

## General Description

Delta type N connectors are medium size, 50  $\Omega$  impedance connectors with  $\frac{5}{8}$ "-24 threaded coupling. They are best suited for use with cables in the range of .350" to .450" diameter, but are available for other cables with diameters from .100" to over 1". Many of our N connectors are available as MIL-PRF-39012 QPL versions, and adapters as MIL-PRF-55339 versions. These types are listed starting on page 190. Our extensive line of type N receptacles includes configurations for virtually any packaging requirement, and we can supply any adapter or accessory you need to complete your system design. Adapters between type N and other series are shown starting on page 176.

As with our other connector series, Delta's customer-driven design results in N series connectors with practical and unique features that make your design and assembly process easier. Some of these include:

- Heli-Grip cable connectors for fast, reliable assembly to flexible cable without special tooling.
- One-Step cable connectors for quick, accurate assembly to semi-rigid cable.
- PressMount receptacles (page 85) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- Panel receptacles with flange sizes to match the same hole pattern as standard SMA or BNC/TNC connectors, letting you drill one hole pattern and mount BNC, N, SMA, TNC, or 7/16 series connectors as needed.
- 70  $\Omega$  impedance N connectors (see page 89) for matched-impedance applications.

Our N series product line is still growing, so please call if you don't see what you need.

## N Configurations

|                                              |    |                                          |    |
|----------------------------------------------|----|------------------------------------------|----|
| Straight Cable Plugs .....                   | 2  | Dummy Receptacles .....                  | 16 |
| Right Angle Cable Plugs .....                | 5  | Right Angle Panel Jack Receptacles ..... | 16 |
| Tee Cable Plugs .....                        | 6  | Panel Plug Receptacles.....              | 17 |
| Straight Cable Jacks .....                   | 6  | Bulkhead Jack Receptacles .....          | 18 |
| Bulkhead Cable Jacks .....                   | 8  | Stripline Receptacles .....              | 18 |
| Tee Bulkhead Cable Jacks .....               | 9  | PressMount Receptacles.....              | 19 |
| Panel Cable Jacks .....                      | 11 | Resistive Terminations.....              | 20 |
| Panel Jack Receptacles (square flange) ..... | 12 | Dust Caps .....                          | 20 |
| Panel Jack Receptacles (round flange) .....  | 12 | In-Series Adapters .....                 | 21 |

## N Specifications\*

### Electrical:

Nominal Impedance: 50 ohms.

Frequency Range: DC–11 GHz.

Voltage Rating: 1,000 volts RMS.

Dielectric Withstanding Voltage: 2,500 volts RMS.

Insulation Resistance: 5,000 megohms.

### Materials/Finishes:

Insulators: Teflon per ASTM D1710.

Male Contacts: Brass per ASTM B16.

Female Contacts: Beryllium Copper per ASTM B196.

Contact Plating: Silver per ASTM B700, or

Gold per MIL-DTL-45204.

Gaskets: Silicone rubber per ZZ-R-765, Class II, Grade 50.

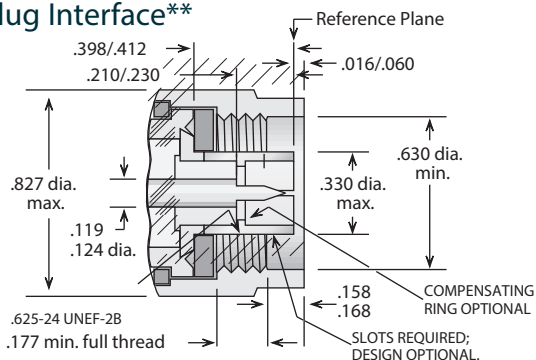
Other Metal Parts: Brass per ASTM B16, plated:

Silver per ASTM B700, or

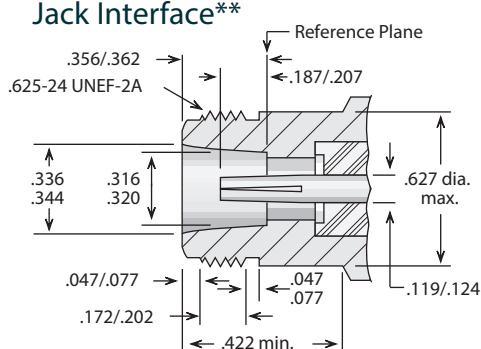
Nickel per AMS-QQ-N-290.

All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

### Plug Interface\*\*



### Jack Interface\*\*



\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

## Straight Plug - Military Clamp For Flexible Cable

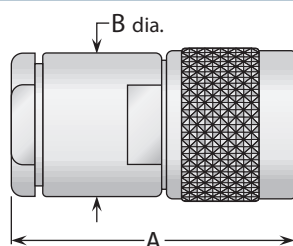


Figure 1

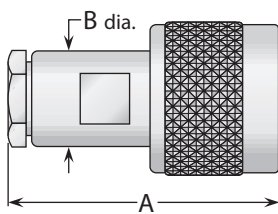


Figure 2

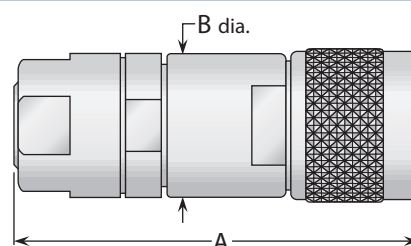
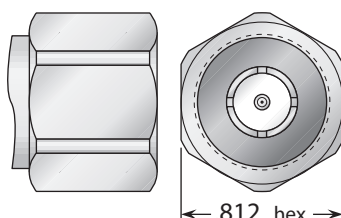


Figure 3  
(Includes armor clamp)

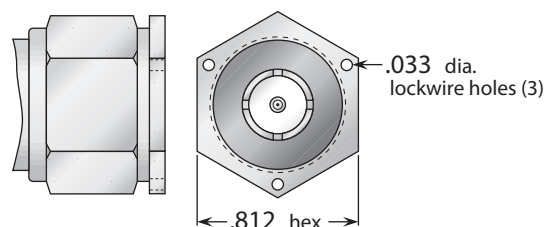
| Cable Group | Figure | Dimensions |      | Plating |            | Delta P/N        | Assembly Procedure/<br>Trim Code |
|-------------|--------|------------|------|---------|------------|------------------|----------------------------------|
|             |        | A          | B    | Body    | Contact    |                  |                                  |
| 1           | 1      | 1.50       | .750 | Nickel  | Silver     | UG-18E/U         | A/01                             |
| 1           | 1      | 1.50       | .750 | Nickel  | Silver (C) | 1101001N001-000  | A/01                             |
| 2, 3        | 1      | 1.80       | .680 | Nickel  | Silver     | UG-21B/U         | C/01                             |
| 2, 3        | 1      | 1.50       | .750 | Nickel  | Gold       | UG-21D/U         | A/01                             |
| 2, 3        | 1      | 1.50       | .750 | Nickel  | Gold       | UG-21E/U         | A/01                             |
| 2, 3        | 1      | 1.50       | .750 | Nickel  | Gold       | UG-21G/U         | A/01                             |
| 2, 3        | 1      | 1.50       | .750 | Nickel  | Silver (C) | UG-1185/U        | A/01                             |
| 2, 3        | 1      | 1.50       | .750 | Nickel  | Gold (C)   | UG-1185A/U       | A/01                             |
| 2, 3        | 1      | 1.50       | .750 | Silver  | Gold (C)   | M39012/01-0005 * | A/01                             |
| 5, 6        | 2      | 1.41       | .500 | Nickel  | Silver     | UG-536B/U        | A/02                             |
| 5, 6        | 2      | 1.41       | .500 | Nickel  | Gold       | UG-536C/U        | A/02                             |
| 5, 6        | 2      | 1.41       | .500 | Nickel  | Gold (C)   | 1101015N001-000  | A/02                             |
| 7           | 2      | 1.38       | .500 | Nickel  | Silver     | UG-603A/U        | A/02                             |
| 7           | 2      | 1.38       | .500 | Nickel  | Silver (C) | 1101021N001-000  | A/02                             |
| 8           | 2      | 1.41       | .500 | Nickel  | Silver (C) | 1101043N001-000  | A/02                             |
| 9           | 2      | 1.38       | .500 | Nickel  | Silver     | 1101036N000-000  | A/02                             |
| 9           | 2      | 1.38       | .500 | Nickel  | Silver (C) | 1101036N001-000  | A/02                             |
| 15          | 3      | 2.42       | .750 | Nickel  | Silver     | UG-941B/U        | D/01                             |
| 15          | 3      | 2.42       | .750 | Silver  | Gold (C)   | M39012/01-0125 * | D/03                             |
| 16          | 1      | 1.80       | .880 | Nickel  | Silver     | UG-204A/U        | C/02                             |
| 16          | 1      | 1.80       | .880 | Silver  | Gold (C)   | M39012/01-0015 * | A/01                             |
| 20          | 3      | 3.09       | 1.31 | Nickel  | Silver     | UG-557A/U        | D/02                             |
| 25          | 2      | 1.38       | .500 | Nickel  | Silver     | 1101132N000-000  | A/03                             |

\* Lockwire holes in coupling nut.

## Optional Type N Coupling Nut Examples



13/16" hex coupling nut



13/16" hex coupling nut with lockwire holes

These designs allow the connectors to be tightened with a wrench for precise torquing of mated parts, and can be supplied on any Delta type N plug. Please call for details of these options or any other special requirements you may have.

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

## Straight Plug - Crimp Type For Flexible Cable

Figure 1

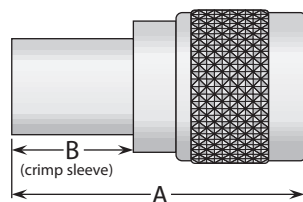
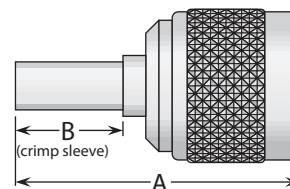


Figure 2



| Cable Group | Figure | Dimensions |      | Plating |          | Delta P/N        | Assembly Procedure/<br>Trim Code |
|-------------|--------|------------|------|---------|----------|------------------|----------------------------------|
|             |        | A          | B    | Body    | Contact  |                  |                                  |
| 2           | 1      | 1.51       | .630 | Nickel  | Silver   | 1103002N000-000  | B/01                             |
| 2           | 1      | 1.55       | .630 | Nickel  | Gold (C) | 1103002N001-009  | B/03                             |
| 2           | 1      | 1.55       | .600 | Silver  | Gold (C) | M39012/01B0007 * | B/03                             |
| 2           | 1      | 1.55       | .600 | Silver  | Gold (C) | M39012/01-0502 * | B/03                             |
| 2B          | 1      | 1.55       | .630 | Nickel  | Silver   | 1103070N000-000  | B/01                             |
| 3A, 4       | 1      | 1.55       | .630 | Nickel  | Gold (C) | 1103004N001-001  | B/03                             |
| 3A, 4       | 1      | 1.51       | .630 | Nickel  | Silver   | 1103005N000-000  | B/01                             |
| 3A, 3C, 4   | 1      | 1.55       | .600 | Silver  | Gold (C) | M39012/01B0008 * | B/03                             |
| 3A, 3C, 4   | 1      | 1.55       | .600 | Silver  | Gold (C) | M39012/01-0501 * | B/03                             |
| 4           | 1      | 1.50       | .630 | Nickel  | Silver   | 1103079N000-000  | B/01                             |
| 5           | 2      | 1.43       | .500 | Nickel  | Silver   | 1103017N000-000  | B/04                             |
| 5           | 1      | 1.48       | .500 | Nickel  | Gold (C) | 1103017N001-000  | B/05                             |
| 6           | 2      | 1.43       | .500 | Nickel  | Silver   | 1103013N000-000  | B/04                             |
| 6           | 1      | 1.45       | .500 | Nickel  | Gold (C) | 1103018N001-000  | B/03                             |
| 6           | 1      | 1.45       | .500 | Silver  | Gold (C) | M39012/01-0503 * | B/03                             |
| 7           | 2      | 1.43       | .500 | Nickel  | Silver   | 1103020N000-000  | B/06                             |
| 7           | 1      | 1.38       | .500 | Nickel  | Gold (C) | 1103020N001-000  | B/03                             |

\* Lockwire holes in coupling nut.

## Straight Plug - Heli-Grip® For Flexible Cable

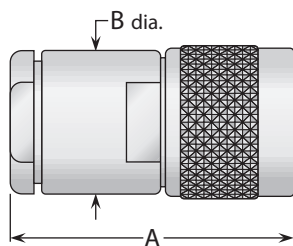


Figure 1

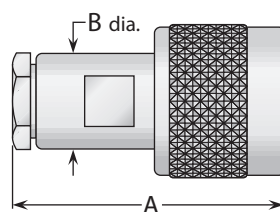
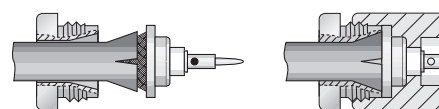


Figure 2

### Heli-Grip® Cable Attachment

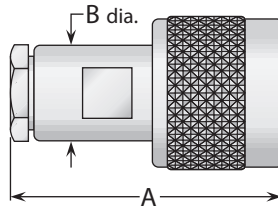


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

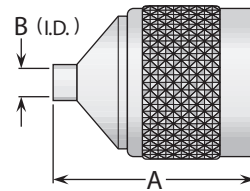
| Cable Group       | Figure | Dimensions |      | Plating |          | Delta P/N       | Assembly Procedure/<br>Trim Code |
|-------------------|--------|------------|------|---------|----------|-----------------|----------------------------------|
|                   |        | A          | B    | Body    | Contact  |                 |                                  |
| 2                 | 1      | 1.50       | .750 | Nickel  | Gold (C) | 1101004N005-000 | E/01                             |
| 3                 | 1      | 1.50       | .750 | Nickel  | Gold (C) | 1101004N005-006 | E/01                             |
| 5, 6 <sup>s</sup> | 2      | 1.41       | .500 | Nickel  | Gold (C) | 1101015N005-000 | E/02                             |
| RG-223            | 2      | 1.41       | .500 | Nickel  | Gold (C) | 1101015N005-001 | E/02                             |
| 7                 | 2      | 1.38       | .500 | Nickel  | Gold (C) | 1101021N005-000 | E/02                             |
| 24                | 1      | 1.50       | .750 | Nickel  | Gold (C) | 1101052N005-000 | E/01                             |
| 26                | 1      | 1.50       | .750 | Nickel  | Gold (C) | 1101108N005-000 | E/01                             |

• See page 209 for cable groups. • Assembly procedures start on page 210.  
 • (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Straight Plug - For Semi-Rigid Cable

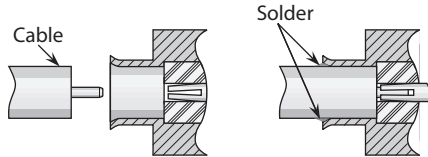


**Figure 1**  
 (Solder-clamp; gold-plated ferrule, nickel-plated body)

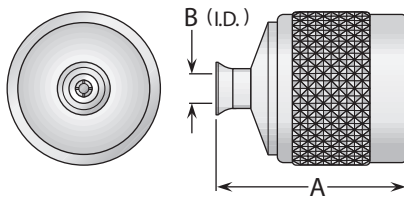


**Figure 2**  
 (Direct solder; gold-plated body, nickel <sup>(1)</sup> or passivated <sup>(2)</sup> coupling nut)

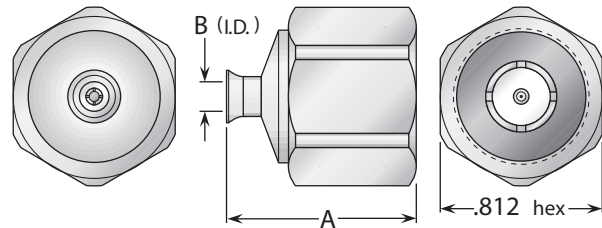
### Delta One-Step Cable Attachment Straight Plugs - For Semi-Rigid Cable



Delta "One-Step" connectors feature captivated contacts and insulators to allow rapid, easy assembly to semi-rigid cable—simply trim the cable jacket and dielectric flush, chamfer the center conductor, insert into the connector, and solder the jacket to the connector body.



**Figure 3**  
 (One-Step cable attachment, standard coupling nut)



**Figure 4**  
 (One-Step cable attachment, hex coupling nut)

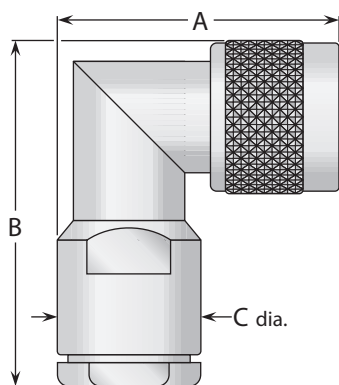
| Cable Group | Figure | Dimension |      | Plating              |          | Delta P/N       | Assembly Procedure/<br>Trim Code |
|-------------|--------|-----------|------|----------------------|----------|-----------------|----------------------------------|
|             |        | A         | B    | Body                 | Contact  |                 |                                  |
| 12          | 1      | 1.50      | .500 | Nickel               | Silver   | 1101050N000-000 | F/03                             |
| 12          | 2      | .960      | .254 | Mixed <sup>(1)</sup> | Silver   | 1101050N003-000 | ***                              |
| 12          | 4      | 1.44      | .254 | Silver               | Gold (C) | 1101050A003-007 | I/01                             |
| 13          | 1      | 1.41      | .500 | Nickel               | Silver   | 1101031N003-000 | F/01                             |
| 13          | 2      | .960      | .143 | Mixed <sup>(1)</sup> | Gold     | 1101031N003-001 | ***                              |
| 13          | 2      | .960      | .143 | Mixed <sup>(2)</sup> | Gold     | 1101031K00M-000 | ***                              |
| 13          | 3      | .960      | .143 | Silver               | Gold (C) | 1101031A003-008 | I/01                             |
| 13          | 4      | .960      | .143 | Silver               | Gold (C) | 1101031A003-012 | I/01                             |
| 14          | 1      | 1.41      | .500 | Nickel               | Silver   | 1101025N003-000 | F/02                             |

<sup>(1)</sup> Brass body and coupling nut.

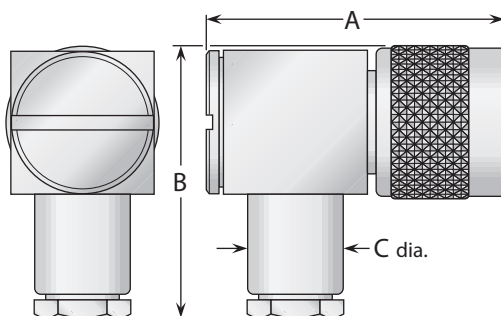
<sup>(2)</sup> Stainless steel body and coupling nut.

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- \*\*\*Contact factory for cable assembly instructions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

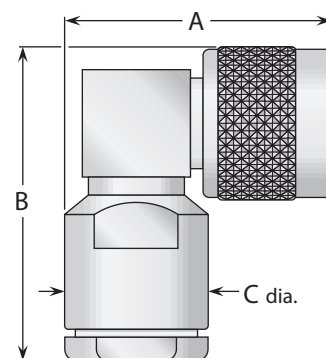
## Right Angle Plug - Military Clamp For Flexible Cable



**Figure 1**  
(Mitered body)



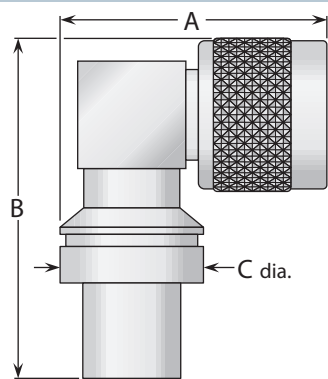
**Figure 2**  
(Cube body with access cap)



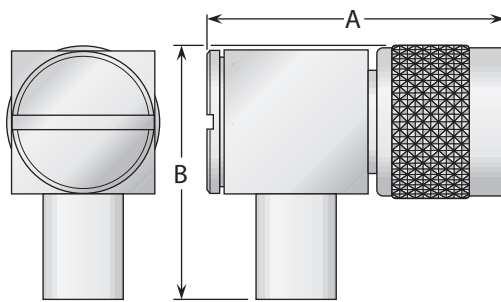
**Figure 3**  
(Cube body)

| Cable Group | Figure | Dimensions |      |      | Plating |            | Delta P/N       | Assembly Procedure/<br>Trim Code |
|-------------|--------|------------|------|------|---------|------------|-----------------|----------------------------------|
|             |        | A          | B    | C    | Body    | Contact    |                 |                                  |
| 2, 3        | 1      | 1.47       | 1.88 | .750 | Nickel  | Silver (C) | UG-594B/U       | A/01                             |
| 2, 3        | 3      | 1.36       | 1.66 | .750 | Silver  | Gold (C)   | M39012/05-0101  | A/07                             |
| 2, 3        | 3      | 1.39       | 1.66 | .750 | Nickel  | Gold       | 1105004N000-000 | A/04                             |
| 5           | 3      | 1.39       | 2.00 | .750 | Nickel  | Gold (C)   | 1104032N001-000 | A/08                             |
| 5, 6        | 2      | 1.55       | 1.28 | .500 | Nickel  | Silver (C) | 1105015N000-000 | A/11                             |
| 5, 6        | 3      | 1.35       | 1.55 | .560 | Nickel  | Silver (C) | 1105015N001-000 | A/09                             |
| 7           | 2      | 1.55       | 1.28 | .500 | Nickel  | Silver (C) | 1105021N000-000 | A/11                             |
| 9           | 2      | 1.55       | 1.28 | .500 | Nickel  | Silver (C) | 1105036N001-000 | A/11                             |
| 19          | 3      | 1.36       | 1.66 | .750 | Nickel  | Silver (C) | 1104027N001-000 | A/07                             |

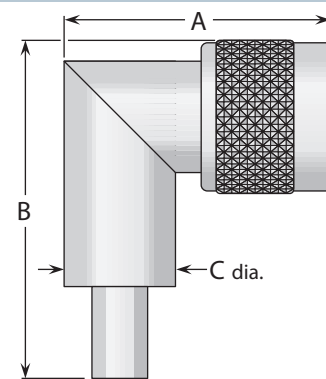
## Right Angle Plug - Crimp For Flexible Cable



**Figure 1**  
(Cube body)



**Figure 2**  
(Cube body with access cap)



**Figure 3**  
(Mitered body)

| Cable Group | Figure | Dimensions |      |      | Plating |            | Delta P/N       | Assembly Procedure/<br>Trim Code |
|-------------|--------|------------|------|------|---------|------------|-----------------|----------------------------------|
|             |        | A          | B    | C    | Body    | Contact    |                 |                                  |
| 2           | 1      | 1.39       | 1.77 | .750 | Nickel  | Silver     | 1107002N000-000 | B/07                             |
| 2           | 2      | 1.39       | 1.25 | —    | Nickel  | Silver (C) | 1107002N000-001 | B/09                             |
| 3           | 1      | 1.39       | 1.77 | .750 | Nickel  | Silver     | 1107005N000-000 | B/07                             |
| 2           | 3      | 1.41       | 2.30 | .687 | Nickel  | Gold (C)   | 1107002N001-002 | B/30                             |
| 3           | 3      | 1.41       | 2.30 | .687 | Nickel  | Gold (C)   | 1107004N001-002 | B/30                             |
| 6           | 3      | 1.41       | 2.25 | .687 | Nickel  | Gold (C)   | 1107034N001-001 | B/08                             |

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

## Tee Plug - For Flexible & Semi-Rigid Cable

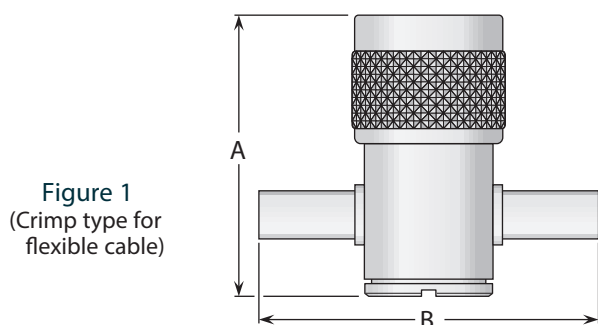


Figure 1  
(Crimp type for  
flexible cable)

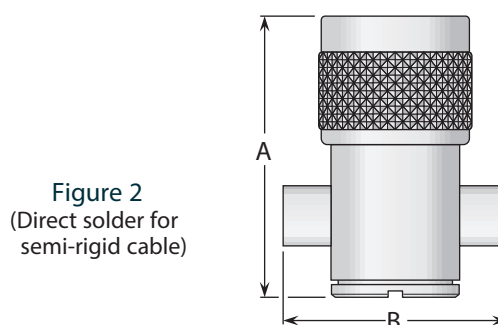


Figure 2  
(Direct solder for  
semi-rigid cable)

| Cable Group | Figure | Dimensions |      | Plating |            | Delta P/N       | Assembly Procedure/<br>Trim Code |
|-------------|--------|------------|------|---------|------------|-----------------|----------------------------------|
|             |        | A          | B    | Body    | Contact    |                 |                                  |
| 2           | 1      | 1.39       | 2.00 | Silver  | Silver (C) | 1185002A000-000 | B/16                             |
| 3           | 1      | 1.39       | 2.00 | Silver  | Silver (C) | 1185004A000-002 | B/16                             |
| 6           | 1      | 1.39       | 1.82 | Silver  | Silver (C) | 1185013A001-000 | B/17                             |
| 7           | 1      | 1.39       | 1.82 | Silver  | Silver (C) | 1185019A000-000 | B/17                             |
| 9           | 1      | 1.39       | 1.82 | Silver  | Silver (C) | 1185036A000-000 | B/17                             |
| 13          | 2      | 1.39       | .900 | Silver  | Silver (C) | 1185031A000-000 | ***                              |

## Straight Jack - Military Clamp For Flexible Cable

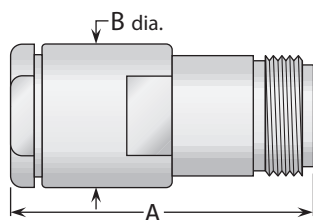


Figure 1

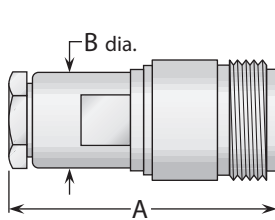


Figure 2

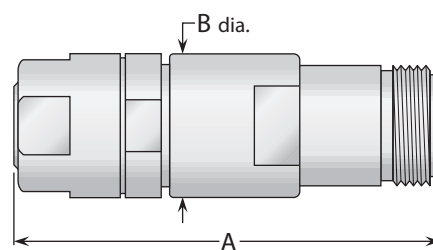


Figure 3  
(Includes armor clamp)

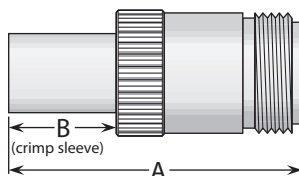
| Cable Group | Figure | Dimensions |      | Plating |            | Delta P/N         | Assembly Procedure/<br>Trim Code |
|-------------|--------|------------|------|---------|------------|-------------------|----------------------------------|
|             |        | A          | B    | Body    | Contact    |                   |                                  |
| 1           | 1      | 1.56       | .750 | Nickel  | Silver     | UG-20E/U          | A/01                             |
| 1           | 1      | 1.67       | .750 | Silver  | Gold (C)   | M39012/02-0101    | A/01                             |
| 2, 3        | 1      | 1.56       | .750 | Nickel  | Silver     | UG-23D/U          | A/01                             |
| 2, 3        | 1      | 1.56       | .750 | Nickel  | Gold       | UG-23F/U          | A/01                             |
| 2, 3        | 1      | 1.56       | .750 | Nickel  | Silver (C) | UG-1186/U         | A/01                             |
| 2, 3        | 1      | 1.56       | .750 | Nickel  | Silver (C) | UG-1186A/U        | A/01                             |
| 2, 3        | 1      | 1.67       | .750 | Silver  | Gold (C)   | M39012/02-0003    | A/01                             |
| 5, 6        | 2      | 1.41       | .500 | Nickel  | Silver     | 1108015N000-000   | A/05                             |
| 5, 6        | 2      | 1.47       | .500 | Nickel  | Silver (C) | 1108015N001-000   | A/02                             |
| 7           | 2      | 1.41       | .500 | Nickel  | Silver     | UG-602A/U         | A/02                             |
| 7           | 2      | 1.27       | .500 | Nickel  | Silver     | 1108000N000-003 * | —                                |
| 7           | 2      | 1.47       | .500 | Nickel  | Silver (C) | 1108021N001-000   | A/02                             |
| 15          | 3      | 2.25       | .750 | Nickel  | Silver     | UG-940B/U         | D/03                             |
| 19          | 1      | 1.56       | .750 | Nickel  | Gold (C)   | 1108027N001-000   | A/12                             |
| 22          | 1      | 1.87       | .690 | Nickel  | Gold       | 1108123N000-000   | C/03                             |

\*UG-602A/U less clamping hardware.

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- \*\*\*Contact factory for cable assembly instructions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

## Straight Jack - Crimp Type For Flexible Cable

Figure 1



| Cable Group | Figure | Dimensions |      | Plating |          | Delta P/N       | Assembly Procedure/<br>Trim Code |
|-------------|--------|------------|------|---------|----------|-----------------|----------------------------------|
|             |        | A          | B    | Body    | Contact  |                 |                                  |
| 2           | 1      | 1.64       | .600 | Silver  | Gold (C) | M39012/02B0008  | B/10                             |
| 2           | 1      | 1.64       | .600 | Silver  | Gold (C) | M39012/02-0502  | B/03                             |
| 2           | 1      | 1.47       | .500 | Nickel  | Gold     | 1110002N000-000 | B/10                             |
| 2           | 1      | 1.60       | .630 | Nickel  | Gold (C) | 1110002N001-000 | B/11                             |
| 3           | 1      | 1.64       | .600 | Silver  | Gold (C) | M39012/02B0009  | B/10                             |
| 3           | 1      | 1.64       | .600 | Silver  | Gold (C) | M39012/02-0501  | B/03                             |
| 3           | 1      | 1.47       | .500 | Nickel  | Gold     | 1110005N000-000 | B/10                             |
| 3           | 1      | 1.60       | .630 | Nickel  | Gold (C) | 1110005N001-000 | B/10                             |
| 6           | 1      | 1.56       | .500 | Nickel  | Gold     | 1110013N000-001 | B/12                             |
| 6           | 1      | 1.54       | .500 | Silver  | Gold (C) | M39012/02-0503  | B/03                             |

## Straight Jack - Heli-Grip® For Flexible Cable

Figure 1

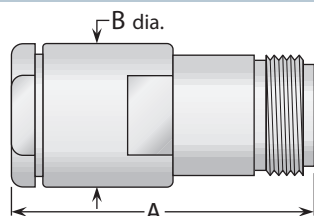
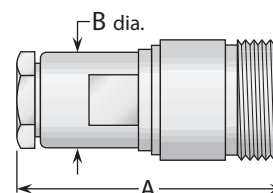


Figure 2



| Cable Group       | Figure | Dimensions |      | Plating |          | Delta P/N       | Assembly Procedure/<br>Trim Code |
|-------------------|--------|------------|------|---------|----------|-----------------|----------------------------------|
|                   |        | A          | B    | Body    | Contact  |                 |                                  |
| 2, 3              | 1      | 1.63       | .750 | Nickel  | Gold (C) | 1108004N005-002 | E/01                             |
| 5, 6 <sup>§</sup> | 2      | 1.41       | .500 | Nickel  | Gold (C) | 1108018N005-002 | E/02                             |
| RG-223            | 2      | 1.41       | .500 | Nickel  | Gold (C) | 1108015N005-000 | E/02                             |
| 7                 | 2      | 1.41       | .500 | Nickel  | Gold (C) | 1108019N005-002 | E/02                             |
| 8                 | 2      | 1.41       | .500 | Nickel  | Gold (C) | 1108029N005-001 | E/02                             |
| 9                 | 2      | 1.41       | .500 | Nickel  | Gold (C) | 1108037N005-002 | E/02                             |

<sup>§</sup>Except RG-223/U.

## Straight Jack - For Semi-Rigid Cable

Figure 1

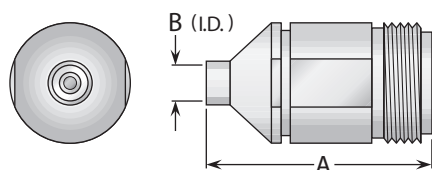
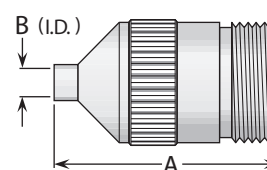


Figure 2



| Cable Group | Figure | Dimensions |      | Plating |         | Delta P/N       | Assembly Procedure/<br>Trim Code |
|-------------|--------|------------|------|---------|---------|-----------------|----------------------------------|
|             |        | A          | B    | Body    | Contact |                 |                                  |
| 12          | 1      | 1.07       | .254 | Silver  | Gold    | 1108050A003-003 | ***                              |
| 13          | 2      | 1.00       | .143 | Silver  | Gold    | 1108031A003-000 | ***                              |

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- \*\*\*Contact factory for cable assembly instructions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

## Bulkhead Jack - Military Clamp For Flexible Cable

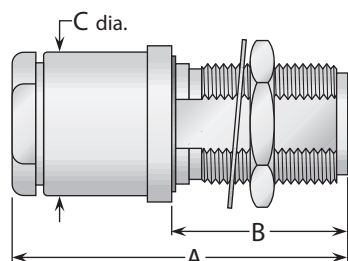


Figure 1  
(Rear mount)

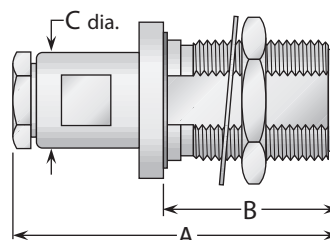
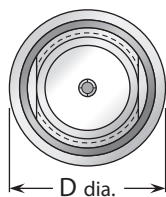
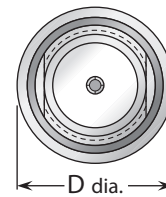


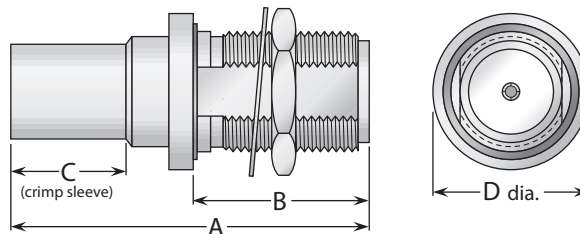
Figure 2  
(Rear mount)



| Cable Group | Fig. | Dimensions |      |      |      | Mounting Figure | Max. Panel | Plating |            | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|------|------------|------|------|------|-----------------|------------|---------|------------|-----------------|------------------------------|
|             |      | A          | B    | C    | D    |                 |            | Body    | Contact    |                 |                              |
| 1           | 1    | 1.75       | .920 | .750 | .900 | 72              | .250       | Silver  | Gold (C)   | M39012/03-0101  | A/01                         |
| 2, 3        | 1    | 1.75       | .920 | .750 | .875 | 72              | .250       | Nickel  | Silver     | UG-160D/U       | A/01                         |
| 2, 3        | 1    | 1.84       | .920 | .750 | .812 | 72              | .250       | Nickel  | Silver (C) | 1116003N721-000 | ***                          |
| 2, 3        | 1    | 1.75       | .920 | .750 | .875 | 72              | .250       | Nickel  | Gold       | 1116004N720-001 | A/01                         |
| 5, 6        | 2    | 1.67       | .920 | .500 | .812 | 72              | .250       | Nickel  | Silver     | UG-556B/U       | A/06                         |
| 5, 6        | 2    | 1.67       | .920 | .500 | .875 | 72              | .250       | Nickel  | Gold (C)   | 1116015N721-000 | A/02                         |
| 7           | 2    | 1.47       | .920 | .500 | .875 | 72              | .250       | Nickel  | Silver     | 1116021N720-000 | A/14                         |
| 7           | 2    | 1.47       | .920 | .500 | .875 | 72              | .250       | Nickel  | Gold (C)   | 1116021N721-000 | A/14                         |
| 9           | 2    | 1.48       | .920 | .500 | .875 | 72              | .250       | Nickel  | Silver (C) | 1116036N721-000 | A/10                         |
| 10          | 2    | 1.48       | .920 | .500 | .875 | 72              | .250       | Nickel  | Silver (C) | 1116100N721-000 | A/10                         |
| 11          | 2    | 1.48       | .920 | .500 | .875 | 72              | .250       | Nickel  | Silver (C) | 1116038N721-000 | A/10                         |
| 16          | 1    | 1.90       | .920 | .880 | .875 | 72              | .250       | Silver  | Gold (C)   | M39012/03-0102  | A/01                         |

## Bulkhead Jack - Crimp Type For Flexible Cable

Figure 1  
(Rear mount)



| Cable Group | Fig. | Dimensions |      |      |      | Mounting Figure | Max. Panel | Plating |            | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|------|------------|------|------|------|-----------------|------------|---------|------------|-----------------|------------------------------|
|             |      | A          | B    | C    | D    |                 |            | Body    | Contact    |                 |                              |
| 2           | 1    | 1.84       | .920 | .600 | .875 | 72              | .250       | Silver  | Gold (C)   | M39012/03B0004  | B/03                         |
| 2           | 1    | 1.84       | .920 | .600 | .875 | 72              | .250       | Silver  | Gold (C)   | M39012/03-0502  | B/03                         |
| 3           | 1    | 1.84       | .920 | .600 | .875 | 72              | .250       | Silver  | Gold (C)   | M39012/03B0005  | B/03                         |
| 3           | 1    | 1.84       | .920 | .600 | .875 | 72              | .250       | Silver  | Gold (C)   | M39012/03-0501  | B/03                         |
| 6           | 1    | 1.74       | .950 | .500 | .875 | 72              | .250       | Nickel  | Gold (C)   | 1119013N721-000 | B/13                         |
| 6           | 1    | 1.74       | .920 | .500 | .875 | 72              | .250       | Silver  | Gold (C)   | M39012/03-0503  | B/03                         |
| 7           | 1    | 1.59       | .920 | .500 | .812 | 72              | .250       | Nickel  | Silver     | 1119020N720-000 | B/14                         |
| 9           | 1    | 1.45       | .880 | .440 | .812 | 72              | .250       | Nickel  | Silver (C) | 1119036N721-000 | B/15                         |
| 10          | 1    | 1.45       | .880 | .440 | .812 | 72              | .250       | Nickel  | Gold (C)   | 1119100N721-000 | B/15                         |

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- \*\*\*Contact factory for cable assembly instructions
- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

## Bulkhead Jack - Heli-Grip® For Flexible Cable

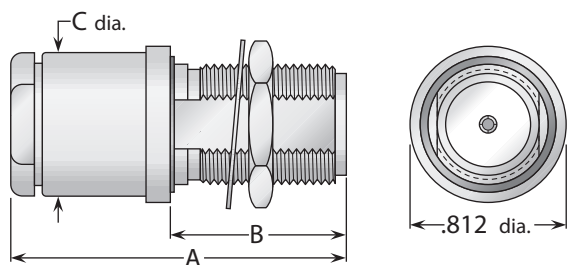


Figure 1

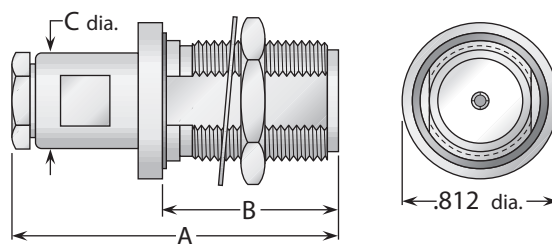
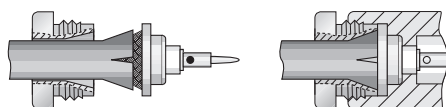


Figure 2

### Heli-Grip® Cable Attachment



These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

| Cable Group       | Fig. | Dimensions |      |      | Mounting Figure | Max. Panel | Plating |          | Delta P/N       | Assembly Procedure/Trim Code |
|-------------------|------|------------|------|------|-----------------|------------|---------|----------|-----------------|------------------------------|
|                   |      | A          | B    | C    |                 |            | Body    | Contact  |                 |                              |
| 2, 3              | 1    | 1.84       | .920 | .750 | 72              | .250       | Nickel  | Gold (C) | 1116004N725-000 | E/01                         |
| 5, 6 <sup>§</sup> | 2    | 1.69       | .920 | .500 | 72              | .250       | Nickel  | Gold (C) | 1116015N725-000 | E/03                         |
| RG-223            | 2    | 1.69       | .920 | .500 | 72              | .250       | Nickel  | Gold (C) | 1116015N725-001 | E/03                         |
| 7                 | 2    | 1.69       | .920 | .500 | 72              | .250       | Nickel  | Gold (C) | 1116021N725-000 | E/03                         |
| 10                | 2    | 1.69       | .920 | .500 | 72              | .250       | Nickel  | Gold (C) | 1116100N725-000 | E/03                         |

<sup>§</sup> Except RG-223/U.

## Tee Bulkhead Jack - For Flexible & Semi-Rigid Cable

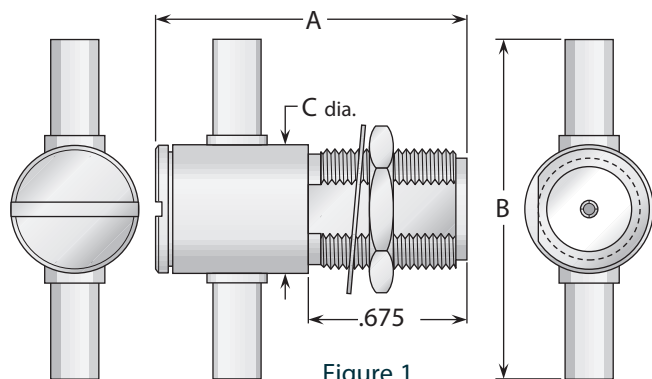


Figure 1  
(Crimp type for flexible cable)

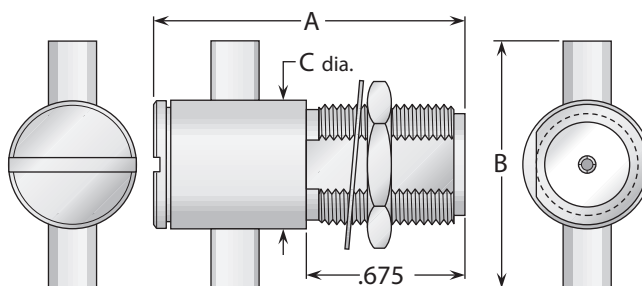
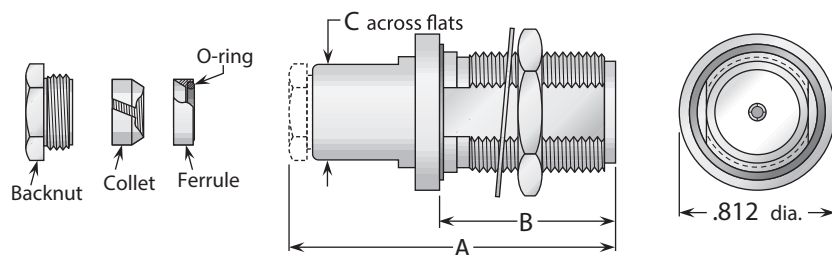


Figure 2  
(Direct solder for semi-rigid cable)

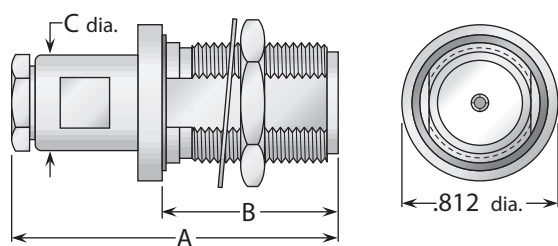
| Cable Group | Fig. | Dimensions |      |      | Mounting Figure | Max. Panel | Plating |            | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|------|------------|------|------|-----------------|------------|---------|------------|-----------------|------------------------------|
|             |      | A          | B    | C    |                 |            | Body    | Contact    |                 |                              |
| 2           | 1    | 1.40       | 2.00 | .750 | 55              | .100       | Silver  | Silver (C) | 1185002A551-000 | B/16                         |
| 3           | 1    | 1.40       | 2.00 | .750 | 55              | .100       | Silver  | Silver (C) | 1185004A551-000 | B/16                         |
| 6           | 1    | 1.38       | 1.89 | .750 | 55              | .100       | Silver  | Silver (C) | 1185013A551-000 | B/17                         |
| 7           | 1    | 1.38       | 1.89 | .750 | 55              | .100       | Silver  | Silver (C) | 1185019A551-000 | B/17                         |
| 9           | 1    | 1.38       | 1.89 | .750 | 55              | .100       | Silver  | Silver (C) | 1185036A551-000 | B/17                         |
| 13          | 2    | 1.38       | .900 | .750 | 55              | .100       | Silver  | Silver (C) | 1185031A551-000 | ***                          |

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- \*\*\* Contact factory for cable assembly instructions.
- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

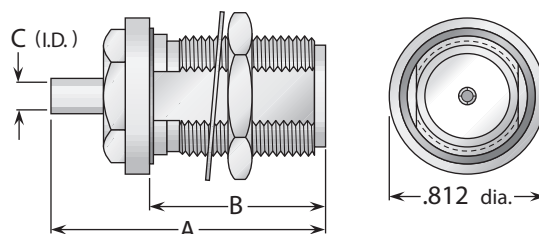
## Bulkhead Jack - For Semi-Rigid Cable



**Figure 1**  
(Collet clamp [solderless] cable attachment, captive contact in body)



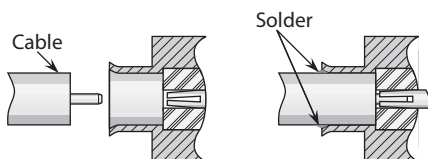
**Figure 2**  
(Solder-clamp; gold-plated ferrule, nickel-plated body)



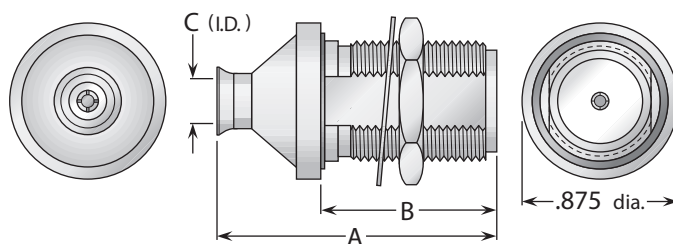
**Figure 3**  
(Direct solder)

## Delta One-Step Cable Attachment - For Semi-Rigid Cable

### One-Step Cable Attachment



Delta "One-Step" connectors feature captivated contacts and insulators to allow rapid, easy assembly to semi-rigid cable—simply trim the cable jacket and dielectric flush, chamfer the center conductor, insert into the connector, and solder the jacket to the connector body.



**Figure 4**  
(One-Step cable attachment)

| Cable Group | Fig. | Dimensions |      |      | Mounting Figure | Max. Panel | Plating |          | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|------|------------|------|------|-----------------|------------|---------|----------|-----------------|------------------------------|
|             |      | A          | B    | C    |                 |            | Body    | Contact  |                 |                              |
| 12          | 1    | 1.55       | .889 | .500 | 72              | .250       | Nickel  | Gold (C) | 1116163N721-000 | ***                          |
| 13          | 2    | 1.67       | .922 | .500 | 72              | .250       | Nickel  | Gold     | 1116031N720-000 | F/04                         |
| 13          | 3    | 1.33       | .884 | .145 | 72              | .250       | Nickel  | Gold     | 1116031N723-001 | ***                          |
| 13          | 4    | 1.38       | .922 | .143 | 72              | .250       | Silver  | Gold (C) | 1116031A723-003 | I/01                         |
| 14          | 2    | 1.67       | .922 | .500 | 72              | .250       | Nickel  | Gold     | 1116025N723-000 | F/04                         |
| 14          | 3    | 1.33       | .884 | .090 | 72              | .250       | Nickel  | Gold     | 1116025N723-001 | ***                          |
| 14          | 4    | 1.38       | .922 | .088 | 72              | .250       | Silver  | Gold (C) | 1116025A723-002 | I/01                         |

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- \*\*\* Contact factory for cable assembly instructions.
- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

## Panel Jack - For Flexible Cable

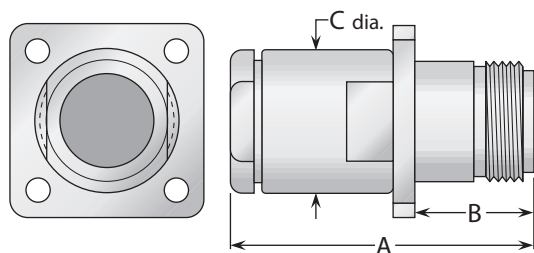


Figure 1

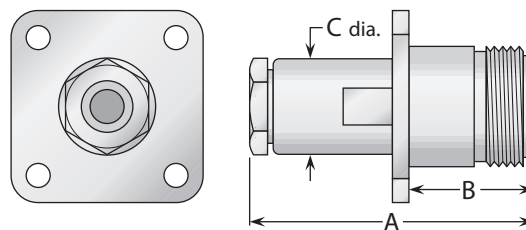
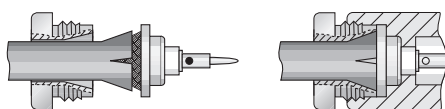


Figure 2

### Heli-Grip® Cable Attachment (where noted)



These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

## Military Clamp For Flexible Cable

| Cable Group | Fig. | Dimensions |      |      | Mounting Figure | Plating |            | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|------|------------|------|------|-----------------|---------|------------|-----------------|------------------------------|
|             |      | A          | B    | C    |                 | Body    | Contact    |                 |                              |
| 1           | 1    | 1.67       | .660 | .750 | 33              | Silver  | Gold (C)   | M39012/02-0104  | A/01                         |
| 2, 3        | 1    | 1.58       | .660 | .750 | 33              | Nickel  | Silver     | UG-22D/U        | A/01                         |
| 2, 3        | 1    | 1.58       | .660 | .750 | 33              | Nickel  | Gold       | UG-22F/U        | A/01                         |
| 2, 3        | 1    | 1.58       | .660 | .750 | 33              | Nickel  | Silver (C) | UG-1187/U       | A/01                         |
| 2, 3        | 1    | 1.58       | .660 | .750 | 33              | Nickel  | Silver (C) | UG-1187A/U      | A/01                         |
| 2, 3        | 1    | 1.67       | .660 | .750 | 33              | Silver  | Gold (C)   | M39012/02-0006  | A/01                         |
| 5, 6        | 2    | 1.41       | .660 | .500 | 33              | Nickel  | Silver     | UG-1095B/U      | A/13                         |
| 5, 6        | 2    | 1.41       | .660 | .500 | 33              | Nickel  | Gold       | UG-1095C/U      | A/13                         |
| 5, 6        | 2    | 1.41       | .660 | .500 | 27              | Nickel  | Silver     | 1111015N270-000 | A/13                         |
| 5, 6        | 2    | 1.48       | .660 | .500 | 27              | Nickel  | Gold (C)   | 1111015N271-000 | A/02                         |
| 5, 6        | 2    | 1.41       | .660 | .500 | 33              | Nickel  | Silver (C) | 1111015N331-000 | A/02                         |
| 7           | 2    | 1.41       | .660 | .500 | 33              | Nickel  | Silver     | UG-593A/U       | A/14                         |
| 9           | 2    | 1.44       | .660 | .500 | 33              | Nickel  | Silver     | 1111036N330-000 | A/16                         |
| 9           | 2    | 1.48       | .660 | .500 | 33              | Nickel  | Silver (C) | 1111036N331-000 | A/15                         |
| 19          | 1    | 1.56       | .660 | .750 | 33              | Nickel  | Gold (C)   | 1111027N331-000 | A/12                         |
| 22          | 1    | 1.87       | .660 | .690 | 30              | Nickel  | Gold       | 1111123N300-000 | C/03                         |

## Heli-Grip For Flexible Cable

| Cable Group       | Fig. | Dimensions |      |      | Mounting Figure | Plating |          | Delta P/N       | Assembly Procedure/Trim Code |
|-------------------|------|------------|------|------|-----------------|---------|----------|-----------------|------------------------------|
|                   |      | A          | B    | C    |                 | Body    | Contact  |                 |                              |
| 2, 3              | 1    | 1.58       | .660 | .750 | 33              | Nickel  | Gold (C) | 1111004N335-000 | E/01                         |
| 5, 6 <sup>§</sup> | 2    | 1.41       | .660 | .500 | 33              | Nickel  | Gold (C) | 1111015N335-000 | E/03                         |
| RG-223            | 2    | 1.41       | .920 | .500 | 33              | Nickel  | Gold (C) | 1111015N335-001 | E/03                         |
| 7                 | 2    | 1.41       | .660 | .500 | 33              | Nickel  | Gold (C) | 1111021N335-000 | E/03                         |
| 9                 | 2    | 1.41       | .660 | .500 | 33              | Nickel  | Gold (C) | 1111037N335-001 | E/03                         |
| 10                | 2    | 1.41       | .660 | .500 | 33              | Nickel  | Gold (C) | 1111100N335-001 | E/03                         |

<sup>§</sup>Except RG-223/U.

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

## Panel Jack - Crimp Type For Flexible Cable

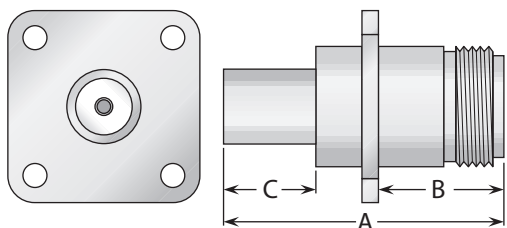


Figure 1 (Standard crimp type)

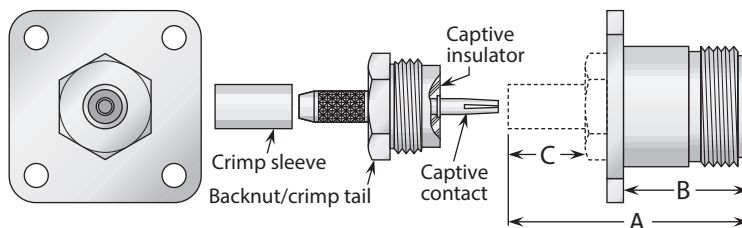


Figure 2 (Contact and insulator captive in backnut)

| Cable Group | Fig. | Dimensions |      |      | Mounting Figure | Plating |            | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|------|------------|------|------|-----------------|---------|------------|-----------------|------------------------------|
|             |      | A          | B    | C    |                 | Body    | Contact    |                 |                              |
| 2           | 1    | 1.64       | .660 | .600 | 33              | Silver  | Gold (C)   | M39012/02-0512  | B/03                         |
| 3           | 1    | 1.64       | .660 | .600 | 33              | Silver  | Gold (C)   | M39012/02-0511  | B/03                         |
| 5           | 2    | 1.19       | .595 | .500 | 33              | Nickel  | Silver (C) | 1155017N331-000 | ***                          |
| 6           | 2    | 1.19       | .595 | .500 | 33              | Nickel  | Silver (C) | 1155013N331-000 | ***                          |
| 6           | 1    | 1.54       | .660 | .500 | 33              | Silver  | Gold (C)   | M39012/02-0513  | B/03                         |
| 9           | 2    | 1.16       | .595 | .380 | 33              | Nickel  | Silver (C) | 1155037N331-000 | ***                          |

## Panel Jack - For Semi-Rigid Cable

Figure 1  
(Solder-clamp; gold-plated ferrule, nickel-plated body)

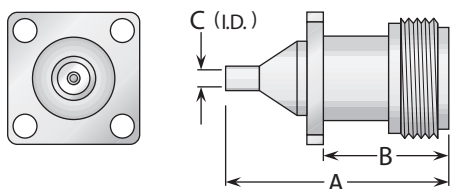
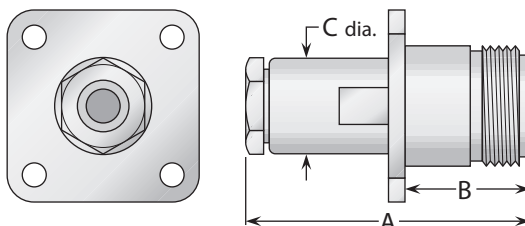


Figure 2 (One-Step cable attachment—see page 76 for details)

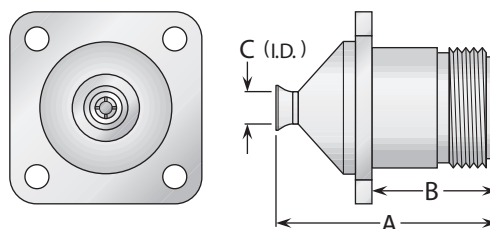


Figure 3 (One-Step cable attachment—see page 76 for details)

| Cable Group | Fig. | Dimensions |      |      | Mounting Figure | Plating |          | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|------|------------|------|------|-----------------|---------|----------|-----------------|------------------------------|
|             |      | A          | B    | C    |                 | Body    | Contact  |                 |                              |
| 13          | 1    | 1.41       | .660 | .500 | 33              | Nickel  | Gold     | 1111031N333-001 | F/05                         |
| 13          | 2    | 1.11       | .660 | .143 | 09              | Silver  | Gold (C) | 1111031A091-001 | I/01                         |
| 13          | 3    | 1.07       | .640 | .143 | 33              | Silver  | Gold (C) | 1111031A333-004 | I/01                         |
| 14          | 1    | 1.41       | .660 | .500 | 33              | Nickel  | Gold     | 1111025N333-000 | F/05                         |
| 14          | 2    | 1.11       | .660 | .088 | 09              | Silver  | Gold (C) | 1111025A091-001 | I/01                         |
| 14          | 3    | 1.07       | .640 | .088 | 33              | Silver  | Gold (C) | 1111025A333-002 | I/01                         |

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- \*\*\* Contact factory for cable assembly instructions.
- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

## Panel Jack Receptacle -Solder Pot Contact

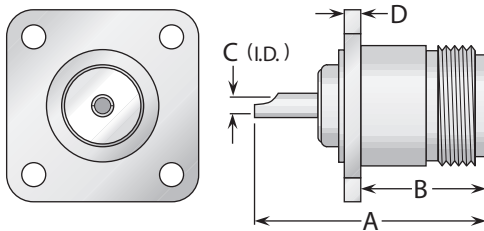


Figure 1

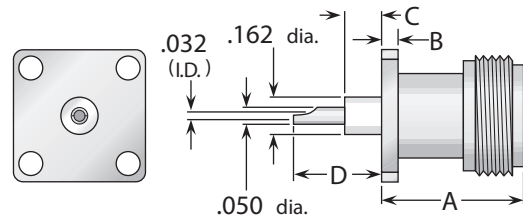
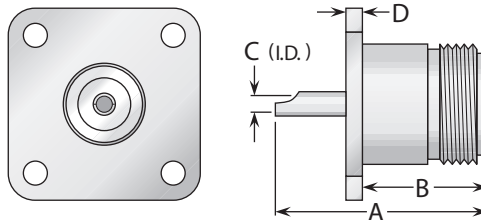


Figure 2  
 (11/16" square flange, interchangeable with  
 BNC and TNC standard flange size)

Figure 3



| Figure | Dimensions |      |      |      | Mounting Figure | Plating |            | Delta P/N       |
|--------|------------|------|------|------|-----------------|---------|------------|-----------------|
|        | A          | B    | C    | D    |                 | Body    | Contact    |                 |
| 1      | 1.13       | .660 | .100 | .080 | 33              | Nickel  | Silver (C) | UG-58A/U        |
| 1      | 1.13       | .660 | .100 | .080 | 33              | Silver  | Gold (C)   | M39012/04-0002  |
| 1      | 1.13       | .660 | .100 | .050 | 18              | Nickel  | Silver (C) | 1113000N181-000 |
| 1      | 1.13       | .660 | .100 | .080 | 32A             | Nickel  | Silver (C) | 1113000N321-002 |
| 1      | 1.13       | .660 | .100 | .080 | 32              | Nickel  | Gold (C)   | 1113000N321-003 |
| 1      | 1.13       | .660 | .100 | .080 | 33              | Silver  | Gold (C)   | 1113000A331-011 |
| 1      | 1.13       | .660 | .100 | .080 | 33              | Nickel  | Gold (C)   | 1113000N331-011 |
| 1      | 1.13       | .660 | .100 | .080 | 95              | Nickel  | Silver (C) | 1113000N951-000 |
| 2      | .735       | .075 | .125 | .250 | 09              | Nickel  | Silver (C) | 1113000N091-002 |
| 3      | 1.13       | .660 | .100 | .080 | 33              | Nickel  | Gold (C)   | 1113000N331-009 |

## Panel Jack Receptacle - Solder Pot Contact

Round Flange (For Solder Or Setscrew Mounting)

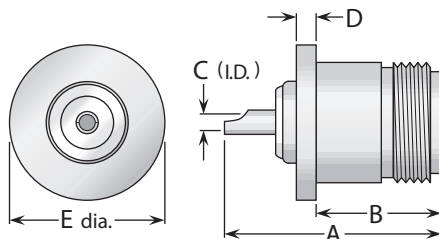


Figure 1

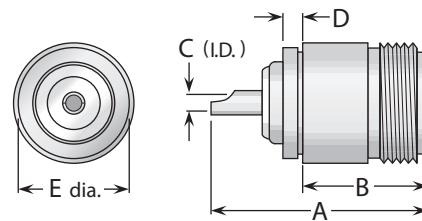
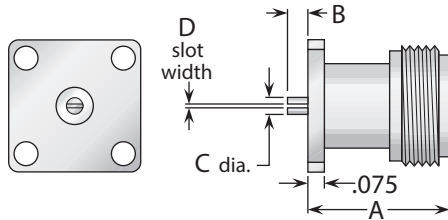


Figure 2

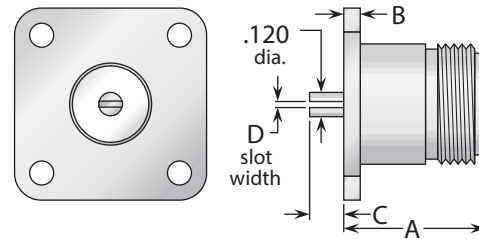
| Figure | Dimensions |      |      |      |      | Plating |            | Delta P/N       |
|--------|------------|------|------|------|------|---------|------------|-----------------|
|        | A          | B    | C    | D    | E    | Body    | Contact    |                 |
| 1      | 1.25       | .660 | .100 | .175 | 1.50 | Nickel  | Silver (C) | 1113000N911-002 |
| 1      | 1.25       | .660 | .100 | .125 | 1.25 | Nickel  | Gold (C)   | 1113000N911-005 |
| 2      | 1.13       | .660 | .100 | .110 | .575 | Nickel  | Silver (C) | 1120000N831-000 |

- (C) in contact plating column indicates captive contact.
- See page 208 for mounting dimensions.
- See page 6 for alternate body plating information.
- All items are available with other flange sizes and contact configurations.

## Panel Jack Receptacle -Slotted Contact



**Figure 1**  
 (11/16" square flange, interchangeable  
 with BNC and TNC standard flange size)



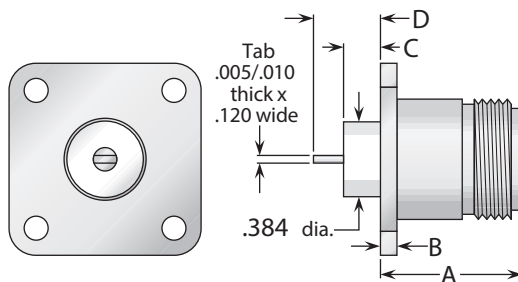
**Figure 2**

| Figure | Dimensions |      |      |           | Mounting Figure | Plating |           | Delta P/N       |
|--------|------------|------|------|-----------|-----------------|---------|-----------|-----------------|
|        | A          | B    | C    | D         |                 | Body    | Contact   |                 |
| 1      | .735       | .050 | .086 | .012/.017 | 09              | Nickel  | Gold (C)* | 1143000N091-002 |
| 1      | .735       | .050 | .086 | .036      | 09              | Nickel  | Gold (C)* | 1143000N091-003 |
| 1      | .735       | .050 | .086 | .007/.012 | 09              | Nickel  | Gold (C)* | 1143000N091-004 |
| 1      | .735       | .050 | .050 | .012/.017 | 09              | Nickel  | Gold (C)* | 1143000N091-009 |
| 2      | .736       | .080 | .050 | .012/.017 | 33              | Nickel  | Gold (C)* | 1143000N330-010 |
| 2      | .736       | .080 | .050 | .026/.030 | 33              | Nickel  | Gold (C)* | 1143000N331-017 |
| 2      | .736       | .080 | .050 | .020/.025 | 33              | Nickel  | Gold (C)  | 1143000N331-023 |
| 2      | .735       | .080 | .050 | .026/.030 | 33              | Nickel  | Gold (C)  | 1143000N331-054 |
| 2      | .736       | .080 | .050 | .012/.017 | 33              | Nickel  | Gold (C)  | 1143000N331-055 |

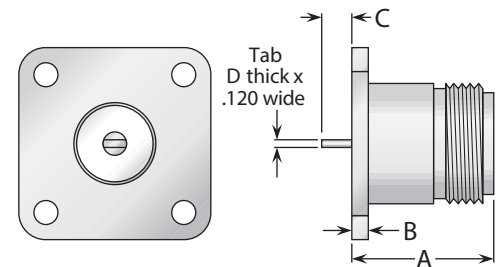
\*Epoxy-captivated contact.

## Panel Jack Receptacle -Tab Contact

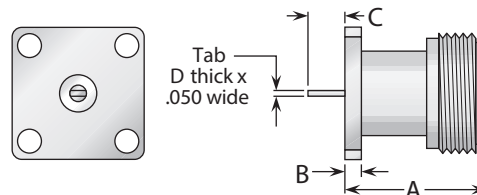
**Figure 1**



**Figure 2**



**Figure 3**  
 (11/16" square flange, interchangeable  
 with BNC and TNC standard flange size)



| Figure | Dimensions |      |      |           | Mounting Figure | Plating |           | Delta P/N       |
|--------|------------|------|------|-----------|-----------------|---------|-----------|-----------------|
|        | A          | B    | C    | D         |                 | Body    | Contact   |                 |
| 1      | .736       | .080 | .195 | .350      | 33              | Nickel  | Gold (C)* | 1143000N330-012 |
| 2      | .736       | .080 | .100 | .005/.008 | 33              | Silver  | Gold (C)* | 1158000A331-012 |
| 3      | .735       | .075 | .050 | .004/.006 | 09              | Silver  | Gold (C)* | 1158000A091-023 |

\*Epoxy-captivated contact.

- (C) in contact plating column indicates captive contact.
- See page 208 for mounting dimensions.
- See page 6 for alternate body plating information.
- All items are available with other flange sizes and contact configurations.

## Panel Jack Receptacle - Post Contact

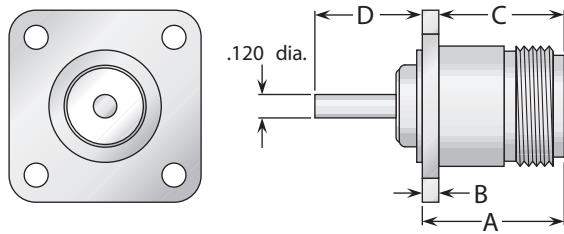


Figure 1

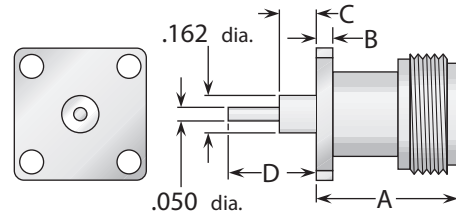


Figure 2

( $\frac{11}{16}$ " square flange, interchangeable with BNC and TNC standard flange size)

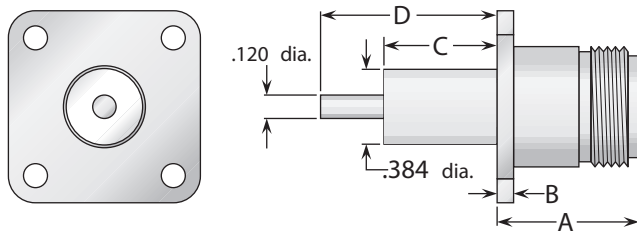


Figure 3

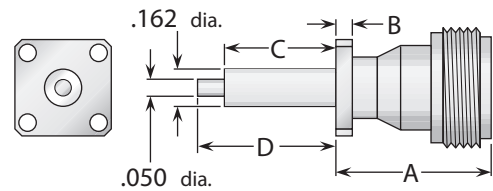


Figure 4

( $\frac{1}{2}$ " square flange, interchangeable with SMA standard flange size)

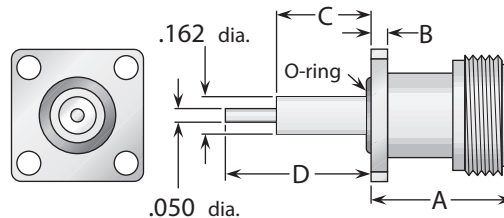


Figure 5

(O-ring seal on flange,  $\frac{11}{16}$ " square flange, interchangeable with BNC and TNC standard flange size)

| Figure | Dimensions |      |      |      | Mounting Figure | Plating |            | Delta P/N       |
|--------|------------|------|------|------|-----------------|---------|------------|-----------------|
|        | A          | B    | C    | D    |                 | Body    | Contact    |                 |
| 1      | .736       | .080 | .660 | .560 | 33              | Nickel  | Gold (C)   | 1113000N331-028 |
| 2      | .735       | .075 | .125 | .250 | 09              | Nickel  | Silver (C) | 1143000N091-018 |
| 2      | .735       | .075 | .125 | .250 | 09              | Nickel  | Gold (C)   | 1143000N091-030 |
| 2      | .735       | .075 | .590 | .705 | 09              | Nickel  | Gold (C)*  | 1143000N091-069 |
| 3      | .736       | .080 | .590 | .705 | 33              | Nickel  | Gold       | 1143000N330-018 |
| 3      | .736       | .080 | .590 | .705 | 33              | Nickel  | Gold (C)*  | 1158000N331-015 |
| 4      | .814       | .080 | .590 | .705 | 05              | Nickel  | Gold (C)   | 1143000N051-002 |
| 5      | .735       | .075 | .200 | .450 | 09              | Nickel  | Gold (C)   | 1143000N091-059 |
| 5      | .735       | .075 | .750 | .875 | 09              | Nickel  | Gold (C)   | 1143000N091-073 |
| 5      | .735       | .075 | .375 | .425 | 09              | Nickel  | Gold (C)*  | 1143000N091-075 |

\*Epoxy-captivated contact.

- (C) in contact plating column indicates captive contact.
- See page 208 for mounting dimensions.
- See page 6 for alternate body plating information.
- All items are available with other flange sizes and contact configurations.

## Right Angle Panel Jack Receptacle

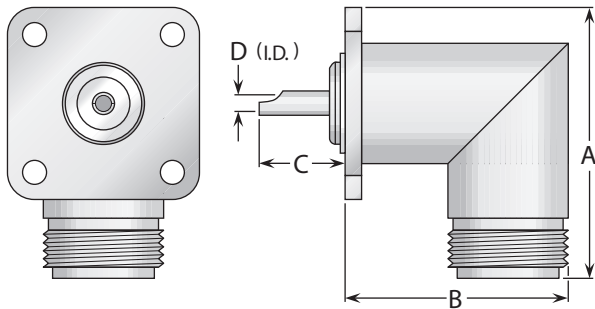


Figure 1

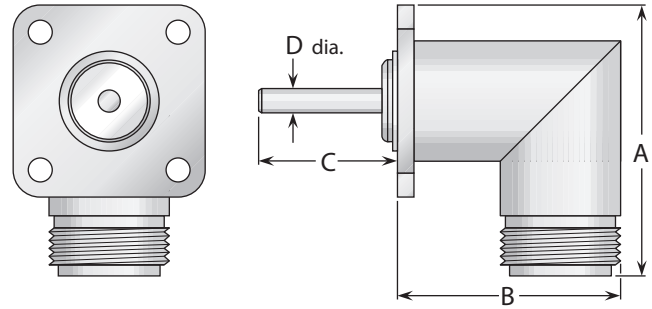


Figure 2

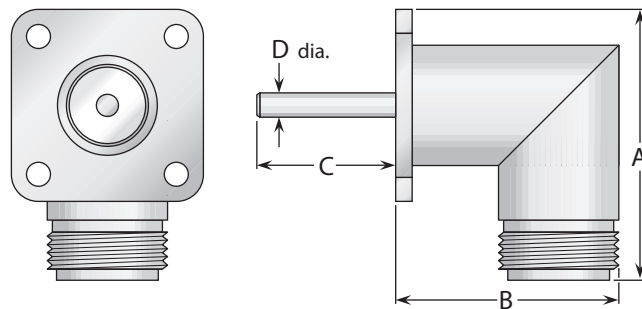


Figure 3

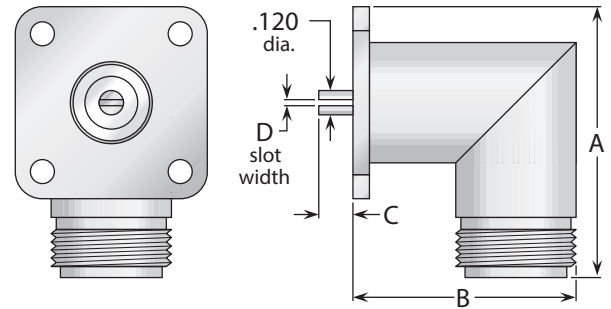
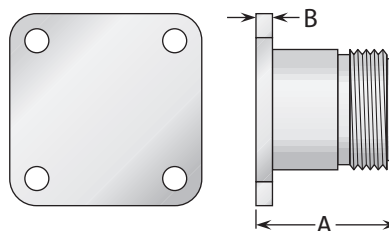


Figure 4

| Figure | Dimensions |      |      |           | Mounting Figure | Plating |            | Delta P/N       |
|--------|------------|------|------|-----------|-----------------|---------|------------|-----------------|
|        | A          | B    | C    | D         |                 | Body    | Contact    |                 |
| 1      | 1.41       | 1.16 | .300 | .101      | 33              | Nickel  | Silver (C) | UG-997A/U       |
| 1      | 1.41       | 1.16 | .300 | .101      | 33              | Nickel  | Gold (C)   | 1115000N330-005 |
| 2      | 1.41       | 1.16 | .750 | .120      | 33              | Nickel  | Silver (C) | 1115000N330-009 |
| 3      | 1.41       | .830 | .560 | .120      | 33              | Nickel  | Gold (C)   | 1115000N330-012 |
| 4      | 1.41       | 1.17 | .050 | .020/.025 | 33              | Nickel  | Silver (C) | 1115000N330-011 |

## Dummy Receptacle

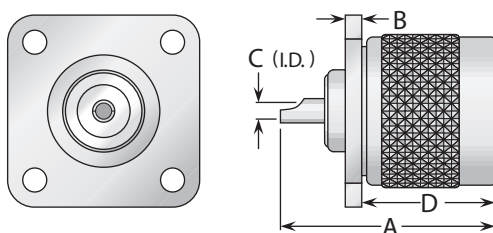


| Dimensions |      | Mounting Figure | Plating |         | Delta P/N       |
|------------|------|-----------------|---------|---------|-----------------|
| A          | B    |                 | Body    | Contact |                 |
| .740       | .080 | 33              | Nickel  | —       | 1163000N330-000 |

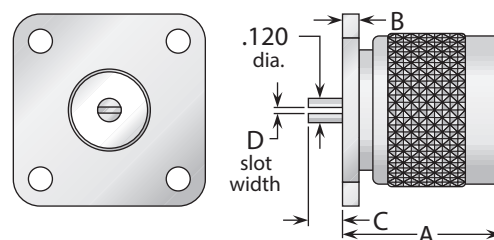
- (C) in contact plating column indicates captive contact.
- See page 208 for mounting dimensions.
- See page 6 for alternate body plating information.
- All items are available with other flange sizes and contact configurations.

## Panel Plug Receptacles

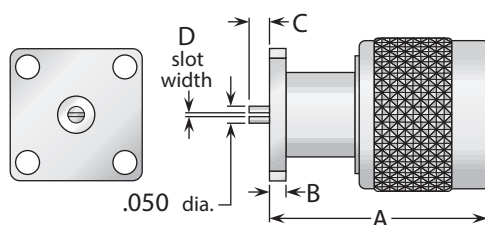
**Figure 1**  
(Solder pot contact)



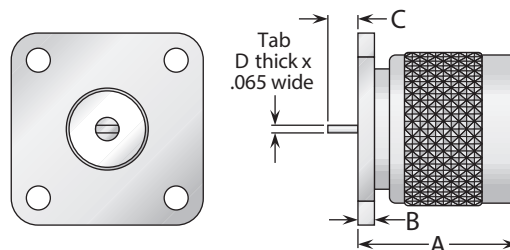
**Figure 2**  
(Slotted contact)



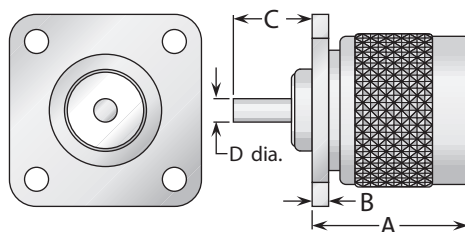
**Figure 3**  
(Slotted contact)



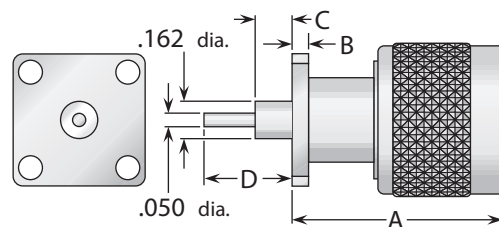
**Figure 4**  
(Tab contact)



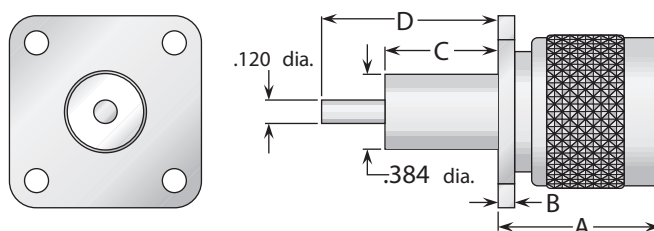
**Figure 5**  
(Post contact)



**Figure 6**  
(Post contact)



**Figure 7**  
(Post contact)

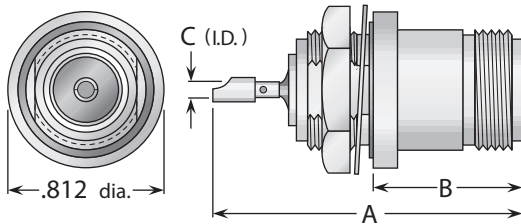


| Figure | Dimensions |      |      |           | Mounting Figure | Plating |            | Delta P/N       |
|--------|------------|------|------|-----------|-----------------|---------|------------|-----------------|
|        | A          | B    | C    | D         |                 | Body    | Contact    |                 |
| 1      | 1.10       | .080 | .101 | .720      | 33              | Nickel  | Silver (C) | 1123000N330-000 |
| 1      | 1.10       | .080 | .101 | .720      | 33              | Nickel  | Gold (C)   | 1123000N330-004 |
| 2      | .780       | .080 | .050 | .012/.017 | 33              | Nickel  | Gold (C)   | 1159000N330-001 |
| 2      | .810       | .080 | .050 | .012/.017 | 33              | Nickel  | Gold (C)   | 1159000N330-013 |
| 2      | .810       | .080 | .050 | .026/.030 | 33              | Nickel  | Gold (C)*  | 1159000N331-026 |
| 3      | 1.17       | .075 | .050 | .020      | 09              | Nickel  | Gold (C)*  | 1159000N091-004 |
| 4      | .810       | .080 | .100 | .005/.008 | 33              | Nickel  | Gold (C)*  | 1159000N331-009 |
| 5      | .810       | .080 | .360 | .120      | 33              | Nickel  | Gold (C)   | 1123000N330-002 |
| 6      | 1.17       | .075 | .125 | .250      | 09              | Nickel  | Gold (C)   | 1159000N091-010 |
| 7      | .810       | .080 | .590 | 1.10      | 33              | Nickel  | Gold (C)*  | 1159000N331-006 |
| 7      | .810       | .080 | .330 | .488      | 33              | Nickel  | Gold       | 1159000N330-011 |
| 7      | .810       | .080 | .330 | .488      | 33              | Nickel  | Gold (C)*  | 1159000N331-000 |

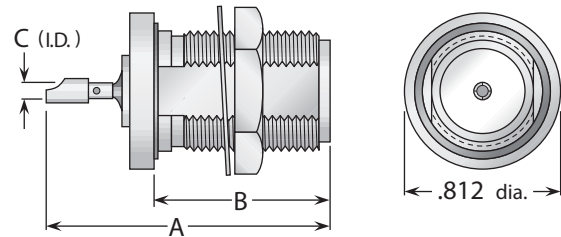
\*Epoxy-captivated contact.

- (C) in contact plating column indicates captive contact.
- See page 208 for mounting dimensions.
- See page 6 for alternate body plating information.
- All items are available with other flange sizes and contact configurations.

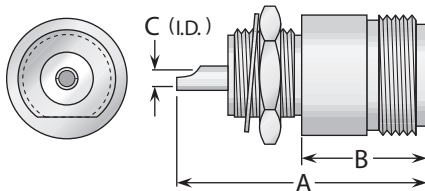
## Bulkhead Jack Receptacles



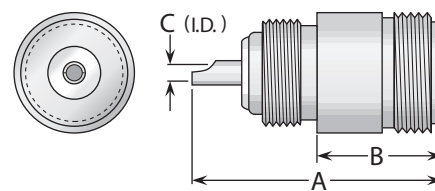
**Figure 1**  
(Front mount, hermetically sealed, with mounting gasket)



**Figure 2**  
(Rear mount, hermetically sealed, with mounting gasket)



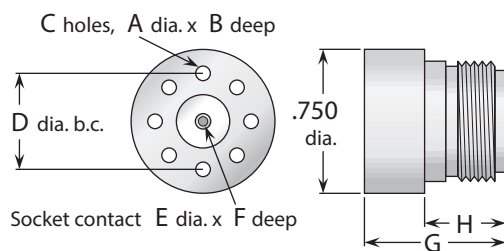
**Figure 3**  
(Front mount, no gasket)



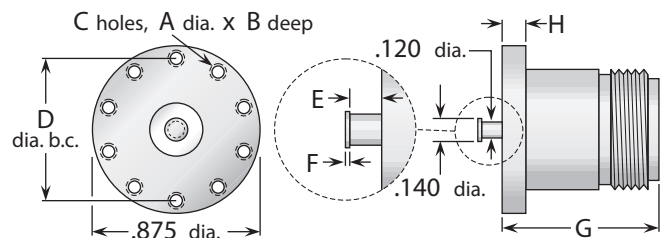
**Figure 4**  
(Front mount, no gasket, screw-in type  
for 9/16-24 tapped hole)

| Figure | Dimensions |      |      | Max. Panel | Mounting Figure | Plating |            | Delta P/N       |
|--------|------------|------|------|------------|-----------------|---------|------------|-----------------|
|        | A          | B    | C    |            |                 | Body    | Contact    |                 |
| 1      | 1.62       | .707 | .099 | .100       | 72              | Nickel  | Silver (C) | UG-680/U        |
| 1      | 1.62       | .707 | .099 | .100       | 72              | Nickel  | Silver (C) | UG-680A/U       |
| 1      | 1.62       | .707 | .099 | .100       | 72              | Silver  | Gold (C)   | M39012/04-0001  |
| 2      | 1.53       | .919 | .099 | .250       | 72              | Nickel  | Silver (C) | 1121000N728-005 |
| 3      | 1.25       | .606 | .099 | .100       | 59              | Nickel  | Silver (C) | 1120000N590-000 |
| 3      | 1.25       | .606 | .099 | .100       | 59              | Nickel  | Gold (C)   | 1120000N590-004 |
| 4      | 1.15       | .562 | .099 | .100       | **              | Nickel  | Silver (C) | 1120000N591-000 |

## Stripline Receptacles



**Figure 1**



**Figure 2**

| Figure | Dimensions |      |    |      |       |      |      |      | Plating |         | Delta P/N       |
|--------|------------|------|----|------|-------|------|------|------|---------|---------|-----------------|
|        | A          | B    | C  | D    | E     | F    | G    | H    | Body    | Contact |                 |
| 1      | #2-56      | .250 | 7  | .560 | #0-80 | .125 | .734 | .422 | Nickel  | Silver  | 1156000N000-000 |
| 1      | .078       | .313 | 7  | .500 | .063  | .156 | .734 | .656 | Nickel  | Silver  | 1156000N000-002 |
| 1      | #2-56      | .250 | 7  | .560 | #2-56 | .125 | .734 | .422 | Nickel  | Silver  | 1156000N000-003 |
| 2      | #2-56      | .125 | 10 | .734 | .125  | .010 | .816 | .125 | Nickel  | Silver  | 1157000N000-003 |

- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.
- See page 208 for mounting dimensions.
- All items are available with other flange sizes and contact configurations.

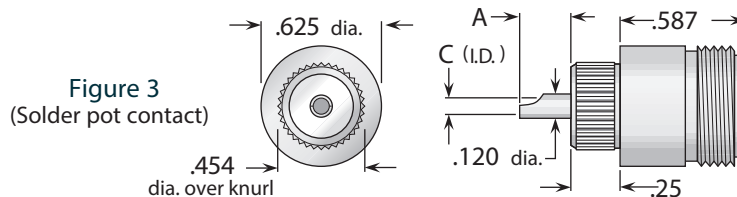
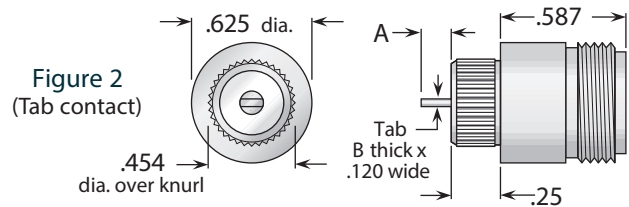
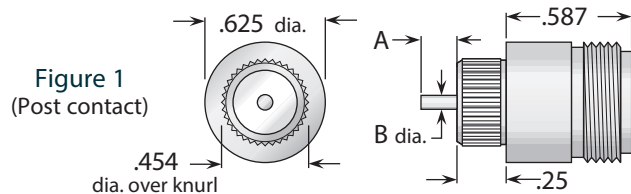
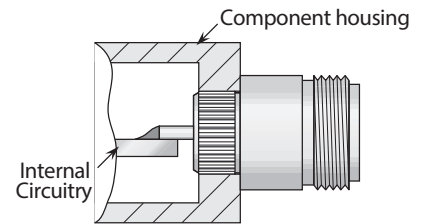
## Press Mount Jack Receptacles

### Delta PressMount Receptacles

These connectors eliminate the need for complicated mounting hole patterns and mounting hardware. They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength far greater than normal mating and unmating forces.

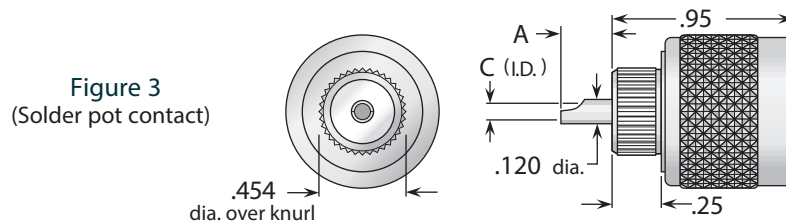
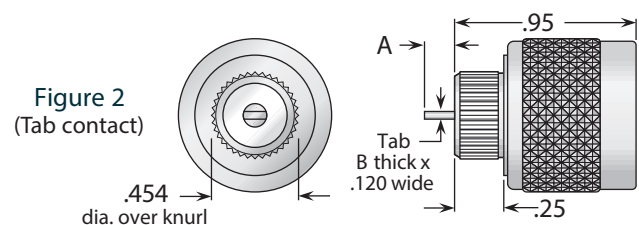
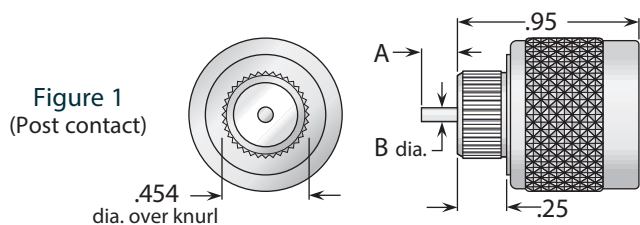
An integral shoulder provides a positive stop when mounting.

PressMounts can be used in packages as small as the outer diameter of the connector body.



| Figure | Dimensions |           | Min. Panel | Mounting Hole   | Plating |          | Delta P/N       |
|--------|------------|-----------|------------|-----------------|---------|----------|-----------------|
|        | A          | B         |            |                 | Body    | Contact  |                 |
| 1      | .110       | .050      | .200       | .450 ±.001 dia. | Nickel  | Gold (C) | 1120000N911-002 |
| 2      | .100       | .005/.008 | .200       | .450 ±.001 dia. | Nickel  | Gold (C) | 1120000N911-003 |
| 3      | .285       | .100      | .200       | .450 ±.001 dia. | Nickel  | Gold (C) | 1120000N911-004 |

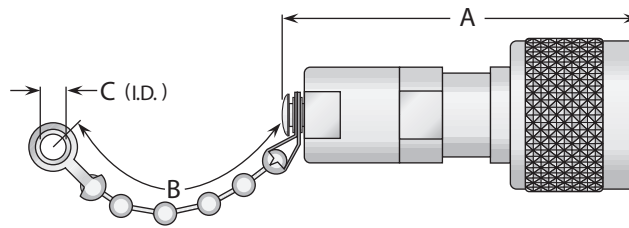
## Press Mount Plug Receptacles



| Figure | Dimensions |           | Min. Panel | Mounting Hole   | Plating |          | Delta P/N       |
|--------|------------|-----------|------------|-----------------|---------|----------|-----------------|
|        | A          | B         |            |                 | Body    | Contact  |                 |
| 1      | .110       | .050      | .200       | .450 ±.001 dia. | Nickel  | Gold (C) | 1124000N911-001 |
| 2      | .100       | .005/.008 | .200       | .450 ±.001 dia. | Nickel  | Gold (C) | 1124000N911-002 |
| 3      | .250       | .100      | .200       | .450 ±.001 dia. | Nickel  | Gold (C) | 1124000N911-000 |

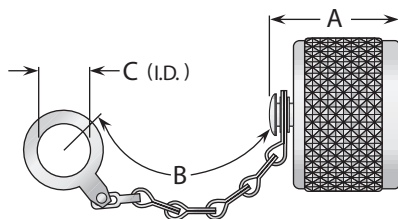
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.
- All items are available with other flange sizes and contact configurations.

## Resistive Plug Termination

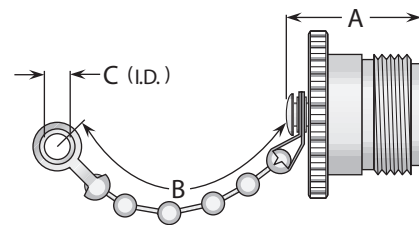


| Resistor          | Dimensions |      |      | Features | Plating |            | Delta P/N       |
|-------------------|------------|------|------|----------|---------|------------|-----------------|
|                   | A          | B    | C    |          | Body    | Contact    |                 |
| 50Ω ±1%, 1Watt    | 1.78       | —    | —    | No chain | Nickel  | Silver (C) | 1151000N000-003 |
| 50Ω ±1%, 1Watt    | 1.87       | 5.00 | .144 |          | Nickel  | Gold (C)   | 1151000N000-010 |
| 51Ω ±5%, 1/2 Watt | 1.61       | 3.50 | .144 |          | Nickel  | Silver (C) | 1131000N000-000 |
| 51Ω ±5%, 1/2 Watt | 1.67       | —    | —    | No chain | Nickel  | Silver (C) | 1131000N00A-000 |
| 51Ω ±5%, 1 Watt   | 1.87       | 3.75 | .144 |          | Nickel  | Silver (C) | 1151000N000-000 |
| 75Ω ±1%, 1 Watt   | 1.87       | 5.00 | .144 |          | Nickel  | Gold (C)   | 1151000N000-011 |

## Dust Caps



**Figure 1**  
(Shown with safety chain)

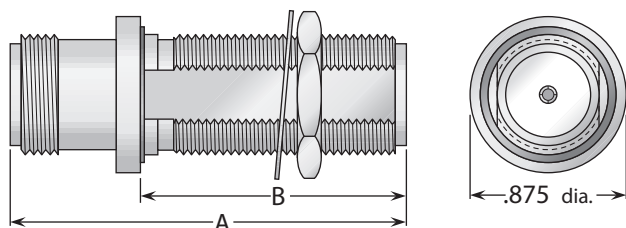


**Figure 2**  
(Shown with bead chain)

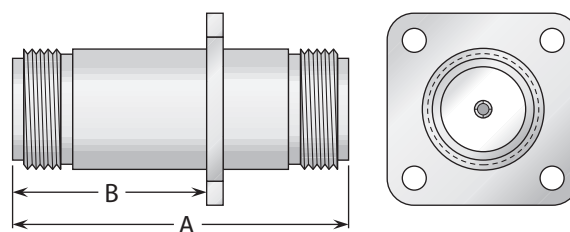
| Figure | Dimensions |      |      | Features                   | Plating |            | Delta P/N       |
|--------|------------|------|------|----------------------------|---------|------------|-----------------|
|        | A          | B    | C    |                            | Body    | Contact    |                 |
| 1      | .560       | 2.25 | .144 | Bead chain                 | Nickel  | —          | MX-913/U        |
| 1      | .560       | 2.50 | .144 | Bead chain                 | Silver  | —          | M39012/25-0011  |
| 1      | .560       | 3.75 | .635 | Safety chain               | Silver  | —          | M39012/25-0012  |
| 1      | .840       | 2.50 | .170 | Bead chain / shorting type | Nickel  | Silver (C) | 1132000N00C-002 |
| 2      | .720       | 3.50 | .144 | Bead chain                 | Nickel  | —          | 1133000N000-000 |
| 2      | .910       | 2.50 | .170 | Bead chain / shorting type | Nickel  | Silver (C) | 1133000N00C-000 |

- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.
- Caps and terminations are available with other chain styles and/or resistances.

## Bulkhead & Panel Mounted Jack - Jack Adapters (Connect Two Plugs)



**Figure 1**  
(Bulkhead mount, hermetically sealed)

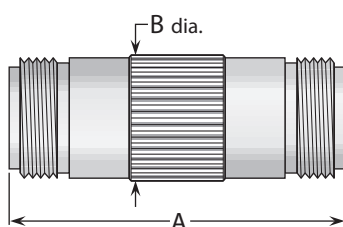


**Figure 2**  
(Panel mount)

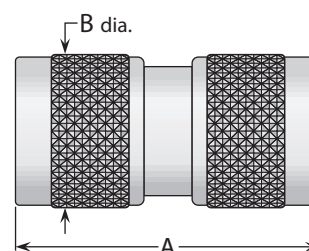
| Figure | Dimensions |       | Max. Panel | Mounting Figure | Plating |            | Delta P/N       |
|--------|------------|-------|------------|-----------------|---------|------------|-----------------|
|        | A          | B     |            |                 | Body    | Contact    |                 |
| 1      | 1.54       | .863  | .250       | 72              | Nickel  | Silver (C) | UG-30D/U        |
| 1      | 1.54       | .863  | .250       | 72              | Nickel  | Silver (C) | UG-30E/U        |
| 1      | 1.54       | .863  | .250       | 72              | Silver  | Gold (C)   | M55339/04-00030 |
| 1      | 2.06       | 1.375 | .750       | 72              | Nickel  | Silver (C) | 1126000N728-000 |
| 2      | 1.75       | 1.00  | —          | 33              | Nickel  | Silver (C) | 1125000N330-000 |

## Straight Adapters

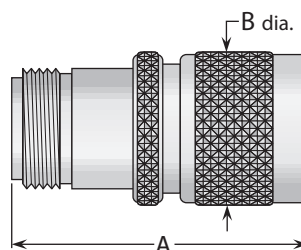
**Figure 1**  
(Straight jack-jack;  
connects two plugs)



**Figure 2**  
(Straight plug-plug;  
connects two jacks)



**Figure 3**  
(Straight jack-plug;  
connects one plug  
and one jack)

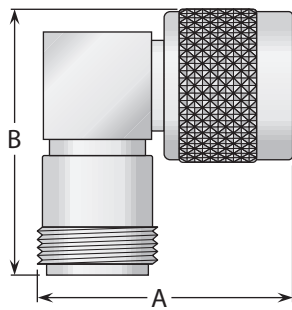


| Figure | Dimensions |      | Plating |            | Delta P/N         |
|--------|------------|------|---------|------------|-------------------|
|        | A          | B    | Body    | Contact    |                   |
| 1      | 1.75       | .660 | Nickel  | Silver (C) | UG-29B/U          |
| 1      | 1.75       | .660 | Silver  | Gold (C)   | M55339/07-00029   |
| 2      | 1.59       | .780 | Nickel  | Silver (C) | UG-57B/U          |
| 2      | 1.59       | .780 | Silver  | Gold (C)   | M55339/05-00057 * |
| 3      | 1.56       | .780 | Nickel  | Silver (C) | 1134000N000-000   |

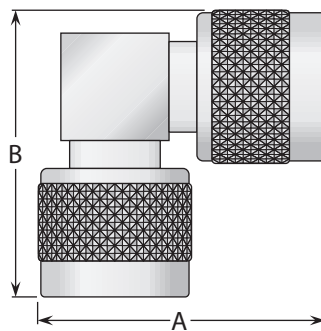
\* Lockwire holes in coupling nut.

(C) in contact plating column indicates captive contact. • See page 208 for mounting dimensions.  
See page 6 for alternate body plating information.

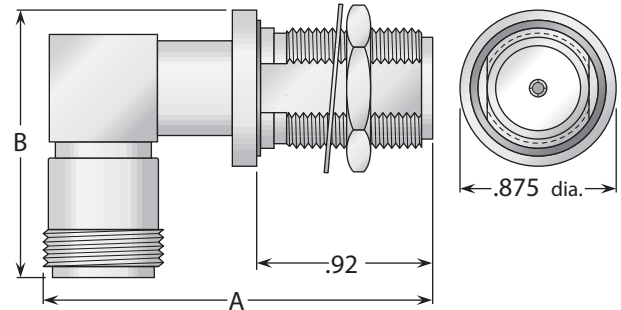
## Right Angle Adapters



**Figure 1**  
 (Right angle plug-jack;  
 connects one plug  
 and one jack)



**Figure 2**  
 (Right angle plug-plug;  
 connects two jacks)

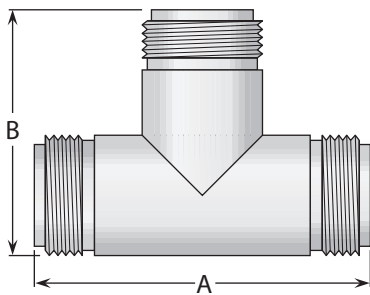


**Figure 3**  
 (Bulkhead mounted right angle jack-jack;  
 connects two plugs)

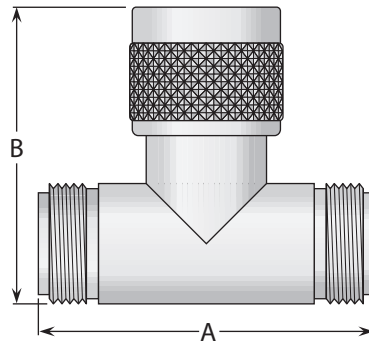
| Figure | Dimensions |      | Max. Panel | Mounting Figure | Plating |            | Delta P/N         |
|--------|------------|------|------------|-----------------|---------|------------|-------------------|
|        | A          | B    |            |                 | Body    | Contact    |                   |
| 1      | 1.30       | 1.38 | —          | —               | Nickel  | Silver (C) | UG-27C/U          |
| 1      | 1.30       | 1.38 | —          | —               | Nickel  | Gold (C)   | UG-27D/U          |
| 1      | 1.30       | 1.38 | —          | —               | Silver  | Gold (C)   | M55339/03-00027 * |
| 2      | 1.39       | 1.39 | —          | —               | Nickel  | Silver (C) | 1137000N000-000   |
| 3      | 2.13       | 1.36 | .250       | 72              | Nickel  | Gold (C)   | UG-202A/U         |

\* Lockwire holes in coupling nut.

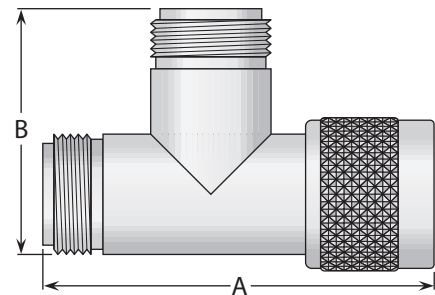
## Tee Adapters



**Figure 1**  
 (Tee jack-jack-jack;  
 connects three plugs)



**Figure 2**  
 (Tee jack-plug-jack;  
 connects two plugs and one jack)



**Figure 3**  
 (Tee jack-jack-plug;  
 connects two plugs and one jack)

| Figure | Dimensions |      | Plating |            | Delta P/N       |
|--------|------------|------|---------|------------|-----------------|
|        | A          | B    | Body    | Contact    |                 |
| 1      | 1.75       | 1.22 | Nickel  | Silver (C) | UG-28A/U        |
| 1      | 1.75       | 1.22 | Silver  | Gold (C)   | M55339/06-00028 |
| 2      | 1.75       | 1.47 | Nickel  | Silver (C) | UG-107B/U       |
| 2      | 1.75       | 1.47 | Silver  | Gold (C)   | M55339/06-00001 |
| 3      | 2.03       | 1.22 | Nickel  | Gold (C)   | 1149000N001-001 |

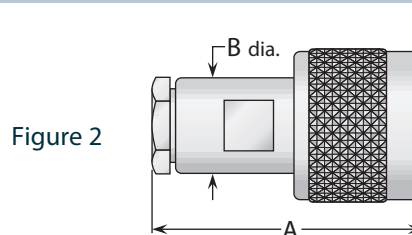
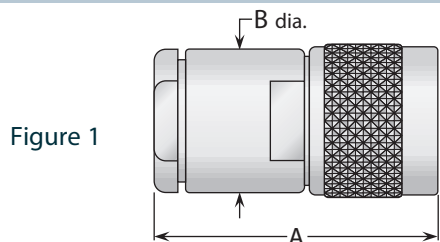
- (C) in contact plating column indicates captive contact.
- See page 208 for mounting dimensions.
- See page 6 for alternate body plating information.

## N70 Configurations

|                                              |    |
|----------------------------------------------|----|
| Straight Cable Plugs .....                   | 89 |
| Straight Cable Jacks .....                   | 89 |
| Bulkhead Cable Jacks .....                   | 89 |
| Panel Jack Receptacles (square flange) ..... | 90 |

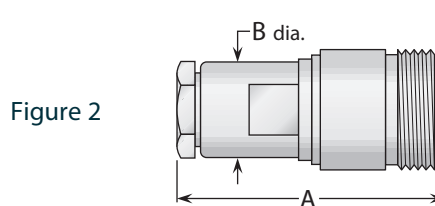
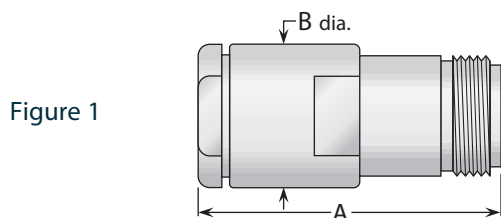
|                                          |    |
|------------------------------------------|----|
| Right Angle Panel Jack Receptacles ..... | 90 |
| Panel Plug Receptacles.....              | 90 |
| Bulkhead Jack Receptacles .....          | 90 |
| In-Series Adapters .....                 | 91 |

### Straight Plug - Military Clamp For Flexible Cable



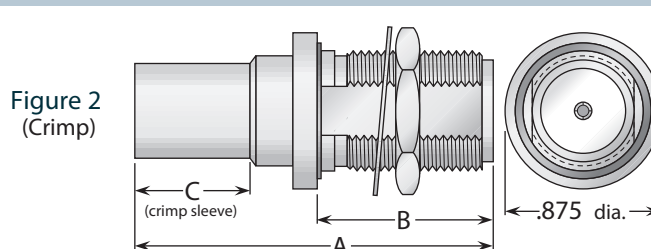
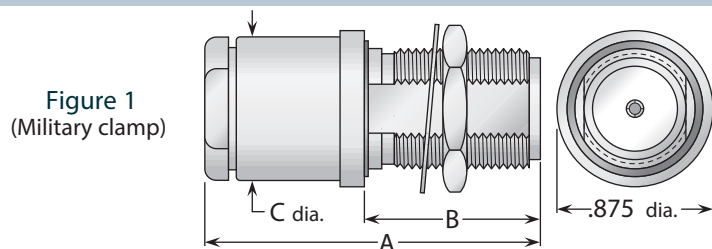
| Cable Group | Figure | Dimensions |      | Plating |         | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|--------|------------|------|---------|---------|-----------------|------------------------------|
|             |        | A          | B    | Body    | Contact |                 |                              |
| 2B, 3B      | 1      | 1.80       | .690 | Nickel  | Silver  | UG-94A/U        | C/01                         |
| 7           | 2      | 1.38       | .500 | Nickel  | Silver  | 1801021N000-000 | A/02                         |

### Straight Jack - Military Clamp For Flexible Cable



| Cable Group | Figure | Dimensions |      | Plating |         | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|--------|------------|------|---------|---------|-----------------|------------------------------|
|             |        | A          | B    | Body    | Contact |                 |                              |
| 2B, 3B      | 1      | 1.88       | .690 | Nickel  | Gold    | UG-95A/U        | C/08                         |
| 7           | 2      | 1.41       | .500 | Nickel  | Silver  | 1808021N000-000 | A/02                         |

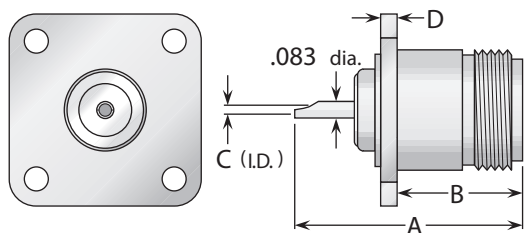
### Bulkhead Jacks - For Flexible Cable



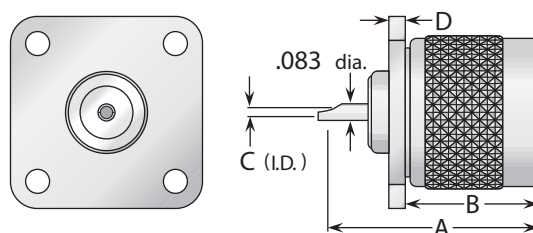
| Cable Group | Fig. | Dimensions |      |      | Mounting Figure | Max. Panel | Plating |            | Delta P/N       | Assembly Procedure/Trim Code |
|-------------|------|------------|------|------|-----------------|------------|---------|------------|-----------------|------------------------------|
|             |      | A          | B    | C    |                 |            | Body    | Contact    |                 |                              |
| 2B, 3B      | 1    | 1.84       | .920 | .690 | 72              | .250       | Nickel  | Gold       | 1816003N720-000 | C/08                         |
| 7           | 1    | 1.47       | .920 | .500 | 72              | .250       | Nickel  | Silver (C) | 1816021N721-000 | A/14                         |
| 2B, 3B      | 2    | 1.84       | .920 | .600 | 72              | .250       | Nickel  | Gold       | 1819003N720-000 | B/03                         |
| 7           | 2    | 1.59       | .920 | .500 | 72              | .250       | Nickel  | Silver     | 1819020N720-000 | B/14                         |

- See page 209 for cable groups.
- Assembly procedures start on page 210.
- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

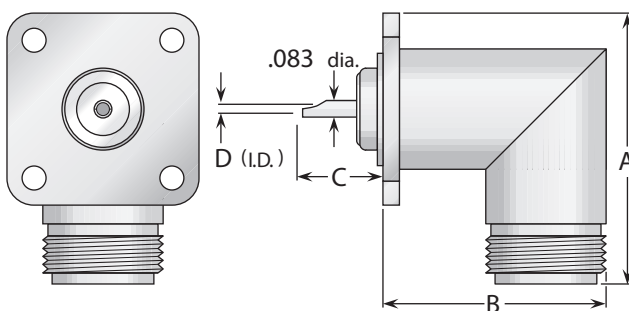
## Panel Receptacle - Solder Pot Contact



**Figure 1**  
(Straight jack receptacle)



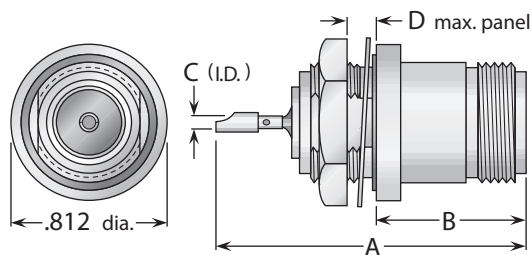
**Figure 2**  
(Straight plug receptacle)



**Figure 3**  
(Right angle jack receptacle)

| Figure | Dimensions |      |      |      | Mounting Figure | Plating |            | Delta P/N       |
|--------|------------|------|------|------|-----------------|---------|------------|-----------------|
|        | A          | B    | C    | D    |                 | Body    | Contact    |                 |
| 1      | 1.13       | .660 | .062 | .080 | 33              | Nickel  | Gold (C)   | 1813000N331-000 |
| 2      | 1.10       | .720 | .062 | .080 | 33              | Nickel  | Silver (C) | 1823000N331-001 |
| 3      | 1.41       | 1.16 | .300 | .050 | 33              | Nickel  | Gold (C)   | 1815000N330-000 |

## Bulkhead Receptacle - Solder Pot Contact



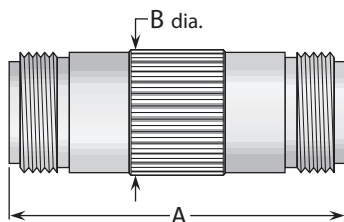
**Figure 1**  
(Front mount, hermetically sealed)

| Figure | Dimensions |      |      |      | Mounting Figure | Plating |            | Delta P/N       |
|--------|------------|------|------|------|-----------------|---------|------------|-----------------|
|        | A          | B    | C    | D    |                 | Body    | Contact    |                 |
| 1      | 1.62       | .707 | .099 | .250 | 72              | Nickel  | Silver (C) | 1820000N728-000 |

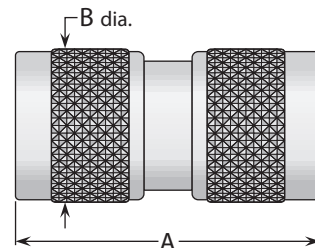
- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.

## Straight Adapters

**Figure 1**  
(Straight jack-jack;  
connects two plugs)



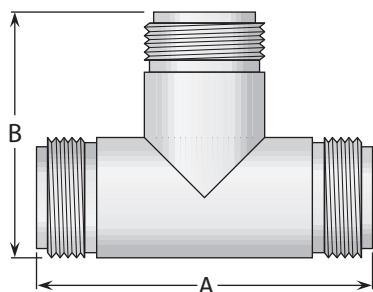
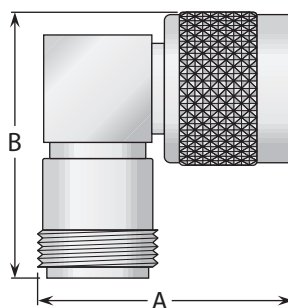
**Figure 2**  
(Straight plug-plug;  
connects two jacks)



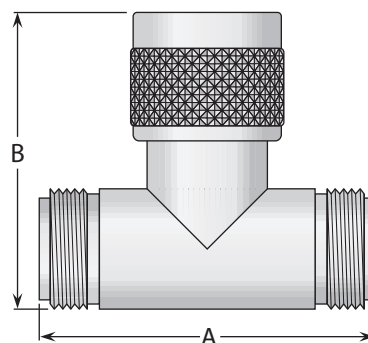
| Figure | Dimensions |      | Plating |          | Delta P/N       |
|--------|------------|------|---------|----------|-----------------|
|        | A          | B    | Body    | Contact  |                 |
| 1      | 1.75       | .660 | Nickel  | Gold (C) | 1828000N000-000 |
| 2      | 1.59       | .780 | Nickel  | Gold (C) | 1827000N000-000 |

## Right Angle & Tee Adapters

**Figure 1**  
(Right angle jack-plug;  
connects one plug and one jack)



**Figure 2**  
(Tee jack-jack-jack;  
connects three plugs)



**Figure 3**  
(Tee jack-plug-jack;  
connects two plugs and one jack)

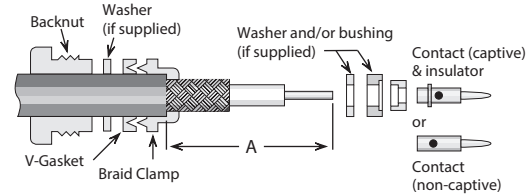
| Figure | Dimensions |      | Plating |          | Delta P/N       |
|--------|------------|------|---------|----------|-----------------|
|        | A          | B    | Body    | Contact  |                 |
| 1      | 1.30       | 1.38 | Nickel  | Gold (C) | 1829000N000-000 |
| 2      | 1.75       | 1.22 | Nickel  | Gold (C) | 1838000N000-000 |
| 3      | 1.75       | 1.47 | Nickel  | Gold (C) | 1830000N000-000 |

• (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

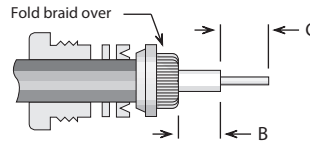
## Assembly Procedure A

- 1) Trim cable jacket to dimension A.

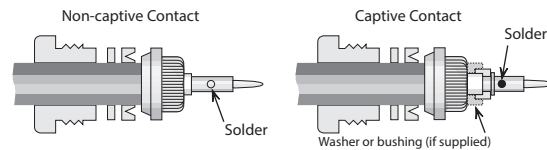
Slide backnut, washer, V-gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.



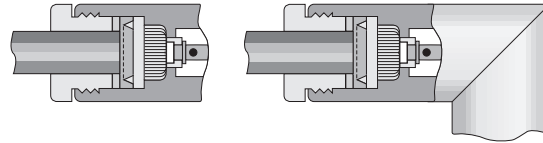
- 2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with step of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.



- 3) If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Assemble rear bushing or washer (if supplied), rear insulator (if captive contact) and contact, and solder contact to center conductor. Rear of contact should be flush with cable dielectric end. For right angle connectors with access cap, omit this step entirely.



- 4) Insert prepared cable and hardware into body and tighten backnut. For right angle connectors with access cap, solder center conductor into slot in contact and tighten access cap.

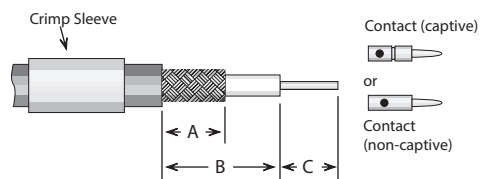


## Trim Codes For Assembly Procedure A

| Code | A            | B            | C            | Code | A            | B            | C            |
|------|--------------|--------------|--------------|------|--------------|--------------|--------------|
| A/01 | .375 (3/8)   | .047 (3/64)  | .203 (13/64) | A/20 | .375 (3/8)   | .047 (3/64)  | .172 (11/64) |
| A/02 | .375 (3/8)   | .109 (7/64)  | .203 (13/64) | A/21 | .500 (1/2)   | .313 (5/16)  | .172 (11/64) |
| A/03 | .438 (7/16)  | .250 (1/4)   | .188 (3/16)  | A/22 | .375 (3/8)   | .188 (3/16)  | .141 (9/64)  |
| A/04 | .281 (9/32)  | .047 (3/64)  | .125 (1/8)   | A/23 | .438 (7/16)  | .078 (5/64)  | .172 (11/64) |
| A/05 | .313 (5/16)  | .125 (1/8)   | .109 (7/64)  | A/24 | .500 (1/2)   | .094 (3/32)  | .141 (9/64)  |
| A/06 | .594 (19/32) | .391 (25/64) | .156 (5/32)  | A/25 | .438 (7/16)  | .141 (9/64)  | .172 (11/64) |
| A/07 | .375 (3/8)   | .047 (3/64)  | .125 (1/8)   | A/26 | .625 (5/8)   | .281 (9/32)  | .250 (1/4)   |
| A/08 | .281 (9/32)  | .109 (7/64)  | .094 (3/32)  | A/27 | .688 (11/16) | .281 (9/32)  | .125 (1/8)   |
| A/09 | .344 (11/32) | .109 (7/64)  | .094 (3/32)  | A/28 | .656 (21/32) | .297 (19/64) | .250 (1/4)   |
| A/10 | .406 (13/32) | .109 (7/64)  | .203 (13/64) | A/29 | .688 (11/16) | .125 (1/8)   | .313 (5/16)  |
| A/11 | .500 (1/2)   | .281 (9/32)  | .156 (5/32)  | A/30 | .688 (11/16) | .469 (15/32) | .156 (5/32)  |
| A/12 | .343         | .040         | .219         | A/31 | .700 (21/32) | .453 (29/64) | .250 (1/4)   |
| A/13 | .375 (3/8)   | .125 (1/8)   | .156 (5/32)  | A/32 | .313 (5/16)  | .078 (5/64)  | .188 (3/16)  |
| A/14 | .355         | .090         | .188 (3/16)  | A/33 | .250 (1/4)   | .078 (5/64)  | .094 (3/32)  |
| A/15 | .425         | .094 (3/32)  | .259         | A/34 | .250 (1/4)   | .062 (1/16)  | .109 (7/64)  |
| A/16 | .328 (21/64) | .094 (3/32)  | .188 (3/16)  | A/35 | .837         | .575         | .150         |
| A/17 | .375 (3/8)   | .109 (7/64)  | .125 (1/8)   | A/36 | .450         | .250         | .150         |
| A/18 | .375 (3/8)   | .062 (1/16)  | .172 (11/64) | A/37 | .281         | .038         | .188         |
| A/19 | .375 (3/8)   | .188 (3/16)  | .094 (3/32)  | A/38 | .281         | .069         | .156         |

## Assembly Procedure B

- 1) Trim cable per chart. Slide crimp sleeve back onto cable.



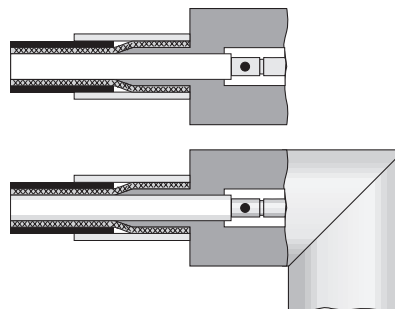
- 2) If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Solder contact onto center conductor; back of contact flush with trimmed end of cable dielectric (omit this step for right angle connectors with access caps). Flare cut end of braid slightly by rotating dielectric.



- 3) Insert cable/contact into rear of body, with all braid wires on outside of crimp tail.
- For captive contact connectors, push cable in until contact snaps into insulator.
  - For noncaptive contact connectors, push cable in until cable dielectric bottoms in connector.
  - For right angle or tee connectors with access caps, push cable in until end of braid touches connector body shoulder, and cable center conductor rests in contact slot.

Trim excess braid wires even with shoulder of body. Slide crimp sleeve forward until flush with body and crimp (see page 211 for hex die sizes).

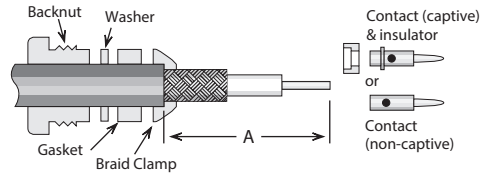
For right angle or tee connectors with access caps: Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.



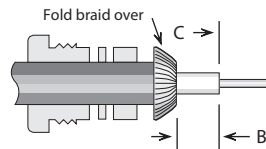
### Trim Codes For Assembly Procedure B

| Code | A    | B    | C    | Code | A    | B    | C    |
|------|------|------|------|------|------|------|------|
| B/01 | .320 | .470 | .140 | B/20 | .250 | .375 | .156 |
| B/02 | .422 | .578 | .172 | B/21 | .425 | .550 | .156 |
| B/03 | .406 | .500 | .187 | B/22 | .375 | .500 | .156 |
| B/04 | .285 | .505 | .140 | B/23 | .281 | .469 | .125 |
| B/05 | .335 | .460 | .140 | B/24 | .250 | .700 | .109 |
| B/06 | .187 | .437 | .219 | B/25 | .343 | .775 | .125 |
| B/07 | .422 | .610 | .156 | B/26 | .343 | .437 | .109 |
| B/08 | .422 | .562 | .219 | B/27 | .313 | .437 | .187 |
| B/09 | .313 | .610 | .203 | B/28 | .219 | .271 | .078 |
| B/10 | .280 | .436 | .187 | B/29 | .200 | .320 | .060 |
| B/11 | .430 | .542 | .156 | B/30 | .500 | .650 | .219 |
| B/12 | .300 | .434 | .156 | B/31 | .350 | .840 | .150 |
| B/13 | .300 | .447 | .156 | B/32 | .175 | .260 | .095 |
| B/14 | .420 | .645 | .187 | B/33 | .195 | .270 | .045 |
| B/15 | .300 | .420 | .120 | B/34 | .150 | .250 | .105 |
| B/16 | .312 | .609 | .125 | B/35 | .195 | .280 | .170 |
| B/17 | .250 | .500 | .156 | B/36 | .150 | .325 | .090 |
| B/18 | .437 | .562 | .109 | B/37 | .195 | .295 | .075 |
| B/19 | .343 | .437 | .156 | B/38 | .150 | .225 | .095 |
|      |      |      |      | B/39 | .250 | .300 | .135 |

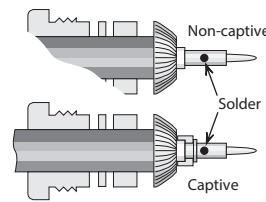
## Assembly Procedure C



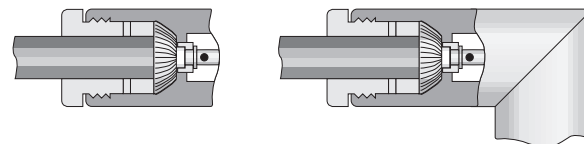
- 1) Trim cable jacket to dimension A. Slide backnut, washer, gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.



- 2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with edge of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.



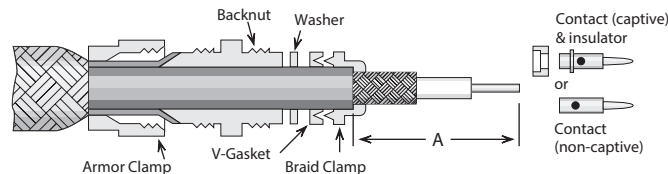
- 3) If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Assemble rear insulator (if captive contact) and contact, and solder contact to center conductor. Rear of contact should be flush with cable dielectric end.



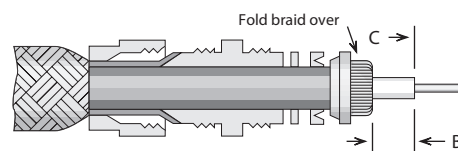
- 4) Insert prepared cable and hardware into body and tighten backnut. For right angle connectors with access cap, solder cable center conductor to slot in contact and tighten access cap.

| Trim Codes |              |             |             |
|------------|--------------|-------------|-------------|
| Code       | A            | B           | C           |
| C/01       | .656 (21/32) | .141 (9/64) | .250 (1/4)  |
| C/02       | .500 (1/2)   | .125 (1/8)  | .250 (1/4)  |
| C/03       | .450         | .136        | .187        |
| C/04       | .375 (3/8)   | .109 (7/64) | .125 (1/8)  |
| C/05       | .375 (3/8)   | .062 (1/16) | .250 (1/4)  |
| C/06       | .500 (1/2)   | .188 (3/16) | .125 (1/8)  |
| C/07       | .575         | .438        | .094        |
| C/08       | .625 (5/8)   | .141 (9/64) | .219 (7/32) |

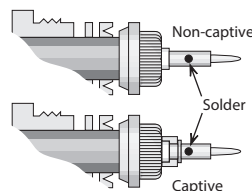
## Assembly Procedure D



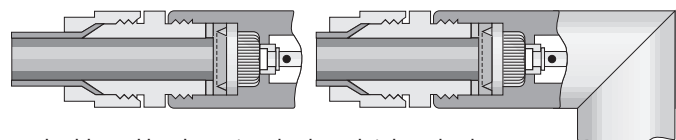
- 1) Slide armor clamp over cable. Push armor back to expose cable end. Slide backnut, washer (if supplied), gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp. Trim cable jacket to dimension A.



- 2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with edge of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.



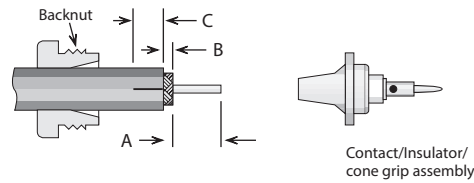
- 3) Assemble rear insulator (if captive contact) and contact, and solder contact to center conductor. Rear of contact should be flush with cable dielectric end.



- 4) Insert prepared cable and hardware into body and tighten backnut. Trim armor to fit between armor clamp and braid clamp. Tighten armor clamp.

| Trim Codes |              |             |              |
|------------|--------------|-------------|--------------|
| Code       | A            | B           | C            |
| D/01       | .375 (3/8)   | .047 (3/64) | .250 (1/4)   |
| D/02       | .500 (1/2)   | .188 (3/16) | .219 (7/32)  |
| D/03       | .344 (11/32) | .047 (3/64) | .219 (7/32)  |
| D/04       | .313 (5/16)  | .047 (3/64) | .172 (11/64) |
| D/05       | .625 (5/8)   | .281 (9/32) | .250 (1/4)   |
| D/06       | .313 (5/16)  | .062 (1/16) | .109 (7/64)  |

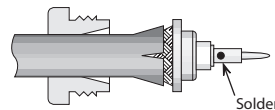
## Assembly Procedure E



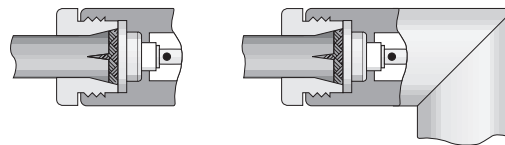
- 1) Slide backnut onto cable as shown. Trim cable to dimensions A and B as shown. Slit jacket to dimension C in two places, 180° apart.

Trim Codes

| Code | A           | B           | C           |
|------|-------------|-------------|-------------|
| E/01 | .250 (1/4)  | .141 (9/64) | .313 (5/16) |
| E/02 | .219 (7/32) | .063 (1/16) | .250 (1/4)  |
| E/03 | .250 (1/4)  | .031 (1/32) | .250 (1/4)  |



- 2) Slide cone/insulator/contact assembly under braid until braid is flush with shoulder. Solder contact to center conductor.

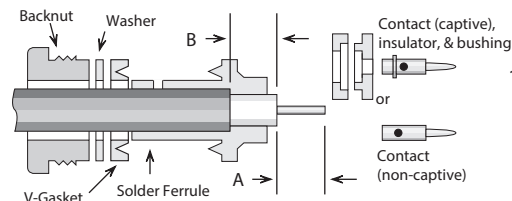


- 3) Insert prepared cable and hardware into body; tighten assembly by holding nut stationary and turning body.

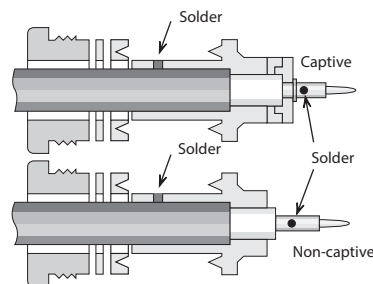
## Assembly Procedure F

Trim Codes

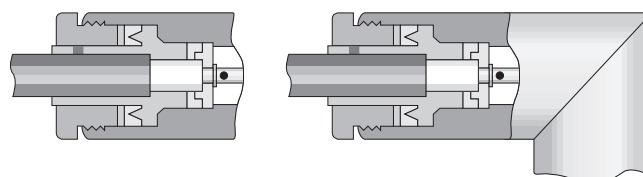
| Code | A           | B            |
|------|-------------|--------------|
| F/01 | .250 (1/4)  | .219 (7/32)  |
| F/02 | .250 (1/4)  | .172 (11/64) |
| F/03 | .188 (3/16) | .188 (3/16)  |
| F/04 | .109 (7/64) | .265 (17/64) |
| F/05 | .156 (5/32) | .250 (1/4)   |
| F/06 | .219 (7/32) | .250 (1/4)   |
| F/07 | .156 (5/32) | .172 (11/64) |
| F/08 | .109 (7/64) | .219 (7/32)  |



- 1) Trim cable per chart. Slide backnut, washer, v-gasket, and solder ferrule onto cable. Trimmed end of cable jacket should bottom on step in solder ferrule.

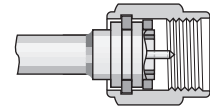
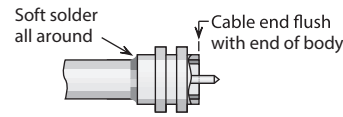
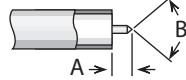
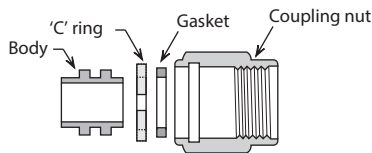


- 2) Solder ferrule to cable jacket as shown. Retrim cable dielectric to proper length if it has extruded from soldering heat. Slide bushing and rear insulator over cable dielectric if captive contact. Solder contact onto center conductor; back of contact flush with trimmed end of cable dielectric.



- 3) Insert prepared cable and hardware into body and tighten backnut.

## Assembly Procedure G



- 1) Trim cable as shown. Remove any burrs from jacket and center conductor.

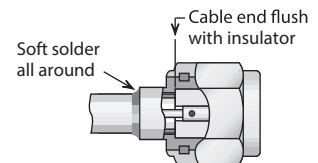
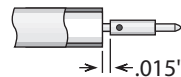
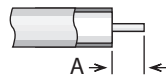
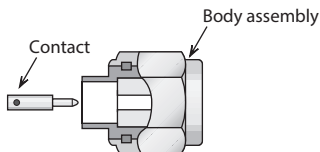
- 2) Soft solder cable jacket to body, making sure that end of cable is flush with end of body. After solder joint has cooled, retrim any protruding dielectric flush with end of body.

- 3) Assemble 'C' ring and gasket to body. Compress 'C' ring and slide body assembly into coupling nut until ring is seated in groove.

Trim Codes

| Code | A    | B      |
|------|------|--------|
| G/01 | .090 | 70-90° |

## Assembly Procedure H



- 1) Trim cable as shown. Remove any burrs from jacket and center conductor.

- 2) Solder contact to center conductor, fixturing to maintain gap as shown. Remove any excess solder from outside of contact.

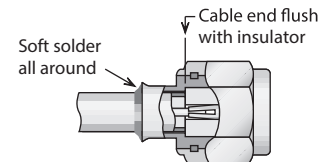
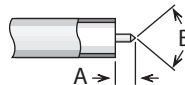
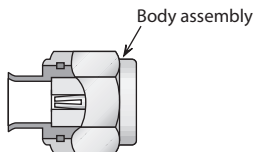
- 3) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

Plug body assembly and contact shown; procedure is identical for jack connectors.

Trim Codes

| Code | A    |
|------|------|
| H/01 | .090 |
| H/02 | .060 |
| H/03 | .115 |
| H/04 | .150 |

## Assembly Procedure I



- 1) Trim cable as shown. Remove any burrs from jacket and center conductor.

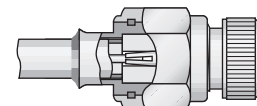
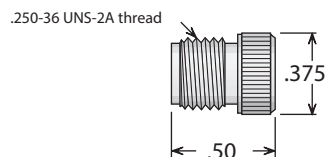
- 2) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

Plug body assembly and contact shown; procedure is identical for jack connectors.

Trim Codes

| Code | A    | B      |
|------|------|--------|
| I/01 | .090 | 70-90° |

### Cable Positioner



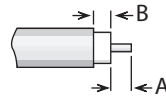
For .085" Cable:  
P/N 63-10072-2

For .141" Cable:  
P/N 63-10072-1

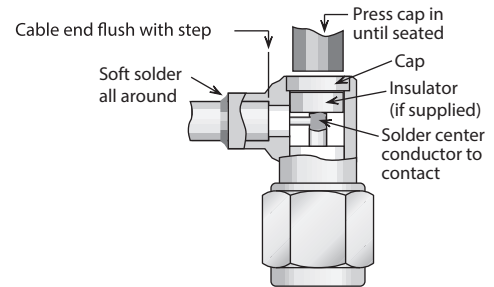
Using this positioner in the final step of assembly procedure H or I (for plugs only) will ensure that the contact and insulator are retained in the proper position to meet MIL-C-39012 requirements. The positioner should be screwed finger-tight into the mating end of the connector (as shown at right) before the cable jacket is soldered to the body assembly.

## Assembly Procedure J

| Trim Codes |      |      |
|------------|------|------|
| Code       | A    | B    |
| J/01       | .109 | .047 |
| J/02       | .059 | .039 |
| J/03       | .059 | .079 |
| J/04       | .050 | .059 |

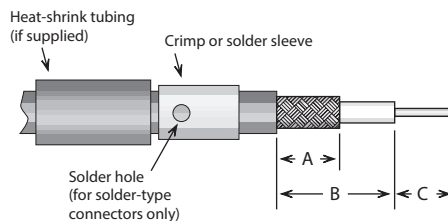


- 1) Trim cable as shown. Remove any burrs from jacket and center conductor.

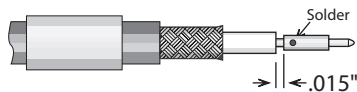


- 2) Soft solder cable jacket to body, making sure that end of cable is flush with step in body. Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.

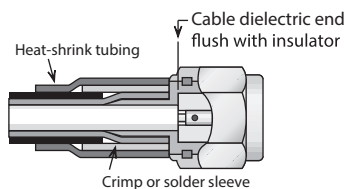
## Assembly Procedure K



- 1) Trim cable per chart. Slide crimp (or solder) sleeve and heat-shrink tubing (if supplied) back onto cable.



- 2) Solder contact onto center conductor, fixturing to maintain gap as shown. Flare cut end of braid slightly by rotating dielectric.



- 3) Insert cable/contact into rear of body, with all braid wires on outside of crimp tail. Push cable in until cable dielectric bottoms in connector. Trim excess braid wires even with shoulder of body. Slide crimp sleeve forward until flush with body and crimp (see page 211 for hex die sizes). (For solder-type connectors, solder braid to body and sleeve through hole in sleeve.) Slide heat-shrink tubing into place and shrink with hot-air gun.

Plug body assembly and contact shown; procedure is identical for jack connectors.

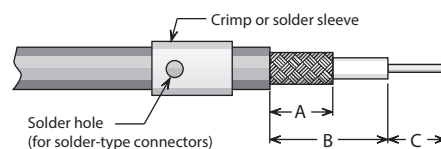
| Trim Codes |      |      |      |      |      |      |      |
|------------|------|------|------|------|------|------|------|
| Code       | A    | B    | C    | Code | A    | B    | C    |
| K/01       | .250 | .270 | .110 | K/07 | .220 | .290 | .135 |
| K/02       | .200 | .270 | .140 | K/08 | .420 | .620 | .090 |
| K/03       | .225 | .290 | .110 | K/09 | .090 | .135 | .160 |
| K/04       | .225 | .330 | .110 | K/10 | .250 | .415 | .115 |
| K/05       | .250 | .330 | .110 | K/11 | .250 | .400 | .150 |
| K/06       | .250 | .315 | .095 | K/12 | .282 | .390 | .140 |

## Assembly Procedure L

### Trim Codes

| Code | A    | B    | C    |
|------|------|------|------|
| L/01 | .250 | .438 | .109 |
| L/02 | .125 | .219 | .109 |
| L/03 | .234 | .344 | .109 |
| L/04 | .195 | .270 | .050 |
| L/05 | .095 | .155 | .050 |
| L/06 | .281 | .390 | .070 |

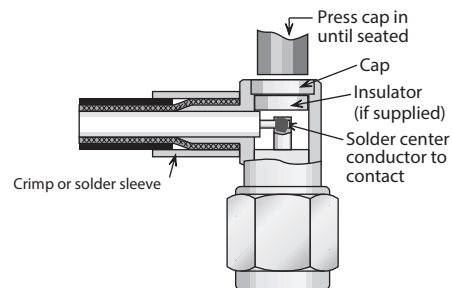
- 1) Trim cable per chart. Slide crimp (or solder) sleeve onto cable.



- 2) Insert cable into rear of body, with all braid wires on outside of crimp tail. Push cable in until end of braid touches connector body shoulder and center conductor rests in contact slot.

Slide crimp sleeve forward until flush with body and crimp (see page 211 for hex die sizes). (For solder-type connectors, solder braid to body and sleeve through hole in sleeve.)

Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.

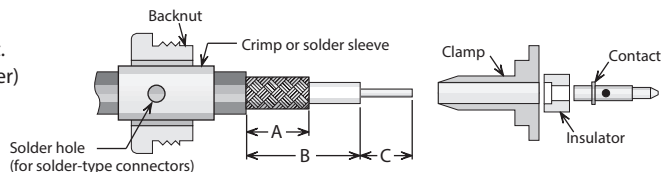


## Assembly Procedure M

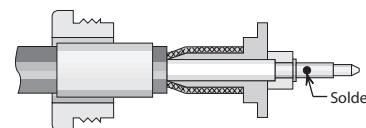
### Cable Trim Codes

| Code | A    | B    | C    |
|------|------|------|------|
| M/01 | .281 | .390 | .140 |

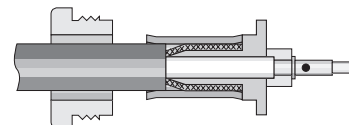
- 1) Trim cable per chart. Slide crimp (or solder) sleeve and backnut onto cable.



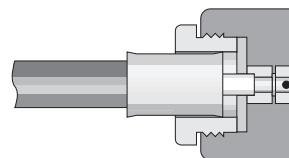
- 2) Flare cut end of braid slightly by rotating dielectric. Insert cable into rear of clamp, with all braid wires on outside of crimp tail. Slide insulator over cable dielectric until it is flush with front of clamp, and cable insulation bottoms inside insulator. Slide contact onto center conductor, with contact shoulder flush with front of insulator. Solder contact to center conductor.



- 3) Slide crimp sleeve forward until flush with clamp shoulder; crimp as close to shoulder as possible. (see page 211 for hex die sizes). (For solder-type connectors, solder braid to body and sleeve through hole in sleeve.)



- 4) Insert prepared cable into back of body. Slide nut forward and tighten to 12-15 inch-pounds.



## Crimp Tools For Flexible Cable

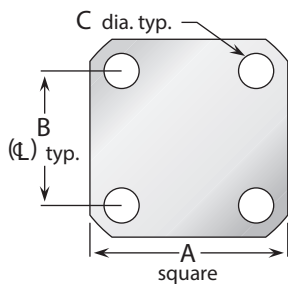


\* For Delta cable groups. See MIL-PRF-39012 specifications for die sizes used with M39012 cable groups.

Frame only—P/N M22520/5-01 —Use with interchangeable dies listed below.

| Cable Group* | Hex Die Size        | Die Set P/N | Closure |
|--------------|---------------------|-------------|---------|
| 2, 3, 4      | .429 hex, .400 wide | M22520/5-61 | A       |
| 5, 6         | .213 hex, .400 wide | M22520/5-19 | B       |
| 7            | .255 hex, .400 wide | M22520/5-19 | A       |
| 9            | .128 hex, .400 wide | M22520/5-35 | B       |
| 10           | .151 hex, .400 wide | M22520/5-37 | B       |
| 11           | .105 hex, .400 wide | M22520/5-33 | B       |

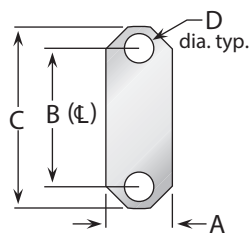
## Connector Flanges (Panel Mounted Connectors)



4-hole flanges

| Figure | A      | B     | C         |
|--------|--------|-------|-----------|
| 04     | 1/2    | .360  | .089      |
| 05     | 1/2    | .340  | .102      |
| 07     | 11/16  | .500  | #3-56 tap |
| 08     | 11/16  | .500  | .136      |
| 09     | 11/16  | .500  | .125      |
| 10     | 11/16  | .500  | .120      |
| 12     | 11/16  | .500  | .109      |
| 18     | 3/4    | .531  | .136      |
| 26     | 1      | .718  | #6-32 tap |
| 27     | 1      | .718  | #4-40 tap |
| 30     | 1      | .718  | .166      |
| 32     | 1      | .718  | .136      |
| 32A    | 1      | .718  | .136*     |
| 33     | 1      | .718  | .125      |
| 34     | 1 3/32 | .812  | .150      |
| 36     | 1 3/16 | .906  | #6-32 tap |
| 39     | 1 3/16 | .906  | .152      |
| 40     | 1 3/16 | .906  | .125      |
| 45     | 2      | 1.437 | .257      |
| 91     | .375   | .250  | .067      |
| 91A    | .375   | .232  | .093      |

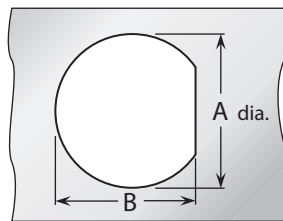
\* Countersunk to .245 dia.



2-hole flanges

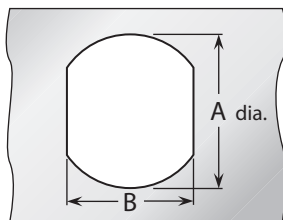
| Figure | A    | B     | C    | D    |
|--------|------|-------|------|------|
| 92     | .223 | .481  | .625 | .102 |
| 92A    | .260 | .481  | .625 | .102 |
| 95     | .640 | 1.015 | 1.30 | .125 |

## Panel Cutouts (Bulkhead Mounted Connectors)



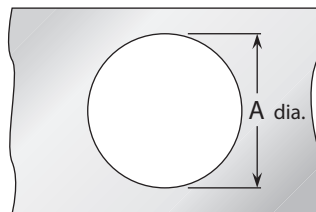
D-Hole

| Figure | A    | B    |
|--------|------|------|
| 51     | .755 | .723 |
| 54     | .630 | .598 |
| 55     | .630 | .583 |
| 57     | .557 | .531 |
| 59     | .505 | .473 |
| 62     | .442 | .410 |
| 63     | .407 | .362 |
| 65     | .380 | .348 |
| 66     | .319 | .292 |
| 67     | .255 | .236 |
| 68     | .195 | .176 |



Double D-Hole

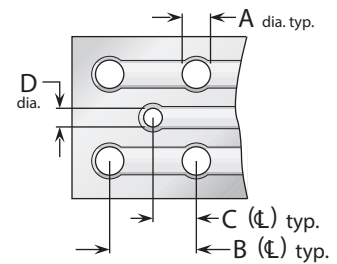
| Figure | A    | B    |
|--------|------|------|
| 69     | .755 | .692 |
| 72     | .630 | .536 |
| 75     | .380 | .341 |
| 84     | .319 | .278 |



Round Hole

| Figure | A    |
|--------|------|
| 82     | .255 |
| 89     | .380 |

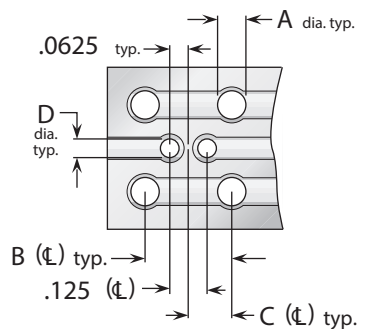
## P.C. Board Drilling



(PCB traces are shown for illustrative purpose only, and are not representative of actual circuitry.)

Coaxial connectors

| Figure | A    | B    | C    | D    |
|--------|------|------|------|------|
| PCB01  | .067 | .400 | .200 | .045 |
| PCB02  | .045 | .500 | .250 | .045 |
| PCB03  | .067 | .300 | .150 | .035 |
| PCB05  | .067 | .200 | .100 | .055 |
| PCB06  | .067 | .200 | .100 | .045 |
| PCB07  | .045 | .177 | .088 | .045 |
| PCB08  | .032 | .100 | .050 | .032 |



(PCB traces are shown for illustrative purpose only, and are not representative of actual circuitry.)

Twinax Connectors

| Figure | A    | B    | C    | D    |
|--------|------|------|------|------|
| PCB04  | .045 | .500 | .250 | .045 |

## Delta Cable Groups

| Group | Cables                                                       |
|-------|--------------------------------------------------------------|
| 1     | 1A RG-5, 5A, 5B, 21, 21A; M17/73, /162                       |
|       | 1B RG-6, 6A; M17/2                                           |
|       | 1C RG-143, 143A, 212, 222; M17/73, /112, /162                |
| 2     | 2A RG-8, 8A, 213; M17/74                                     |
|       | 2B RG-11, 11A; M17/6                                         |
| 3     | 3A RG-9, 9A, 9B, 214; M17/75                                 |
|       | 3B RG-13A, 216; M17/77                                       |
|       | 3C RG-225; M17/127                                           |
| 4     | RG-393; M17/127                                              |
| 5     | RG-58, 58A, 58C, 141, 141A; M17/28, /111                     |
| 6     | 6A RG-55A, 142, 142A, 223, 400; M17/60, /84, /128            |
|       | 6B RG-55, 55B, 142B; M17/60, /84                             |
| 7     | 7A RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210; M17/29, /30, /97 |
|       | 7B RG-71, 71A, 71B; M17/90                                   |
| 8     | 8A RG-122; M17/54                                            |
|       | 8B RG-180, 180A, 180B, 195; M17/95, /137                     |
| 9     | 9A RG-174, 188, 188A, 316; M17/152                           |
|       | 9B RG-179A, 179B, 187, 187A; M17/94, /136                    |
| 10    | Double-Shielded RG-174, 316; M17/152                         |
| 11    | RG-178, 178A, 178B, 196, 196A; M17/93                        |
| 12    | .250" semi-rigid; RG-401; M17/129                            |
| 13    | .141" semi-rigid; RG-402; M17/130                            |
| 14    | .085" semi-rigid; RG-405; M17/133                            |
| 15    | RG-10, 12, 215; M17/6, /74                                   |
| 16    | RG-14A, 217; M17/78, /165                                    |
| 17    | RG-17A, 218                                                  |
| 18    | RG-18A, 219                                                  |
| 19    | RG-115A                                                      |
| 20    | RG-118A, 228A                                                |
| 21    | RG-126                                                       |
| 22    | RG-302                                                       |
| 23    | RG-303                                                       |
| 24    | RG-304                                                       |
| 25    | Special 8X cable; contact factory for details.               |
| 26    | Belden 8281                                                  |
| 27    | RG-108, 108A; M17/45                                         |
| 28    | RG-22, 22A, 22B; M17/15                                      |
| 29    | Belden 9207; Dearborn 6207; IBM 7362211                      |
| 30    | M17/176                                                      |
| 31    | AT&T 735A                                                    |

## Cable Group Finder

| Cable            | Group | Cable         | Group |
|------------------|-------|---------------|-------|
| RG-5, 5A, B      | 1A    | RG-225        | 3C    |
| RG-6, 6A         | 1B    | RG-228A       | 20    |
| RG-8, 8A         | 2A    | RG-302        | 22    |
| RG-9, 9A, B      | 3A    | RG-303        | 23    |
| RG-10            | 15    | RG-304        | 24    |
| RG-11, 11A       | 2B    | RG-316        | 9A    |
| RG-12            | 15    | RG-316DS      | 10    |
| RG-13A           | 3B    | RG-393        | 4     |
| RG-14A           | 16    | RG-400        | 6A    |
| RG-17A           | 17    | RG-401        | 12    |
| RG-18A           | 18    | RG-402        | 13    |
| RG-21, 21A       | 1A    | RG-405        | 14    |
| RG-22, 22A, B    | 28    | M17/2         | 1B    |
| RG-55, 55B       | 6B    | M17/6         | 2B    |
| RG-55A           | 6A    | M17/15        | 28    |
| RG-58, 58A, C    | 5     | M17/28        | 5     |
| RG-59, 59A, B    | 7A    | M17/29        | 7A    |
| RG-62, 62A, B, C | 7A    | M17/30        | 7A    |
| RG-71, 71A, B    | 7B    | M17/45        | 27    |
| RG-108, 108A     | 27    | M17/73        | 1A    |
| RG-115A          | 19    | M17/162       | 1A    |
| RG-118A          | 20    | M17/112       | 1C    |
| RG-122           | 8A    | M17/74        | 2A    |
| RG-126           | 21    | M17/75        | 3A    |
| RG-141, 141A     | 5     | M17/127       | 3C    |
| RG-142, 142A     | 6A    | M17/77        | 3B    |
| RG-142B          | 6B    | M17/60        | 6A    |
| RG-143, 143A     | 1C    | M18/84        | 6A    |
| RG-174           | 9A    | M17/128       | 6A    |
| RG-174DS         | 10    | M17/97        | 7A    |
| RG-178, 178A, B  | 11    | M17/54        | 8A    |
| RG-179A, 179B    | 9B    | M17/95        | 8B    |
| RG-180, 180A, B  | 8B    | M17/137       | 8B    |
| RG-187, 187A     | 9B    | M17/152       | 9A    |
| RG-188, 188A     | 9A    | M17/93        | 11    |
| RG-195           | 8B    | M17/129       | 12    |
| RG-196, 196A     | 11    | M17/130       | 13    |
| RG-210           | 7A    | M17/133       | 14    |
| RG-212           | 1C    | M17/78        | 16    |
| RG-213           | 2A    | M17/165       | 16    |
| RG-214           | 3A    | M17/176       | 30    |
| RG-215           | 15    | AT&T 735A     | 31    |
| RG-217           | 16    | Belden 8281   | 26    |
| RG-218           | 17    | Belden 9207   | 29    |
| RG-219           | 18    | Dearborn 6207 | 29    |
| RG-222           | 1C    | IBM 7362211   | 29    |
| RG-223           | 6A    |               |       |

Note: MIL-PRF-39012 QPL connectors have cable groups defined by the MIL specification, not the Delta cable groups shown here. See page 185 for M39012 cable groups.

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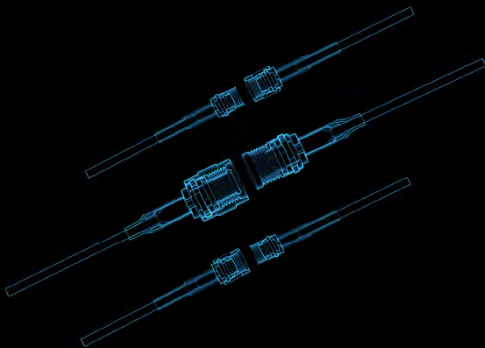
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