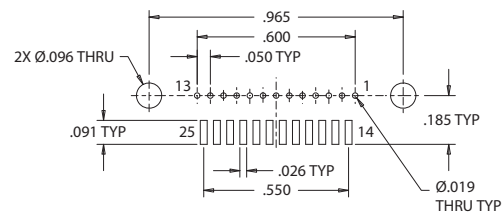
9 SOCKET



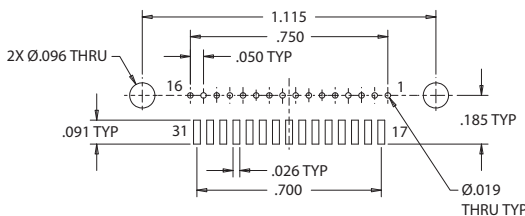
15 SOCKET



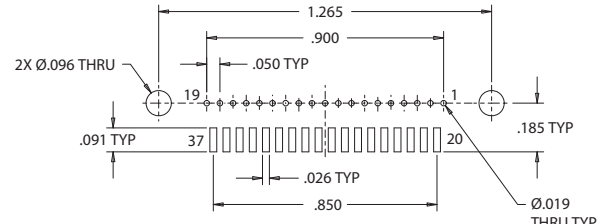
21 SOCKET



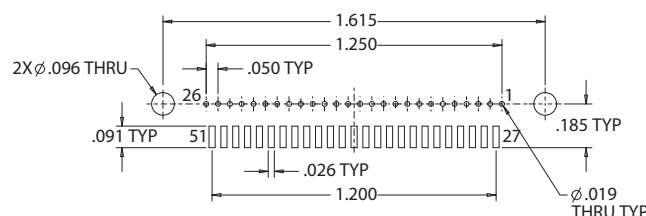
25 SOCKET



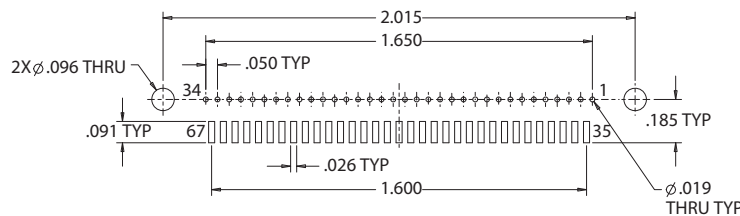
31 SOCKET



37 SOCKET



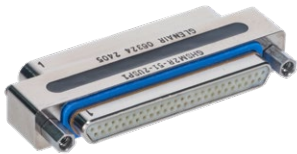
51-2 SOCKET



67 SOCKET

GHSM-USP1 Sav-Con® Connector Saver
2-row, 9 thru 67 position

GHSM-USP1 SAV-CON®

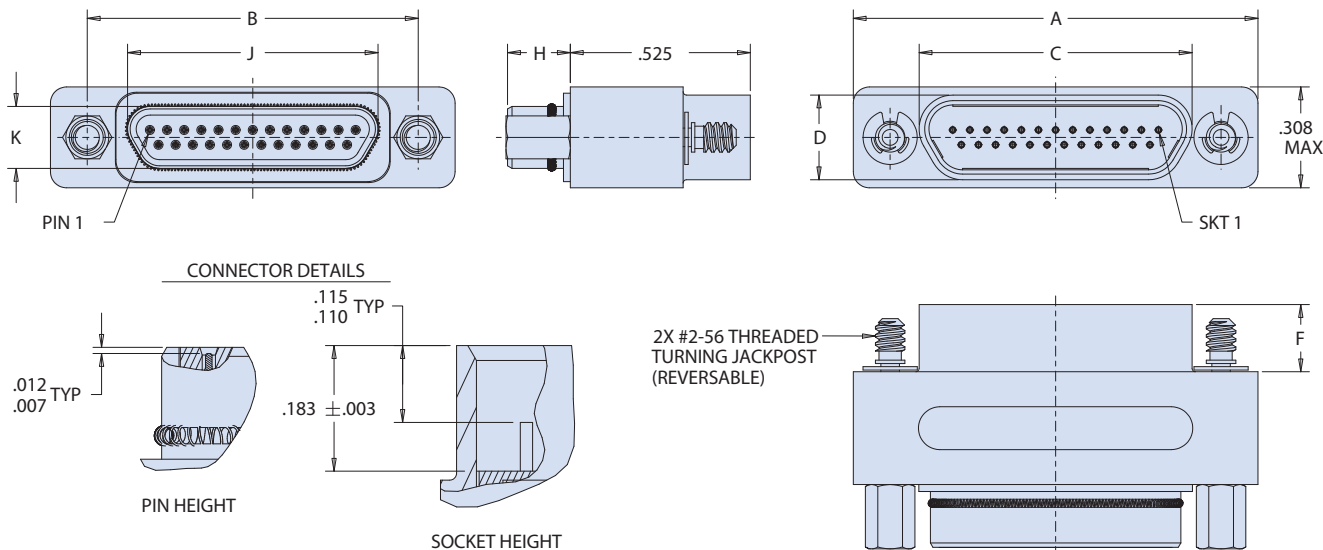


GHSM-USP1 Sav-Con®
for High-speed Micro-D

PROTECT SENSITIVE EQUIPMENT WITH THE GHSM-USP1 SAV-CON®
CONNECTOR SAVER

Prevent contact damage and extend the service life of cable assemblies. Protect High-Speed Micro-D connectors that are mated and unmated frequently during manufacturing, test, check-out phases, and environmental test programs. Sav-Con®s prevent costly repair or replacement by absorbing connect and disconnect abuse.

How-To-Order / Dimensions



Part Number	A Max	B	C Max	D Max	F±.003	H±.003	J Max	K Max
GHSM2R-9USP1	.785 (19.94)	.565 (14.35)	.400 (10.16)	.250 (6.35)	.195 (4.95)	.183 (4.65)	.33 (8.38)	.184 (4.67)
GHSM2R-15USP1	.935 (23.75)	.715 (18.16)	.551 (14.00)				.483 (12.27)	
GHSM2R-21USP1	1.085 (27.56)	.865 (21.97)	.701 (17.81)				.633 (16.08)	
GHSM2R-25USP1	1.185 (30.10)	.965 (24.51)	.801 (20.35)				.733 (18.62)	
GHSM2R-31USP1	1.335 (33.91)	1.115 (28.32)	.951 (24.16)				.833 (21.16)	
GHSM2R-37USP1	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)				1.033 (26.24)	
GHSM2R-51-2USP1	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)				1.384 (35.15)	
GHSM2R-67USP1	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)				1.784 (45.31)	

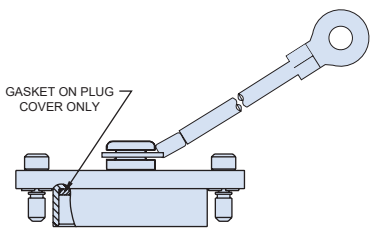
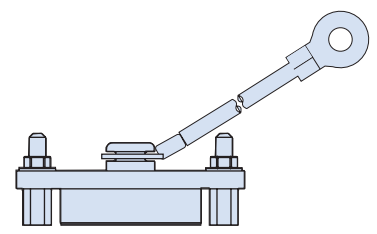
500-148 Dust Covers for High-Speed Micro-D connectors



Dust Cover for High-Speed
Micro-D connector

How To Order									
Sample Part Number	500-148	M	25	P	B	T	N	-110	-513
Series	500-148 = Dust Covers for Glenair High-Speed Micro-D Plug or Receptacle								
Shell Finish	M = Electroless Nickel Z2 = Gold Plate								
Shell Size	9, 15, 21, 25, 31, 37, 51-2, 67								
Style	P = Dust Cover for Plug R = Dust Cover for Receptacle								
Hardware Type	B - No Hardware (Ø.093) M - Hexhead Jackscrew S - Slotted Jackscrew P - Female Jackpost M1 - Extended Hexhead Jackscrew S1 - Extended Slotted Jackscrew L - Hexhead Non-Removable Jackscrew K - Extended Non-Removable Jackscrew								
Attachement Type	F - Wire Rope, Nylon Jacket H - Wire Rope, Fluoropolymer Jacket N - No Lanyard Attachment NB - No Lanyard Or Attachment Boss R - Wire Rope, PVC Jacket T - Wire Rope, No Jacket G - Flexible Nylon Rope								
Attachment Length	Length in One Inch Increments; Example: "6" equals six inches.								
Attachment Diameter (I.D. of Ring Terminal)	01 - .140 (3.6) 04 - .197 (5.0)	02 - 0.182 05 - .167 (4.2)	03 - 0.191 06 - .125 (3.2)						

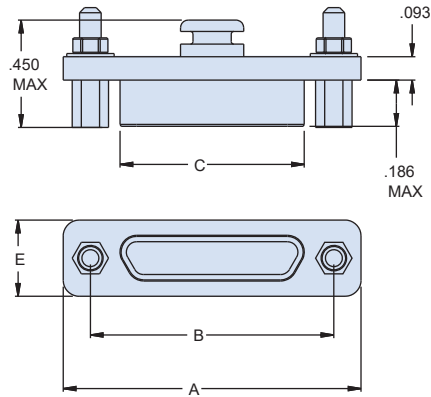
500-148 DUST COVERS

Protective Cover Styles	
Style P	Style R
 GASKET ON PLUG COVER ONLY	
Use With Micro-D Plugs	Use With Micro-D Receptacles

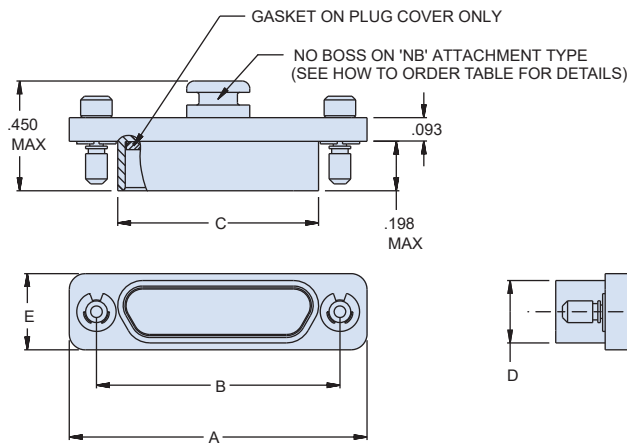
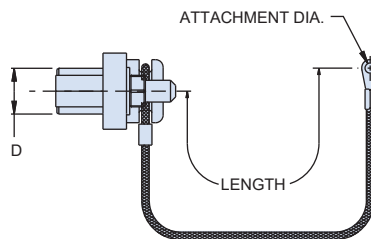
500-148 Dust Cover for High-Speed Micro-D connectors

500-148 DUST COVERS

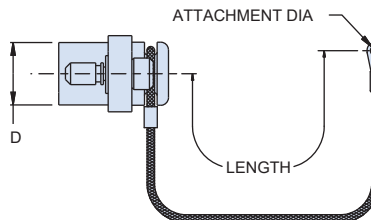
Table II: Dimensions



Style R
Dust Cover For Receptacle



Style P
Dust Cover For Plug



Layout	A Max	B ±.003	C Max	D Max	E Max
9R	.785 (19.94)	.565 (14.35)	.333 (8.46)	.184 (4.67)	.308 (7.82)
9P	.785 (19.94)	.565 (14.35)	.400 (10.16)	.250 (6.35)	.308 (7.82)
15R	.935 (23.75)	.715 (18.16)	.483 (12.27)	.184 (4.67)	.308 (7.82)
15P	.935 (23.75)	.715 (18.16)	.551 (14.00)	.250 (6.35)	.308 (7.82)
21R	1.085 (27.56)	.865 (21.97)	.633 (16.08)	.184 (4.67)	.308 (7.82)
21P	1.085 (27.56)	.865 (21.97)	.701 (17.81)	.250 (6.35)	.308 (7.82)
25R	1.185 (30.10)	.965 (24.51)	.733 (18.62)	.184 (4.67)	.308 (7.82)
25P	1.185 (30.10)	.965 (24.51)	.801 (20.35)	.250 (6.35)	.308 (7.82)
31R	1.335 (33.91)	1.115 (28.32)	.883 (22.43)	.184 (4.67)	.308 (7.82)
31P	1.335 (33.91)	1.115 (28.32)	.951 (24.16)	.250 (6.35)	.308 (7.82)
37R	1.485 (37.72)	1.265 (32.13)	1.033 (26.24)	.184 (4.67)	.308 (7.82)
37P	1.485 (37.72)	1.265 (32.13)	1.101 (27.97)	.250 (6.35)	.308 (7.82)
51R	1.435 (36.45)	1.215 (30.86)	.983 (24.97)	.228 (5.79)	.351 (8.92)
51P	1.435 (36.45)	1.215 (30.86)	1.051 (26.70)	.296 (7.52)	.351 (8.92)
51-2R	1.835 (46.61)	1.615 (41.02)	1.384 (35.15)	.184 (4.67)	.308 (7.82)
51-2P	1.835 (46.61)	1.615 (41.02)	1.450 (36.83)	.250 (6.35)	.308 (7.82)
67R	2.235 (56.77)	2.015 (51.18)	1.784 (45.31)	.184 (4.67)	.310 (7.87)
67P	2.235 (56.77)	2.015 (51.18)	1.850 (46.99)	.250 (6.35)	.310 (7.87)
69R	1.735 (44.07)	1.515 (38.48)	1.284 (32.61)	.228 (5.79)	.351 (8.92)
69P	1.735 (44.07)	1.515 (38.48)	1.350 (34.29)	.296 (7.52)	.351 (8.92)

179-045 Jackpost Kit 179-276 Replacement O-Ring for GHSRPM Connectors

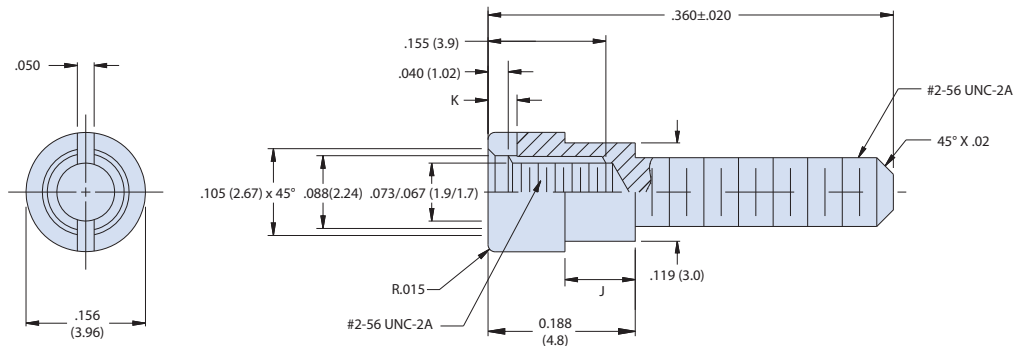


How To Order					
Connector Hardware Option	Part Number	Panel Thickness		J ± .003 (0.08)	K ± .005 (0.13)
		Fractional	Decimal		
R1	179-045-2-2	1/32	.031 (0.8)	.024 (0.6)	.050 (1.3)
R2	179-045-2-3	3/64	.047 (1.2)	.041 (1.0)	.050 (1.3)
R3	179-045-2-4	1/16	.062 (1.6)	.055 (1.4)	.050 (1.3)
R4	179-045-2-5	3/32	.094 (2.4)	.086 (2.2)	.050 (1.3)
R5	179-045-2-6	1/8	.125 (3.2)	.118 (3.0)	.030 (0.8)
R6	179-045-2-7	2/25	.080 (2.0)	.074 (1.9)	.050 (1.3)

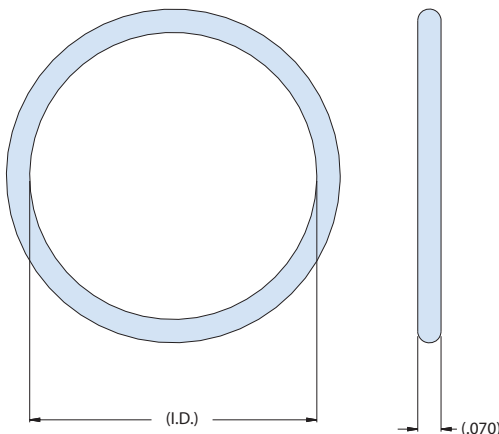
Kit consists of 2 Jackposts

HARDWARE MATERIAL

Corrosion-Resistant Steel IAW
ASTM-A484 and ASTM-A582



179-276 O-RING FOR SEALING OF PANEL MOUNT GHSRPM CONNECTORS

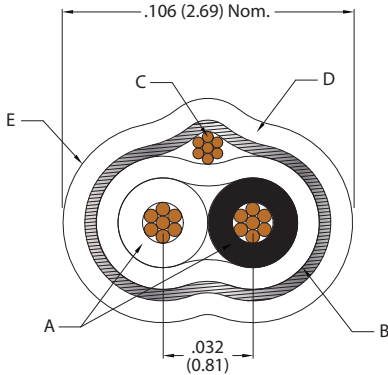


How To Order			
Sample Part Number	179-276	-15	-N
Series	179-276 = Replacement O-Ring for Panel Sealing of GHSRPM Connectors		
Shell Size	Table I		
Material	N - Non-Conductive (Nitrile) C - Conductive (Chomerics 1215) F - Fluorosilicone		

Table I	
Shell Size	I.D. Ref.
9	0.551 (14.00)
15	0.676 (17.17)
21	0.739 (18.77)
25	0.864 (21.95)
31	0.926 (23.52)
37	1.051 (26.70)
51-2	1.239 (31.47)
67	1.489 (37.82)

100 Ohm Differential Twisted Pair Cable with Drain, #28 AWG
963-057-28

100 OHM DIFFERENTIAL TWISTED PAIR CABLE



Cable Construction		
A.	Primary Conductor	28 AWG 7/36 SCA
	Primary Insulation	FEP (Color: White, Black)
B.	Insulation	ePTFE Tape
C.	Drain Wire	30 AWG 7/38 SCA
D.	Shield	Aluminized Kapton Tape (Foil-Side In), 100% Coverage
E.	Jacket	FEP, White
Bend Radius: 0.6" min.		
Weight: 2.2 g/ft., nom.		

Electrical Performance	
Dielectric Withstanding Voltage (VRMS)	600V AC
Differential Impedance	100 ± 6 Ohm
Insertion Loss	See Table 1
Skew	4 ps / Ft., nom.

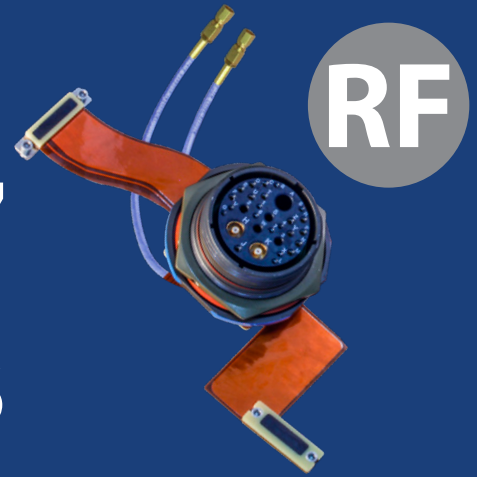
Environmental Properties	
Temperature Range	-65°C to 200°C

Attenuation		
Frequency (GHz)	dB / ft Typical	dB / ft Maximum
1.0	0.3	0.4
2.5	0.6	0.7
5	0.8	1.0
7.5	1.1	1.3
10	1.3	1.5

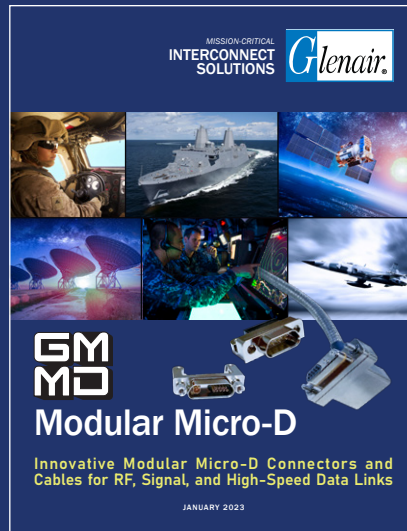
FLIGHT-GRADE

RF, MICROWAVE, AND mmWAVE INTERCONNECTS

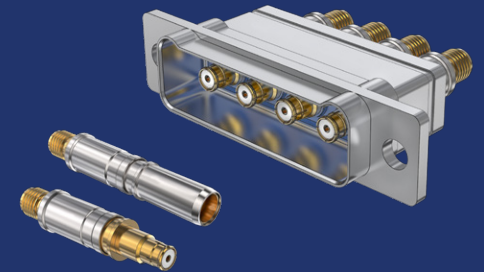
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Micro miniature RF interconnects for board applications



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Glenair multipin aerospace-grade connectors are optimized for use with 26.5 GHz G-Link RF contacts with integral female SMA adapter for easy attachment of SMA adapter and cable directly to the contact.

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with performance
IAW D38999



SERIES
795
RF

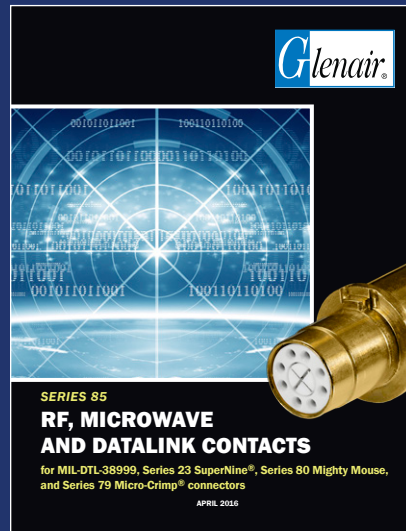
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SUPERSEAL™ IP67 OPEN-FACE RUGGEDIZED FIELD RJ45 SOLUTIONS



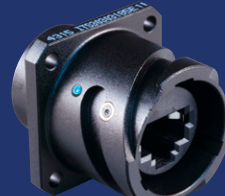
MIL-DTL-38999 Sr. III type
SuperSeal™ RJ45



Series 80 Mighty Mouse
SuperSeal™ RJ45



Series IPT 26482 type
SuperSeal™ RJ45



Series ITS 5015 type
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MIL-DTL-28840 type
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SUPERSEAL™ IP67 OPEN-FACE RUGGEDIZED FIELD USB 2.0 AND 3.0 SOLUTIONS



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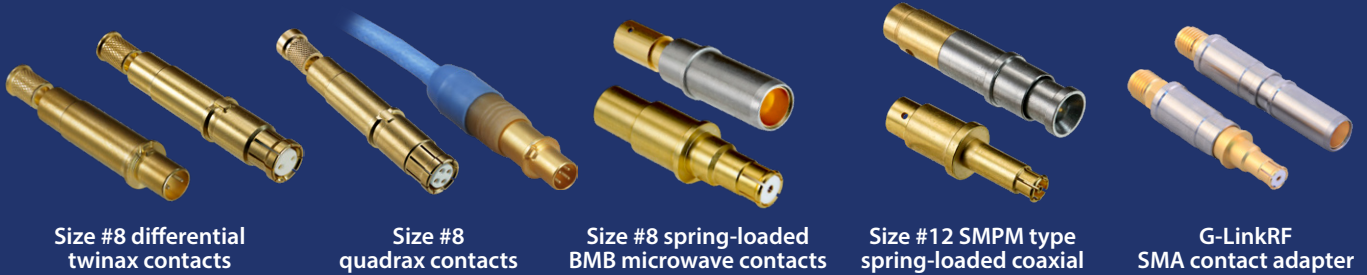


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SuperSeal™ USB



MIL-DTL-28840 type
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RF / HIGH-SPEED DATALINK CONTACTS

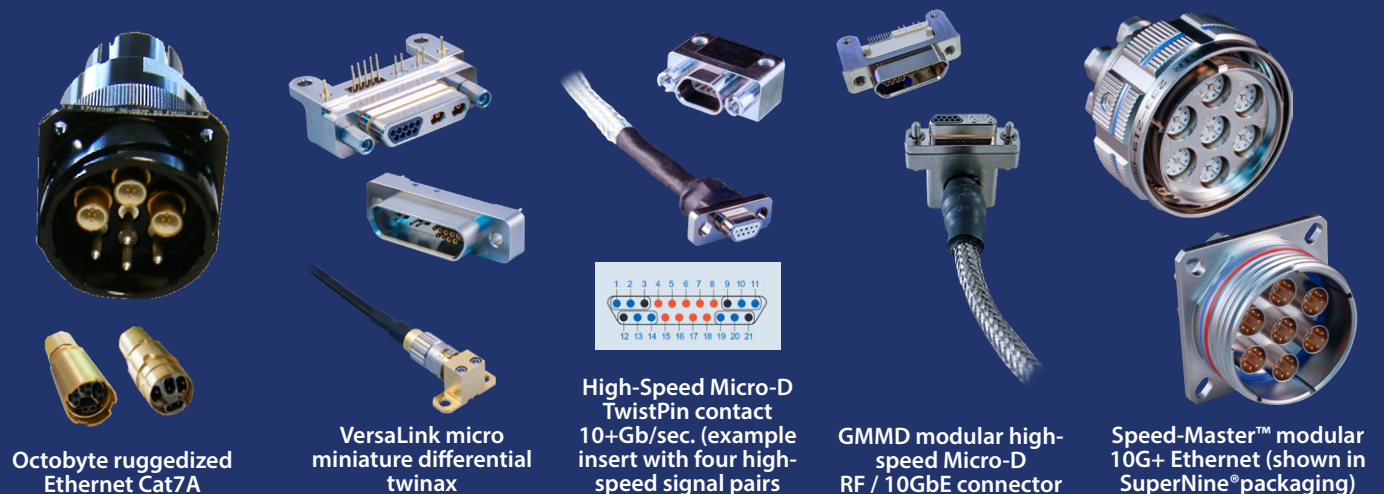


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