



# RF & Microwave Connectors

## CD Catalog Volume 6



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P.O. Box 53 • 416 Cabot St. • Beverly, MA 01915**

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- Clicking on any entry in the main Table of Contents (or the configuration listings on the first page of each series section) will take you to the indicated page.
- Clicking on a part number in the Index will take you directly to the indicated page. (You can also use Acrobat’s “find” command to enter a Delta part number and go directly to the page).
- Shown below are the “hot spots” on all of the product pages that will take you to background information on various connector characteristics.
- When you use a “hot spot” to jump to another page, you can use the “back” arrow in Acrobat’s menu bar to return to the page you jumped from.
- You can also use the Acrobat bookmarks and thumbnails to navigate by configuring your copy of Acrobat Reader to show bookmarks or thumbnails.

In addition, the pages have been reformatted to fit within the margins of standard laser or inkjet printers—no need to use the “shrink to fit” option when printing pages from Acrobat.

Click [here](#) to go to the Table of Contents

Click [here](#) to go to the Index by Part Number

Click on the Delta logo on any page to jump to this navigation guide.

Click on the page title to jump to the introductory page with specifications and configuration listings for the connector series.

## BNC Cable Jacks

### Panel Jack—Military Clamp for Flexible Cable

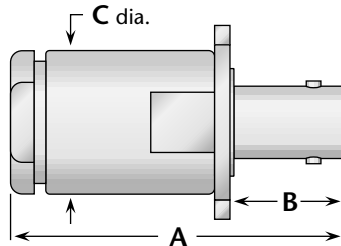
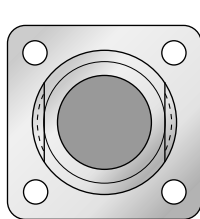


Figure 1

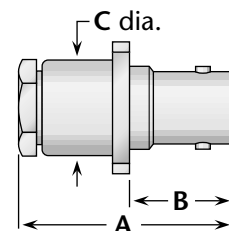
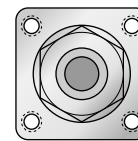


Figure 2

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
1	1	1.75	.63	.75	33	Nickel	Silver	1011-001-N330	A/20
2, 3	1	1.75	.63	.75	33	Nickel	Silver	1011-004-N330	A/20
5, 6	2	1.16	.55	.50	07	Nickel	Silver	UG-291C/U	A/17

Click here to jump to dimensions for Delta mounting figures.

Click here to jump to the cable assembly procedure for this connector.

Click here to jump to a guide to Delta cable groups.

Click here to go to Delta’s website if your computer is configured for Web connection via Acrobat.





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**Request for Quotation Form**

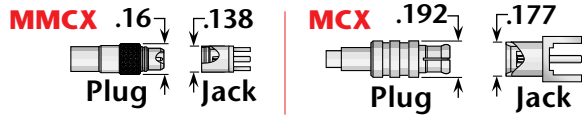
Fill in your requirements, print, and fax to us for a quick response . . . . . 227

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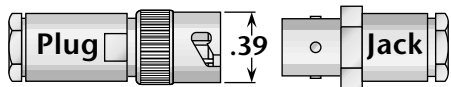
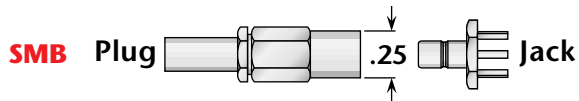
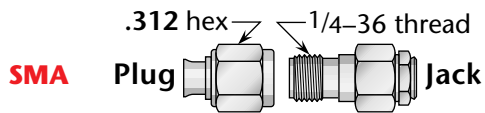
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## Connector size comparison (All shown actual size)

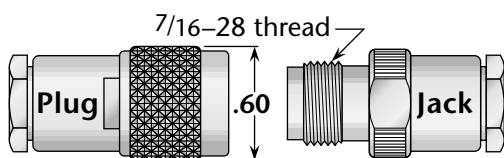
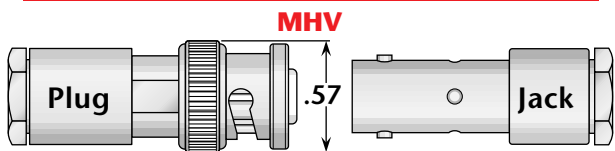
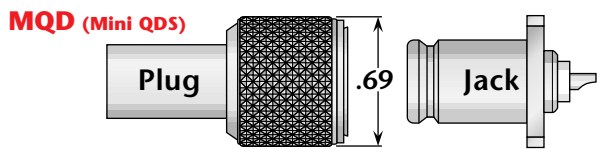
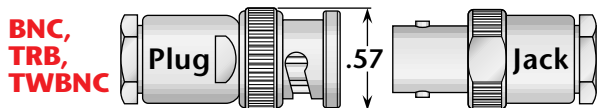
### Microminiature Connectors



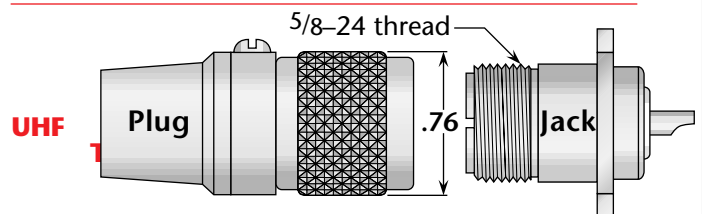
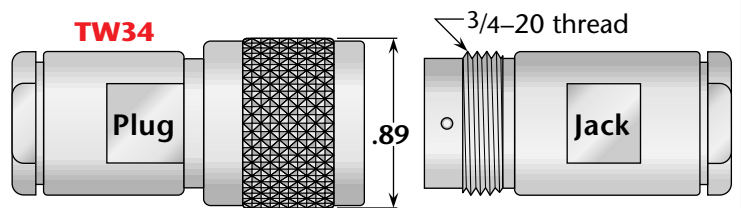
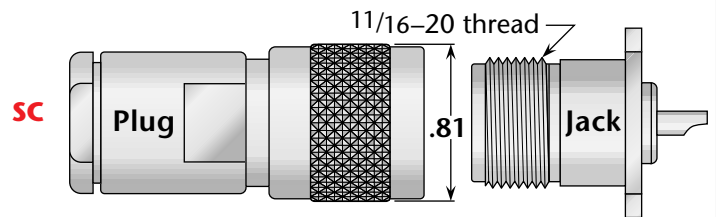
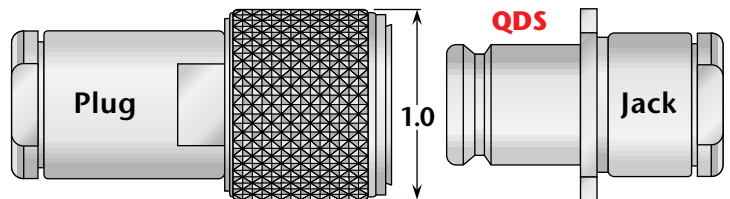
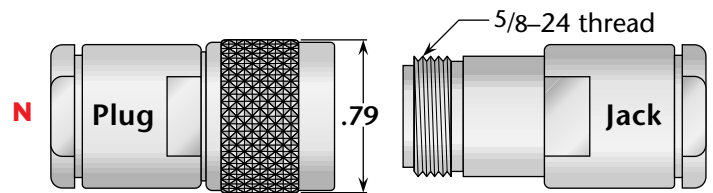
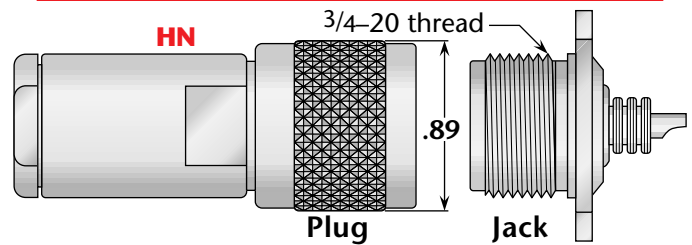
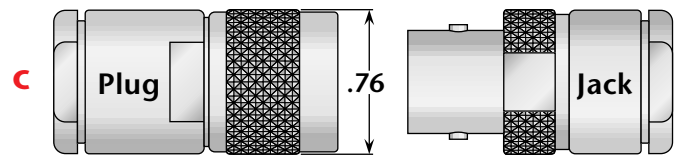
### Subminiature Connectors



### Miniature Connectors



### Medium Connectors



More on next page

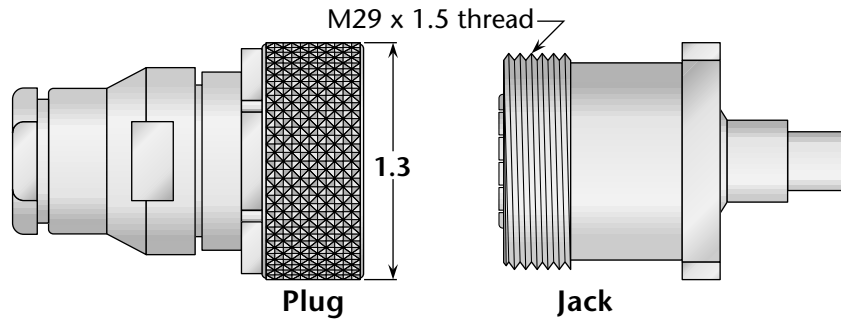
**Connector size comparison**

(All shown actual size)

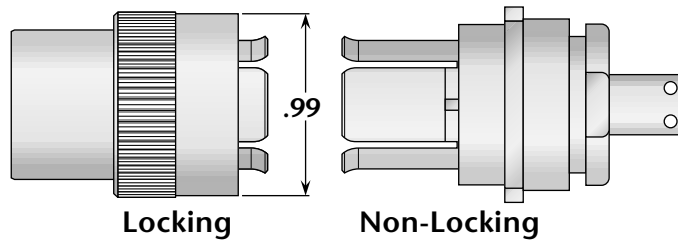
Size categories (subminiature, miniature, etc.) are common usage, but are not industry standards.  
 Diameters are for reference, and may vary slightly within each series with connector configuration.

**Large Connectors**

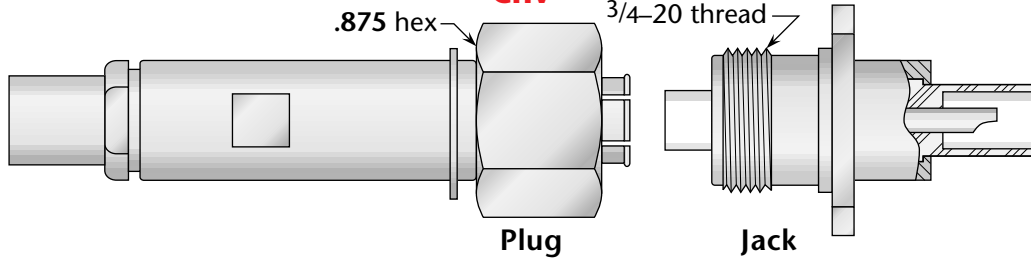
**7/16**



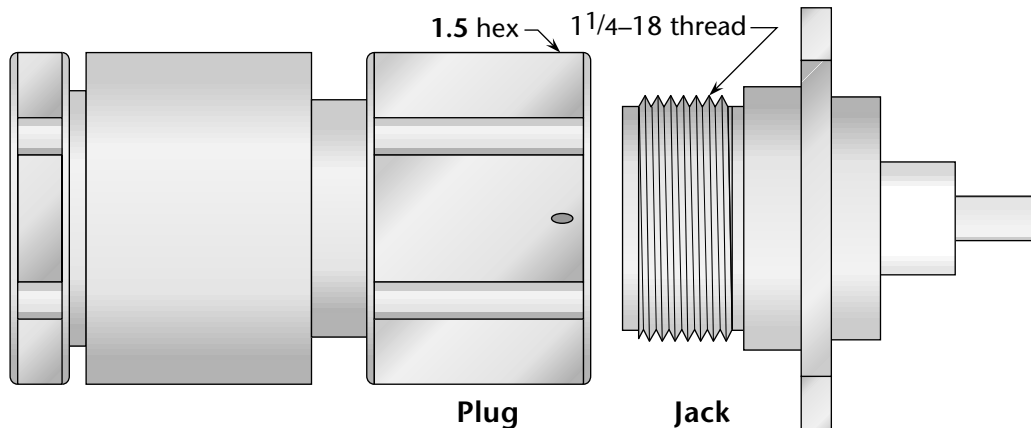
**G874**



**GHV**



**LC and LT**



## About Delta's Customer-Driven Design

At Delta, *Customer-Driven Design* isn't just a catchy slogan. It means that we make RF connectors that help you build your products efficiently, quickly, and cost-effectively. Because we design for *your* needs, nobody else can offer you such a broad line of standard connectors, along with an ever-growing list of innovative, user-friendly design variations like those detailed on these pages.

These featured connector technologies grew out of real-world requirements, and have saved our customers untold hours and dollars over the years. And there are thousands of other special connector designs we've produced that we don't have space to include in this catalog (see the inside back cover for some examples).

So if you don't see the exact connector configuration you need, please call us—we may have already made it. If not, we'll work with you to provide the connectors you need, with the best price/performance balance in the business, and with quality and delivery that will enhance your products and production schedules.

## Plating Options for Economy and Performance

(Albaloy or nickel—available for all connector series)

Silver plating has long been standard on RF connectors, but its high cost and low corrosion resistance make it less than ideal in most applications. Nickel plating is less expensive and more durable than silver, and is standard on many of our connectors.

However, in some applications, nickel plating can introduce unwanted intermodulation distortion, particularly on large size connectors. For these applications, we offer optional Albaloy plating, a tin/zinc/copper composite with a bright white finish, the corrosion resistance of nickel, and the low intermodulation distortion of silver plating.

Albaloy plating has the same composition as, and is fully compatible with, other commercial platings designated Sucoplate®, IP-23, White Bronze, and Tri-Alloy.

To order a Delta connector with plating other than the listed finish, substitute A, N, or Q in the Delta part number as below:

For **silver** plating: 1111-111-**A**111. • For **nickel** plating: 1111-111-**N**111. • For **Albaloy** plating: 1111-111-**Q**111.

Note: M39012 and M55339 QPL connectors can only be supplied with the specified plating.

## N Panel Receptacles With One-Piece Bodies

(Available for most type N 4-hole flange receptacles—contact factory for exact types)

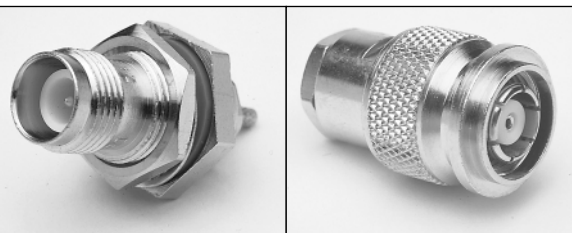


Our **in-house** machining capability now includes production of type N flange receptacles with one-piece bodies, replacing the old machined body/stamped flange method. With no unsightly solder joints, these connectors have enhanced appearance and strength compared with two-piece designs. The machined flanges are flatter than stamped flanges as well, and our high-speed turning centers can produce any volume required to fill your production quantity needs.

## Polarized TNC Connectors Prevent Mismatching

(See page 152 for standard types)

FCC Part15.203 requirements mandate the use of a nonstandard interface in spread-spectrum wireless applications, and further specify that the connectors must not be damaged when an attempt is made to mate them with standard connectors. Delta's polarized TNC plugs and jack meet these requirements without the additional expense of other designs, such as connectors with left-hand threads.



For systems that need more than two polarizations to prevent mismatching of connector pairs, see our unique line of keying baskets and keyed plugs on page 149.

SMA connector pairs can also be provided with reverse polarity—call for availability.

## Common Flange Sizes Simplify Your Production

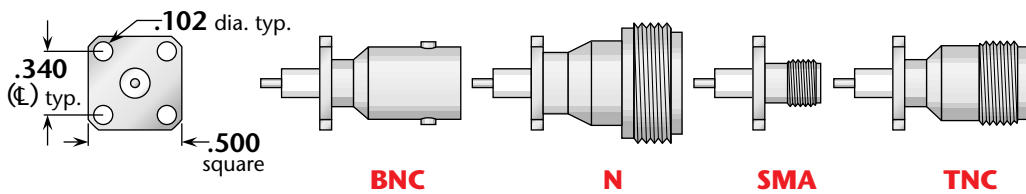
(Available on BNC, N, SMA, TNC, and 7/16 series connectors as noted in product pages)

Does it make sense that you have to drill your components with different mounting hole patterns whenever you need to ship them with a different connector series attached? We didn't think so, either.

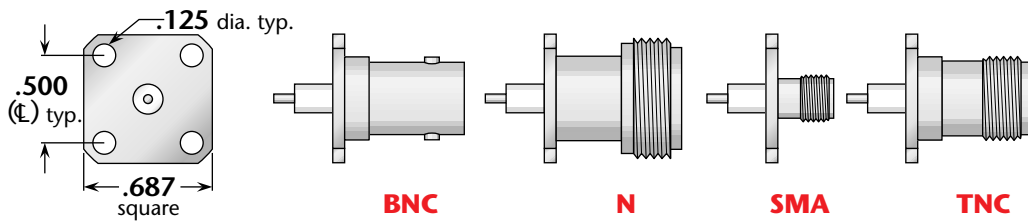
That's why we offer a wide range of connectors in different series with common flange sizes and contact/insulator configurations. Now you can streamline your production process and shorten your delivery cycle—just predrill your components with one mounting hole pattern, and ship them with the connectors your customers require.

### Flange Sizes and Available Interfaces

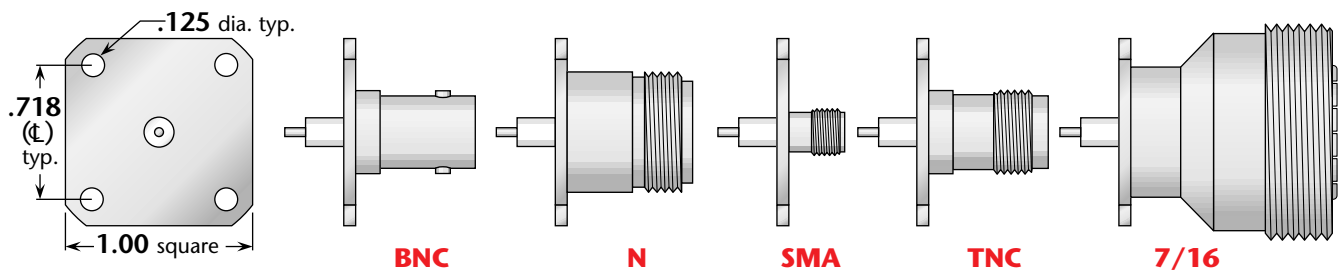
**1/2" square flange** (Delta mounting figure 05)—standard flange size for SMA



**11/16" square flange** (Delta mounting figure 09)—standard flange size for BNC, TNC



**1" square flange** (Delta mounting figure 33)—standard flange size for type N

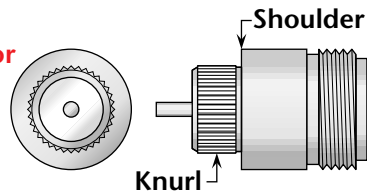


Contact and insulator configurations are shown for illustration only—these connectors are available with a wide variety of post, tab, solder pot, or slotted contacts.

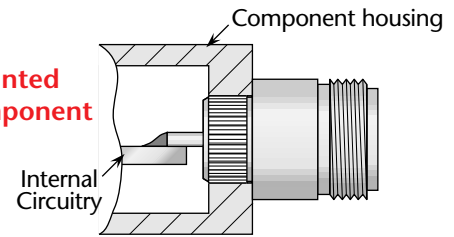
Standard configurations are shown on product pages, and your request for a custom design is always welcome.

## Delta PressMount Receptacles

**Connector design**



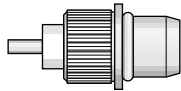
**As mounted on component**



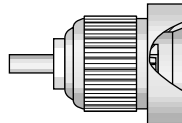
Delta PressMount receptacles eliminate the need for complicated mounting hole patterns and mounting hardware. They are simply pressed into a single through hole, and can be used in component housings as small as the outer diameter of the connector. An integral shoulder provides a positive depth stop during mounting.

Besides the standard types shown below and in the product pages, PressMount receptacles are available with a wide variety of contact and insulator configurations—please call if you don't see what you need.

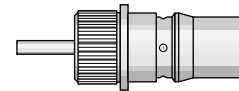
### Standard PressMount Receptacles



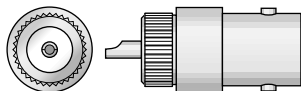
**BMA plug** (page 11)



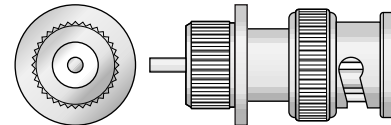
**MCX jack** (page 58)



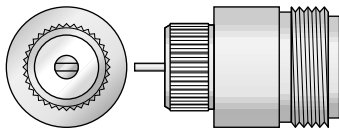
**QMA jack** (page 97)



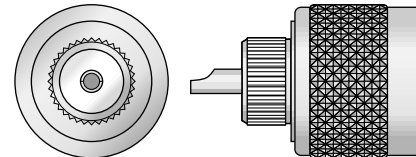
**BNC jack** (page 27)



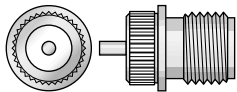
**BNC plug** (page 27)



**N jack** (page 85)

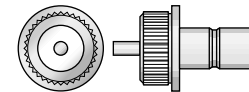
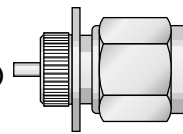


**N plug** (page 85)

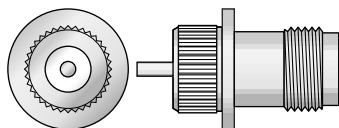


**SMA jack** (page 115)

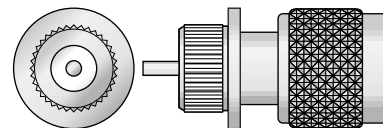
**SMA plug** (page 115)



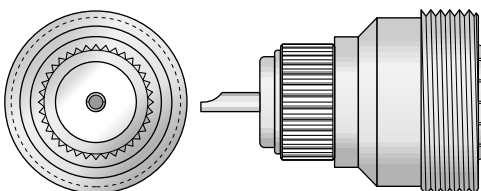
**SMB jack** (page 133)



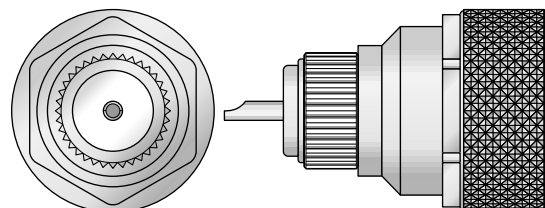
**TNC jack** (page 147)



**TNC plug** (page 147)



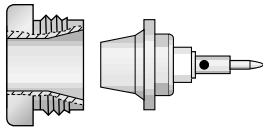
**7/16 jack** (page 171)



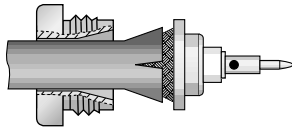
**7/16 plug** (page 173)



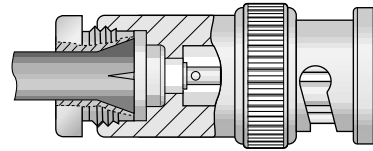
## Heli-Grip® Cable Attachment—for Flexible Cable



**Backnut; cone/contact/  
insulator subassembly**



**Cable assembled to  
hardware subassembly**



(Proportions altered to illustrate detail)  
**As assembled in connector**

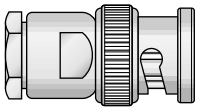
With their reduced parts count and rapid assembly, Delta's Heli-Grip connectors offer you significant time savings in your cable assembly operation, without the need for dedicated crimp tools.

Heli-Grip connectors all have captivated contacts, and assembly is easy—simply trim the cable, slide the trimmed cable into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw the body assembly (right) onto the backend assembly.

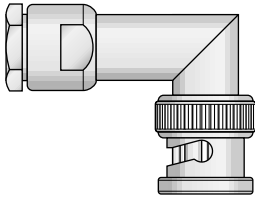
The assembled connectors have cable retention strength greater than the force required to tear the cable braid.

## Standard Heli-Grip Configurations

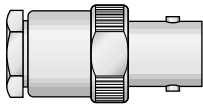
### BNC series



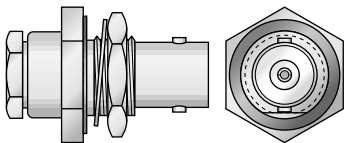
**Straight plug—page 14**



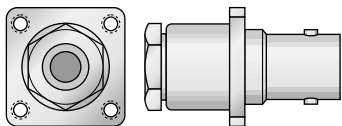
**Right angle plug—page 16**



**Straight jack—page 17**

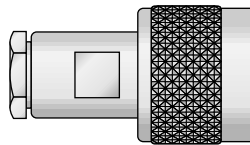


**Bulkhead jack—page 19**

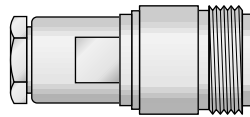


**Panel jack—page 21**

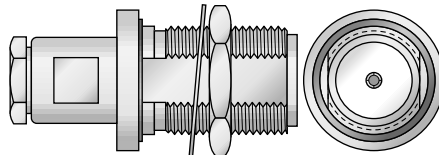
### N series



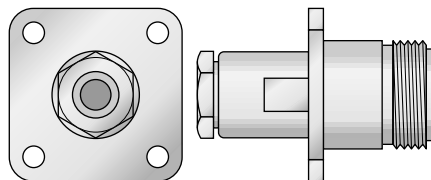
**Straight plug—page 69**



**Straight jack—page 73**

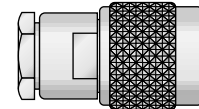


**Bulkhead jack—page 75**

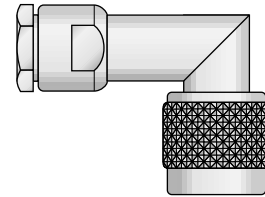


**Panel jack—page 77**

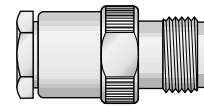
### TNC series



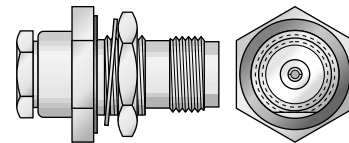
**Straight plug—page 138**



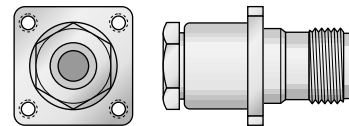
**Right angle plug—page 140**



**Straight jack—page 141**

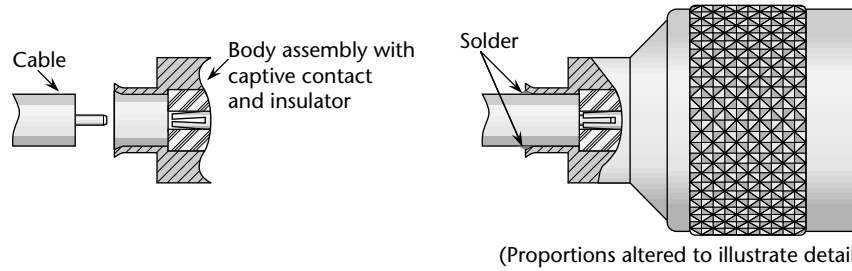


**Bulkhead jack—page 142**



**Panel jack—page 143**

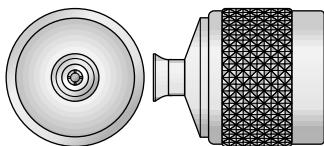
**One-Step Cable Attachment—for Semi-Rigid Cable**



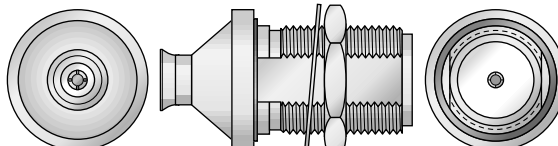
Delta One-Step connectors for semi-rigid cable have captivated contacts and insulators preassembled in the body assembly. With no loose parts to handle, assembly is as simple as trimming the cable (and chamfering the cable center conductor), inserting the cable into the body assembly, and soldering the cable jacket to the connector body. The internal design of the body assembly automatically maintains the proper gap distance between the center contact and the cable dielectric, ensuring the best electrical performance and eliminating the shimming operation required by connectors with non-captive contacts.

**Standard One-Step Configurations**

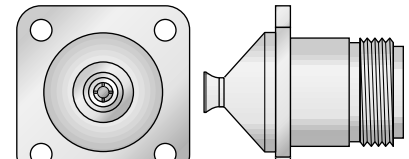
**N series**



Straight plug—page 70

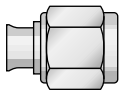


Bulkhead jack—page 76

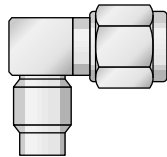


Panel jack—page 78

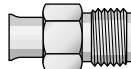
**SMA series**



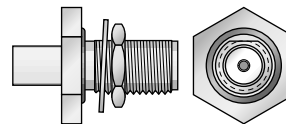
Straight plug—page 103



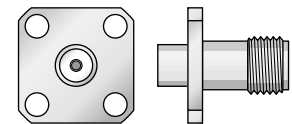
Right angle plug—page 103



Straight jack—page 105



Bulkhead jack—page 105



Panel jack—page 105

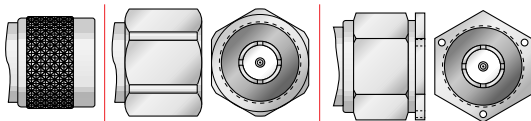
**Coupling Nut Options**

(Available for N, SC, TNC, and 7/16 connector series as noted in product pages)

Any plug in N, SC, TNC, or 7/16 series can be supplied with a hex coupling nut for applications requiring plugs to be torqued to a specific value. Please call for part numbers of specific connectors with hex coupling nuts, which can be supplied with or without safety-wire holes.

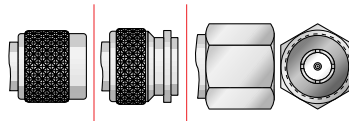
Note: Delta's standard coupling nut design for 7/16 connectors features wrench flats as well as a knurled surface for hand-tightening, but 7/16 connectors can also be supplied with full hex coupling nuts.

**N series**



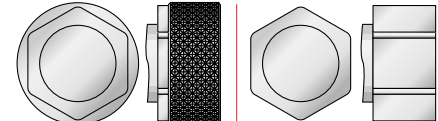
Standard (left), hex (middle), hex with safety-wire holes (right)

**TNC series**



Standard (left), with safety-wire holes (middle), hex (right)

**7/16 series**



Standard (left), full hex (right)

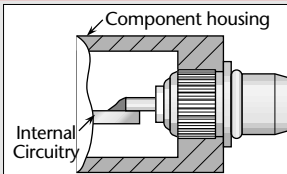
## General Description

Delta BMA series plugs are compact, high-performance connectors that mate with all standard BMA series jacks. Designed to meet all applicable MIL-PRF-39012 requirements, they offer good electrical performance up to 22 GHz.

These connectors are ideal for use in rack-and-panel applications.

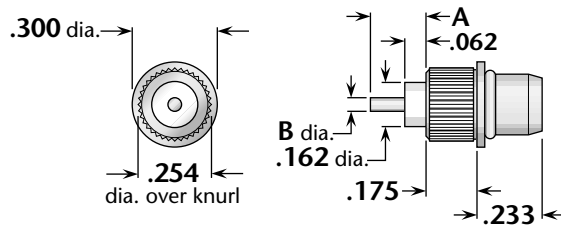
Current configurations include PressMount plug receptacles and two- and four-hole flange panel plugs with post contacts. New types are being added to our product line, so please call with your requirements for other BMA configurations.

## PressMount Plug Receptacle



### Delta PressMount Receptacles

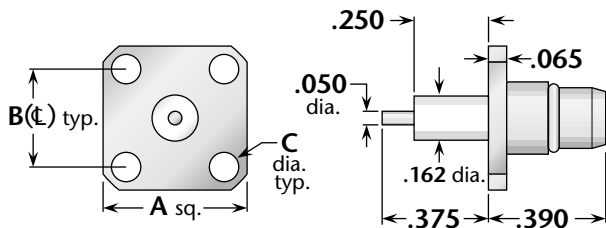
These connectors eliminate the need for complicated mounting hole patterns and mounting hardware. They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength far greater than normal mating and unmating forces. An integral shoulder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



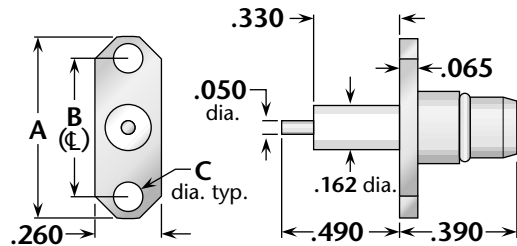
**Figure 1** (Brass body)

Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.187	.050	.100	.250 ±.001 dia.	Nickel	Gold (C)	4259-000-N911-2

## Panel Plug Receptacles



**Figure 1** (Stainless steel body)



**Figure 2** (Stainless steel body)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.500	.340	.102	05	Passivated	Gold (C)	4259-000-K051
2	.625	.481	.102	92A	Passivated	Gold (C)	4259-000-K911-5

(C) in contact plating column indicates captive contact.  
See page 203 for mounting figures. • Contact factory for specifications and interface dimensions.

## General Description

Delta BNC connectors are compact, economical, 50Ω impedance connectors with two-stud bayonet coupling. They are best suited for use with cables in the range of .150" to .250" diameter, but are available for other cables from .090" to over .75" diameter. Many of our BNC connectors are available as MIL-PRF-39012 QPL versions, and adapters as MIL-PRF-55339 versions. These types are listed starting on page 186.

Our extensive line of BNC receptacles includes configurations for virtually any packaging requirement, and we can supply any adapter or accessory you may need to complete your system design. Adapters between BNC and other series are shown starting on page 176.

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

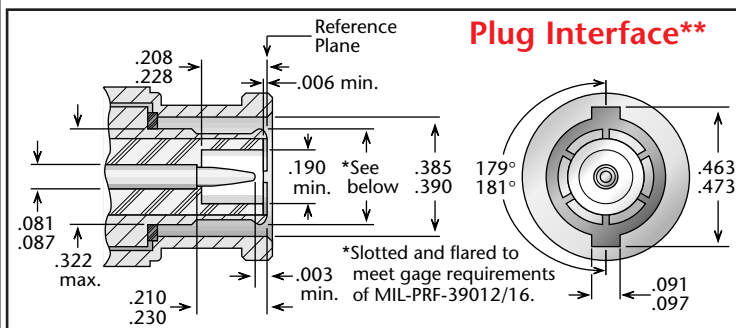
- *Heli-Grip* cable connectors for fast, reliable assembly to flexible cable without special tooling.
- *PressMount* receptacles (page 27) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- Panel receptacles with flange sizes to match the same hole pattern as standard SMA or type N connectors, letting you drill one hole pattern and mount BNC, N, SMA, TNC, or 7/16 series connectors as needed.
- Isolated ground receptacles (see page 25).
- 75Ω impedance BNC connectors (see page 31) for matched-impedance applications.

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

## BNC Configurations

Straight Cable Plugs .....	13	Bulkhead Jack Receptacles .....	24
Right Angle Cable Plugs .....	15	Bulkhead Plug Receptacles.....	25
Straight Cable Jacks .....	17	Printed-Circuit Board Receptacles .....	26
Bulkhead Cable Jacks .....	18	Stripline Receptacles .....	26
Panel Cable Jacks .....	20	PressMount Receptacles.....	27
Panel Jack Receptacles (square flange) .....	22	Resistive Terminations .....	28
Right Angle Panel Jack Receptacles .....	23	Dust Caps.....	28
Panel Plug Receptacles.....	23	In-Series Adapters .....	29

## BNC Specifications\*

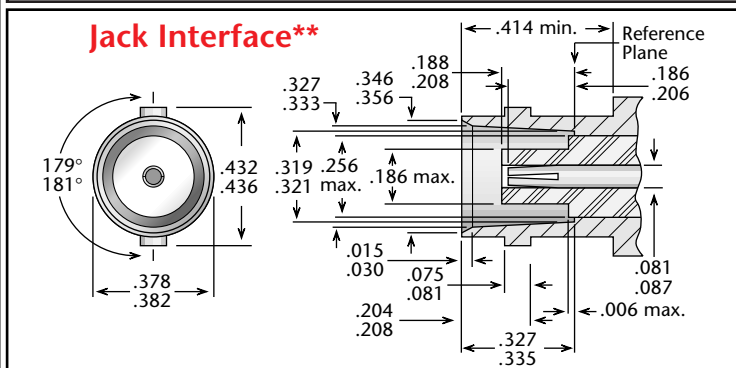


### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–4 GHz.  
**Voltage Rating:** 500 volts RMS.  
**Dielectric Withstanding Voltage:** 1,500 VRMS.  
**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 QQ-S-365, or Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, plated:  
 Silver per QQ-S-365, or Nickel per QQ-N-290.



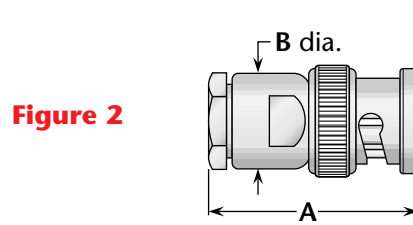
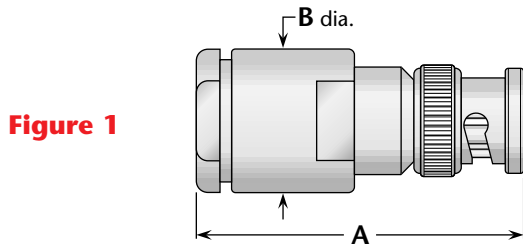
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

\*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.

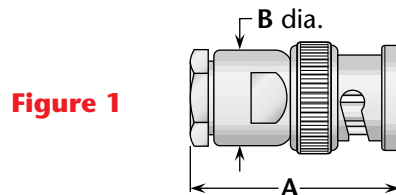


## Straight Plug—Military Clamp for Flexible Cable



Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.16	.56	Nickel	Silver	1001-001-N000-1	C/06
2, 3	1	1.66	.75	Nickel	Silver	UG-959A/U	A/01
2, 3	1	1.66	.75	Silver	Gold (C)	M39012/16-0225	A/01
5, 6	2	1.03	.44	Nickel	Silver	UG-88/U	C/04
5, 6	2	1.06	.50	Nickel	Silver	UG-88C/U	A/17
5, 6	2	1.06	.50	Nickel	Silver	UG-88E/U	A/17
5, 6	2	1.06	.50	Nickel	Gold (C)	1001-015-N001	A/17
5, 6	2	1.06	.50	Silver	Gold (C)	M39012/16-0101	A/17
7	2	1.03	.44	Nickel	Silver	UG-260/U	C/04
7	2	1.06	.50	Nickel	Silver	UG-260B/U	A/17
7	2	1.06	.50	Nickel	Silver	UG-260D/U	A/17
7	2	1.06	.50	Nickel	Silver (C)	1001-021-N001	A/17
7	2	1.06	.50	Silver	Gold (C)	M39012/16-0102	A/17
8A	2	1.06	.50	Nickel	Silver	UG-1033C/U	A/17
8A	2	1.06	.50	Nickel	Silver (C)	1001-029-N001	A/17
8A	2	1.06	.50	Silver	Gold (C)	M39012/16-0103	A/17
8B	2	1.06	.50	Nickel	Silver	1001-043-N000	A/17
8B	2	1.06	.50	Nickel	Silver (C)	1001-043-N001	A/17
9	2	1.06	.50	Nickel	Silver	1001-036-N000	A/18
9	2	1.06	.50	Nickel	Silver (C)	1001-036-N001	A/18
9	2	1.06	.50	Silver	Gold (C)	M39012/16-0220	A/37
11	2	1.06	.50	Nickel	Silver	1001-038-N000	A/18
22	2	1.06	.50	Silver	Gold (C)	M39012/16-0118	A/17
23	2	1.06	.50	Silver	Gold (C)	M39012/16-0111	A/17
25	2	1.06	.50	Nickel	Silver	1001-132-N000	A/17

## Straight Plug—Solder-Clamp for Semi-Rigid Cable

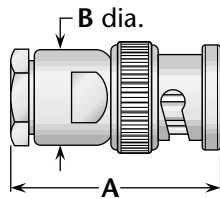


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
13	1	1.06	.50	Nickel*	Silver	1001-031-N003	F/08
14	1	1.06	.50	Nickel*	Silver	1001-025-N003	F/07

\* Solder ferrule is gold plated.

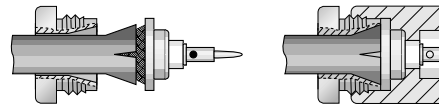
See page 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Straight Plug—Heli-Grip® for Flexible Cable



**Figure 1**

### Heli-Grip® Cable Attachment

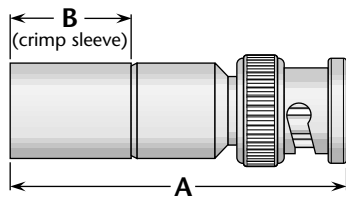


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

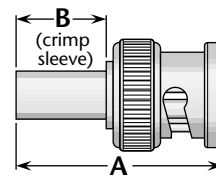
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
5, 6 <sup>§</sup>	1	1.06	.50	Nickel	Silver (C)	1001-018-N005	E/03
RG-223	1	1.06	.50	Nickel	Silver (C)	1001-015-N005-3	E/03
7	1	1.06	.50	Nickel	Silver (C)	1001-019-N005	E/03
8A	1	1.06	.50	Nickel	Silver (C)	1001-029-N005-1	E/03
8B	1	1.06	.50	Nickel	Silver (C)	1001-043-N005	E/03
9	1	1.06	.50	Nickel	Silver (C)	1001-037-N005	E/03
10	1	1.06	.50	Nickel	Silver (C)	1001-100-N005	E/03
11	1	1.06	.50	Nickel	Silver (C)	1001-038-N005	E/03

<sup>§</sup>Except RG-223/U.

## Straight Plug—Crimp Type for Flexible Cable



**Figure 1**



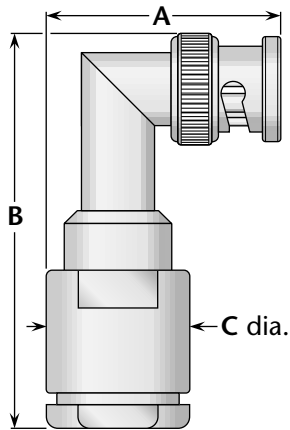
**Figure 2**

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
3A, 4	1	1.72	.63	Nickel	Gold (C)	1003-005-N000	B/11
5	2	1.09	.50	Nickel	Gold	1003-017-N000	B/18
5	2	1.10	.50	Nickel	Gold (C)	1003-017-N00E-2	B/19
6	2	1.09	.50	Nickel	Gold	1003-013-N000	B/18
6	2	1.10	.50	Nickel	Gold (C)	1003-013-N00E	B/19
7	2	1.09	.50	Nickel	Gold	1003-020-N000-2	B/18
7	2	1.10	.50	Nickel	Gold (C)	1003-019-N00E-2	B/19
7	2	1.05	.41	Nickel	Silver	1003-020-N000-5*	***
7	2	1.05	.41	Nickel	Gold	1003-020-N000-6*	***
7	2	1.05	.50	Nickel	Silver (C)	1003-020-N001-5*	***
7	2	1.05	.50	Nickel	Gold (C)	1003-020-N001-9*	***
9	2	.94	.31	Nickel	Silver (C)	1003-037-N000	B/20

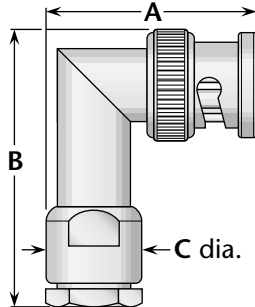
\* Crimp center contact.

See page 204 for cable groups. • Assembly procedures start on page 205.  
 (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
 \*\*\*Contact factory for cable assembly instructions.

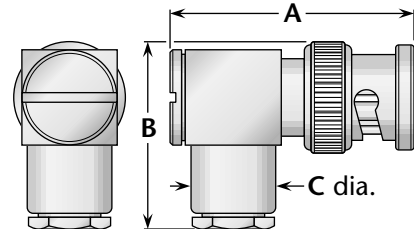
## Right Angle Plug—Military Clamp for Flexible Cable



**Figure 1**



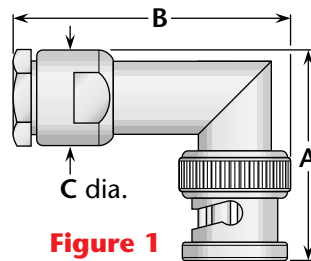
**Figure 2**



**Figure 3**

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
1	1	1.23	1.92	.75	Nickel	Gold	1004-001-N000	A/07
2, 3	1	1.23	1.92	.75	Nickel	Silver	1004-004-N000	A/07
5, 6	2	1.09	1.61	.50	Nickel	Silver	UG-913/U	A/17
5, 6	2	1.09	1.61	.50	Nickel	Silver	UG-913A/U	A/17
5, 6	2	1.09	1.61	.50	Nickel	Silver (C)	1004-015-N001	A/17
5, 6	2	1.09	1.61	.50	Silver	Gold (C)	M39012/20-0101	A/17
5, 6	3	1.25	1.06	.44	Nickel	Silver (C)	1005-014-N000	C/05
7	2	1.09	1.61	.50	Nickel	Silver	1004-021-N000	A/17
7	2	1.09	1.61	.50	Nickel	Silver (C)	1004-021-N001	A/17
7	2	1.09	1.61	.50	Silver	Gold (C)	M39012/20-0102	A/17
7	3	1.25	1.06	.44	Nickel	Silver (C)	1005-021-N000-1	C/05
8A	3	1.25	1.06	.44	Nickel	Silver (C)	1005-029-N000	C/05
8B	2	1.09	1.61	.50	Nickel	Silver	1004-043-N000	A/17
9	2	1.09	1.61	.50	Nickel	Silver	1004-036-N000	A/18
9	3	1.25	1.06	.44	Nickel	Silver (C)	1005-036-N000	C/05
22	2	1.09	1.61	.50	Silver	Gold (C)	M39012/20-0108	A/17

## Right Angle Plug—Solder-Clamp for Semi-Rigid Cable



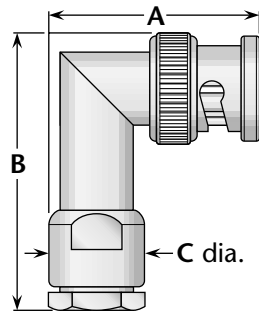
**Figure 1**

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
13	1	1.09	1.61	.50	Nickel*	Silver	1004-031-N003	F/08
14	1	1.09	1.61	.50	Nickel*	Silver	1004-025-N003	F/07

\* Solder ferrule is gold plated.

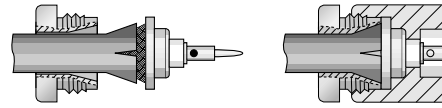
See page 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Right Angle Plug—Heli-Grip® for Flexible Cable



**Figure 1**

### Heli-Grip® Cable Attachment

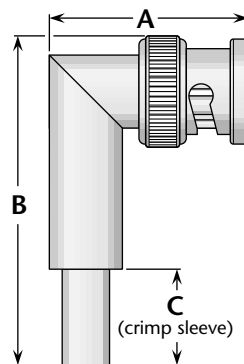


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5, 6 <sup>§</sup>	1	1.09	1.61	.50	Nickel	Silver (C)	1004-018-N005	E/03
RG-223	1	1.09	1.61	.50	Nickel	Silver (C)	1004-015-N005	E/03
7	1	1.09	1.61	.50	Nickel	Silver (C)	1004-019-N005	E/03
8A	1	1.09	1.61	.50	Nickel	Silver (C)	1004-029-N005	E/03
8B	1	1.09	1.61	.50	Nickel	Silver (C)	1004-043-N005	E/03
9	1	1.09	1.61	.50	Nickel	Silver (C)	1004-037-N005	E/03
10	1	1.09	1.61	.50	Nickel	Silver (C)	1004-100-N005	E/03
11	1	1.09	1.61	.50	Nickel	Silver (C)	1004-038-N005	E/03

<sup>§</sup>Except RG-223/U.

## Right Angle Plug—Crimp Type for Flexible Cable



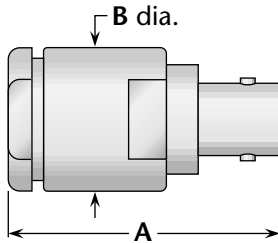
**Figure 1**

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5	1	1.03	1.71	.50	Nickel	Gold (C)	1007-017-N000-3	B/02
6	1	1.03	1.71	.50	Nickel	Silver	1007-015-N000	B/02
7	1	1.03	1.71	.50	Nickel	Gold	1007-019-N000-1	B/02

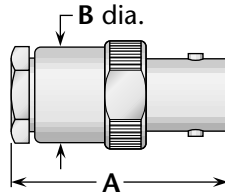
See page 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



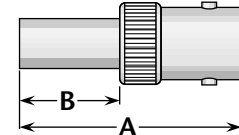
## Straight Jacks—For Flexible and Semi-Rigid Cable



**Figure 1**



**Figure 2**



**Figure 3**

### Military Clamp for Flexible Cable

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.75	.75	Nickel	Silver	1008-004-N000	A/20
5, 6	2	1.16	.50	Nickel	Silver	UG-89C/U	A/17
5, 6	2	1.16	.50	Nickel	Gold (C)	1008-015-N001	A/17
5, 6	2	1.16	.50	Silver	Gold (C)	M39012/17-0101	A/17
7	2	1.16	.50	Nickel	Silver	UG-261C/U	A/17
7	2	1.16	.50	Nickel	Silver (C)	1008-021-N001	A/17
7	2	1.16	.50	Silver	Gold (C)	M39012/17-0102	A/17
8A	2	1.16	.50	Silver	Gold (C)	M39012/17-0103	A/17
9	2	1.16	.50	Nickel	Silver	1008-036-N000	A/18
9	2	1.16	.50	Nickel	Silver (C)	1008-036-N001	A/18
11	2	1.16	.50	Nickel	Silver	1008-038-N000	A/18
22	2	1.16	.50	Silver	Gold (C)	M39012/17-0118	A/17
23	2	1.16	.50	Silver	Gold (C)	M39012/17-0111	A/17

### Heli-Grip for Flexible Cable

5, 6 <sup>§</sup>	2	1.16	.50	Nickel	Silver (C)	1008-018-N005-1	E/03
RG-223	2	1.16	.50	Nickel	Silver (C)	1008-015-N005	E/03
7	2	1.16	.50	Nickel	Silver (C)	1008-019-N005	E/03
8A	2	1.16	.50	Nickel	Silver (C)	1008-029-N005	E/03
8B	2	1.16	.50	Nickel	Silver (C)	1008-043-N005	E/03
9	2	1.16	.50	Nickel	Silver (C)	1008-037-N005	E/03
10	2	1.16	.50	Nickel	Silver (C)	1008-100-N005	E/03
11	2	1.16	.50	Nickel	Silver (C)	1008-038-N005-2	E/03

### Crimp Type for Flexible Cable

5	3	1.16	.50	Nickel	Gold	1010-017-N000-1	B/05
6	3	1.16	.50	Nickel	Gold	1010-013-N000	B/05
7	3	1.16	.50	Nickel	Gold	1010-020-N000	B/05
7	3	1.06	.41	Nickel	Silver	1010-020-N001-1**	***

### Solder-Clamp for Semi-Rigid Cable

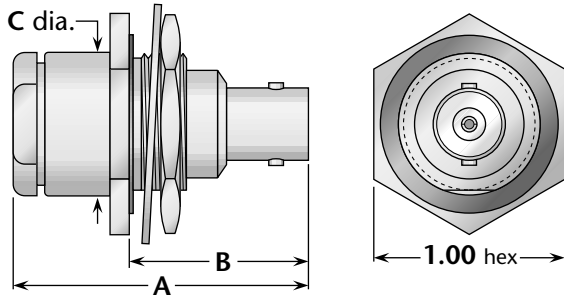
13	2	1.16	.50	Nickel*	Silver	1008-031-N003	F/08
14	2	1.16	.50	Nickel*	Silver	1008-025-N003	F/07

<sup>§</sup>Except RG-223/U.

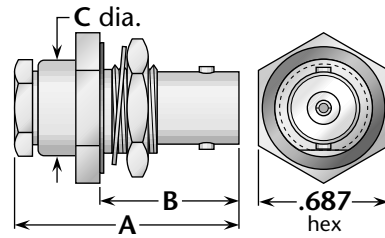
\*Solder ferrule is gold plated.

See page 204 for cable groups. • Assembly procedures start on page 205.  
 (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
 \*\*Indicates crimp center contact. • \*\*\*Contact factory for cable assembly instructions.

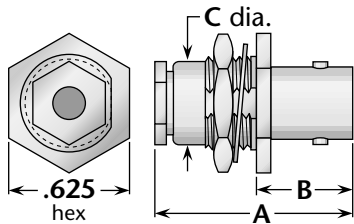
## Bulkhead Jacks—Military Clamp for Flexible Cable



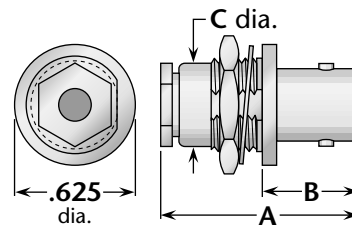
**Figure 1**  
(Rear mount)



**Figure 2**  
(Rear mount)



**Figure 3**  
(Front mount)

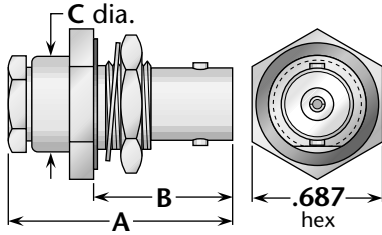


**Figure 4**  
(Front mount)

Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
2, 3	1	1.55	.92	.75	51	.11	Nickel	Gold (C)	1016-004-N511	A/20
5, 6	2	1.16	.68	.50	59	.11	Nickel	Silver	UG-909/U	A/17
5, 6	2	1.16	.68	.50	59	.11	Nickel	Silver	UG-909A/U	A/17
5, 6	2	1.16	.81	.50	59	.24	Nickel	Silver	UG-909B/U	A/17
5, 6	2	1.16	.81	.50	59	.24	Silver	Gold (C)	M39012/19-0101	A/17
5, 6	2	1.16	.68	.50	59	.11	Nickel	Gold (C)	1016-015-N591	A/17
5, 6	3	1.14	.55	.44	57	.09	Nickel	Silver	1017-014-N570	C/04
7	2	1.16	.68	.50	59	.11	Nickel	Silver	UG-910/U	A/17
7	2	1.16	.68	.50	59	.11	Nickel	Silver	UG-910A/U	A/17
7	2	1.16	.81	.50	59	.24	Nickel	Silver	UG-910B/U	A/17
7	2	1.16	.81	.50	59	.24	Silver	Gold (C)	M39012/19-0102	A/17
7	2	1.16	.68	.50	59	.11	Nickel	Silver (C)	1016-021-N591	A/17
7	4	1.14	.55	.44	57	.09	Nickel	Silver	UG-624/U	C/04
8A	2	1.16	.81	.50	59	.24	Silver	Gold (C)	M39012/19-0110	A/17
9	2	1.16	.68	.50	59	.11	Nickel	Silver	1016-036-N590	A/18
9	2	1.16	.68	.50	59	.11	Nickel	Silver (C)	1016-036-N591	A/17
9	2	1.16	.81	.50	59	.24	Silver	Gold (C)	M39012/19-0220	A/17
11	2	1.16	.68	.50	59	.11	Nickel	Silver	1016-038-N590	A/18
11	2	1.16	.68	.50	59	.11	Nickel	Silver (C)	1016-038-N591	A/18
22	2	1.16	.81	.50	59	.24	Silver	Gold (C)	M39012/19-0118	A/17
23	2	1.16	.81	.50	59	.24	Silver	Gold (C)	M39012/19-0111	A/17

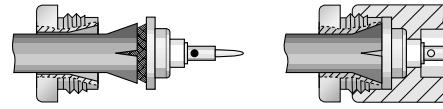
See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Bulkhead Jack—Heli-Grip® for Flexible Cable



**Figure 1** (Rear mount)

### Heli-Grip® Cable Attachment



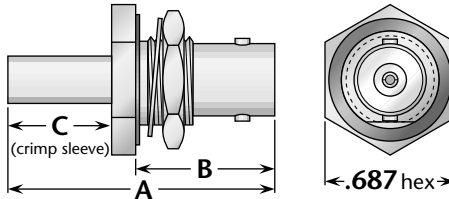
These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
5, 6 <sup>§</sup>	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1016-018-N595	E/03
RG-223	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1016-015-N595	E/03
7	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1016-019-N595	E/03
8A	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1016-029-N595	E/03
8B	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1016-043-N595	E/03
9	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1016-037-N595	E/03
10	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1016-100-N595-2	E/03
11	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1016-038-N595-2	E/03

§Except RG-223/U.

## Bulkhead Jack—Crimp Type for Flexible Cable

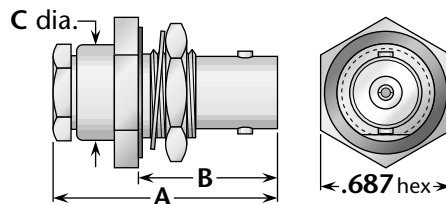
**Figure 1**  
(Rear mount)



Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
5	1	1.31	.68	.50	59	.11	Nickel	Silver	1019-016-N590	B/21
6	1	1.31	.68	.50	59	.11	Nickel	Silver	1019-013-N590	B/21
7	1	1.31	.68	.50	59	.11	Nickel	Silver	1019-020-N590	B/22

## Bulkhead Jack—Solder-Clamp for Semi-Rigid Cable

**Figure 1**  
(Rear mount)

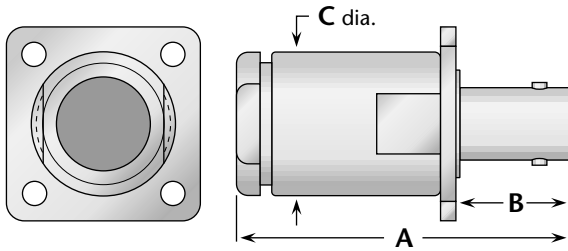


Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
13	1	1.16	.81	.50	59	.24	Nickel*	Silver	1016-031-N593	F/08
14	1	1.16	.81	.50	59	.24	Nickel*	Silver	1016-025-N593	F/07

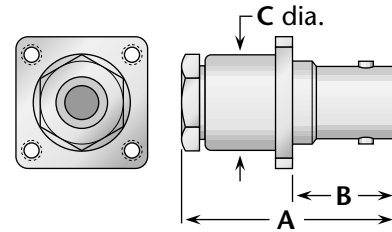
\* Solder ferrule is gold plated.

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Panel Jack—Military Clamp for Flexible Cable



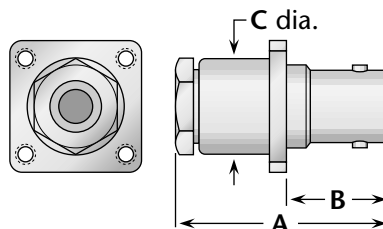
**Figure 1**



**Figure 2**

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
1	1	1.75	.63	.75	33	Nickel	Silver	1011-001-N330	A/20
2, 3	1	1.75	.63	.75	33	Nickel	Silver	1011-004-N330	A/20
5, 6	2	1.16	.55	.50	07	Nickel	Silver	UG-291C/U	A/17
5, 6	2	1.16	.55	.50	07	Silver	Gold (C)	M39012/18-0102	A/17
5, 6	2	1.16	.55	.50	07	Nickel	Gold (C)	1011-015-N071	A/17
7	2	1.16	.55	.50	07	Nickel	Silver	UG-262C/U	A/17
7	2	1.16	.55	.50	07	Silver	Gold (C)	M39012/18-0101	A/17
7	2	1.16	.55	.50	07	Nickel	Silver (C)	1011-021-N071	A/17
8A	2	1.16	.55	.50	07	Silver	Gold (C)	M39012/18-0103	A/17
9	2	1.16	.55	.50	07	Nickel	Silver	1011-036-N070	A/18
9	2	1.16	.55	.50	07	Nickel	Silver (C)	1011-036-N071	A/38
9	2	1.16	.55	.50	07	Silver	Gold (C)	M39012/18-0220	A/38
11	2	1.16	.55	.50	07	Nickel	Silver	1011-038-N070	A/18
11	2	1.16	.55	.50	07	Nickel	Silver (C)	1011-038-N071	A/18
22	2	1.16	.55	.50	07	Silver	Gold (C)	M39012/18-0118	A/17
23	2	1.16	.55	.50	07	Silver	Gold (C)	M39012/18-0111	A/17

## Panel Jack—Solder-Clamp for Semi-Rigid Cable



**Figure 1**

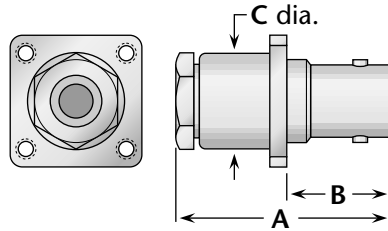
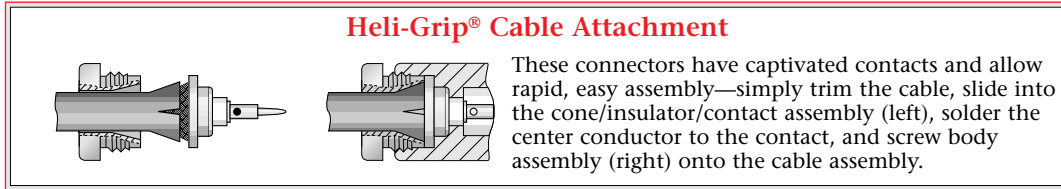
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
13	1	1.16	.55	.50	07	Nickel*	Gold	1011-031-N073	F/08
14	1	1.16	.55	.50	07	Nickel*	Gold	1011-025-N073	F/07

\* Solder ferrule is gold plated.

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



## Panel Jack—Heli-Grip® for Flexible Cable

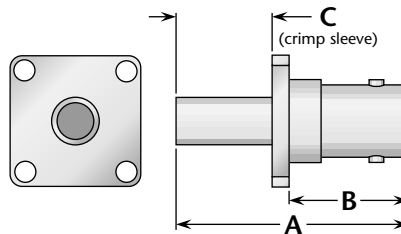


**Figure 1**

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
5, 6 <sup>§</sup>	1	1.16	.55	.50	07	Nickel	Silver (C)	1011-018-N075	E/03
RG-223	1	1.16	.55	.50	07	Nickel	Silver (C)	1011-015-N075	E/03
7	1	1.16	.55	.50	07	Nickel	Silver (C)	1011-019-N075	E/03
8A	1	1.16	.55	.50	07	Nickel	Silver (C)	1011-029-N075	E/03
8B	1	1.16	.55	.50	07	Nickel	Silver (C)	1011-043-N075	E/03
9	1	1.16	.55	.50	07	Nickel	Silver (C)	1011-037-N075	E/03
10	1	1.16	.55	.50	07	Nickel	Silver (C)	1011-100-N075	E/03
11	1	1.16	.55	.50	07	Nickel	Silver (C)	1011-038-N075	E/03

§Except RG-223/U.

## Panel Jack—Crimp Type for Flexible Cable

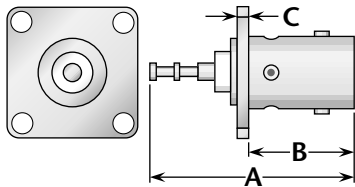


**Figure 1**

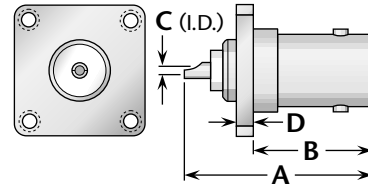
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
5	1	1.22	.63	.50	09	Nickel	Gold (C)	1055-017-N091	B/12
6	1	1.22	.63	.50	09	Nickel	Gold (C)	1055-015-N091	B/12
7	1	1.22	.63	.50	09	Nickel	Gold (C)	1055-019-N091	B/12

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

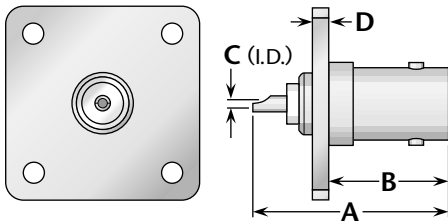
## Panel Jack Receptacles—Square Flange



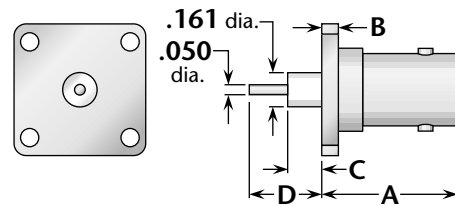
**Figure 1**  
(Turret contact)



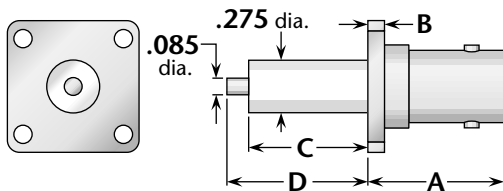
**Figure 2**  
(Solder pot contact)



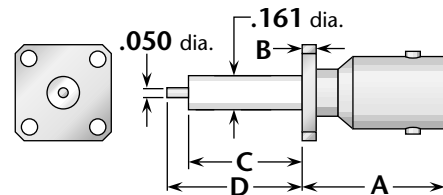
**Figure 3**  
(Solder pot contact, 1" square flange,  
interchangeable with type N standard flange size)



**Figure 4**  
(Post contact)



**Figure 5**  
(Post contact)



**Figure 6**  
(Post contact, 1/2" square flange,  
interchangeable with SMA standard flange size)

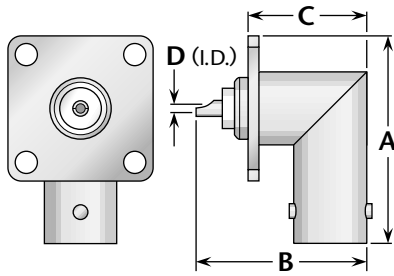
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.55	.050	—	18	Nickel	Silver (C)	UG-185/U
2	1.06	.63	.062	.090	07	Nickel	Silver (C)	UG-290A/U
2	1.06	.63	.043	.090	12	Nickel	Silver (C)	UG-447/U
2	1.06	.63	.062	.090	07	Silver	Gold (C)	M39012/22-0001
2	1.06	.63	.062	.090	09	Nickel	Silver (C)	1013-000-N090
2	1.06	.63	.062	.090	10	Nickel	Silver (C)	1013-000-N100
2	1.06	.63	.062	.090	18	Nickel	Gold (C)	1013-000-N180
2	1.00	.75	.062	.080	18 <sup>§</sup>	Nickel	Gold (C)	1013-000-F181**
3	1.06	.63	.062	.080	33	Nickel	Silver (C)	1013-000-N330
4	.715	.090	.175	.375	09	Nickel	Silver (C)	1058-000-N091
5	.750	.080	.590	.705	18 <sup>§</sup>	Nickel	Gold (C)*	1058-000-N181-1
6	.750	.080	.590	.705	05	Nickel	Gold (C)	1058-000-N051

(C) in contact plating column indicates captive contact. • \*Indicates epoxy-captivated contact. • \*\*Insulator flush with rear of flange.

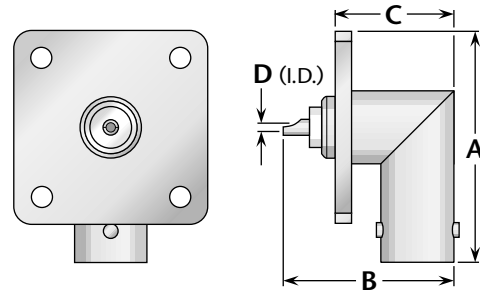
<sup>§</sup>Flange #18 except with .125 dia. mounting holes. • See page 6 for alternate body plating information.

See page 203 for mounting dimensions. • All items are available with other flange sizes and contact configurations.

## Right Angle Panel Jack Receptacle—Square Flange



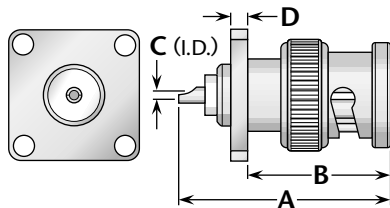
**Figure 1**  
(Solder pot contact)



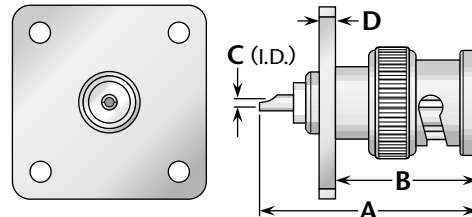
**Figure 2**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.09	.91	.61	.062	18	Nickel	Silver (C)	UG-535/U
1	1.06	.91	.65	.062	07	Nickel	Silver (C)	1015-000-N070
1	1.06	.91	.65	.062	09	Nickel	Gold (C)	1015-000-N090
2	1.22	.91	.61	.062	33	Nickel	Silver (C)	1015-000-N330

## Panel Plug Receptacle—Square Flange



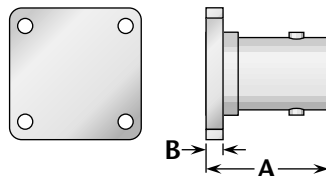
**Figure 1**  
(Solder pot contact, 3/4" square flange)



**Figure 2**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.19	.80	.062	.090	18	Nickel	Silver (C)	UG-1104A/U
2	1.19	.80	.062	.080	33	Nickel	Silver (C)	1023-000-N330

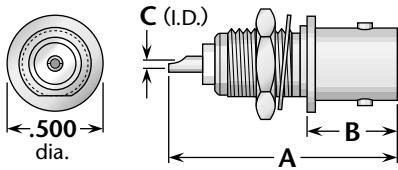
## Dummy Receptacle



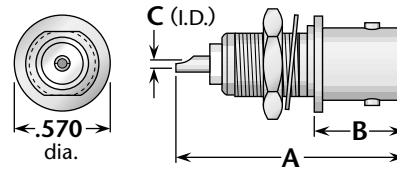
Dimensions		Mounting Figure	Plating		Delta P/N
A	B		Body	Contact	
.75	.090	09	Nickel	—	1063-000-N090

(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions. • All items are available with other flange sizes and contact configurations.

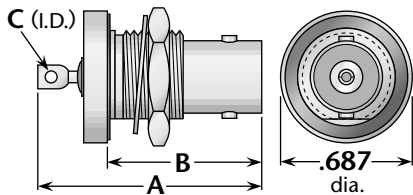
## Bulkhead Jack Receptacles



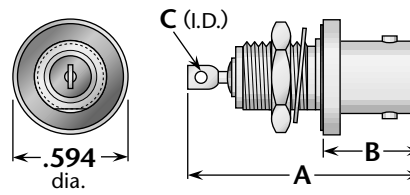
**Figure 1**  
(Front mount)



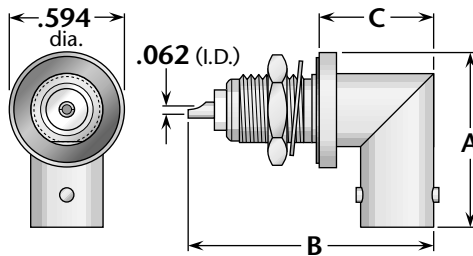
**Figure 2**  
(Front mount, pressurized [non-hermetic], with mounting gasket)



**Figure 3**  
(Rear mount, hermetically sealed, with mounting gasket)



**Figure 4**  
(Front mount, hermetically sealed, with mounting gasket)



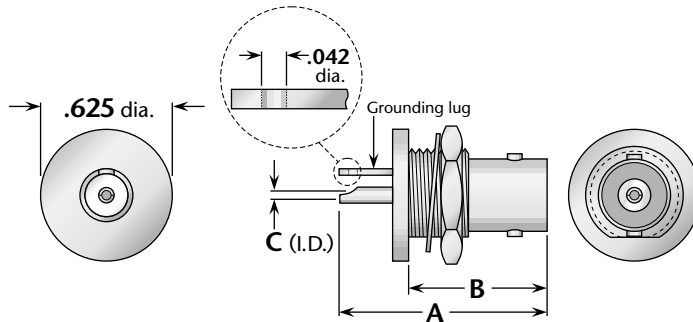
**Figure 5**  
(Right angle, solder pot contact)

Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.06	.49	.062	.13	62	Nickel	Silver (C)	UG-625B/U
2	1.28	.60	.052	.19	75	Nickel	Silver (C)	UG-657/U
2	1.28	.60	.052	.19	75	Nickel	Silver (C)	UG-657A/U
1	1.06	.47	.062	.13	65	Nickel	Silver (C)	UG-1094/U
1	1.19	.47	.062	.26	65	Nickel	Silver (C)	UG-1094A/U
1	1.06	.49	.062	.13	62	Silver	Gold (C)	M39012/21-0001
1	1.19	.47	.062	.26	65	Silver	Gold (C)	M39012/21-0002
1	1.19	.47	.062	.26	62	Silver	Gold (C)	M39012/21-0003
3	1.20	.83	.062	.26	59	Nickel	Silver (C)	UG-911A/U
3	1.20	.83	.062	.26	59	Silver	Gold (C)	M39012/24-0001
4	1.20	.52	.062	.26	65	Nickel	Silver (C)	UG-912/U
4	1.33	.52	.062	.34	65	Nickel	Silver (C)	UG-912A/U
4	1.20	.52	.062	.26	65	Silver	Gold (C)	M39012/24-0002
5	.92	1.22	.59	.13	63	Nickel	Silver (C)	UG-1098/U
5	.92	1.34	.59	.25	63	Nickel	Silver (C)	UG-1098A/U
5	.92	1.22	.59	.13	62	Nickel	Silver (C)	UG-1174/U

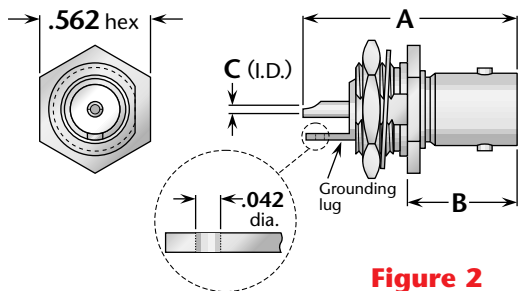
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions. • All items are available with other flange sizes and contact configurations.

**Bulkhead Jack Receptacles with Solder Lug**

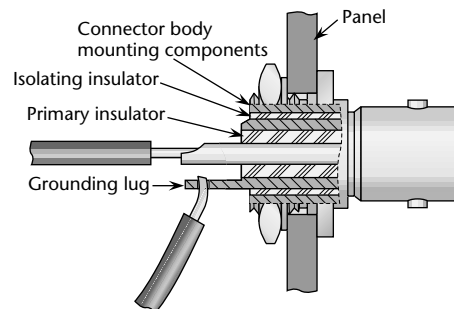
**Figure 1**  
(Standard grounding)



**Isolated-Ground Receptacles**



**Figure 2**  
(Isolated ground)



These receptacles feature an additional insulator between the main connector body and the body's mounting surfaces, electrically isolating the ground signal of the circuit from the panel. The circuit ground signal is passed through the panel via the solder lug for termination inside the equipment. Since they are not a triaxial connector design, isolated-ground receptacles can be used with any standard BNC plugs.

Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.06	.75	.062	.17	59	Nickel	Gold (C)	1021-000-N591
2	1.06	.50	.062	.17	59	Nickel	Gold (C)	1020-000-F59G

**Bulkhead Plug Receptacle**

**Figure 1**  
(Front mount)

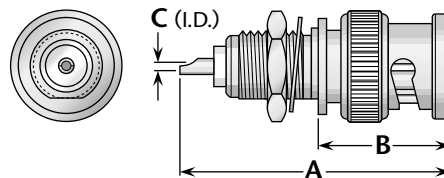


Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.25	.69	.062	.16	65	Nickel	Silver (C)	1024-000-N651

(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions. • All items are available with other flange sizes and contact configurations.



## Receptacles for Printed Circuit Boards

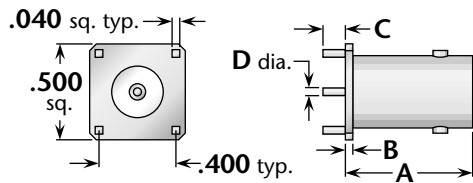
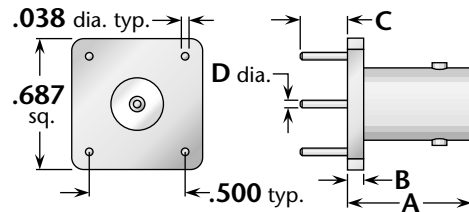
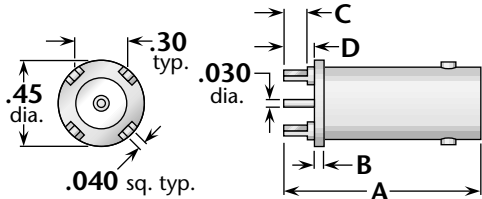
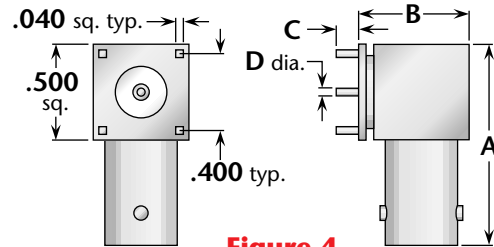
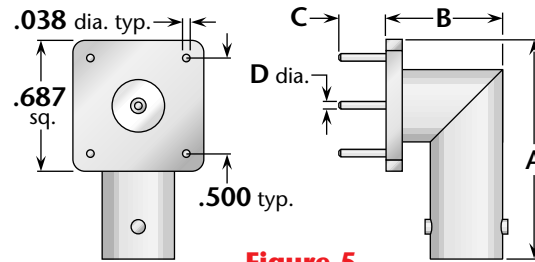

**Figure 1**

**Figure 2**

**Figure 3**

**Figure 4**

**Figure 5**

Figure	Dimensions				Max. Board Thickness	Mounting Figure	Plating		Delta P/N
	A	B	C	D			Body	Contact	
1	.66	.040	.116	.040	.063	PCB01	Nickel	Gold (C)	1058-000-N04P
1	1.15	.040	.116	.040	.063	PCB01	Nickel	Gold (C)	1058-000-N04P-1
2	.65	.085	.250	.038	.125	PCB02	Nickel	Gold (C)	1058-000-N13P
3	1.03	.050	.125	.160	.063	PCB03	Nickel	Silver (C)	1067-000-N91P-1
4	1.06	.575	.116	.040	.063	PCB01	Nickel	Gold (C)	1069-000-N03P
5	.95	.61	.250	.038	.125	PCB02	Nickel	Gold (C)	1069-000-N13P

## Stripline Receptacles

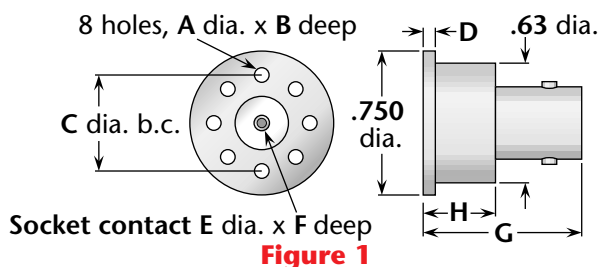
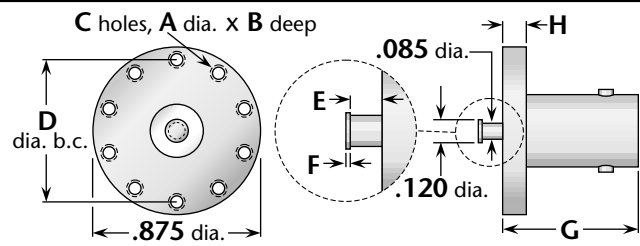
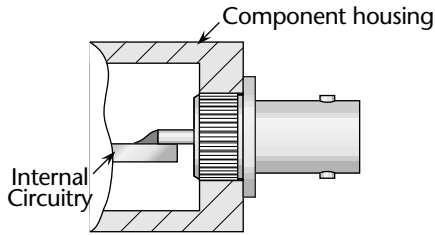

**Figure 1**

**Figure 2**

Figure	Dimensions								Plating		Delta P/N
	A	B	C	D	E	F	G	H	Body	Contact	
1	.078	.31	.500	.063	.063	.22	.828	.375	Nickel	Gold (C)	1056-000-N000
2	#2-56	.125	10	.734	.125	.010	.710	.125	Nickel	Gold	1057-000-N000

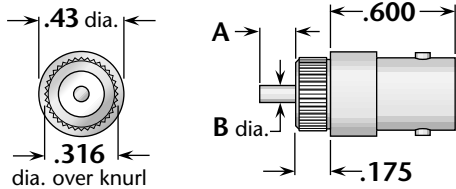
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions.

**PressMount Receptacles**

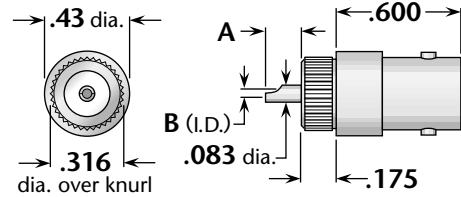
**Delta PressMount Receptacles**



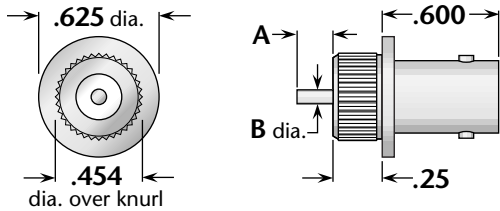
These connectors eliminate the need for complicated mounting hole patterns and mounting hardware. They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength far greater than normal mating and unmating forces. An integral shoulder provides a positive stop when mounting. PressMounts are available for a wide variety of Delta connector series, and can be used in packages as small as the outer diameter of the connector body.



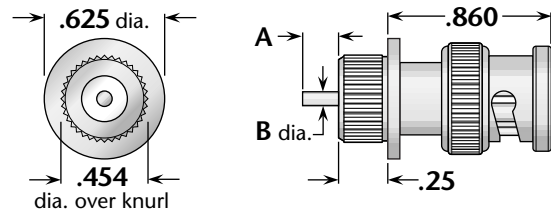
**Figure 1**  
(Post contact)



**Figure 2**  
(Solder pot contact)



**Figure 3**  
(Post contact)

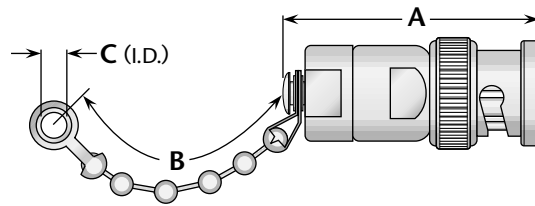


**Figure 4**  
(Plug type, post contact)

Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.062	.050	.150	.312 ±.001 dia.	Nickel	Silver (C)	1020-000-N911-1
2	.285	.062	.150	.312 ±.001 dia.	Nickel	Silver (C)	1020-000-N911-2
3	.060	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1020-000-N911-13
4	.060	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1024-000-N911-4

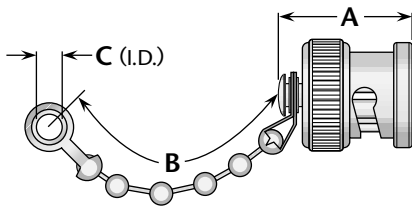
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information. All items are available with other flange sizes and contact configurations.

### Resistive Termination (Plug Type)

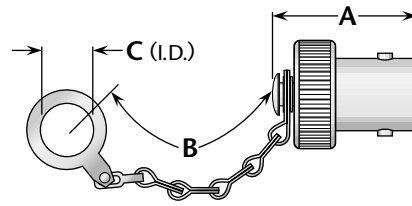


Resistor	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
51Ω ±5%, 1/2 Watt	1.25	3.50	.144		Nickel	Gold (C)	MX-554/U
51Ω ±5%, 1/2 Watt	1.41	3.50	.144		Nickel	Silver (C)	MX-554A/U
51Ω ±5%, 1/2 Watt	1.14	—	—	No chain	Nickel	Gold (C)	1031-000-N00A-3
51Ω ±5%, 1 Watt	1.50	4.50	.130		Nickel	Silver (C)	1051-000-N000
51Ω ±5%, 1 Watt	1.39	—	—	No chain	Nickel	Silver (C)	1051-000-N00A-5
75Ω ±5%, 1/2 Watt	1.41	3.50	.144		Nickel	Silver (C)	1031-000-N000-4
75Ω ±5%, 1/2 Watt	1.14	—	—	No chain	Nickel	Gold (C)	1031-000-N00A-1
75Ω ±5%, 1 Watt	1.39	—	—	No chain	Nickel	Silver (C)	1051-000-N00A-2

### Dust Caps



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

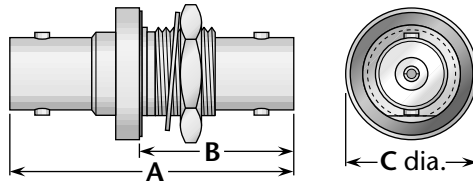


**Figure 2**  
(Shown with safety chain)

Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.67	2.25	.144	Bead chain	Nickel	—	CW-123A/U
1	.59	—	—	No chain	Nickel	—	CW-155A/U
1	.69	2.25	.144	Bead chain / shorting type	Nickel	Silver (C)	CW-159/U
1	.67	2.25	.144	Bead chain	Silver	—	M39012/25-0006
1	.67	2.70	.52	Safety chain	Silver	—	M39012/25-0007
2	.69	3.25	.281	Bead chain	Nickel	—	CW-282/U
2	.69	3.25	.281	Bead chain	Silver	—	M39012/25-0008
2	.69	3.25	.281	Safety chain	Silver	—	M39012/25-0009

(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.

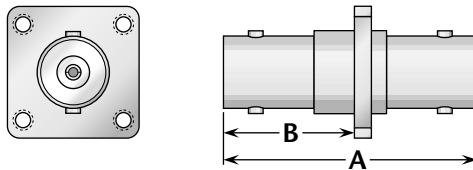
## Bulkhead Jack-Jack Adapter (Connects two plugs)



Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.53	.86	.69	.275	59	Nickel	Silver (C)	UG-492A/U*
1.53	.86	.69	.275	59	Nickel	Silver (C)	UG-492C/U*
1.53	.86	.69	.275	59	Nickel	Silver (C)	UG-492D/U*
1.53	.86	.69	.275	59	Silver	Gold (C)	M55339/13-00492*
1.28	.80	.625	.160	59	Nickel	Silver (C)	1026-000-N591

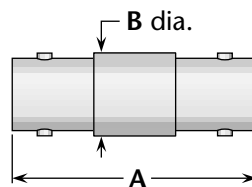
\* Hermetically sealed, with mounting gasket.

## Panel Mounted Jack-Jack Adapter (Connects two plugs)



Dimensions		Mounting Figure	Plating		Delta P/N
A	B		Body	Contact	
1.28	.69	07	Nickel	Silver (C)	UG-414A/U

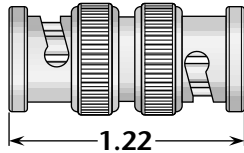
## Straight Jack-Jack Adapter (Connects two plugs)



Dimensions		Plating		Delta P/N
A	B	Body	Contact	
1.28	.44	Nickel	Silver (C)	UG-914/U
1.28	.44	Silver	Gold (C)	M55339/16-00914
1.28	.44	Nickel	Gold (C)	1028-000-N001-3

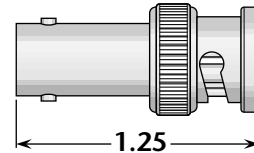
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions.

## Straight Plug-Plug Adapter (Connects two jacks)



Plating		Delta P/N
Body	Contact	
Nickel	Silver (C)	UG-491B/U
Silver	Gold (C)	M55339/15-00491

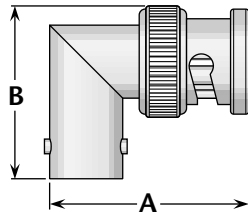
## Straight Plug-Jack Adapter (Connects one jack and one plug)



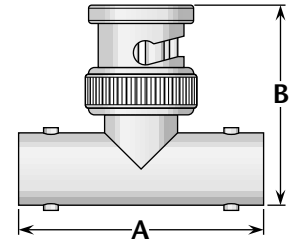
Plating		Delta P/N
Body	Contact	
Nickel	Gold (C)	1034-000-N000

## Right Angle and Tee Adapters

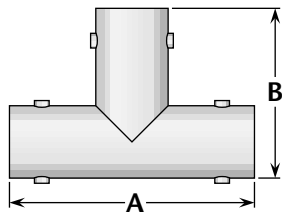
**Figure 1**  
(Right angle plug-jack;  
connects one plug  
and one jack)



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



**Figure 3**  
(Tee jack-jack-jack;  
connects three plugs)



**Figure 4**  
(Tee jack-jack-plug;  
connects two plugs  
and one jack)

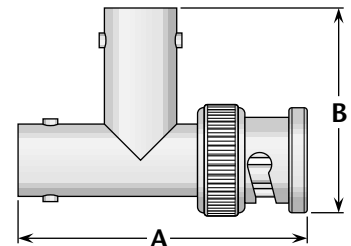


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.06	.88	Nickel	Silver (C)	UG-306A/U
1	1.06	.88	Nickel	Silver (C)	UG-306B/U
1	1.06	.88	Silver	Gold (C)	M55339/14-00306
1	1.06	.88	Nickel	Gold (C)	1029-000-N000-3
2	1.28	1.03	Nickel	Silver (C)	UG-274A/U
2	1.28	1.03	Nickel	Silver (C)	UG-274B/U
2	1.28	1.03	Nickel	Gold (C)	UG-274C/U
2	1.28	1.03	Silver	Gold (C)	M55339/17-00274
3	1.28	.89	Nickel	Silver (C)	1038-000-N000-2
3	1.28	.97	Silver	Gold (C)	M55339/17-00002
4	1.50	1.06	Nickel	Silver (C)	1049-000-N000
4	1.50	1.06	Silver	Gold (C)	M55339/17-00001

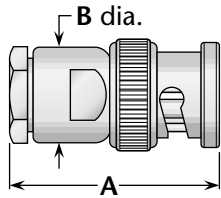
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



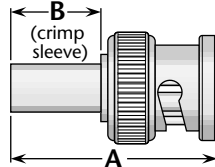
## BNC75 Configurations

Straight Cable Plugs .....	31	Panel Plug Receptacles.....	32
Right Angle Cable Plugs .....	31	Printed-Circuit Board Receptacles .....	32
Bulkhead Cable Jacks .....	31	Bulkhead Jack Receptacles .....	33
Panel Jack Receptacles (square flange) .....	32	In-Series Adapters .....	33

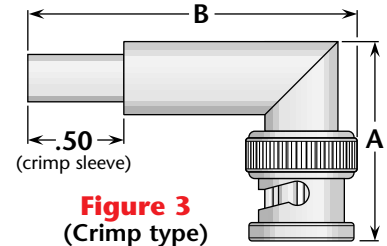
## Straight and Right Angle Plugs for Flexible Cable



**Figure 1**  
(Heli-Grip® cable hardware)



**Figure 2**  
(Crimp type)

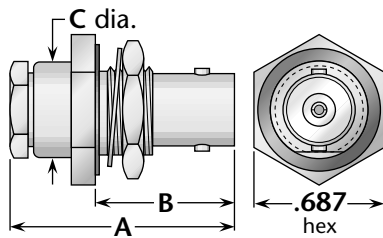


**Figure 3**  
(Crimp type)

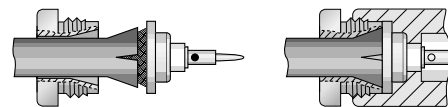
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
7	1	1.06	.50	Nickel	Silver (C)	7501-019-N005	E/03
7	2	1.09	.50	Nickel	Gold	7503-020-N000-2	B/19
7	2	1.05	.41	Nickel	Gold (C)	7503-020-N001	B/26
7	3	1.03	1.71	Nickel	Gold	7507-019-N000	B/02
9	1	1.06	.50	Nickel	Silver (C)	7501-037-N005	E/03
9	2	1.13	.39	Nickel	Gold	7503-037-N001	B/27
9	3	1.03	1.71	Nickel	Gold	7507-037-N000	B/02
26	2	1.10	.45	Nickel	Gold (C)	7503-108-N001	B/26
31	2	1.13	.50	Nickel	Gold	7503-279-N001	B/19

## Bulkhead Jack—Heli-Grip® for Flexible Cable

**Figure 1**  
(Rear mount)



### Heli-Grip® Cable Attachment

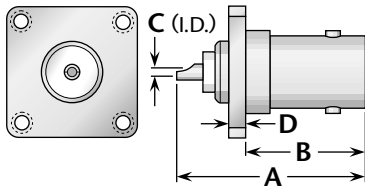


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

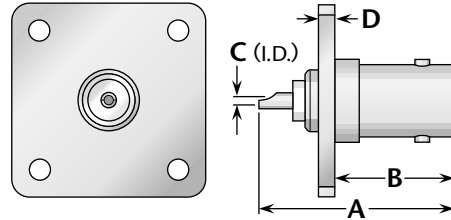
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C			Body	Contact		
7	1	1.16	.81	.50	59	.24	Nickel	Gold (C)	7516-019-N595	E/03
9	1	1.16	.81	.50	59	.24	Nickel	Gold (C)	7516-037-N595	E/03

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

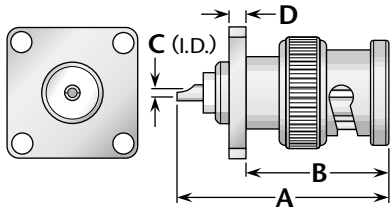
## Panel Jack and Plug Receptacles—Square Flange



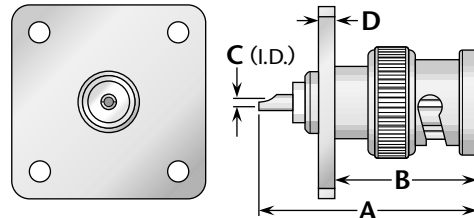
**Figure 1**  
(Solder pot contact, 11/16" square flange)



**Figure 2**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)



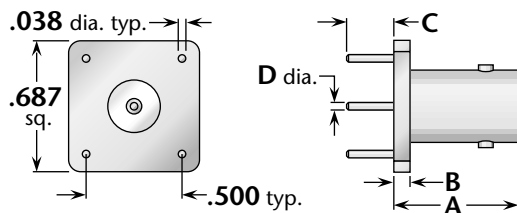
**Figure 3**  
(Solder pot contact, 3/4" square flange)



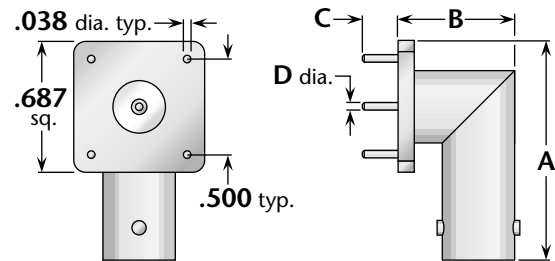
**Figure 4**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.63	.030	.090	09	Nickel	Gold (C)	7513-000-N091
2	1.06	.63	.030	.080	33	Nickel	Gold (C)	7513-000-N331-2
3	1.19	.80	.030	.090	18	Nickel	Gold (C)	7523-000-N180
4	1.19	.80	.030	.080	33	Nickel	Gold (C)	7523-000-N331-1

## Receptacles for Printed Circuit Boards



**Figure 1**

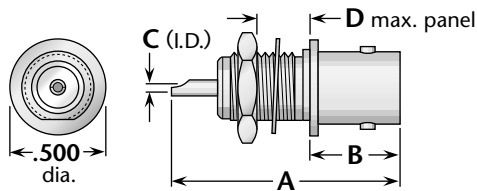


**Figure 2**

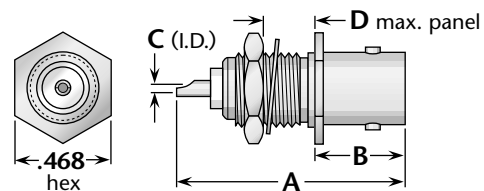
Figure	Dimensions				Max. Board Thickness	Mounting Figure	Plating		Delta P/N
	A	B	C	D			Body	Contact	
1	.65	.085	.250	.038	.125	PCB02	Nickel	Gold (C)	7567-000-N13P-1
2	1.34	.52	.125	.038	.063	PCB02	Nickel	Silver (C)	7569-000-N13P

(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.  
See page 6 for alternate body plating information.

## Bulkhead Jack Receptacle



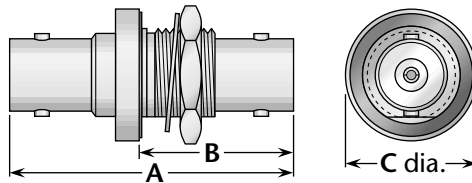
**Figure 1**  
(D-hole mounting)



**Figure 2**  
(Round hole mounting)

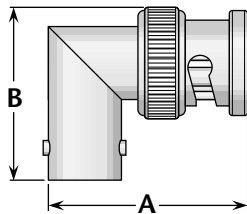
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.57	.030	.13	65	Nickel	Gold (C)	7520-000-N651-1
2	1.06	.47	.030	.13	89	Nickel	Gold (C)	7521-000-N621-2

## Bulkhead Jack-Jack Adapter (Connects two plugs)

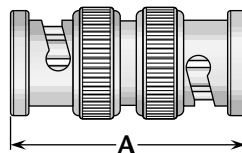


Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.28	.76	.625	.16	59	Nickel	Silver (C)	7526-000-N591*
1.28	.80	.625	.16	59	Nickel	Silver (C)	7526-000-N591-1

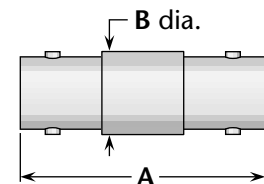
## Straight and Right Angle Adapters



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



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



**Figure 3**  
(Straight jack-jack;  
connects two plugs)

Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.06	.88	Nickel	Gold (C)	7529-000-N000
2	1.22	—	Nickel	Gold (C)	7527-000-N001
3	1.28	.44	Nickel	Gold (C)	7528-000-N001

(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions. • \*Isolated ground mounting.

## General Description

Delta C series connectors are medium-size, 50Ω impedance connectors with two-stud bayonet coupling and good power handling capability, particularly those connectors noted as high-voltage types. They are best suited for use with cables in the range of .350" to .450" diameter, but are available for other cables from .100" to over 1" diameter. Our extensive line of C 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 C and other series are shown starting on page 176.

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

- High-voltage types for high-power applications.
- Cable plugs and jacks for armored cables.

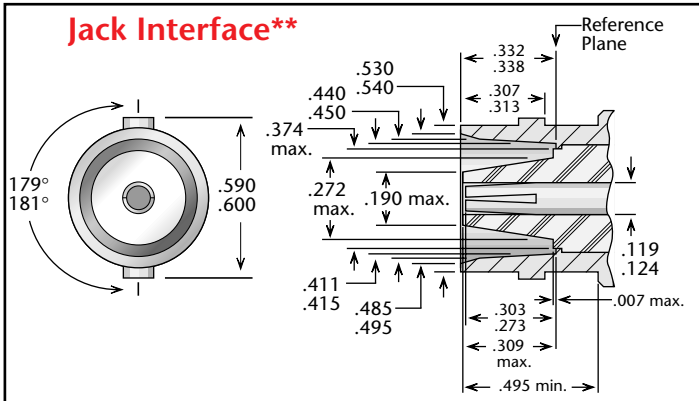
Our C series product line is still growing, so please call if you don't see what you need.

## C Configurations

Straight Cable Plugs .....	35	Dummy Receptacles .....	37
Right Angle Cable Plugs .....	35	Panel Plug Receptacles.....	38
Straight Cable Jacks .....	36	Bulkhead Jack Receptacles .....	38
Bulkhead Cable Jacks .....	36	Dust Caps.....	39
Panel Cable Jacks .....	37	In-Series Adapters .....	39
Panel Jack Receptacles (square flange) .....	37		

## C Specifications\*

### Jack Interface\*\*



### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–11 GHz (standard);  
 DC–2 GHz (high-voltage).  
**Voltage Rating:** 1,000 volts RMS (standard);  
 3,000 volts RMS (high-voltage).  
**Dielectric Withstanding Voltage:** 3,000 VRMS.  
**Insulation Resistance:** 5,000 megohms.

### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.  
**Male Contacts:** Brass per ASTM-B-16.  
**Female Contacts:** Beryllium Copper per  
 ASTM-B-196.  
**Contact Plating:** Silver per QQ-S-365, or  
 Gold per MIL-G-45204.

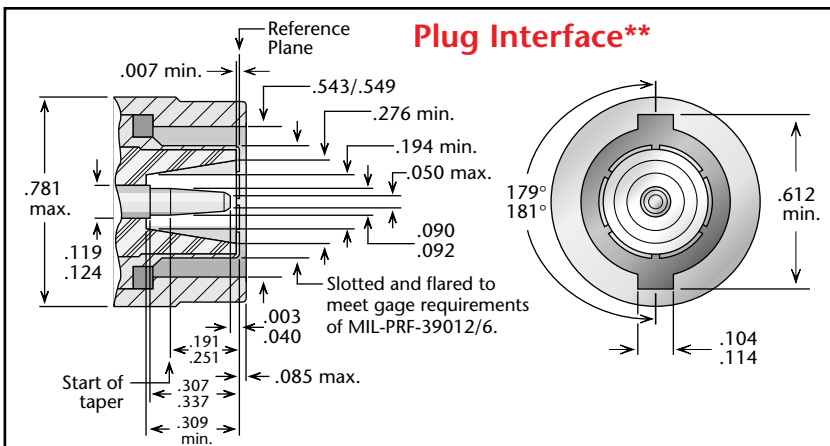
**Gaskets:** Silicone rubber per ZZ-R-765,  
 Class II, Grade 50.

**Other Metal Parts:** Brass per ASTM B16,  
 plated:  
 Silver per QQ-S-365, or  
 Nickel per 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.

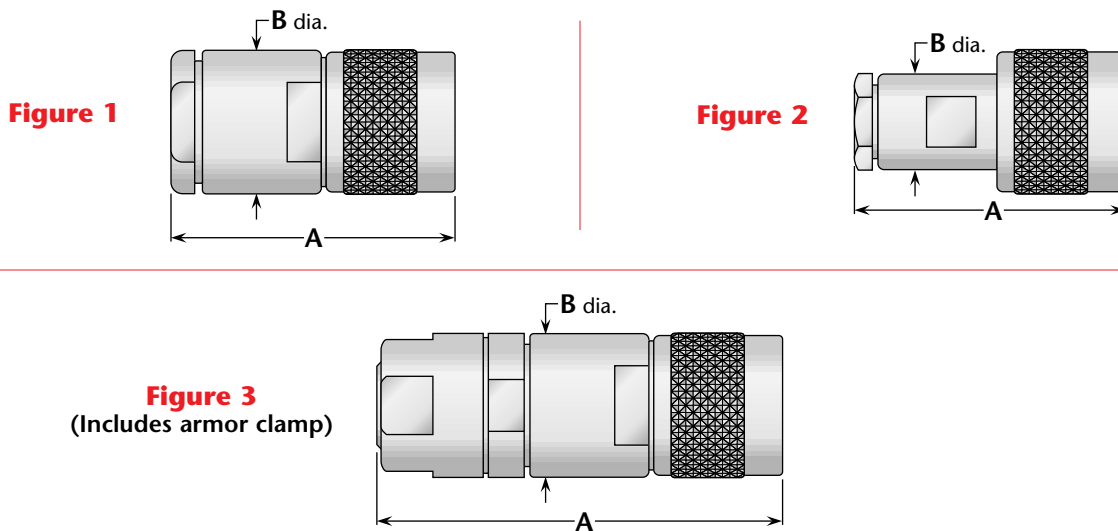
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

### Plug Interface\*\*



\*\*Some proportions altered to illustrate detail.

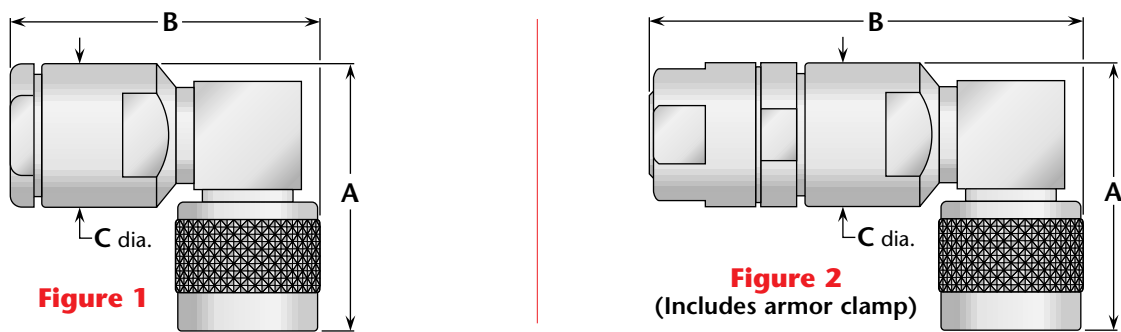
## Straight Plug—Military Clamp for Flexible Cable



Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.50	.75	Nickel	Silver	UG-626B/U	A/20
2, 3	1	1.50	.75	Nickel	Silver	UG-573B/U	A/20
2, 3	1	1.72	.75	Nickel	Silver	UG-628A/U*	A/21
2, 3	1	1.50	.75	Nickel	Silver (C)	1401-004-N001	A/01
5, 6	2	1.36	.50	Nickel	Silver	UG-709B/U	A/13
5, 6	2	1.36	.50	Nickel	Silver (C)	1401-015-N001	A/02
7	2	1.36	.50	Nickel	Silver	UG-627B/U	A/22
15	3	2.13	.75	Nickel	Silver	UG-943B/U	D/04
16	1	1.63	.88	Nickel	Silver	UG-707A/U	A/23

\* High-voltage type.

## Right Angle Plug—Military Clamp for Flexible Cable

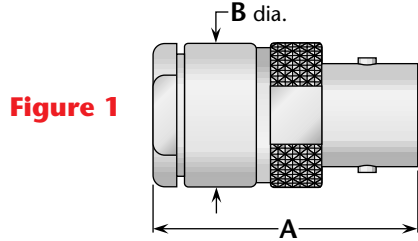


Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
2, 3	1	1.35	1.62	.75	Nickel	Gold	UG-710B/U	A/07
2, 3	1	1.35	1.62	.75	Nickel	Silver (C)	1404-004-N001	A/01
15	2	1.35	2.31	.75	Nickel	Silver	UG-945B/U	D/01
16	1	1.41	1.78	.88	Nickel	Silver	1404-007-N000	A/24

See page 204 for cable groups. • Assembly procedures start on page 205.  
 (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

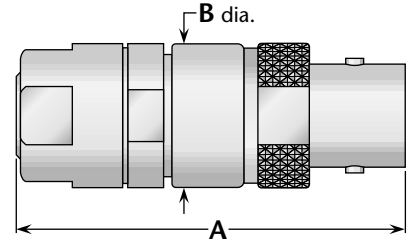


## Straight Jack—Military Clamp for Flexible Cable



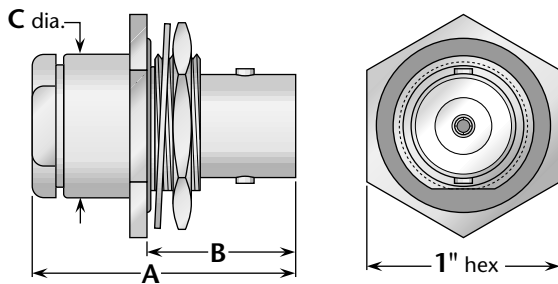
**Figure 1**

**Figure 2**  
(Includes armor clamp)

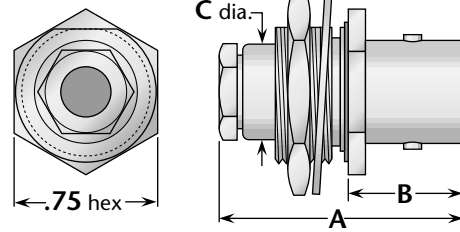


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.41	.75	Nickel	Silver	UG-633A/U	A/20
2, 3	1	1.41	.75	Nickel	Silver	UG-572A/U	A/20
2, 3	1	1.41	.75	Nickel	Silver (C)	1408-004-N001	A/01
15	2	2.00	.75	Nickel	Silver	UG-944A/U	D/04

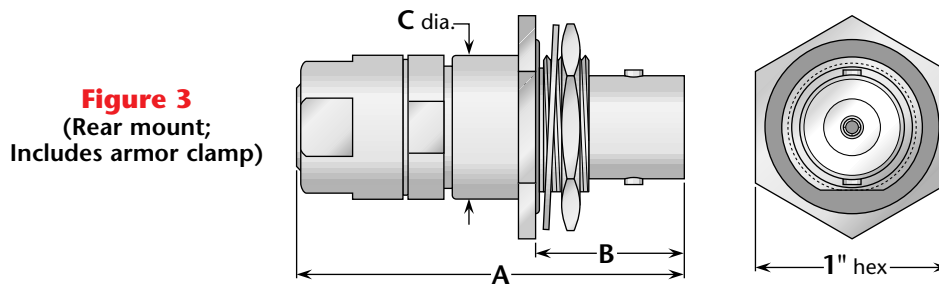
## Bulkhead Jack—Military Clamp for Flexible Cable



**Figure 1**  
(Rear mount)



**Figure 2**  
(Front mount)



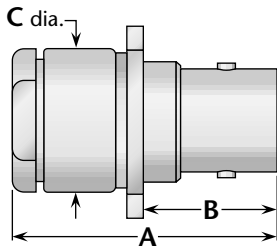
**Figure 3**  
(Rear mount;  
Includes armor clamp)

Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C			Body	Contact		
1	1	1.41	.75	.75	51	.125	Nickel	Silver	UG-630A/U	A/20
2, 3	1	1.41	.75	.75	51	.125	Nickel	Silver	UG-570A/U	A/20
2, 3	1	1.72	.75	.75	51	.125	Nickel	Silver	UG-632A/U*	A/21
2, 3	1	1.41	.75	.75	51	.125	Nickel	Silver (C)	1416-004-N511	A/01
5, 6	2	1.25	.59	.50	54	.190	Nickel	Silver	UG-704B/U	A/25
7	2	1.25	.59	.50	54	.190	Nickel	Silver	UG-631A/U	A/22
15	3	2.00	.75	.75	51	.125	Nickel	Silver	UG-937A/U	D/04

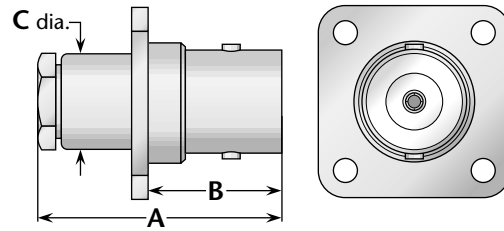
\* High-voltage type.

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

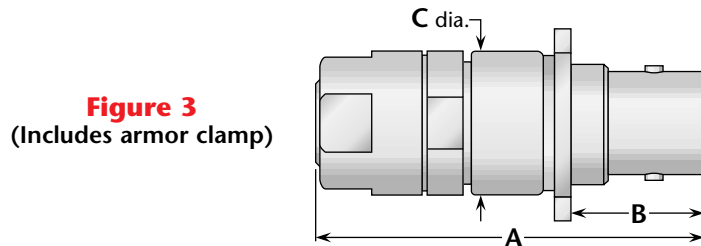
## Panel Jack—Military Clamp for Flexible Cable



**Figure 1**



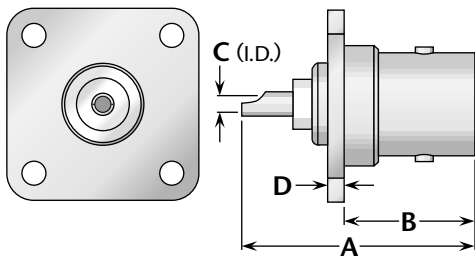
**Figure 2**



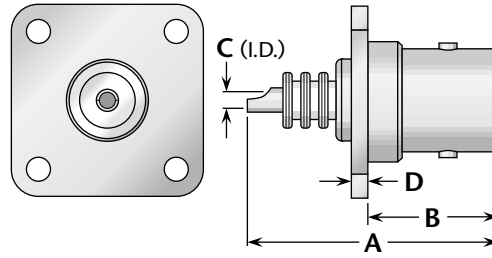
**Figure 3**  
(Includes armor clamp)

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
1	1	1.41	.69	.75	26	Nickel	Silver	UG-629A/U	A/20
2, 3	1	1.41	.69	.75	26	Nickel	Silver	UG-571A/U	A/20
2, 3	1	1.41	.69	.75	26	Nickel	Silver (C)	1411-004-N261	A/01
5, 6	2	1.28	.67	.50	26	Nickel	Silver	1411-015-N260	A/25
15	3	2.00	.69	.75	26	Nickel	Silver	UG-938A/U	D/04

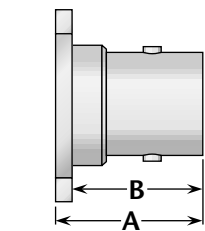
## Panel Jack Receptacle—Square Flange



**Figure 1**  
(Solder pot contact)



**Figure 2**  
(Solder pot contact)



**Figure 3**  
(Dummy receptacle)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.67	.106	.080	26	Nickel	Silver (C)	UG-568/U
1	1.06	.67	.106	.080	33	Nickel	Silver (C)	1413-000-N331
2	1.31	.67	.106	.080	33	Nickel	Gold (C)	1413-000-N331-1*
3	.740	.080	—	—	33	Nickel	—	1463-000-N330

\* High-voltage type.

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

**Panel Plug Receptacle—Square Flange**

**Figure 1**  
(Solder pot contact)

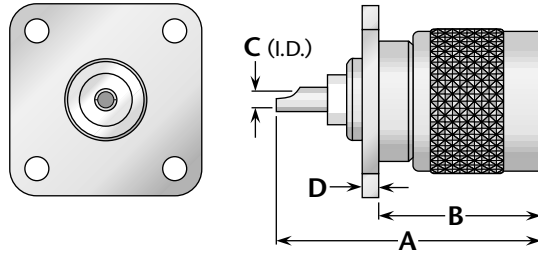
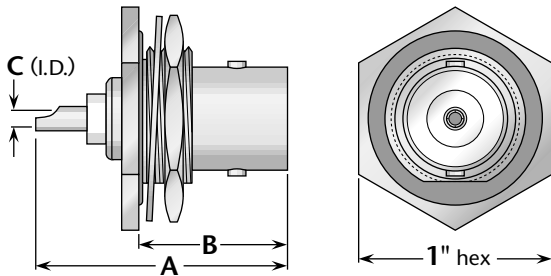
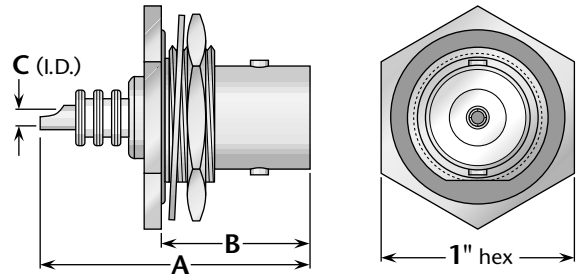


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.25	.83	.106	.080	33	Nickel	Silver (C)	1423-000-N331

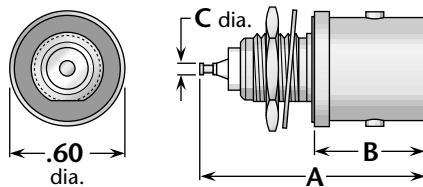
**Bulkhead Jack Receptacles**



**Figure 1**  
(Rear mount, with mounting gasket)



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



**Figure 3**  
(Front mount, with mounting gasket)

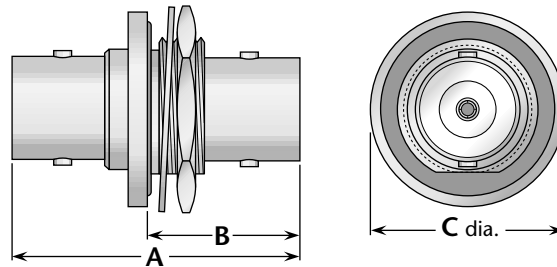
Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.06	.75	.106	.125	51	Nickel	Silver (C)	UG-569A/U
2	1.32	.75	.106	.125	51	Nickel	Silver (C)	UG-634/U*
3	1.10	.58	.061	.125	65	Nickel	Silver (C)	UG-706A/U

\* High-voltage type.

See page 203 for mounting dimensions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Bulkhead Jack-Jack Adapter

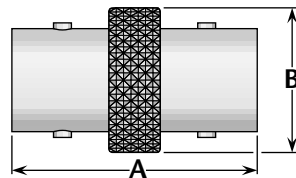
(Connects two plugs)



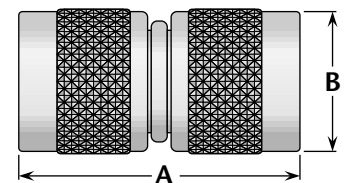
Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.50	.855	1.00	.200	51	Nickel	Silver (C)	UG-1138A/U*
1.50	.855	1.00	.200	51	Nickel	Silver (C)	1426-000-N511

## Straight, Right Angle, and Tee Adapters

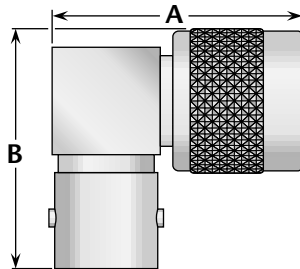
**Figure 1**  
(Straight jack-jack;  
connects two plugs)



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



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



**Figure 4**  
(Tee jack-plug-jack;  
connects two plugs  
and one jack)

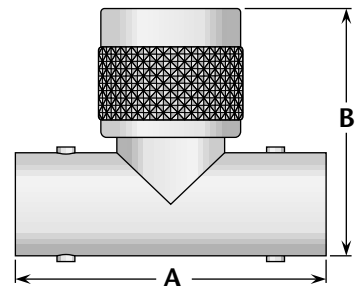
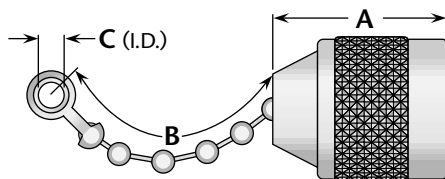


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.28	.75	Nickel	Silver (C)	UG-643/U
2	1.45	.75	Nickel	Silver (C)	UG-642A/U
3	1.25	1.16	Nickel	Silver (C)	UG-567A/U
4	1.52	1.28	Nickel	Silver (C)	UG-566A/U

## Dust Caps

**Figure 1**



**Figure 2**

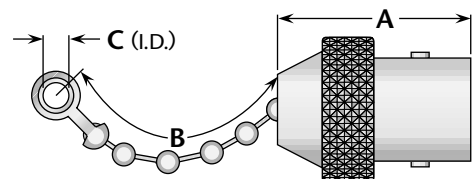


Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.91	2.50	.144	Bead chain	Nickel	—	MX-1142A/U
2	.89	3.50	.144	Bead chain	Nickel	—	MX-1143A/U

\*Hermetically sealed. • See page 203 for mounting dimensions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## General Description

Delta G874 connectors are hermaphroditic, 50Ω impedance connectors with an interface compatible with all General Radio GR874 series connectors. This slide-on interface has been a standard for many years on a wide variety of test equipment, due to its good electrical characteristics and ease of mating.

All connectors in this series are also available with a locking interface for added mechanical security where needed. Locking and non-locking interfaces are intermateable.

## Specifications

### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–8.5 GHz, or as noted.

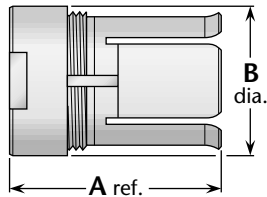
### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.  
**Contacts:** Beryllium Copper per ASTM B196.  
**Contact Plating:** Albaloy (see page 4 for details)

**Gaskets:** Silicone rubber per 2-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, Nickel plated per QQ-N-290, or Albaloy plated.

## Interface Kit

**Figure 1**  
(Non-locking)



**Figure 2**  
(Locking)

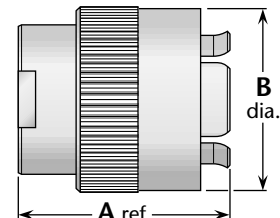
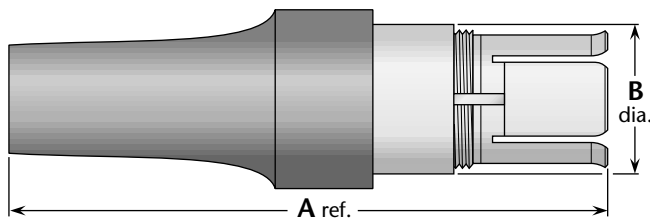
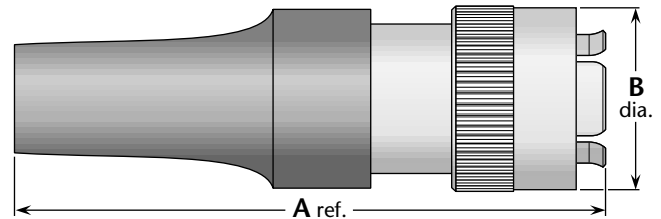


Figure	Dimensions		Plating	Delta P/N
	A	B		
1	1.09	.81	See specifications	2801-000-N000-1
2	1.12	.99	See specifications	2801-000-N000

## Cable Connector—Crimp Type for Flexible Cable



**Figure 1**  
(Non-locking)



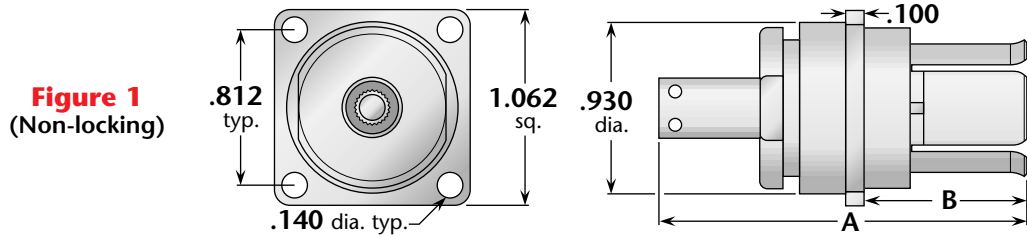
**Figure 2**  
(Locking)

Cable Group	Figure	Dimensions		Plating	Delta P/N	Assembly Procedure/ Trim Code
		A	B			
2, 3	1	3.27	.81	See specifications	2802-002-F001-1	***
2, 3	2	3.27	.99	See specifications	2802-002-F001	***
5, 6	1	3.27	.81	See specifications	2802-012-N001-1	***
5, 6	2	3.27	.99	See specifications	2802-012-N001	***
7	1	3.27	.81	See specifications	2802-021-N001-1	***
7	2	3.27	.99	See specifications	2802-021-N001	***
9	1	3.27	.81	See specifications	2802-037-N001-1	***
9	2	3.27	.99	See specifications	2802-037-N001	***

See page 204 for cable groups. • \*\*\*Contact factory for cable assembly instructions. • Change N in part numbers to Q for Albaloy body.

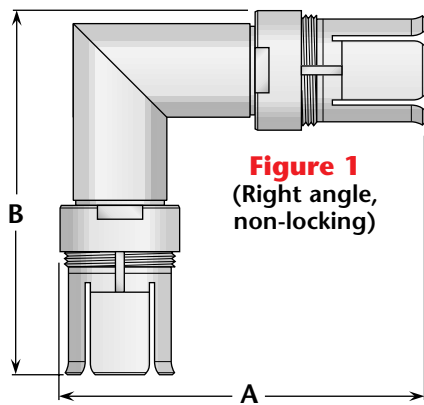


## Panel Mounted Connector—Crimp Type for Flexible Cable

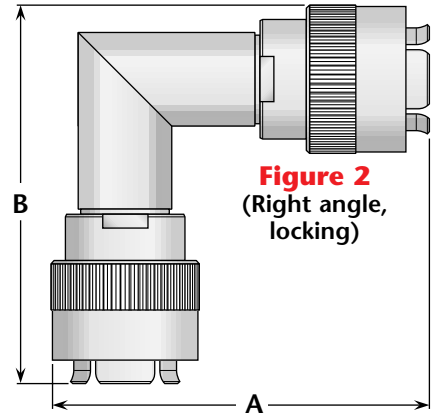


Cable Group	Figure	Dimensions		Plating	Delta P/N	Assembly Procedure/ Trim Code
		A	B			
2	1	1.80	.90	See specifications	2811-002-N911	***
3	1	1.80	.90	See specifications	2811-004-N911	***
5	1	1.86	.90	See specifications	2811-017-N911	***
6	1	2.10	.90	See specifications	2811-015-N911	***
7	1	1.83	.90	See specifications	2811-021-N911	***

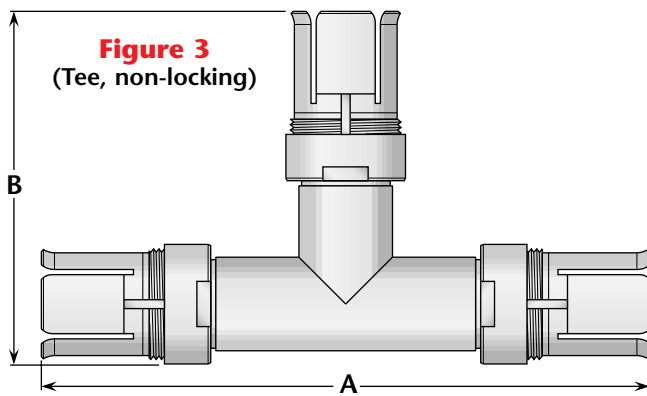
## Adapters Within Series



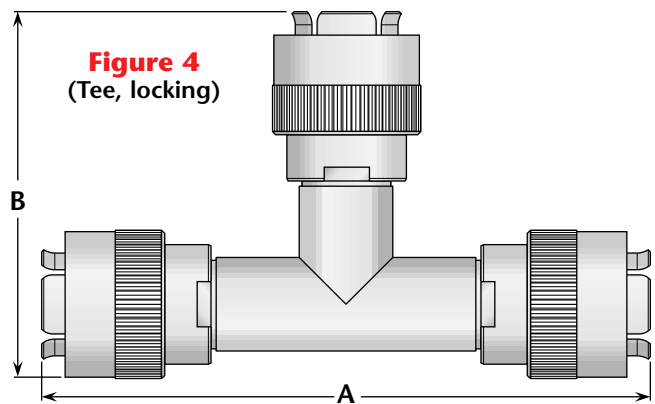
**Figure 1**  
(Right angle,  
non-locking)



**Figure 2**  
(Right angle,  
locking)



**Figure 3**  
(Tee, non-locking)

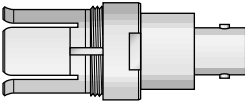
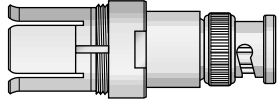
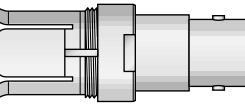
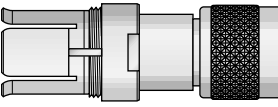
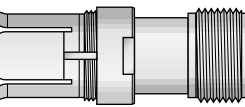
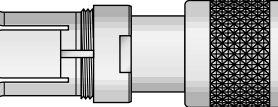
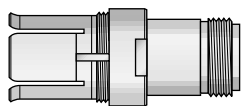
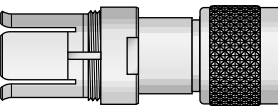
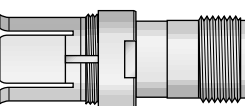
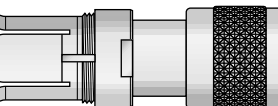
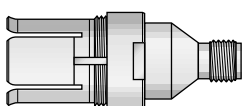
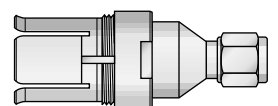
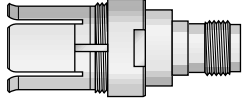
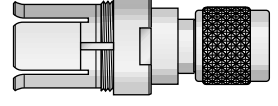




**Figure 4**  
(Tee, locking)

Figure	Dimensions		Plating	Delta P/N
	A	B		
1	2.06	2.06	See specifications	2835-000-N000-1
2	2.15	2.15	See specifications	2835-000-N000
3	3.38	2.09	See specifications	2838-000-N000-1
4	3.38	2.19	See specifications	2838-000-N000

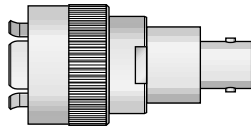
See page 204 for cable groups. • \*\*\*Contact factory for cable assembly instructions.

## Adapters Between Series—Non-Locking G874 to:

<b>BNC Jack</b>  Delta P/N <b>2234-000-N000-31</b>	Length: 1.66 Nominal Impedance: 50Ω Frequency Range: DC-4.0 GHz Operating Voltage: 500 max.	<b>BNC Plug</b>  Delta P/N <b>2234-000-N000-14</b>	Length: 1.81 Nominal Impedance: 50Ω Frequency Range: DC-4.0 GHz Operating Voltage: 500 max.
<b>C Jack</b>  Delta P/N <b>2234-000-N000-32</b>	Length: 1.91 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 1000 max.	<b>C Plug</b>  Delta P/N <b>2234-000-N000-33</b>	Length: 2.05 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 1000 max.
<b>HN Jack</b>  Delta P/N <b>2234-000-N000-36</b>	Length: 1.88 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 1500 max.	<b>HN Plug</b>  Delta P/N <b>2234-000-N000-37</b>	Length: 2.28 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 1500 max.
<b>N Jack</b>  Delta P/N <b>2234-000-N000-18</b>	Length: 1.63 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 1000 max.	<b>N Plug</b>  Delta P/N <b>2234-000-N000-17</b>	Length: 2.01 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 1000 max.
<b>SC Jack</b>  Delta P/N <b>2234-000-N000-51</b>	Length: 1.91 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 1000 max.	<b>SC Plug</b>  Delta P/N <b>2234-000-N000-52</b>	Length: 2.05 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 1000 max.
<b>SMA Jack</b>  Delta P/N <b>2234-000-N000-41</b>	Length: 1.68 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 335 max.	<b>SMA Plug</b>  Delta P/N <b>2234-000-N000-42</b>	Length: 1.84 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 335 max.
<b>TNC Jack</b>  Delta P/N <b>2234-000-N000-23</b>	Length: 1.66 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 500 max.	<b>TNC Plug</b>  Delta P/N <b>2234-000-N000-45</b>	Length: 1.87 Nominal Impedance: 50Ω Frequency Range: DC-8.5 GHz Operating Voltage: 500 max.
<b>UHF Jack</b>  Delta P/N <b>2234-000-N000-48</b>	Length: 1.80 Nominal Impedance: Nonconstant Frequency Range: UHF Range Operating Voltage: 500 max.	<b>UHF Plug</b>  Delta P/N <b>2234-000-N000-29</b>	Length: 2.06 Nominal Impedance: Nonconstant Frequency Range: UHF Range Operating Voltage: 500 max.

## Adapters Between Series—Locking G874 to:

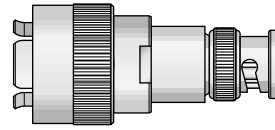
### BNC Jack



Delta P/N **2234-000-N000-15**

Length: 1.66  
Nominal Impedance: 50Ω  
Frequency Range: DC-4.0 GHz  
Operating Voltage: 500 max.

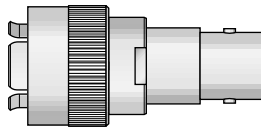
### BNC Plug



Delta P/N **2234-000-N000-30**

Length: 1.81  
Nominal Impedance: 50Ω  
Frequency Range: DC-4.0 GHz  
Operating Voltage: 500 max.

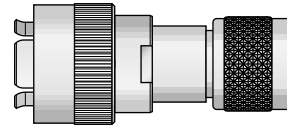
### C Jack



Delta P/N **2234-000-N000-34**

Length: 1.91  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 1000 max.

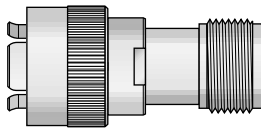
### C Plug



Delta P/N **2234-000-N000-35**

Length: 2.05  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 1000 max.

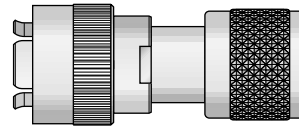
### HN Jack



Delta P/N **2234-000-N000-38**

Length: 1.88  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 1500 max.

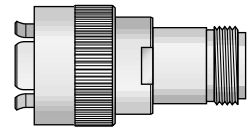
### HN Plug



Delta P/N **2234-000-N000-39**

Length: 2.28  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 1500 max.

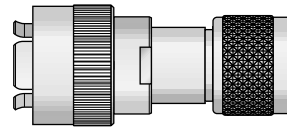
### N Jack



Delta P/N **2234-000-N000-40**

Length: 1.63  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 1000 max.

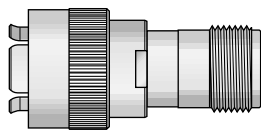
### N Plug



Delta P/N **2234-000-N000-24**

Length: 2.01  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 1000 max.

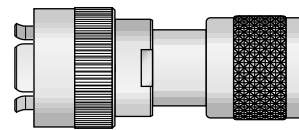
### SC Jack



Delta P/N **2234-000-N000-53**

Length: 2.07  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 1000 max.

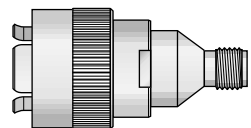
### SC Plug



Delta P/N **2234-000-N000-54**

Length: 2.05  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 1000 max.

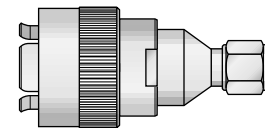
### SMA Jack



Delta P/N **2234-000-N000-43**

Length: 1.68  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 335 max.

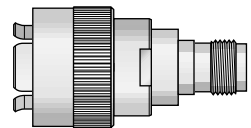
### SMA Plug



Delta P/N **2234-000-N000-44**

Length: 1.84  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 335 max.

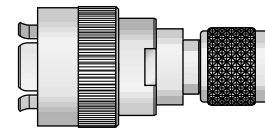
### TNC Jack



Delta P/N **2234-000-N000-46**

Length: 1.66  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 500 max.

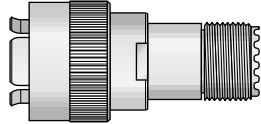
### TNC Plug



Delta P/N **2234-000-N000-47**

Length: 1.87  
Nominal Impedance: 50Ω  
Frequency Range: DC-8.5 GHz  
Operating Voltage: 500 max.

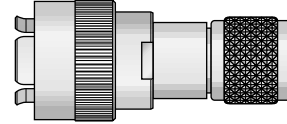
### UHF Jack



Delta P/N **2234-000-N000-49**

Length: 1.80  
Nominal Impedance: Nonconstant  
Frequency Range: UHF Range  
Operating Voltage: 500 max.

### UHF Plug



Delta P/N **2234-000-N000-50**

Length: 2.06  
Nominal Impedance: Nonconstant  
Frequency Range: UHF Range  
Operating Voltage: 500 max.

## General Description

Delta GHV connectors are high voltage, 50Ω impedance connectors with 3/4"-20 threaded coupling. They are best suited for use with RG-8A/U cable, and feature deeply recessed contacts, counterbored insulators, and retractable plug coupling nuts for high power handling capability and safety.

## Specifications

### Electrical:

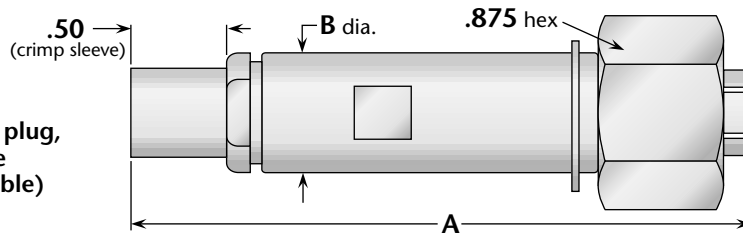
**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–1 GHz.  
**Voltage Rating:** 25 KV DC (sea level).  
**Insulation Resistance:** 5,000 megohms.

### Materials/Finishes:

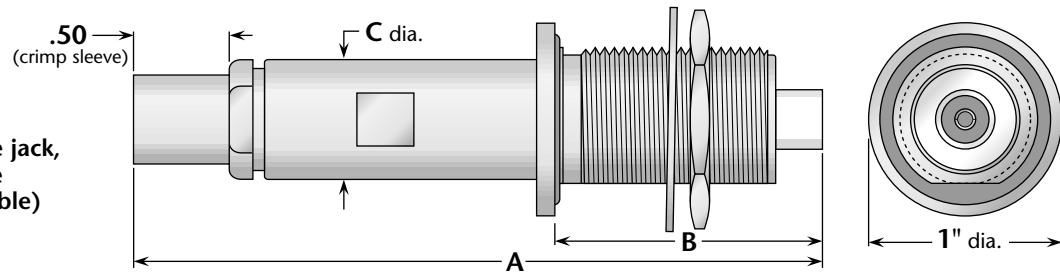
**Insulators:** Teflon per ASTM D1710.  
**Male Contacts:** Brass per ASTM B16.  
**Female Contacts:** Beryllium Copper per ASTM B196.  
**Contact Plating:** Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per 2-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, Silver plated per QQ-S-365.

## GHV Connectors

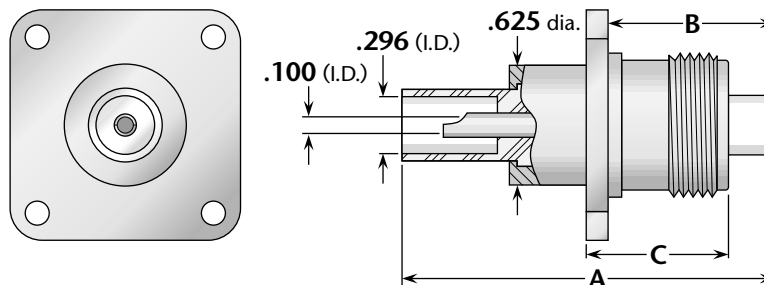
**Figure 1**  
 (Straight cable plug,  
 crimp type  
 for flexible cable)



**Figure 2**  
 (Bulkhead cable jack,  
 crimp type  
 for flexible cable)



**Figure 3**  
 (Panel jack receptacle,  
 square flange)



Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
2	1	3.19	.625	—	—	—	Silver	Gold	1502-002-A000	***
3	1	3.19	.625	—	—	—	Silver	Gold	1502-004-A000	***
5	1	3.19	.625	—	—	—	Silver	Gold	1502-017-A000	***
2	2	3.63	1.66	.625	51	.75	Silver	Gold	1516-002-A510	***
3	2	3.63	1.66	.625	51	.75	Silver	Gold	1516-004-A510-1	***
—	3	1.94	.88	.75	39	—	Silver	Gold (C)	1513-000-A391	—

See page 204 for cable groups. • (C) in contact plating column indicates captive contact.  
 See page 203 for mounting dimensions. • \*\*\*Contact factory for cable assembly instructions.

## General Description

Delta HN series connectors are medium-size, 50Ω impedance connectors with 3/4-20 threaded coupling and good power handling capability. They are best suited for use with cables in the range of .350" to .450" diameter, but are available for other cables from .200" to over 1" diameter. Our extensive line of HN 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 HN and other series are shown starting on page 176.

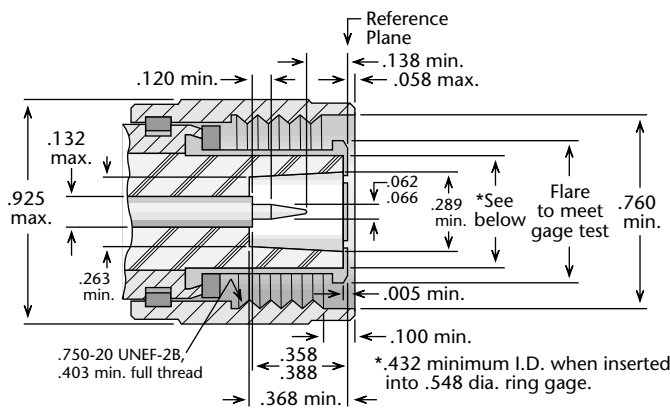
Our HN series product line is still growing, so please call if you don't see what you need.

## HN Configurations

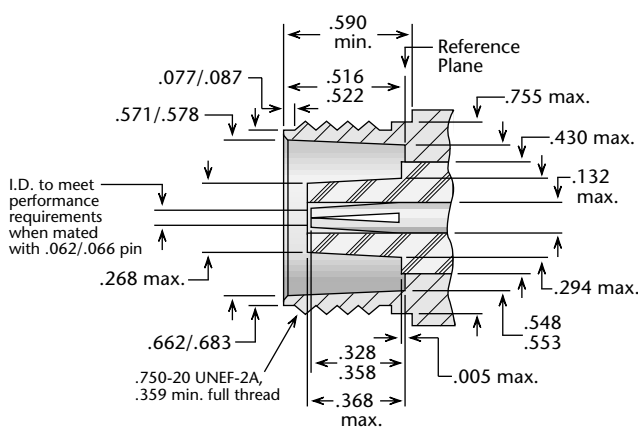
Straight Cable Plugs .....	46	Panel Plug Receptacles.....	48
Right Angle Cable Plugs .....	46	Bulkhead Jack Receptacles .....	48
Straight Cable Jacks .....	47	Dummy Receptacles .....	48
Panel Cable Jacks .....	47	Dust Caps.....	48
Panel Jack Receptacles (square flange) .....	48	In-Series Adapters .....	49

## HN Specifications\*

### Plug Interface\*\*



### Jack Interface\*\*



\*\*Some proportions altered to illustrate detail.

### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC-4 GHz.  
**Voltage Rating:** 1,500 volts RMS.  
**Dielectric Withstanding Voltage:** 5,000 VRMS.  
**Insulation Resistance:** 5,000 megohms.

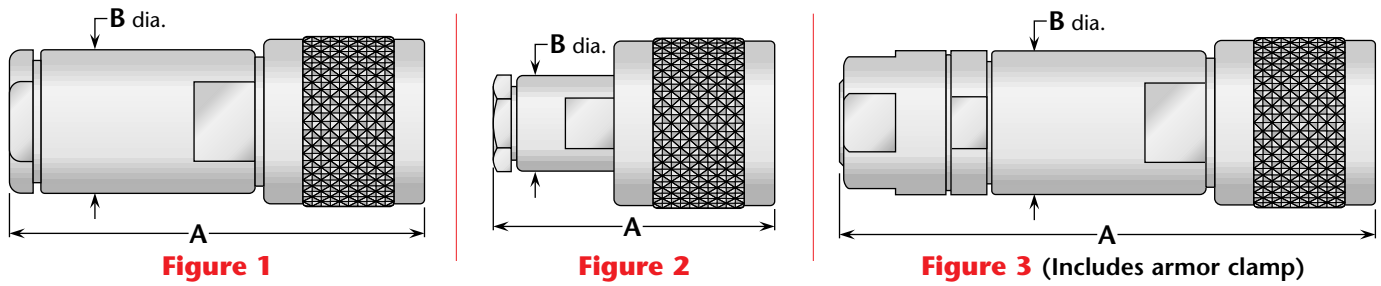
### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710, or Rexolite per MIL-P-77.  
**Male Contacts:** Brass per ASTM B16.  
**Female Contacts:** Beryllium Copper per ASTM B196.  
**Contact Plating:** Silver per QQ-S-365, or Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, plated: Silver per QQ-S-365, or Nickel per QQ-N-290.

All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-3643, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

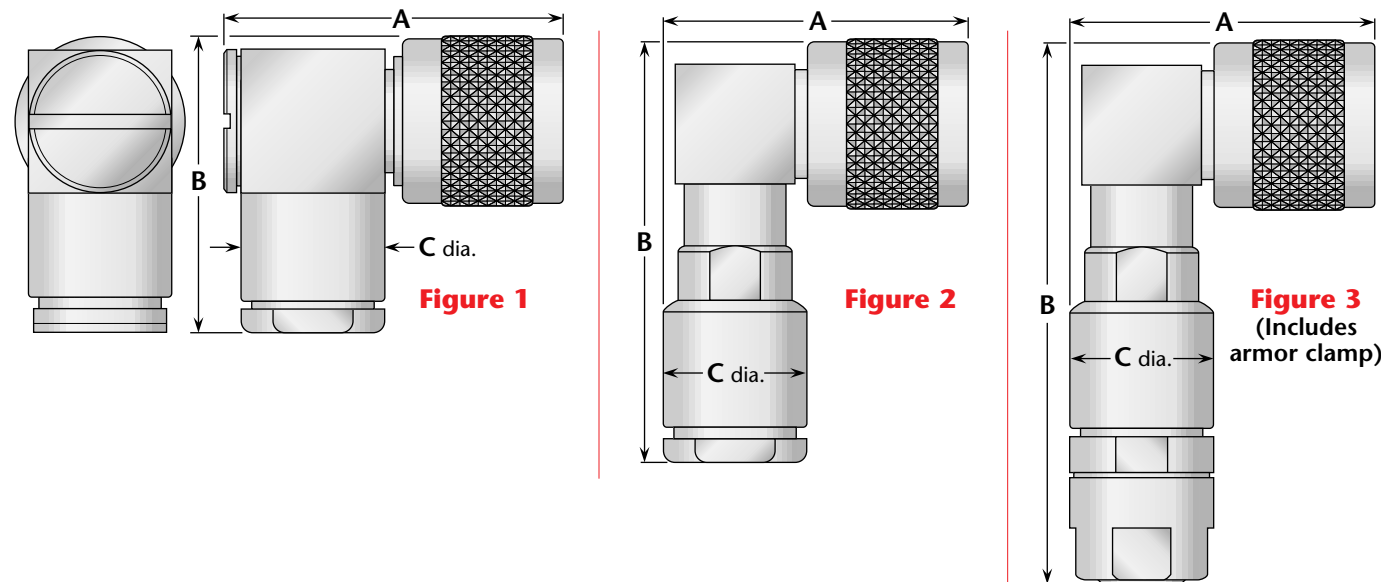
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

## Straight Plug—Military Clamp for Flexible Cable



Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	2.38	.69	Nickel	Silver	UG-59B/U	***
2, 3	1	2.25	.75	Nickel	Silver	UG-59E/U	A/26
2, 3	1	2.81	.69	Nickel	Silver (C)	UG-1213/U	***
4	1	2.23	.75	Nickel	Silver (C)	1601-079-N001	***
5, 6	2	1.50	.50	Nickel	Silver	1601-015-N000	A/17
15	3	2.84	.75	Nickel	Silver	UG-925B/U	D/05
16	1	2.41	.88	Nickel	Silver	UG-494B/U	A/27
17	1	2.59	1.31	Nickel	Silver	UG-495D/U	A/28
17	3	3.53	1.31	Nickel	Silver	UG-1148/U	***
20	3	3.20	1.31	Nickel	Silver	UG-926A/U	D/06

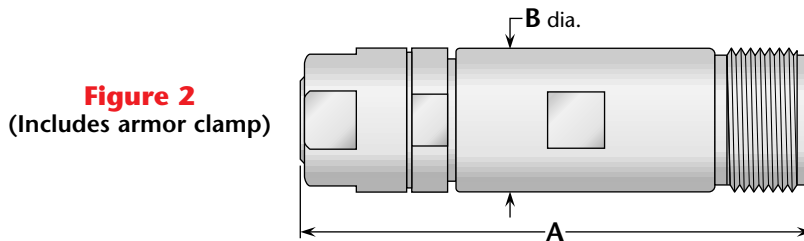
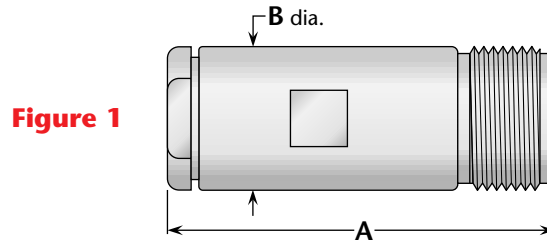
## Right Angle Plug—Military Clamp for Flexible Cable



Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
2, 3	1	1.73	1.63	.75	Nickel	Silver (C)	1605-004-N001-2	A/29
2, 3	2	1.53	2.25	.69	Nickel	Silver (C)	1604-004-N001	***
2, 3	2	1.56	2.48	.75	Nickel	Silver	1604-005-N000	A/27
4	2	1.56	2.48	.75	Nickel	Silver (C)	1604-079-N001-1	***
15	3	1.56	3.05	.75	Nickel	Silver	1604-006-N000	D/05

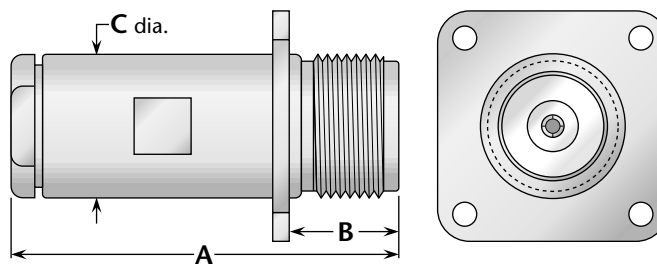
See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Straight Jack—Military Clamp for Flexible Cable



Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	2.53	.69	Nickel	Silver	UG-60B/U	***
2, 3	1	2.03	.75	Nickel	Silver	UG-60E/U	A/26
2, 3	1	2.94	.69	Nickel	Silver (C)	UG-1214/U	***
15	2	2.63	.75	Nickel	Silver	UG-927B/U	D/05
17	1	2.53	1.31	Nickel	Silver	UG-333C/U	A/28

## Panel Jack—Military Clamp for Flexible Cable

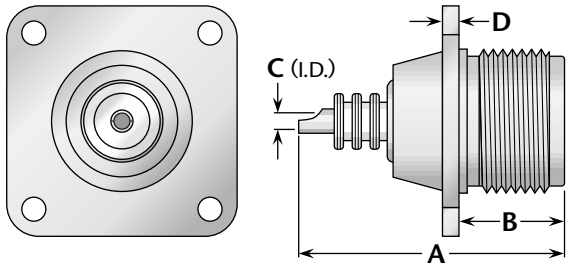


Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
2, 3	1	2.53	.59	.69	40	Nickel	Silver	UG-61B/U	***
2, 3	1	2.03	.59	.75	40	Nickel	Silver	UG-61E/U	A/26
2, 3	1	2.03	.59	.75	36	Nickel	Silver	UG-427C/U	A/26

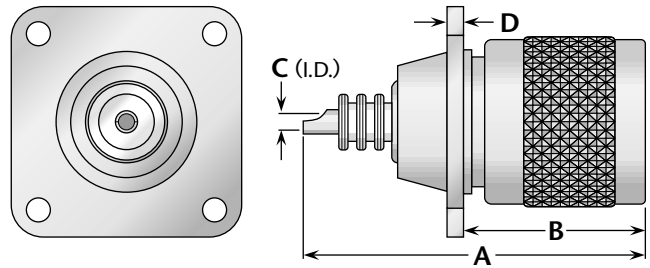
See page 204 for cable groups. • Assembly procedures start on page 205.  
 \*\*\*Contact factory for cable assembly instructions. • See page 203 for mounting dimensions.  
 (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



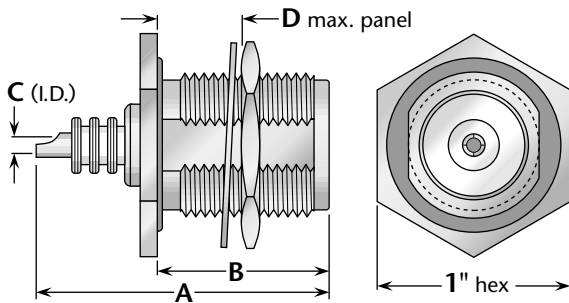
## Panel and Bulkhead Receptacles



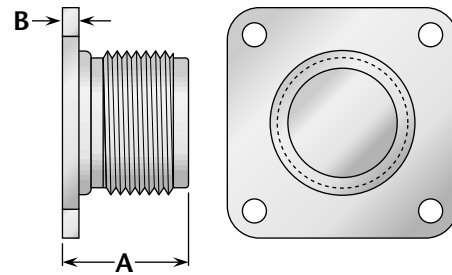
**Figure 1**  
(Panel jack receptacle)



**Figure 2**  
(Panel plug receptacle)



**Figure 3**  
(Bulkhead jack receptacle)

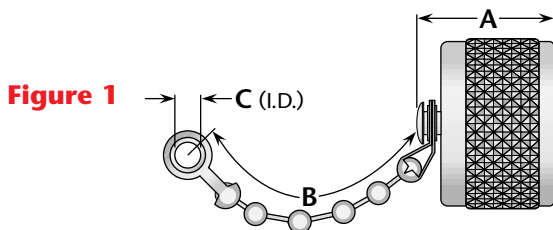


**Figure 4**  
(Dummy receptacle)

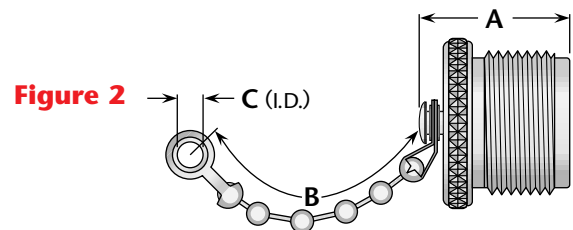
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.50	.59	.106	.080	40	Nickel	Silver (C)	UG-496/U
2	1.88	.94	.106	.080	40	Nickel	Silver (C)	1623-000-N401
3	1.55	.89	.106	.25	69	Nickel	Silver (C)	1621-000-N691
4	.875	.125	—	—	34*	Nickel	—	1663-000-N340

\* Except mounting holes are .120 diameter.

## Dust Caps



**Figure 1**

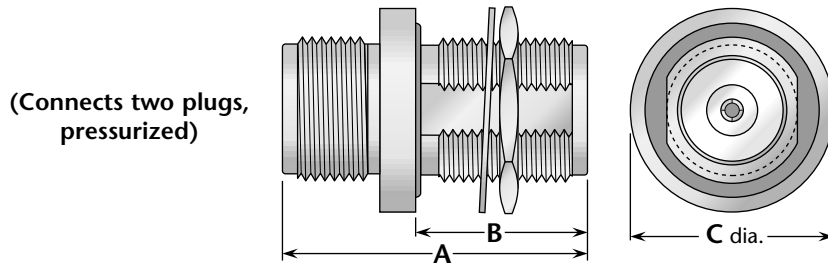


**Figure 2**

Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.70	3.50	.144	Bead chain	Nickel	—	1632-000-N000
2	.70	3.50	.144	Bead chain	Nickel	—	1633-000-N000

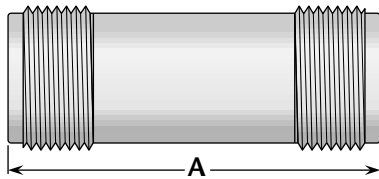
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information. • Dust caps available with other chain styles and lengths.

**Bulkhead Jack-Jack Adapter**

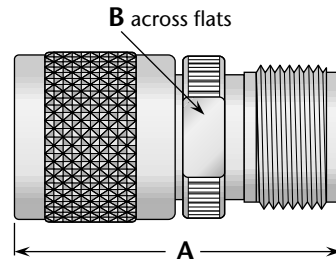


Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.94	1.06	1.06	.25	69	Nickel	Silver (C)	UG-1019A/U

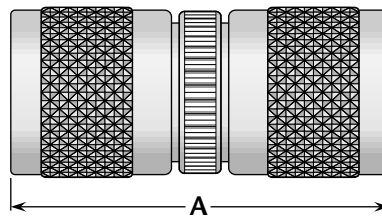
**Straight Adapters**



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



**Figure 2**  
(Straight plug-jack; connects one plug and one jack)

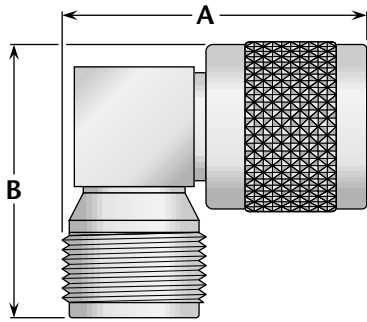


**Figure 3**  
(Straight plug-plug; connects two jacks)

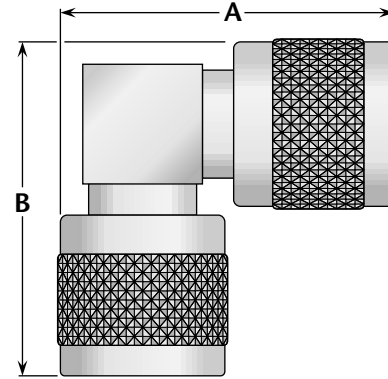
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	2.00	—	Nickel	Silver (C)	1628-000-N000
2	1.63	.75	Nickel	Silver (C)	1634-000-N001
3	1.94	—	Nickel	Silver (C)	1627-000-N000

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact. See page 6 for alternate body plating information.

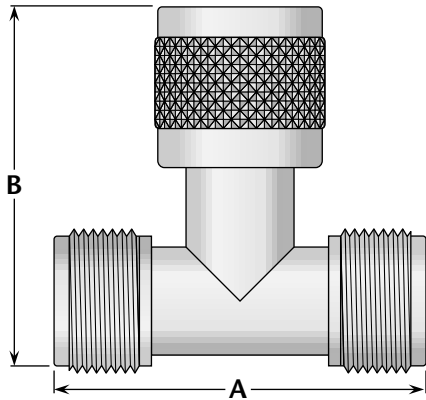
## Right Angle and Tee Adapters



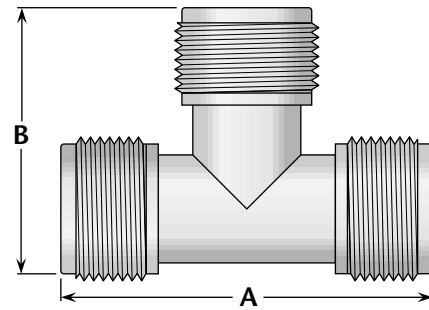
**Figure 1**  
(Right angle jack-plug; connects one plug and one jack)



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



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



**Figure 4**  
(Tee jack-jack-jack; connects three plugs)

**Figure 5**  
(Tee plug-jack-plug; connects two jacks and one plug)

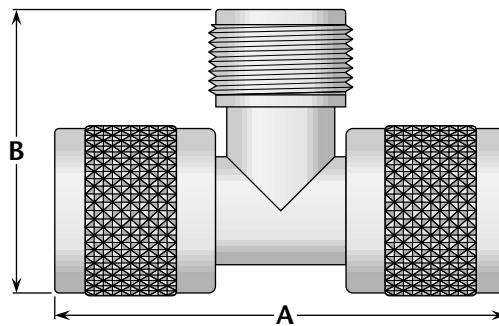


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.50	1.38	Nickel	Silver (C)	UG-212C/U
2	1.63	1.63	Nickel	Silver (C)	1637-000-N000
3	1.94	1.88	Nickel	Silver (C)	1630-000-N000
4	1.94	1.28	Nickel	Silver (C)	1638-000-N000
5	2.33	1.50	Nickel	Silver (C)	UG-1109/U

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

## General Description

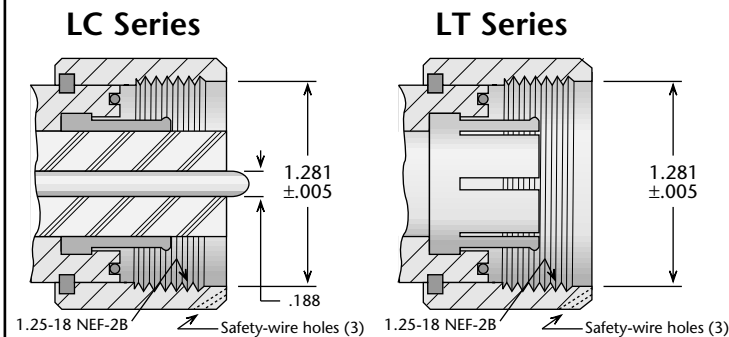
Delta LC and LT series connectors (which are similar in size, but not intermateable), are large, high-voltage, 50Ω impedance connectors with 1¼–18 threaded mating. They are best suited for use with cables with diameters from .73" to 1.2", such as RG-17 and 117/U, and RG-18 and 118/U. Because of the variety of designs and assembly methods within these series, we suggest that you call us to verify the compatibility of specific connector pairs prior to ordering. As with all other Delta connector series, we welcome your specifications for special configurations.

## LC/LT Configurations

Straight Cable Plugs.....	52
Panel Jack Receptacles (square flange) .....	52
In-Series Adapters .....	53

## LC/LT Specifications\*

### Plug Interface\*\*



### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–1 GHz.  
**Voltage Rating:** 5,000 volts RMS.

### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710, or rexolite per MIL-P-77.  
**Male Contacts:** Brass per ASTM B16.  
**Female Contacts:** Beryllium Copper per ASTM B196.  
**Contact Plating:** Silver per QQ-S-365, or Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.

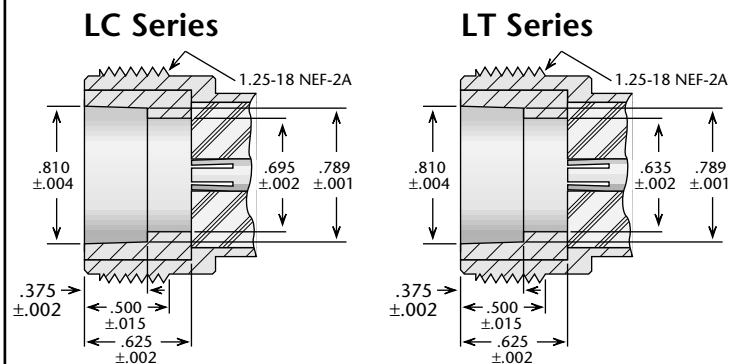
### Other

**Metal Parts:** Brass per ASTM B16, plated:  
 Silver per QQ-S-365, or  
 Nickel per QQ-N-290.

All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-3650, or other applicable MIL specifications.

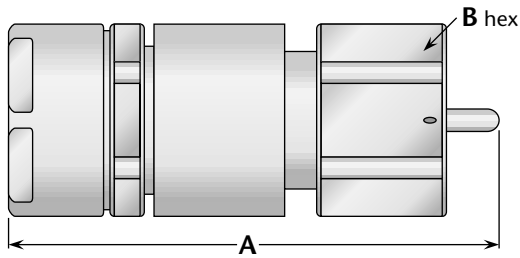
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

### Jack Interface\*\*

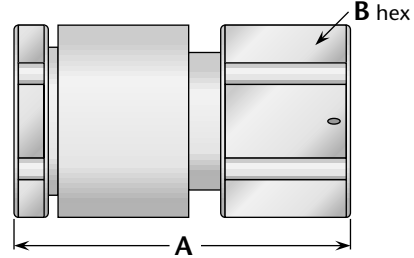


\*\*Some proportions altered to illustrate detail.

## Straight Plug—for Flexible Cable



**Figure 1**  
(LC series)

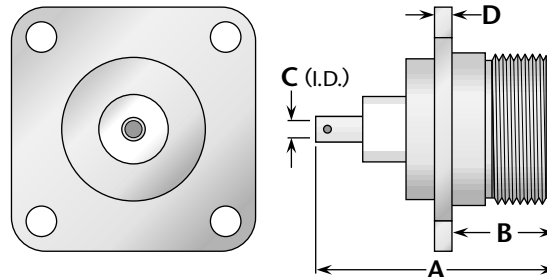


**Figure 2**  
(LT series; uses cable center conductor as contact)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
17, 18	1	3.50	1.5	Nickel	Silver	UG-154B/U	***
20	2	3.03	1.5	Nickel	—	UG-532A/U	***

## Panel Receptacles

**Figure 1**  
(LC series, Teflon insulator)



**Figure 2**  
(LC series, pressurized, Teflon insulator)

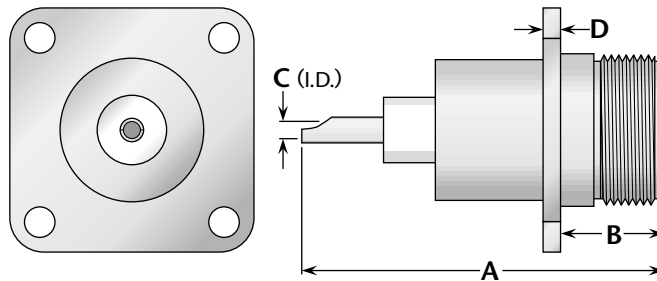
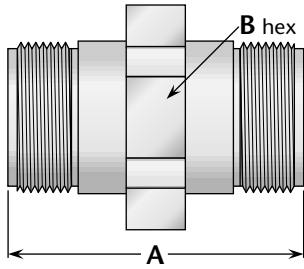


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	2.25	1.13	.187	.125	45	Nickel	Silver (C)	UG-352/U
2	3.06	.88	.203	.125	45	Nickel	Silver (C)	UG-352B/U

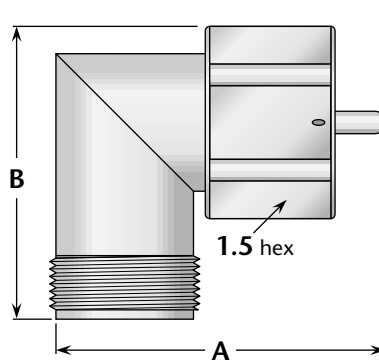
See page 204 for cable groups. • \*\*\*Contact factory for cable assembly instructions.  
(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.  
See page 6 for alternate body plating information.

**Note:** Not all LC series plugs and jacks are intermateable.  
Contact factory for compatibility information on specific plug/jack combinations.

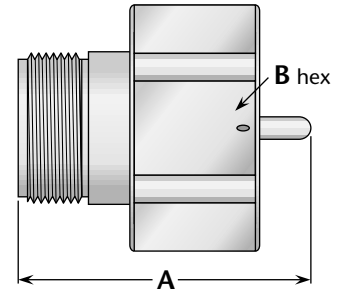
## LC Series Adapters



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



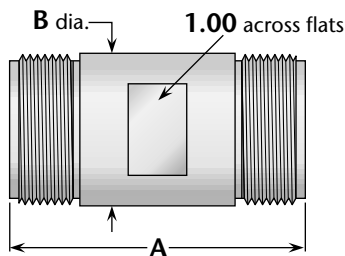
**Figure 2**  
(Right angle plug-jack;  
connects one plug and one jack)



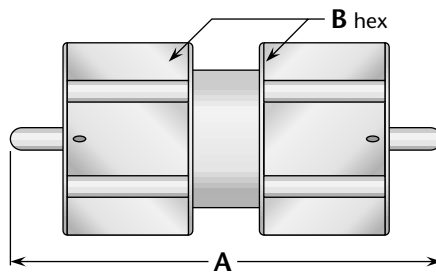
**Figure 3**  
(Straight LC jack-large LC plug;  
connects one LC plug  
and one large LC jack)

Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	2.50	1.875	Nickel	Silver (C)	UG-157B/U
2	2.72	2.60	Nickel	Silver (C)	UG-216B/U
3	2.22	2.09	Nickel	Silver (C)	UG-220B/U

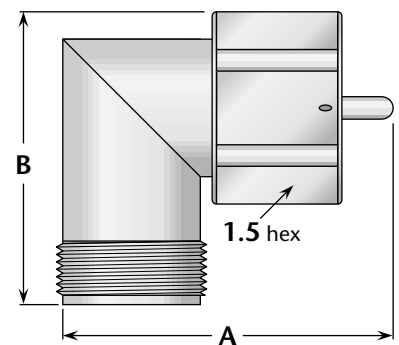
## LT Series Adapters



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



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



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

Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	2.50	1.25	Nickel	Silver (C)	UG-533B/U
2	3.70	1.50	Nickel	Silver (C)	3527-000-N001
3	2.81	2.56	Nickel	Silver (C)	UG-534B/U

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

**Note:** Not all LC series plugs and jacks are intermateable.  
Contact factory for compatibility information on specific plug/jack combinations.

## General Description

Delta MCX connectors are subminiature, 50Ω impedance connectors with snap-on coupling. They are best suited for use with cables in the range of .070" to .120" diameter, such as RG-178 and RG-316/U.

These connectors provide small size, light weight, and economy with the convenience of snap-on mating and the ability to rotate connector pairs after mating for precise alignment

All Delta MCX connectors are available with gold-plated bodies, or with nickel-plated bodies for economy.

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

- **PressMount** receptacles (page 58) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- P. C. board receptacles (page 57) with a choice of through-hole, edge mounting, or surface mounting.
- P. C. board jack receptacles (page 57) that fit flush with the edge of boards, ideal for daughterboard applications.

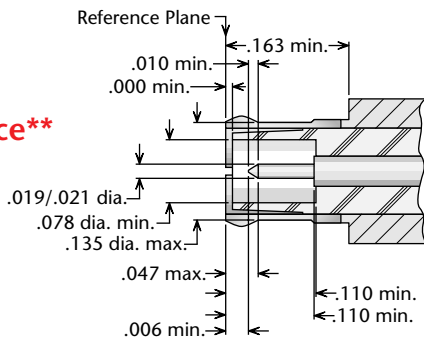
Our MCX series product line is still growing, so please call if you don't see what you need.

## MCX Configurations

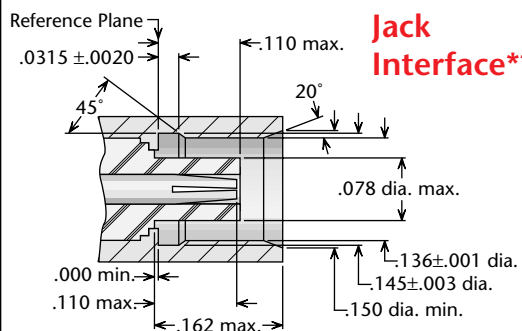
Straight Cable Plugs .....	55	Straight P.C. Board Jack Receptacles .....	57
Right Angle Cable Plugs .....	55	Right Angle P.C. Board Jack Receptacles.....	58
Straight Cable Jacks .....	56	P.C. Board Plug Receptacles.....	58
Bulkhead Cable Jacks .....	56	PressMount Jack Receptacles.....	58

## MCX Specifications\*

### Plug Interface\*\*



### Jack Interface\*\*



\*\*Some proportions altered to illustrate detail.

### Electrical:

**Nominal Impedance:** 50 ohms.

**Frequency Range:** DC–6 GHz.

**Voltage Rating:** 250–335 volts RMS (dependent on cable).

### Dielectric Withstanding

**Voltage:** 750–1000 volts RMS (dependent on cable).

**Insulation Resistance:** 1,000 megohms.

### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.

**Male Contacts:** Brass per ASTM B16, or

Beryllium Copper per ASTM B196.

**Female Contacts:** Beryllium Copper per ASTM B196.

**Contact Plating:** Gold per MIL-G-45204.

**Gaskets:** Silicone rubber per ZZ-R-765,

Class II, Grade 50.

**Other Metal Parts:** Brass per ASTM B16 or equivalent, plated

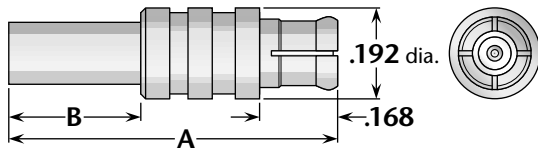
Gold per MIL-G-45204, or Nickel per QQ-N-290.

All other specifications are in accordance with the latest issues of CECC 22220, series MCX.

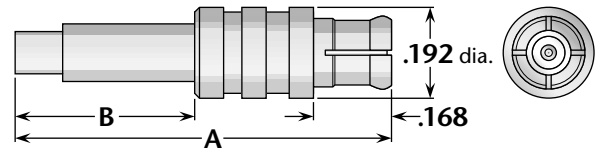
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.



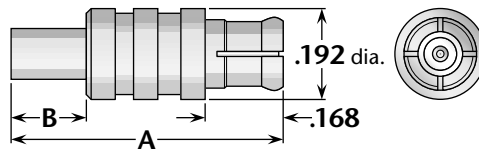
## Straight Cable Plugs



**Figure 1**  
(Crimp type for flexible cable)



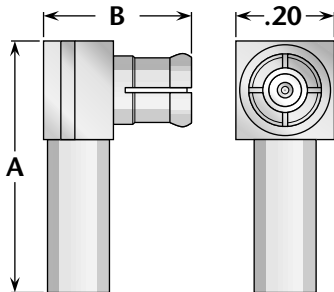
**Figure 2**  
(Crimp type for flexible cable)



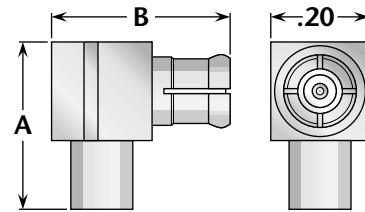
**Figure 3**  
(Direct solder for semi-rigid cable)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
9	1	.69	.27	Gold*	Gold	9803-037-G000-500	B/32
10	1	.69	.27	Gold*	Gold	9803-100-G000-500	B/32
11	2	.79	.37	Gold*	Gold	9803-038-G000-500	B/33
14	3	.58	.16	Gold*	Gold	9801-025-G003-500	H/03

## Right Angle Cable Plugs



**Figure 1**  
(Crimp type for flexible cable)

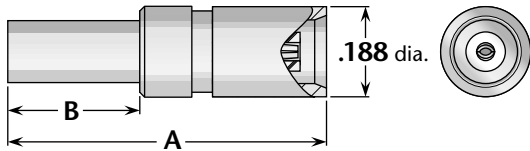


**Figure 2**  
(Direct solder for semi-rigid cable)

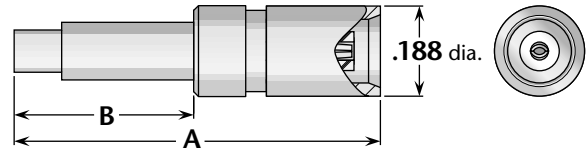
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
9	1	.47	.31	Gold*	Gold (C)	9807-037-G001-500	L/04
10	1	.47	.31	Gold*	Gold (C)	9807-100-G001-500	L/04
11	1	.47	.31	Gold*	Gold (C)	9807-038-G001-500	L/04
13	2	.38	.41	Gold*	Gold (C)	9805-031-G003-500	J/03
14	2	.38	.37	Gold*	Gold (C)	9805-025-G003-500	J/01

\* Also available with nickel-plated body—change G in Delta part number to N. • See page 204 for cable groups. (C) in contact plating column indicates captive contact. • Assembly procedures start on page 205.

## Straight Cable Jacks



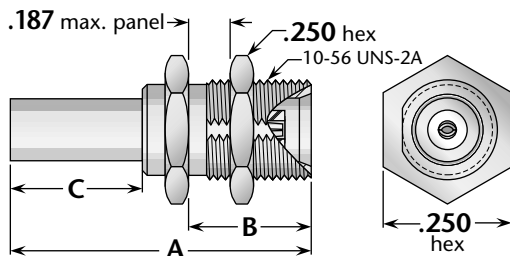
**Figure 1**  
(Crimp type for flexible cable)



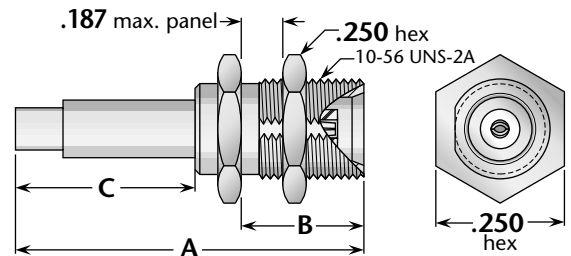
**Figure 2**  
(Crimp type for flexible cable)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
9	1	.66	.27	Gold*	Gold (C)	9810-037-G001-500	B/34
10	1	.66	.27	Gold*	Gold (C)	9810-100-G001-500	B/34
11	2	.78	.37	Gold*	Gold (C)	9810-038-G001-500	B/35

## Straight Bulkhead Jack—For Flexible Cable



**Figure 1**  
(Crimp type for flexible cable)

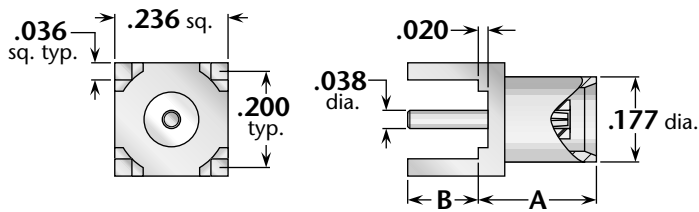


**Figure 2**  
(Crimp type for flexible cable)

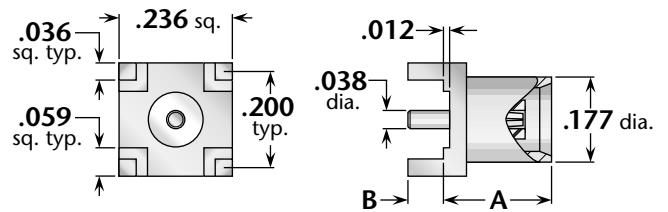
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
9	1	.69	.307	.27	68	Gold*	Gold (C)	9819-037-G681-500	B/36
10	1	.69	.307	.27	68	Gold*	Gold (C)	9819-100-G681-500	***
11	2	.79	.307	.37	68	Gold*	Gold (C)	9819-038-G681-500	***

\* Also available with nickel-plated body—change G in Delta part number to N. • See page 203 for mounting dimensions.  
(C) in contact plating column indicates captive contact. • See page 204 for cable groups.  
Assembly procedures start on page 205. • \*\*\*Contact factory for assembly procedures.

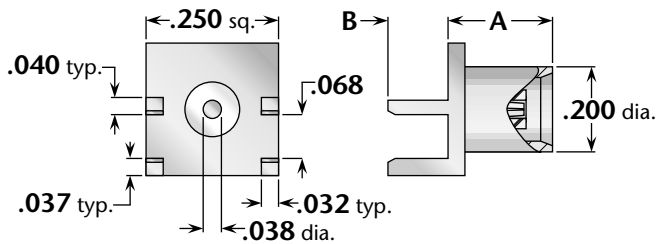
## Straight Printed-Circuit Board Jack Receptacles



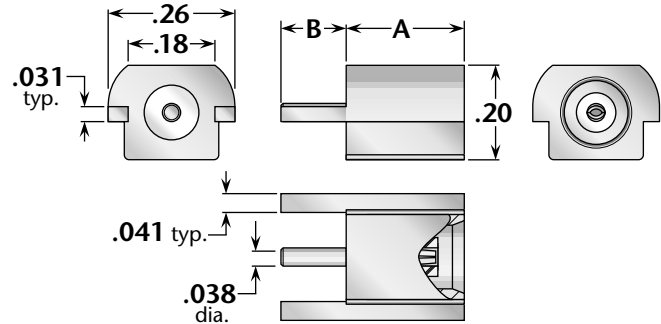
**Figure 1**  
(Through-hole mount)



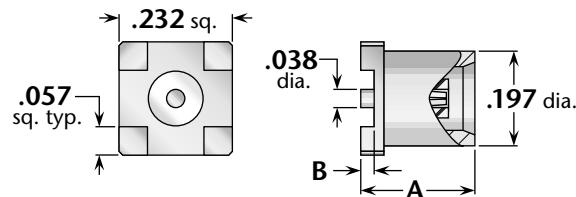
**Figure 2**  
(Through-hole mount)



**Figure 3**  
(Edge mount, for .062" thick board)



**Figure 4**  
(Flush edge mount)



**Figure 5**  
(Surface mount)

Figure	Dimensions		Max. Board	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	.240	.155	.100	PCB06	Gold*	Gold (C)	9867-000-G001-500
2	.240	.059	.040	PCB06	Gold*	Gold (C)	9867-000-G001-501
3	.250	.125	N/A	***	Gold*	Gold (C)	9867-000-G91P-500
4	.246	.120	N/A	***	Gold*	Gold (C)	9867-000-G001-503
5	.236	.016	N/A	***	Gold*	Gold (C)	9867-000-G001-504

\* Also available with nickel-plated body—change G in Delta part number to N. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • \*\*\*Contact factory for mounting information.

## Right Angle Printed-Circuit Board Jack Receptacle

**Figure 1**  
(Through-hole mount)

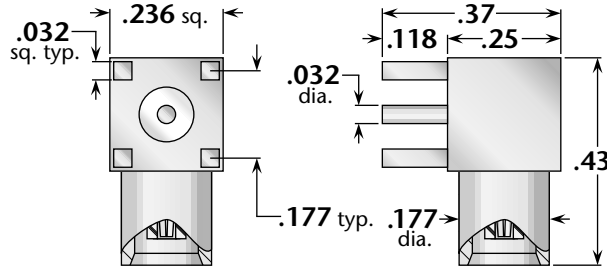
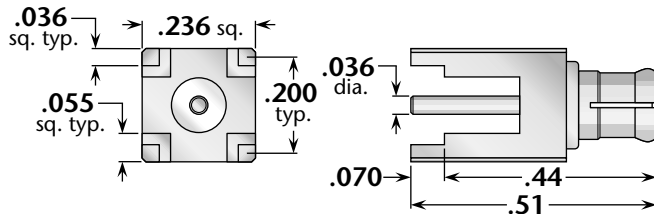
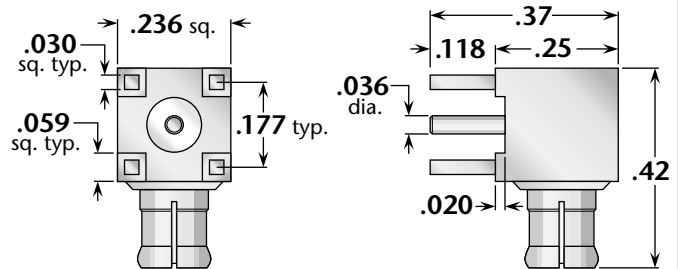


Figure	Max. Board Thickness	Mounting Figure	Plating		Delta P/N
			Body	Contact	
1	.062	PCB07	Gold*	Gold (C)	9869-000-G001-500

## Printed-Circuit Board Plug Receptacles



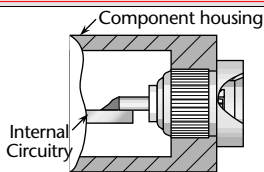
**Figure 1**  
(Straight—through-hole mounting)



**Figure 2**  
(Right angle—through-hole mounting)

Figure	Max. Board Thickness	Mounting Figure	Plating		Delta P/N
			Body	Contact	
1	.050	PCB06	Gold*	Gold (C)	9868-000-G001-500
2	.062	PCB07	Gold*	Gold (C)	9870-000-G001-500

## PressMount 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.

**Figure 1** (Post contact)

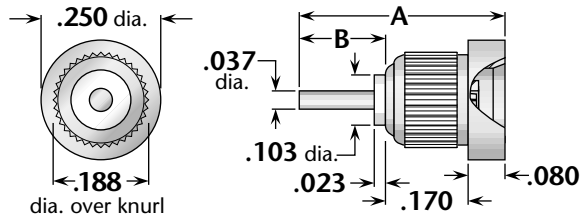


Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.40	.15	.100	.184 ±.001 dia.	Gold*	Gold (C)	9820-000-G911-1
1	.73	.48	.100	.184 ±.001 dia.	Gold*	Gold (C)	9820-000-G911-8

\* Also available with nickel-plated body—change G in Delta part number to N. • See page 203 for mounting dimensions.  
(C) in contact plating column indicates captive contact.

## General Description

Delta MHV connectors are compact, 50Ω impedance, high-voltage connectors with two-stud bayonet coupling. MHV connectors are similar in size to, but are not intermateable with, BNC connectors. They are best suited for use with cables in the range of .195" to .220" diameter, but are available for other cables from .090" to over .75" diameter. For safety, Delta MHV connectors feature deeply recessed contacts, as well as polarized plugs and jacks to ensure that only the compatible plugs and jacks can be mated in applications incorporating multiple connector pairs. As with all other Delta connector series, we welcome your specifications for special configurations.

## MHV Configurations

### Standard mating

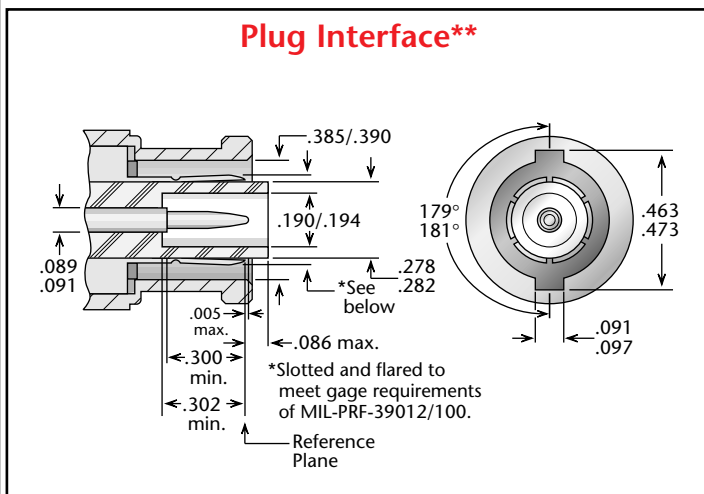
Straight Cable Plugs.....	60
Right Angle Cable Plugs.....	60
Straight Cable Jacks.....	61
Bulkhead Cable Jacks.....	61
Panel Cable Jacks.....	61
Panel Jack Receptacles (square flange).....	62
Bulkhead Jack Receptacles.....	62

### Polarized mating

Straight Cable Plugs.....	60
Bulkhead Cable Jacks.....	61
Panel Cable Jacks.....	61
Panel Jack Receptacles (square flange).....	62
Bulkhead Jack Receptacles.....	62

## MHV Specifications\*

### Plug Interface\*\*



### Electrical:

**Nominal Impedance:** Nonconstant.  
**Frequency Range:** DC–50 MHz.  
**Voltage Rating:** 3,500 volts RMS;  
 5,000 volts DC.  
**Dielectric Withstanding Voltage:** 5,000 VRMS.  
**Insulation Resistance:** 5,000 megohms.

### Materials/Finishes:

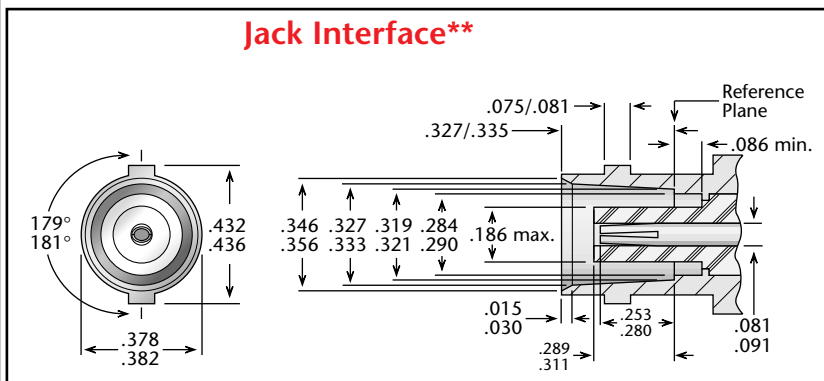
**Insulators:** Teflon per ASTM D1710.  
**Male Contacts:** Brass per ASTM B16.  
**Female Contacts:** Beryllium Copper per ASTM B196.

**Contact Plating:** Silver per QQ-S-365, or Gold per MIL-G-45204.

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

**Other Metal Parts:** Brass per ASTM B16, plated: Silver per QQ-S-365, or Nickel per QQ-N-290.

### Jack Interface\*\*

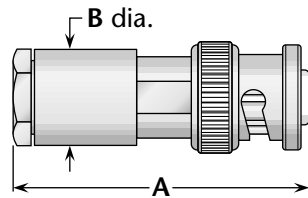


All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-3643, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

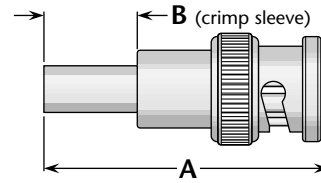
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

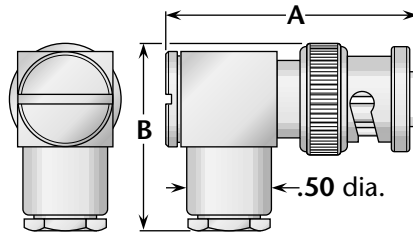
## Straight and Right Angle Plugs for Flexible Cable—Standard Mating



**Figure 1**  
(Clamp type)



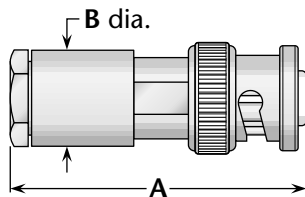
**Figure 2**  
(Crimp type)



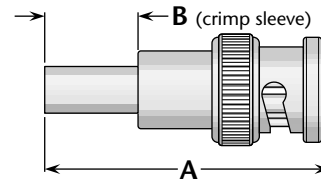
**Figure 3**  
(Clamp type)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
5, 6	1	1.56	.50	Nickel	Silver	1701-015-N000	A/30
7	1	1.56	.50	Nickel	Silver	UG-932A/U	A/30
8A	1	1.56	.50	Nickel	Silver	1701-029-N000	A/30
5	2	1.44	.50	Nickel	Silver	1703-017-N000	B/25
7	2	1.44	.50	Nickel	Silver	1703-020-N000	B/25
5, 6	3	1.27	1.03	Nickel	Silver (C)	1705-015-N000	A/32
7	3	1.27	1.03	Nickel	Silver (C)	1705-021-N000	A/32

## Straight Plug for Flexible Cable—Polarized Mating



**Figure 1**  
(Clamp type)

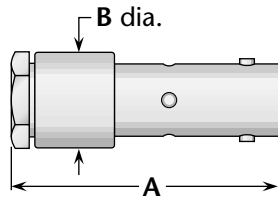


**Figure 2**  
(Crimp type)

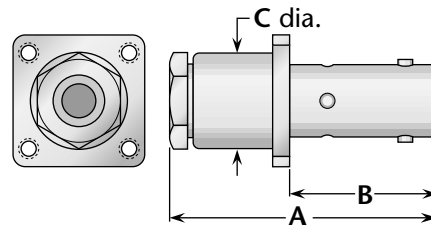
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
5, 6	1	1.56	.50	Nickel	Silver	1701-015-N002	A/30
8A	1	1.56	.50	Nickel	Silver	1701-029-N002	A/30
5	2	1.44	.50	Nickel	Silver	1703-017-N002	B/25
7	2	1.44	.50	Nickel	Silver	1703-020-N002	B/25

See page 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

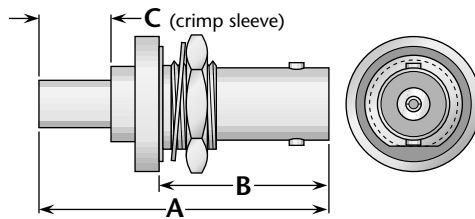
## Cable Jacks for Flexible Cable—Standard Mating



**Figure 1**  
(Straight jack, clamp type)



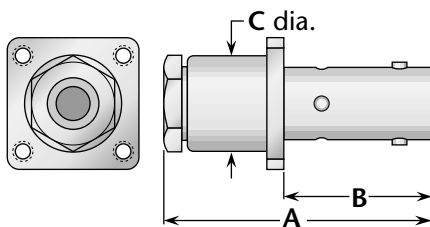
**Figure 2**  
(Panel jack, clamp type)



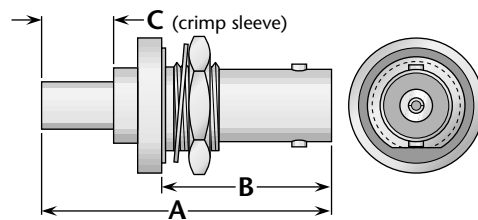
**Figure 3**  
(Bulkhead jack, crimp type)

Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
5, 6	1	1.50	.50	—	—	—	Nickel	Silver	1708-015-N000	A/31
7	1	1.50	.50	—	—	—	Nickel	Silver	UG-1016A/U	A/31
5, 6	2	1.44	.78	.44	07	—	Nickel	Silver	1711-014-N070	C/07
7	2	1.50	.78	.50	07	—	Nickel	Silver	UG-961A/U	A/31
5	3	1.70	.89	.50	59	.20	Nickel	Silver	1719-017-N590	B/24
7	3	1.70	.89	.50	59	.20	Nickel	Silver	1719-021-N590	B/24

## Cable Jacks for Flexible Cable—Polarized Mating



**Figure 1**  
(Panel jack, clamp type)



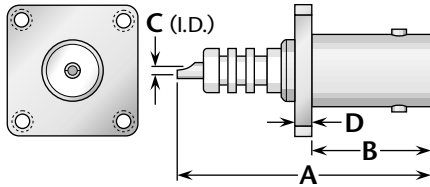
**Figure 2**  
(Bulkhead jack, crimp type)

Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
5, 6	1	1.50	.78	.50	07	—	Nickel	Silver	1711-014-N072	A/31
5	2	1.88	1.08	.50	59	.20	Nickel	Silver	1719-017-N592	B/24
7	2	1.88	1.08	.50	59	.20	Nickel	Silver	1719-021-N592	B/24

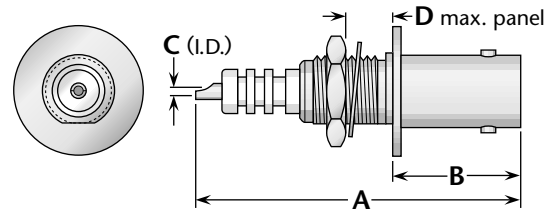
See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



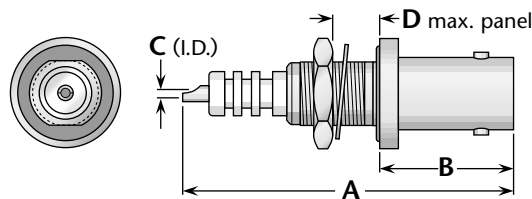
## Bulkhead and Panel Receptacles—Standard Mating



**Figure 1**  
(Panel jack receptacle)



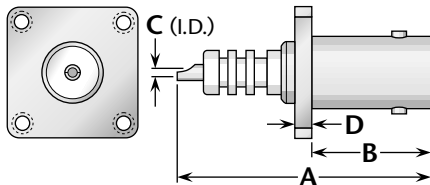
**Figure 2**  
(Bulkhead jack receptacle, front mount, no mounting gasket)



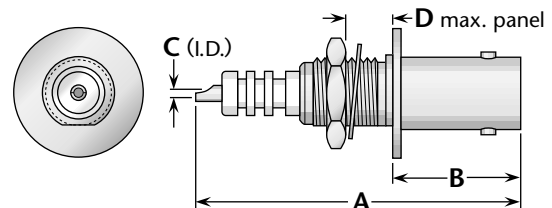
**Figure 3**  
(Bulkhead jack receptacle, front mount, with mounting gasket)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.34	.63	.043	.090	07	Nickel	Gold (C)	UG-931/U
2	1.42	.47	.043	.11	65	Nickel	Gold (C)	1720-000-N651-3
3	1.69	.59	.043	.23	75	Nickel	Gold (C)	1720-000-N751-1

## Bulkhead and Panel Receptacles—Polarized Mating



**Figure 1**  
(Panel jack receptacle)



**Figure 2**  
(Bulkhead jack receptacle, front mount, no mounting gasket)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.34	.63	.043	.090	07	Nickel	Gold (C)	1713-000-N072
2	1.54	.51	.043	.18	65	Nickel	Gold (C)	1720-000-N652

(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions.

## General Description

Delta MMCX connectors are microminiature, 50Ω impedance connectors with snap-on coupling. They are best suited for use with cables in the range of .070" to .120" diameter, such as RG-178 and RG-316/U.

These connectors provide small size, light weight, and economy with the convenience of snap-on mating and the ability to rotate connector pairs after mating for precise alignment. Their non-slotted outer contact provides for low RF leakage. All Delta MMCX connectors are available with gold-plated bodies, or with nickel-plated bodies for economy.

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

- MMCX P. C. board receptacles (page 65) with a choice of through-hole, edge mounting, or surface mounting.
- P. C. board jack receptacles (page 65) that fit flush with the edge of boards, ideal for daughterboard applications.
- Reverse-polarity MMCX connectors are available upon request; please contact factory for details.

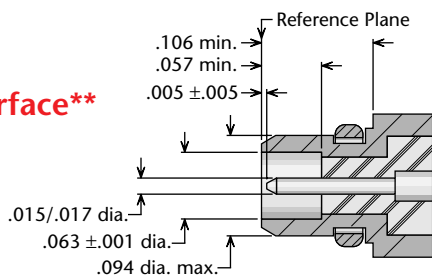
Our MMCX series product line is still growing, so please call if you don't see what you need.

## MMCX Configurations

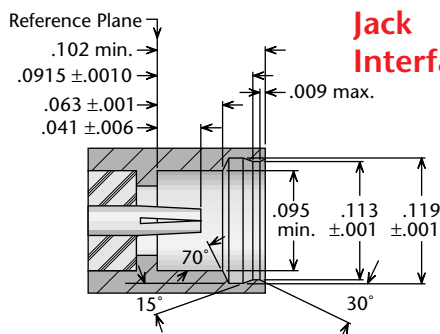
Straight Cable Plugs .....	64	Straight P.C. Board Jack Receptacles .....	65
Right Angle Cable Plugs .....	64	Right Angle P.C. Board Jack Receptacles.....	65
Straight Cable Jacks .....	64	Straight P.C. Board Plug Receptacles.....	65

## MMCX Specifications\*

### Plug Interface\*\*



### Jack Interface\*\*



\*\*Some proportions altered to illustrate detail.

### Electrical:

**Nominal Impedance:** 50 ohms.

**Frequency Range:** DC-6 GHz.

**Voltage Rating:** 170 volts RMS.

**Dielectric Withstanding Voltage:** 500 volts RMS.

**Insulation Resistance:** 1,000 megohms.

### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.

**Male Contacts:** Brass per ASTM B16, or Beryllium Copper per ASTM B196.

**Female Contacts:** Beryllium Copper per ASTM B196.

**Contact Plating:** Gold per MIL-G-45204.

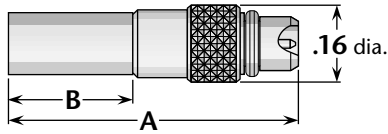
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.

**Other Metal Parts:** Brass per ASTM B16 or equivalent; plated gold per MIL-G-45204, or nickel per QQ-N-290.

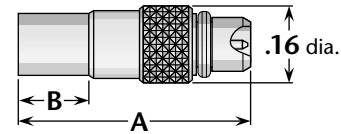
All other specifications are in accordance with the latest issues of CECC 22000.

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

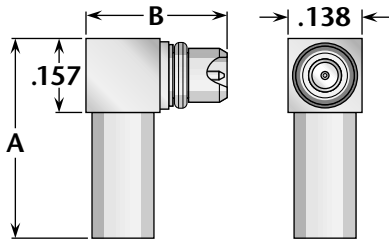
## Straight and Right Angle Cable Plugs



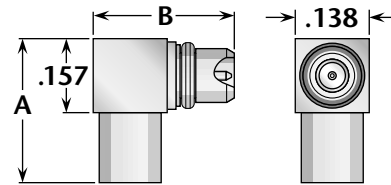
**Figure 1**  
(Straight crimp type for flexible cable)



**Figure 2**  
(Straight direct solder for semi-rigid cable)



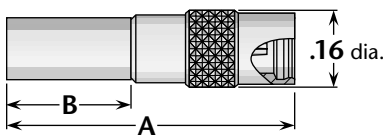
**Figure 3**  
(Right angle crimp type for flexible cable)



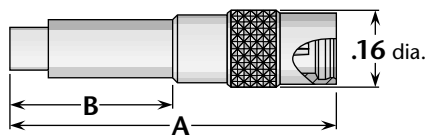
**Figure 4**  
(Right angle direct solder for semi-rigid cable)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
9	1	.61	.27	Gold*	Gold	9503-037-G000-500	B/37
9	3	.43	.27	Gold*	Gold (C)	9507-037-G001-500	L/04
11	1	.61	.27	Gold*	Gold	9503-038-G000-500	B/37
11	3	.43	.27	Gold*	Gold (C)	9507-038-G001-500	L/04
14	2	.49	.16	Gold*	Gold	9501-025-G003-500	H/01
14	4	.30	.27	Gold*	Gold (C)	9505-025-G003-500	J/04

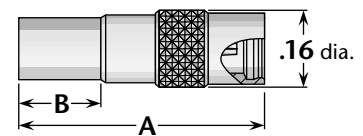
## Straight Cable Jacks



**Figure 1**  
(Crimp type for flexible cable)



**Figure 2**  
(Crimp type for flexible cable)

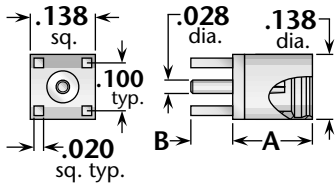


**Figure 3**  
(Direct solder for semi-rigid cable)

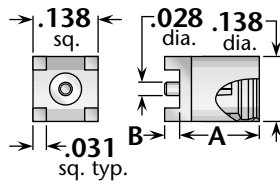
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
9	1	.63	.27	Gold*	Gold	9510-037-G000-500	B/37
11	2	.70	.37	Gold*	Gold	9510-038-G000-500	B/39
14	3	.51	.16	Gold*	Gold	9510-025-G003-500	H/01

\* Also available with nickel-plated body—change G in Delta part number to N. • See page 204 for cable groups. (C) in contact plating column indicates captive contact. • Assembly procedures start on page 205.

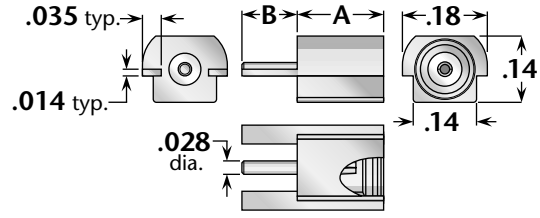
## Printed-Circuit Board Jack Receptacles



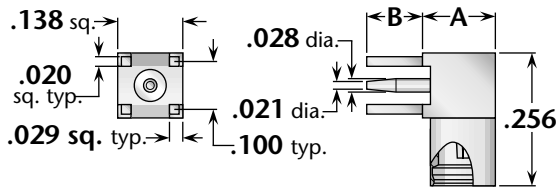
**Figure 1**  
(Straight through-hole mount)



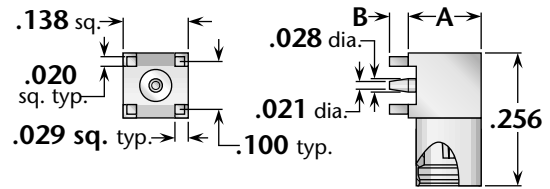
**Figure 2**  
(Straight surface mount)



**Figure 3**  
(Straight flush edge mount)



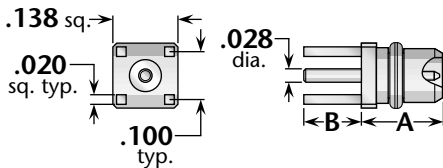
**Figure 4**  
(Right angle through-hole mount)



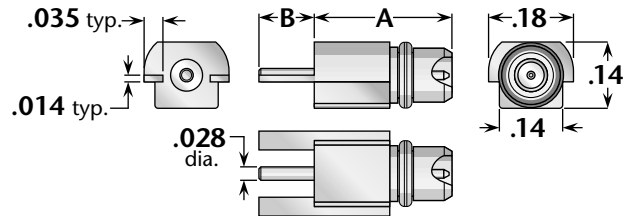
**Figure 5**  
(Right angle surface mount)

Figure	Dimensions		Max. Board	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	.171	.120	.100	PCB08	Gold*	Gold (C)	9567-000-G001-500
1	.166	.031	.020	PCB08	Gold*	Gold (C)	9567-000-G001-501
2	.166	.031	N/A	**	Gold*	Gold (C)	9567-000-G001-503
3	.171	.120	N/A	**	Gold*	Gold (C)	9567-000-G001-502
4	.150	.118	.100	PCB08	Gold*	Gold (C)	9569-000-G001-500
5	.150	.031	N/A	**	Gold*	Gold (C)	9569-000-G001-501

## Printed-Circuit Board Plug Receptacles



**Figure 1**  
(Straight through-hole mount)



**Figure 2**  
(Straight flush edge mount)

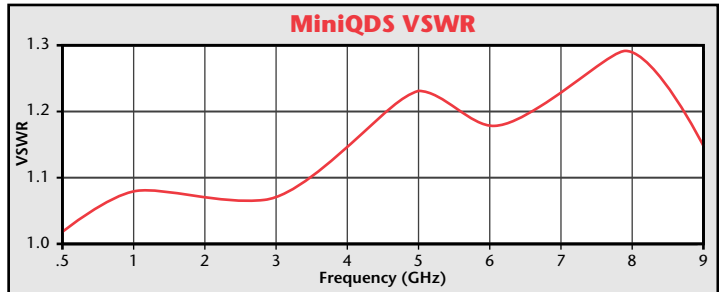
Figure	Dimensions		Max. Board	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	.171	.120	.100	PCB08	Gold*	Gold (C)	9568-000-G001-500
2	.282	.120	N/A	**	Gold*	Gold (C)	9568-000-G001-501
2	.173	.120	N/A	**	Gold*	Gold (C)	9568-000-G001-502

\* Also available with nickel-plated body—change G in Delta part number to N. • See page 203 for mounting dimensions.  
\*\*Contact factory for mounting dimensions. • (C) in contact plating column indicates captive contact.

## General Description

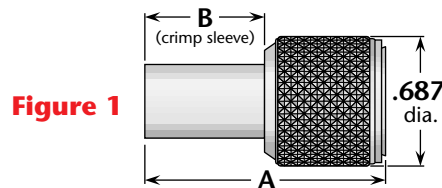
Delta MQD (Miniature QDS) connectors feature the same positive-locking, push-on mating as QDS series connectors, but in a miniature size equivalent to BNC and TNC connectors. Along with the convenience of quick-connect and quick-disconnect mating, they exhibit good VSWR to 9 GHz.

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



Contact factory for other specifications and interface dimensions.

## Straight Plug—Crimp Type for Flexible Cable

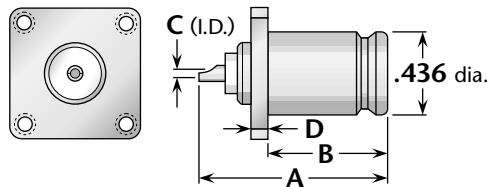


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
6	1	1.05	.50	Albaloy*	Gold	4203-015-Q000	B/23

\* Crimp sleeve is nickel plated.

## Panel Jack Receptacle—Square Flange

**Figure 1**  
(Solder pot contact)



Also available with other contact/insulator configurations and flange sizes

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.63	.062	.090	07	Albaloy	Gold (C)	4213-000-Q071-1

## Adapter Between Series

**Figure 1**  
(MiniQDS jack to TNC jack)

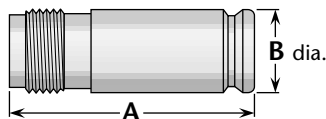


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.28	.436	Albaloy	Gold (C)	2234-000-Q001-136

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## General Description

Delta type N connectors are medium size, 50Ω impedance connectors with 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.
- 70Ω 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 .....	68	Dummy Receptacles .....	82
Right Angle Cable Plugs .....	71	Right Angle Panel Jack Receptacles .....	82
Tee Cable Plugs .....	72	Panel Plug Receptacles.....	83
Straight Cable Jacks .....	72	Bulkhead Jack Receptacles .....	84
Bulkhead Cable Jacks .....	74	Stripline Receptacles .....	84
Tee Bulkhead Cable Jacks.....	75	PressMount Receptacles.....	85
Panel Cable Jacks .....	76	Resistive Terminations.....	86
Panel Jack Receptacles (square flange).....	79	Dust Caps.....	86
Panel Jack Receptacles (round flange).....	79	In-Series Adapters .....	87

## 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.

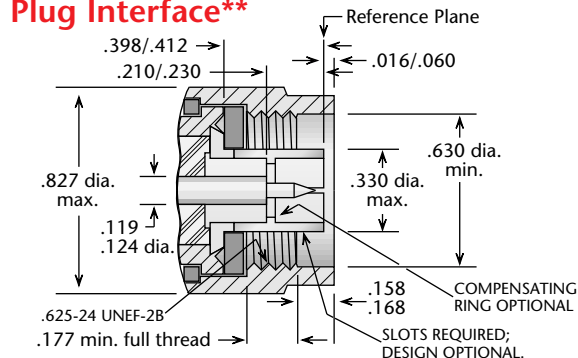
**Contact Plating:** Silver per QQ-S-365, or  
 Gold per MIL-G-45204.

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

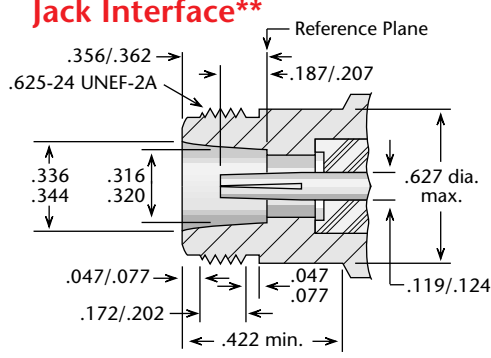
**Other Metal Parts:** Brass per ASTM B16, plated:  
 Silver per QQ-S-365, or  
 Nickel per QQ-N-290.

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\*\*



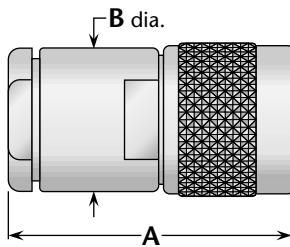
### Jack Interface\*\*



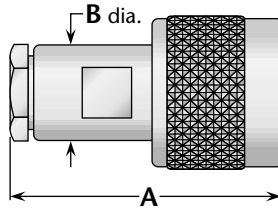
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

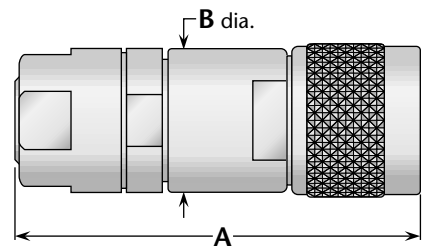
## Straight Plug—Military Clamp for Flexible Cable



**Figure 1**



**Figure 2**

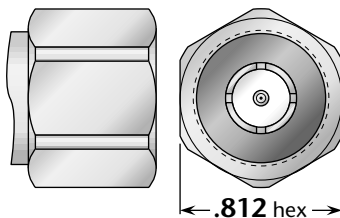


**Figure 3**  
(Includes armor clamp)

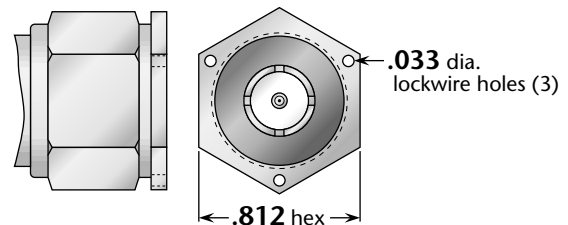
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.50	.75	Nickel	Silver	UG-18E/U	A/01
1	1	1.50	.75	Nickel	Silver (C)	1101-001-N001	A/01
2, 3	1	1.80	.68	Nickel	Silver	UG-21B/U	C/01
2, 3	1	1.50	.75	Nickel	Gold	UG-21D/U	A/01
2, 3	1	1.50	.75	Nickel	Gold	UG-21E/U	A/01
2, 3	1	1.50	.75	Nickel	Gold	UG-21G/U	A/01
2, 3	1	1.50	.75	Nickel	Silver (C)	UG-1185/U	A/01
2, 3	1	1.50	.75	Nickel	Gold (C)	UG-1185A/U	A/01
2, 3	1	1.50	.75	Silver	Gold (C)	M39012/01-0005*	A/01
5, 6	2	1.41	.50	Nickel	Silver	UG-536B/U	A/02
5, 6	2	1.41	.50	Nickel	Gold	UG-536C/U	A/02
5, 6	2	1.41	.50	Nickel	Gold (C)	1101-015-N001	A/02
7	2	1.38	.50	Nickel	Silver	UG-603A/U	A/02
7	2	1.38	.50	Nickel	Silver (C)	1101-021-N001	A/02
8	2	1.41	.50	Nickel	Silver (C)	1101-043-N001	A/02
9	2	1.38	.50	Nickel	Silver	1101-036-N000	A/02
9	2	1.38	.50	Nickel	Silver (C)	1101-036-N001	A/02
15	3	2.42	.75	Nickel	Silver	UG-941B/U	D/01
15	3	2.42	.75	Silver	Gold (C)	M39012/01-0125*	D/03
16	1	1.80	.88	Nickel	Silver	UG-204A/U	C/02
16	1	1.80	.88	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	.50	Nickel	Silver	1101-132-N000	A/03

\* Lockwire holes in coupling nut.

### Optional Type N Coupling Nut Examples



13/16" hex coupling nut



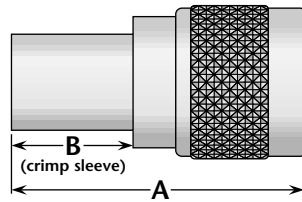
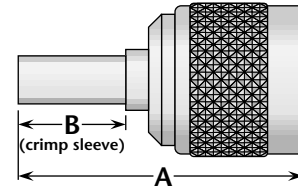
13/16" hex coupling nut with lockwire holes

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 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



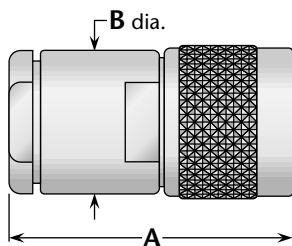
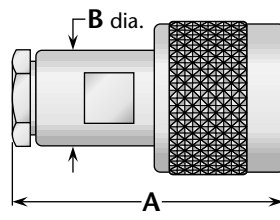
## Straight Plug—Crimp Type for Flexible Cable

**Figure 1**

**Figure 2**


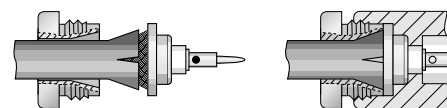
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2	1	1.51	.63	Nickel	Silver	1103-002-N000	B/01
2	1	1.55	.63	Nickel	Gold (C)	1103-002-N001-9	B/03
2	1	1.55	.60	Silver	Gold (C)	M39012/01B0007*	B/03
2	1	1.55	.60	Silver	Gold (C)	M39012/01-0502*	B/03
2B	1	1.55	.63	Nickel	Silver	1103-070-N000	B/01
3A, 4	1	1.55	.63	Nickel	Gold (C)	1103-004-N001-1	B/03
3A, 4	1	1.51	.63	Nickel	Silver	1103-005-N000	B/01
3A, 3C, 4	1	1.55	.60	Silver	Gold (C)	M39012/01B0008*	B/03
3A, 3C, 4	1	1.55	.60	Silver	Gold (C)	M39012/01-0501*	B/03
4	1	1.50	.63	Nickel	Silver	1103-079-N000	B/01
5	2	1.43	.50	Nickel	Silver	1103-017-N000	B/04
5	1	1.48	.50	Nickel	Gold (C)	1103-017-N001	B/05
6	2	1.43	.50	Nickel	Silver	1103-013-N000	B/04
6	1	1.45	.50	Nickel	Gold (C)	1103-018-N001	B/03
6	1	1.45	.50	Silver	Gold (C)	M39012/01-0503*	B/03
7	2	1.43	.50	Nickel	Silver	1103-020-N000	B/06
7	1	1.38	.50	Nickel	Gold (C)	1103-020-N001	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.

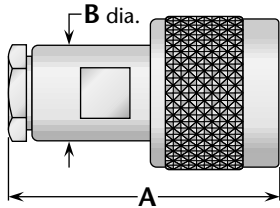
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2	1	1.50	.75	Nickel	Gold (C)	1101-004-N005	E/01
3	1	1.50	.75	Nickel	Gold (C)	1101-004-N005-6	E/01
5, 6 <sup>§</sup>	2	1.41	.50	Nickel	Gold (C)	1101-015-N005	E/02
RG-223	2	1.41	.50	Nickel	Gold (C)	1101-015-N005-1	E/02
7	2	1.38	.50	Nickel	Gold (C)	1101-021-N005	E/02
24	1	1.50	.75	Nickel	Gold (C)	1101-052-N005	E/01
26	1	1.50	.75	Nickel	Gold (C)	1101-108-N005	E/01

<sup>§</sup>Except RG-223/U.

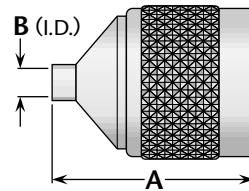
See page 204 for cable groups. • Assembly procedures start on page 205.

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

## Straight Plug—For Semi-Rigid Cable

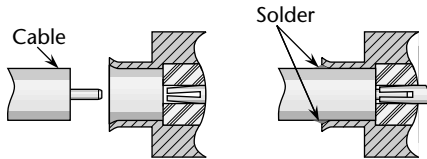


**Figure 1**  
(Solder-clamp; gold-plated ferrule, nickel-plated body)

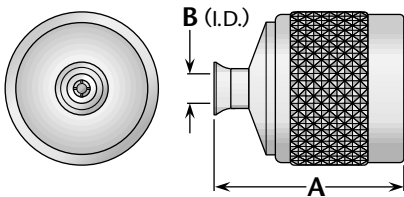


**Figure 2**  
(Direct solder; gold-plated body, nickel<sup>(1)</sup> or passivated<sup>(2)</sup> coupling nut)

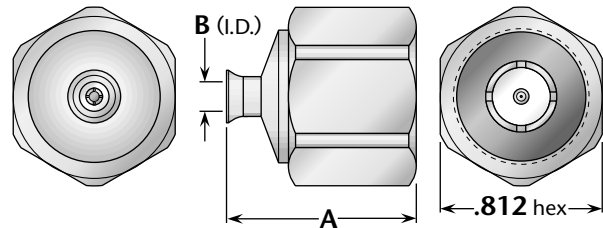
### Delta One-Step Cable Attachment for Semi-Rigid Cable



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)

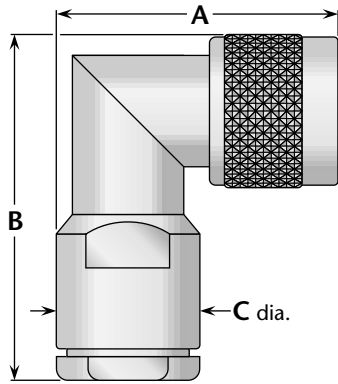
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
12	1	1.50	.50	Nickel	Silver	1101-050-N000	F/03
12	2	.96	.254	Mixed <sup>(1)</sup>	Silver	1101-050-N003	***
12	4	1.44	.254	Silver	Gold (C)	1101-050-A003-7	I/01
13	1	1.41	.50	Nickel	Silver	1101-031-N003	F/01
13	2	.96	.143	Mixed <sup>(1)</sup>	Gold	1101-031-N003-1	***
13	2	.96	.143	Mixed <sup>(2)</sup>	Gold	1101-031-K00M	***
13	3	.96	.143	Silver	Gold (C)	1101-031-A003-8	I/01
13	4	.96	.143	Silver	Gold (C)	1101-031-A003-12	I/01
14	1	1.41	.50	Nickel	Silver	1101-025-N003	F/02

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

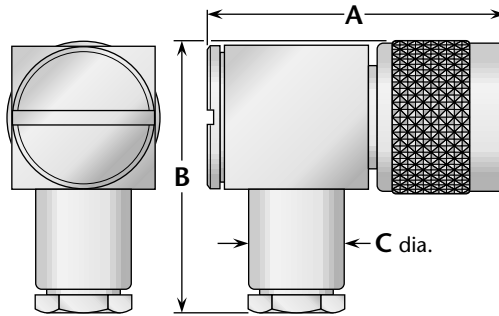
<sup>(2)</sup> Stainless steel body and coupling nut.

See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

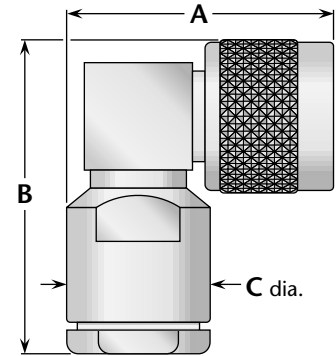
## Right Angle Plug—Military Clamp for Flexible Cable



**Figure 1**  
(Mitered body)



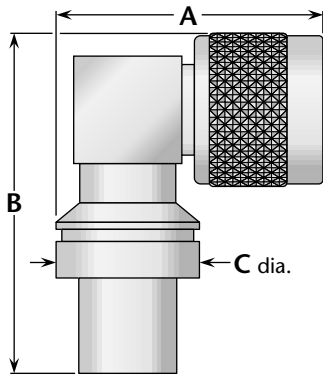
**Figure 2**  
(Cube body with access cap)



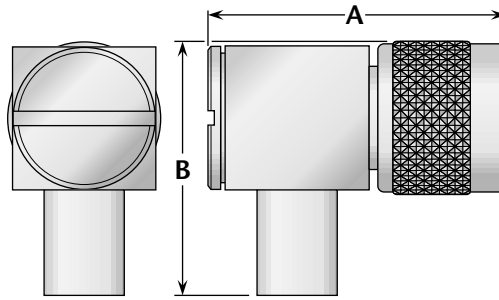
**Figure 3**  
(Cube body)

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
2, 3	1	1.47	1.88	.75	Nickel	Silver (C)	UG-594B/U	A/01
2, 3	3	1.36	1.66	.75	Silver	Gold (C)	M39012/05-0101	A/07
2, 3	3	1.39	1.66	.75	Nickel	Gold	1105-004-N000	A/04
5	3	1.39	2.00	.75	Nickel	Gold (C)	1104-032-N001	A/08
5, 6	2	1.55	1.28	.50	Nickel	Silver (C)	1105-015-N000	A/11
5, 6	3	1.35	1.55	.56	Nickel	Silver (C)	1105-015-N001	A/09
7	2	1.55	1.28	.50	Nickel	Silver (C)	1105-021-N000	A/11
9	2	1.55	1.28	.50	Nickel	Silver (C)	1105-036-N001	A/11
19	3	1.36	1.66	.75	Nickel	Silver (C)	1104-027-N001	A/07

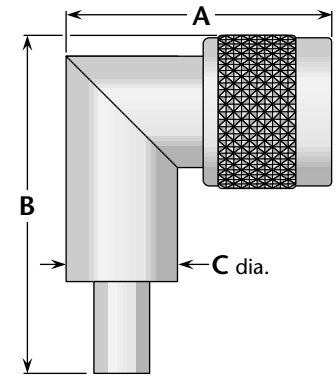
## Right Angle Plug—Crimp Type for Flexible Cable



**Figure 1**  
(Cube body)



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



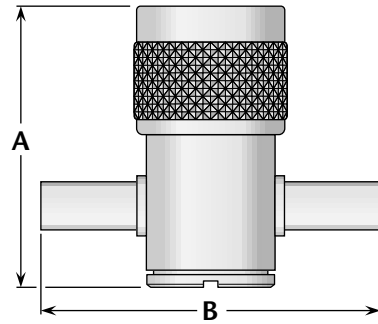
**Figure 3**  
(Mitered body)

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
2	1	1.39	1.77	.75	Nickel	Silver	1107-002-N000	B/07
2	2	1.39	1.25	—	Nickel	Silver (C)	1107-002-N000-1	B/09
3	1	1.39	1.77	.75	Nickel	Silver	1107-005-N000	B/07
2	3	1.41	2.30	.687	Nickel	Gold (C)	1107-002-N001-2	B/30
3	3	1.41	2.30	.687	Nickel	Gold (C)	1107-004-N001-2	B/30
6	3	1.41	2.25	.687	Nickel	Gold (C)	1107-034-N001-1	B/08

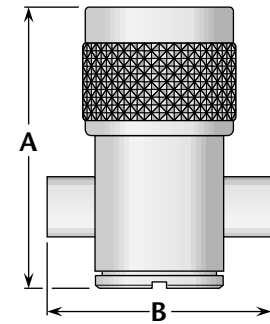
See page 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Tee Plug—For Flexible and Semi-Rigid Cable

**Figure 1**  
(Crimp type for flexible cable)

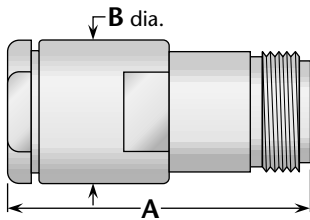


**Figure 2**  
(Direct solder for semi-rigid cable)

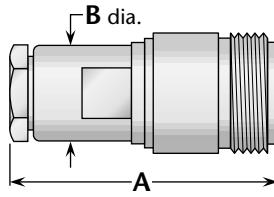


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2	1	1.39	2.00	Silver	Silver (C)	1185-002-A000	B/16
3	1	1.39	2.00	Silver	Silver (C)	1185-004-A000-2	B/16
6	1	1.39	1.82	Silver	Silver (C)	1185-013-A001	B/17
7	1	1.39	1.82	Silver	Silver (C)	1185-019-A000	B/17
9	1	1.39	1.82	Silver	Silver (C)	1185-036-A000	B/17
13	2	1.39	.90	Silver	Silver (C)	1185-031-A000	***

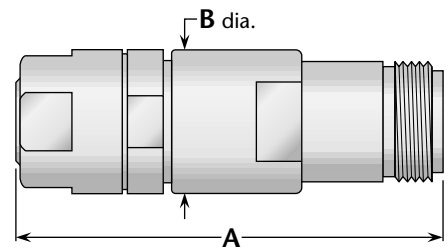
## Straight Jack—Military Clamp for Flexible Cable



**Figure 1**



**Figure 2**



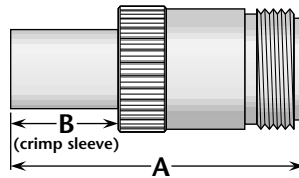
**Figure 3**  
(Includes armor clamp)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.56	.75	Nickel	Silver	UG-20E/U	A/01
1	1	1.67	.75	Silver	Gold (C)	M39012/02-0101	A/01
2, 3	1	1.56	.75	Nickel	Silver	UG-23D/U	A/01
2, 3	1	1.56	.75	Nickel	Gold	UG-23F/U	A/01
2, 3	1	1.56	.75	Nickel	Silver (C)	UG-1186/U	A/01
2, 3	1	1.56	.75	Nickel	Silver (C)	UG-1186A/U	A/01
2, 3	1	1.67	.75	Silver	Gold (C)	M39012/02-0003	A/01
5, 6	2	1.41	.50	Nickel	Silver	1108-015-N000	A/05
5, 6	2	1.47	.50	Nickel	Silver (C)	1108-015-N001	A/02
7	2	1.41	.50	Nickel	Silver	UG-602A/U	A/02
7	2	1.27	.50	Nickel	Silver	1108-000-N000-3*	—
7	2	1.47	.50	Nickel	Silver (C)	1108-021-N001	A/02
15	3	2.25	.75	Nickel	Silver	UG-940B/U	D/03
19	1	1.56	.75	Nickel	Gold (C)	1108-027-N001	A/12
22	1	1.87	.69	Nickel	Gold	1108-123-N000	C/03

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

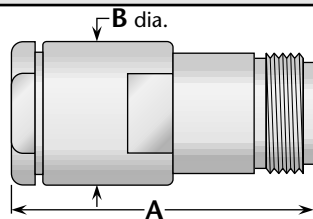
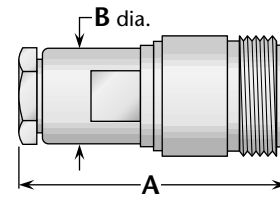
See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Straight Jack—Crimp Type for Flexible Cable

**Figure 1**


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2	1	1.64	.60	Silver	Gold (C)	M39012/02B0008	B/10
2	1	1.64	.60	Silver	Gold (C)	M39012/02-0502	B/03
2	1	1.47	.50	Nickel	Gold	1110-002-N000	B/10
2	1	1.60	.63	Nickel	Gold (C)	1110-002-N001	B/11
3	1	1.64	.60	Silver	Gold (C)	M39012/02B0009	B/10
3	1	1.64	.60	Silver	Gold (C)	M39012/02-0501	B/03
3	1	1.47	.50	Nickel	Gold	1110-005-N000	B/10
3	1	1.60	.63	Nickel	Gold (C)	1110-005-N001	B/10
6	1	1.56	.50	Nickel	Gold	1110-013-N000-1	B/12
6	1	1.54	.50	Silver	Gold (C)	M39012/02-0503	B/03

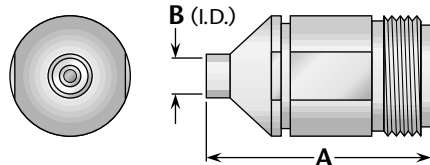
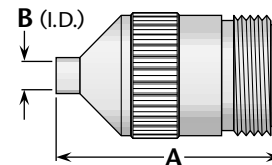
## Straight Jack—Heli-Grip® for Flexible Cable

**Figure 1**

**Figure 2**


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.63	.75	Nickel	Gold (C)	1108-004-N005-2	E/01
5, 6 <sup>S</sup>	2	1.41	.50	Nickel	Gold (C)	1108-018-N005-2	E/02
RG-223	2	1.41	.50	Nickel	Gold (C)	1108-015-N005	E/02
7	2	1.41	.50	Nickel	Gold (C)	1108-019-N005-2	E/02
8	2	1.41	.50	Nickel	Gold (C)	1108-029-N005-1	E/02
9	2	1.41	.50	Nickel	Gold (C)	1108-037-N005-2	E/02

<sup>S</sup>Except RG-223/U.

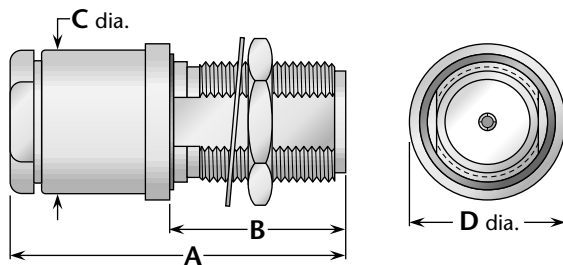
## Straight Jack—For Semi-Rigid Cable

**Figure 1**

**Figure 2**


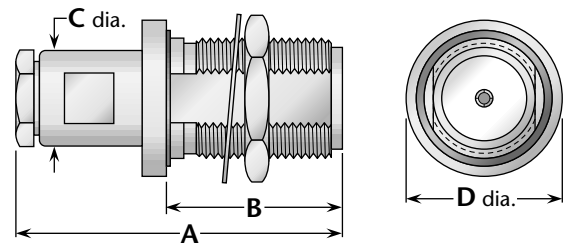
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
12	1	1.07	.254	Silver	Gold	1108-050-A003-3	***
13	2	1.00	.143	Silver	Gold	1108-031-A003	***

See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*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)

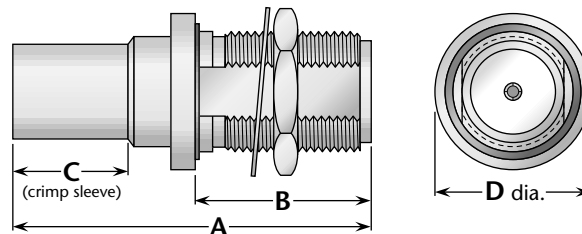


**Figure 2**  
(Rear mount)

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	.92	.75	.900	72	.25	Silver	Gold (C)	M39012/03-0101	A/01
2, 3	1	1.75	.92	.75	.875	72	.25	Nickel	Silver	UG-160D/U	A/01
2, 3	1	1.84	.92	.75	.812	72	.25	Nickel	Silver (C)	1116-003-N721	***
2, 3	1	1.75	.92	.75	.875	72	.25	Nickel	Gold	1116-004-N720-1	A/01
5, 6	2	1.67	.92	.50	.812	72	.25	Nickel	Silver	UG-556B/U	A/06
5, 6	2	1.67	.92	.50	.875	72	.25	Nickel	Gold (C)	1116-015-N721	A/02
7	2	1.47	.92	.50	.875	72	.25	Nickel	Silver	1116-021-N720	A/14
7	2	1.47	.92	.50	.875	72	.25	Nickel	Gold (C)	1116-021-N721	A/14
9	2	1.48	.92	.50	.875	72	.25	Nickel	Silver (C)	1116-036-N721	A/10
10	2	1.48	.92	.50	.875	72	.25	Nickel	Silver (C)	1116-100-N721	A/10
11	2	1.48	.92	.50	.875	72	.25	Nickel	Silver (C)	1116-038-N721	A/10
16	1	1.90	.92	.88	.875	72	.25	Silver	Gold (C)	M39012/03-0102	A/01

## Bulkhead Jack—Crimp Type for Flexible Cable

**Figure 1**  
(Rear mount)

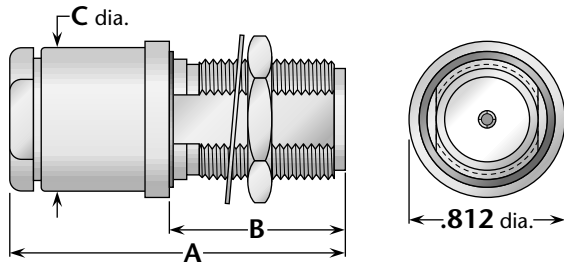
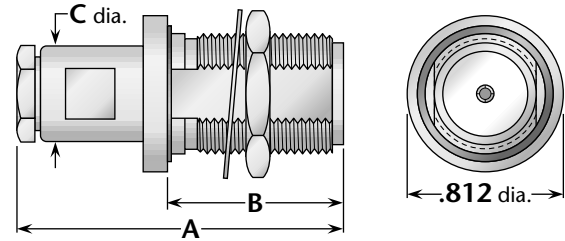


Cable Group	Fig.	Dimensions				Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C	D			Body	Contact		
2	1	1.84	.92	.60	.875	72	.25	Silver	Gold (C)	M39012/03B0004	B/03
2	1	1.84	.92	.60	.875	72	.25	Silver	Gold (C)	M39012/03-0502	B/03
3	1	1.84	.92	.60	.875	72	.25	Silver	Gold (C)	M39012/03B0005	B/03
3	1	1.84	.92	.60	.875	72	.25	Silver	Gold (C)	M39012/03-0501	B/03
6	1	1.74	.95	.50	.875	72	.25	Nickel	Gold (C)	1119-013-N721	B/13
6	1	1.74	.92	.50	.875	72	.25	Silver	Gold (C)	M39012/03-0503	B/03
7	1	1.59	.92	.50	.812	72	.25	Nickel	Silver	1119-020-N720	B/14
9	1	1.45	.88	.44	.812	72	.25	Nickel	Silver (C)	1119-036-N721	B/15
10	1	1.45	.88	.44	.812	72	.25	Nickel	Gold (C)	1119-100-N721	B/15

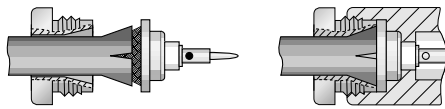
See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions  
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information.



## Bulkhead Jack—Heli-Grip® for Flexible Cable


**Figure 1**

**Figure 2**

### Heli-Grip® Cable Attachment

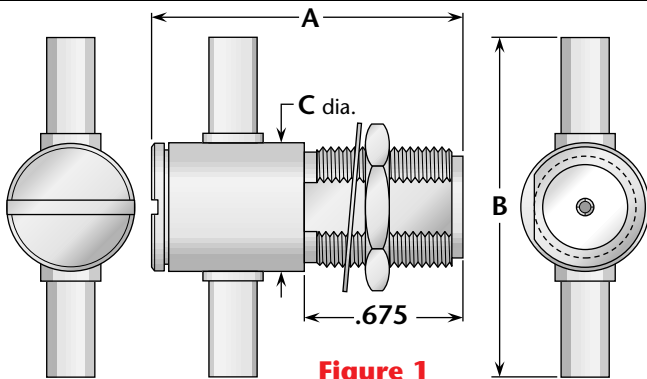
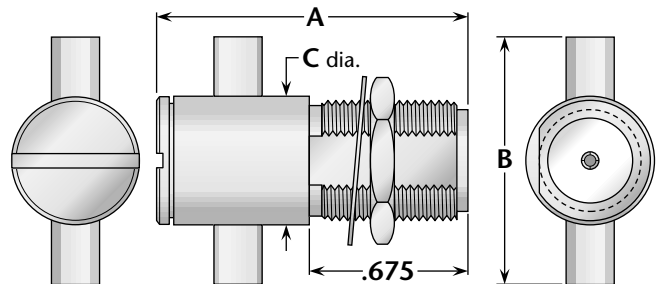


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

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	.92	.75	72	.25	Nickel	Gold (C)	1116-004-N725	E/01
5, 6 <sup>§</sup>	2	1.69	.92	.50	72	.25	Nickel	Gold (C)	1116-015-N725	E/03
RG-223	2	1.69	.92	.50	72	.25	Nickel	Gold (C)	1116-015-N725-1	E/03
7	2	1.69	.92	.50	72	.25	Nickel	Gold (C)	1116-021-N725	E/03
10	2	1.69	.92	.50	72	.25	Nickel	Gold (C)	1116-100-N725	E/03

<sup>§</sup>Except RG-223/U.

## Tee Bulkhead Jack—For Flexible and 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	.75	55	.10	Silver	Silver (C)	1185-002-A551	B/16
3	1	1.40	2.00	.75	55	.10	Silver	Silver (C)	1185-004-A551	B/16
6	1	1.38	1.89	.75	55	.10	Silver	Silver (C)	1185-013-A551	B/17
7	1	1.38	1.89	.75	55	.10	Silver	Silver (C)	1185-019-A551	B/17
9	1	1.38	1.89	.75	55	.10	Silver	Silver (C)	1185-036-A551	B/17
13	2	1.38	.90	.75	55	.10	Silver	Silver (C)	1185-031-A551	***

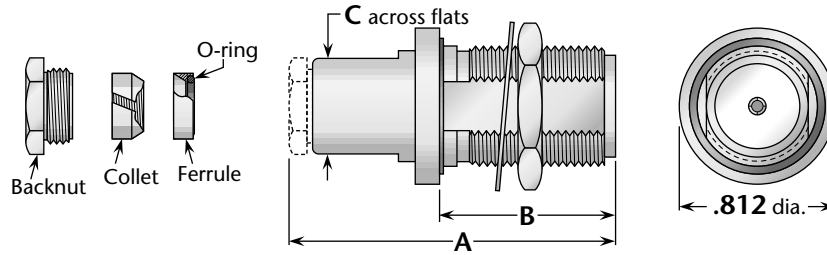
See page 204 for cable groups. • Assembly procedures start on page 205.

\*\*\* Contact factory for cable assembly instructions. • See page 203 for mounting dimensions.

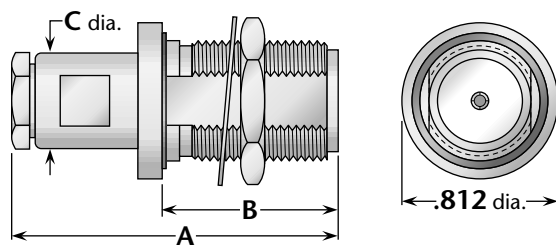
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



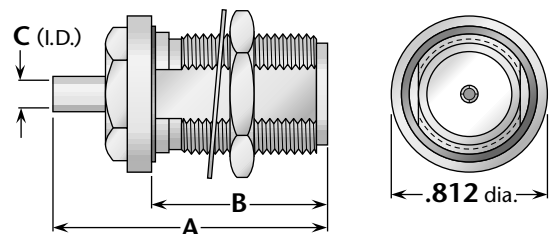
**Bulkhead Jack—For Semi-Rigid Cable**



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

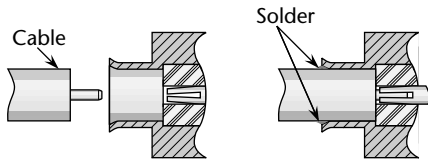


**Figure 2**  
(Solder-clamp; gold-plated ferrule, nickel-plated body)

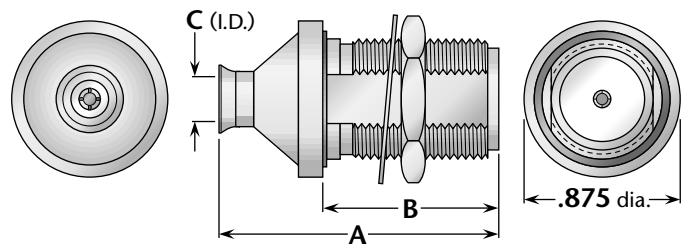


**Figure 3**  
(Direct solder)

**Delta One-Step Cable Attachment for Semi-Rigid Cable**



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.

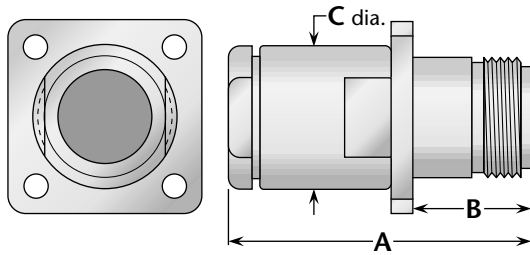


**Figure 4**  
(One-Step cable attachment)

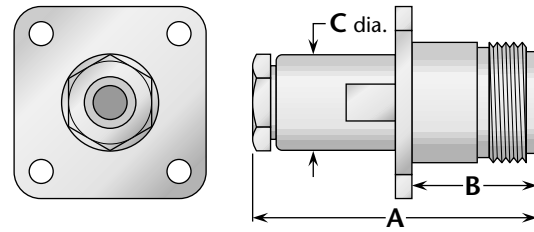
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
12	1	1.55	.889	.50	72	.25	Nickel	Gold (C)	1116-163-N721	***
13	2	1.67	.922	.50	72	.25	Nickel	Gold	1116-031-N720	F/04
13	3	1.33	.884	.145	72	.25	Nickel	Gold	1116-031-N723-1	***
13	4	1.38	.922	.143	72	.25	Silver	Gold (C)	1116-031-A723-3	I/01
14	2	1.67	.922	.50	72	.25	Nickel	Gold	1116-025-N723	F/04
14	3	1.33	.884	.090	72	.25	Nickel	Gold	1116-025-N723-1	***
14	4	1.38	.922	.088	72	.25	Silver	Gold (C)	1116-025-A723-2	I/01

See page 204 for cable groups. • Assembly procedures start on page 205.  
 \*\*\* Contact factory for cable assembly instructions. • See page 203 for mounting dimensions.  
 (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Panel Jack—For Flexible Cable

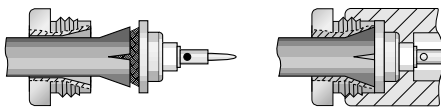


**Figure 1**



**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	.66	.75	33	Silver	Gold (C)	M39012/02-0104	A/01
2, 3	1	1.58	.66	.75	33	Nickel	Silver	UG-22D/U	A/01
2, 3	1	1.58	.66	.75	33	Nickel	Gold	UG-22F/U	A/01
2, 3	1	1.58	.66	.75	33	Nickel	Silver (C)	UG-1187/U	A/01
2, 3	1	1.58	.66	.75	33	Nickel	Silver (C)	UG-1187A/U	A/01
2, 3	1	1.67	.66	.75	33	Silver	Gold (C)	M39012/02-0006	A/01
5, 6	2	1.41	.66	.50	33	Nickel	Silver	UG-1095B/U	A/13
5, 6	2	1.41	.66	.50	33	Nickel	Gold	UG-1095C/U	A/13
5, 6	2	1.41	.66	.50	27	Nickel	Silver	1111-015-N270	A/13
5, 6	2	1.48	.66	.50	27	Nickel	Gold (C)	1111-015-N271	A/02
5, 6	2	1.41	.66	.50	33	Nickel	Silver (C)	1111-015-N331	A/02
7	2	1.41	.66	.50	33	Nickel	Silver	UG-593A/U	A/14
9	2	1.44	.66	.50	33	Nickel	Silver	1111-036-N330	A/16
9	2	1.48	.66	.50	33	Nickel	Silver (C)	1111-036-N331	A/15
19	1	1.56	.66	.75	33	Nickel	Gold (C)	1111-027-N331	A/12
22	1	1.87	.66	.69	30	Nickel	Gold	1111-123-N300	C/03

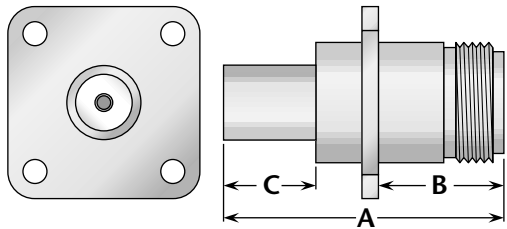
## Heli-Grip for Flexible Cable

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
2, 3	1	1.58	.66	.75	33	Nickel	Gold (C)	1111-004-N335	E/01
5, 6 <sup>§</sup>	2	1.41	.66	.50	33	Nickel	Gold (C)	1111-015-N335	E/03
RG-223	2	1.41	.66	.50	33	Nickel	Gold (C)	1111-015-N335-1	E/03
7	2	1.41	.66	.50	33	Nickel	Gold (C)	1111-021-N335	E/03
9	2	1.41	.66	.50	33	Nickel	Gold (C)	1111-037-N335-1	E/03
10	2	1.41	.66	.50	33	Nickel	Gold (C)	1111-100-N335-1	E/03

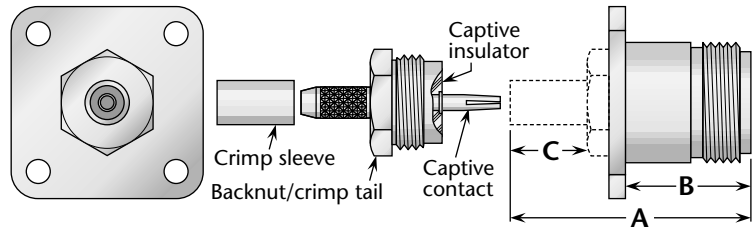
<sup>§</sup>Except RG-223/U.

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 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)

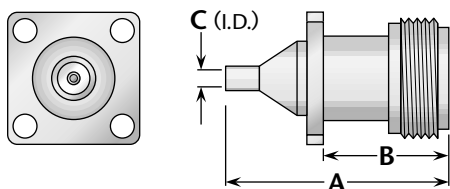
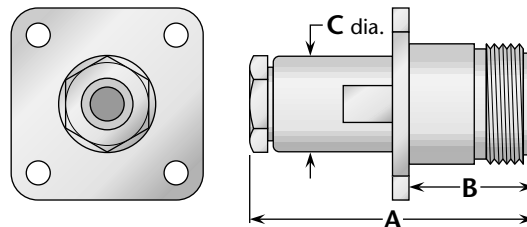


**Figure 2** (Contact and insulator captive in backnut)

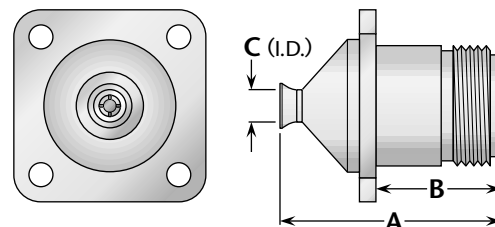
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
2	1	1.64	.66	.60	33	Silver	Gold (C)	M39012/02-0512	B/03
3	1	1.64	.66	.60	33	Silver	Gold (C)	M39012/02-0511	B/03
5	2	1.19	.595	.50	33	Nickel	Silver (C)	1155-017-N331	***
6	2	1.19	.595	.50	33	Nickel	Silver (C)	1155-013-N331	***
6	1	1.54	.66	.50	33	Silver	Gold (C)	M39012/02-0513	B/03
9	2	1.16	.595	.38	33	Nickel	Silver (C)	1155-037-N331	***

## Panel Jack—For Semi-Rigid Cable

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



**Figure 2** (One-Step cable attachment—see page 74 for details)



**Figure 3** (One-Step cable attachment—see page 74 for details)

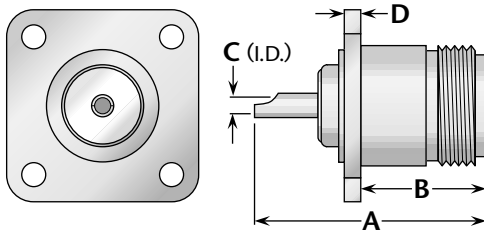
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
13	1	1.41	.66	.50	33	Nickel	Gold	1111-031-N333-1	F/05
13	2	1.11	.66	.143	09	Silver	Gold (C)	1111-031-A091-1	I/01
13	3	1.07	.64	.143	33	Silver	Gold (C)	1111-031-A333-4	I/01
14	1	1.41	.66	.50	33	Nickel	Gold	1111-025-N333	F/05
14	2	1.11	.66	.088	09	Silver	Gold (C)	1111-025-A091-1	I/01
14	3	1.07	.64	.088	33	Silver	Gold (C)	1111-025-A333-2	I/01

See page 204 for cable groups. • Assembly procedures start on page 205.

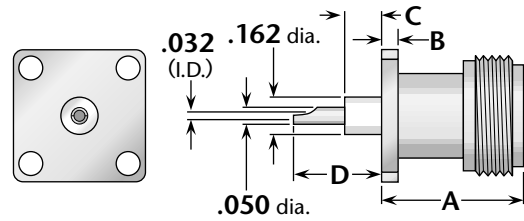
\*\*\* Contact factory for cable assembly instructions. • See page 203 for mounting dimensions.

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

**Panel Jack Receptacle—Solder Pot Contact**

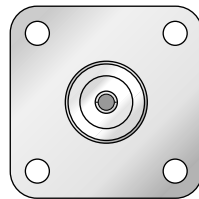


**Figure 1**



**Figure 2**

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



**Figure 3**

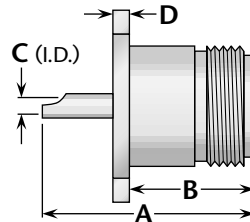
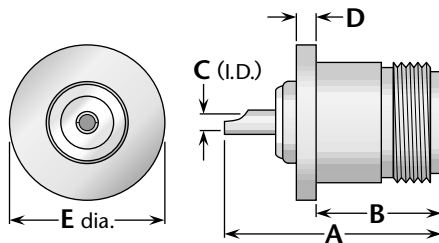


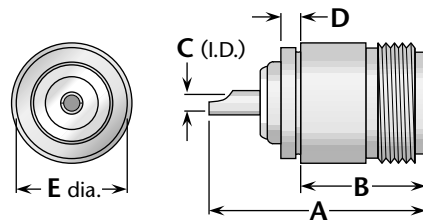
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.13	.66	.100	.080	33	Nickel	Silver (C)	UG-58A/U
1	1.13	.66	.100	.080	33	Silver	Gold (C)	M39012/04-0002
1	1.13	.66	.100	.050	18	Nickel	Silver (C)	1113-000-N181
1	1.13	.66	.100	.080	32A	Nickel	Silver (C)	1113-000-N321-2
1	1.13	.66	.100	.080	32	Nickel	Gold (C)	1113-000-N321-3
1	1.13	.66	.100	.080	33	Silver	Gold (C)	1113-000-A331-11
1	1.13	.66	.100	.080	33	Nickel	Gold (C)	1113-000-N331-11
1	1.13	.66	.100	.080	95	Nickel	Silver (C)	1113-000-N951
2	.735	.075	.125	.25	09	Nickel	Silver (C)	1113-000-N091-2
3	1.13	.66	.100	.080	33	Nickel	Gold (C)	1113-000-N331-9

**Panel Jack Receptacle—Solder Pot Contact**

Round flange (for solder or setscrew mounting)



**Figure 1**

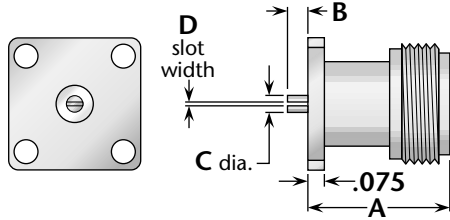


**Figure 2**

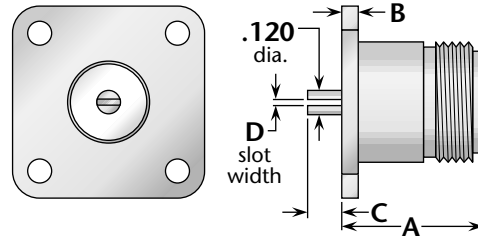
Figure	Dimensions					Plating		Delta P/N
	A	B	C	D	E	Body	Contact	
1	1.25	.66	.100	.175	1.50	Nickel	Silver (C)	1113-000-N911-2
1	1.25	.66	.100	.125	1.25	Nickel	Gold (C)	1113-000-N911-5
2	1.13	.66	.100	.11	.575	Nickel	Silver (C)	1120-000-N831

(C) in contact plating column indicates captive contact. • See page 203 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**  
(1 1/16" square flange, interchangeable with BNC and TNC standard flange size)



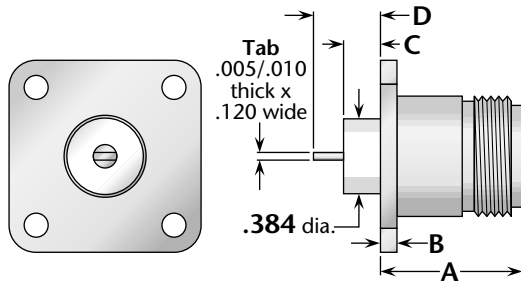
**Figure 2**

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	.735	.050	.086	.012/.017	09	Nickel	Gold (C)*	1143-000-N091-2
1	.735	.050	.086	.036	09	Nickel	Gold (C)*	1143-000-N091-3
1	.735	.050	.086	.007/.012	09	Nickel	Gold (C)*	1143-000-N091-4
1	.735	.050	.050	.012/.017	09	Nickel	Gold (C)*	1143-000-N091-9
2	.736	.080	.050	.012/.017	33	Nickel	Gold (C)*	1143-000-N330-10
2	.736	.080	.050	.026/.030	33	Nickel	Gold (C)*	1143-000-N331-17
2	.736	.080	.050	.020/.025	33	Nickel	Gold (C)	1143-000-N331-23
2	.735	.080	.050	.026/.030	33	Nickel	Gold (C)	1143-000-N331-54
2	.736	.080	.050	.012/.017	33	Nickel	Gold (C)	1143-000-N331-55

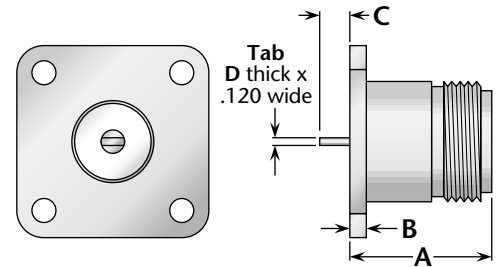
\*Epoxy-captivated contact.

**Panel Jack Receptacle—Tab Contact**

**Figure 1**



**Figure 2**



**Figure 3**

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

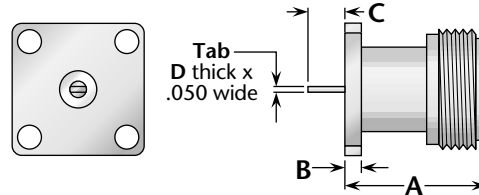
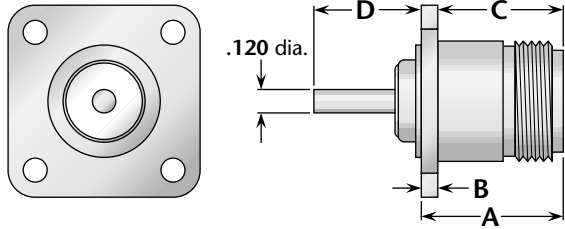


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	.736	.080	.195	.35	33	Nickel	Gold (C)*	1143-000-N330-12
2	.736	.080	.100	.005/.008	33	Silver	Gold (C)*	1158-000-A331-12
3	.735	.075	.050	.004/.006	09	Silver	Gold (C)*	1158-000-A091-23

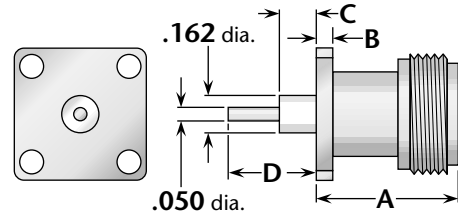
\*Epoxy-captivated contact.

(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.  
• See page 6 for alternate body plating information. • All items are available with other flange sizes and contact configurations.

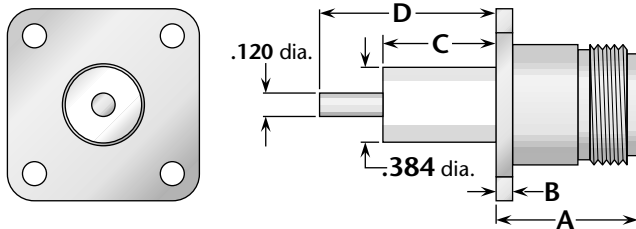
**Panel Jack Receptacle—Post Contact**



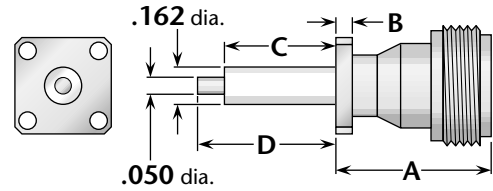
**Figure 1**



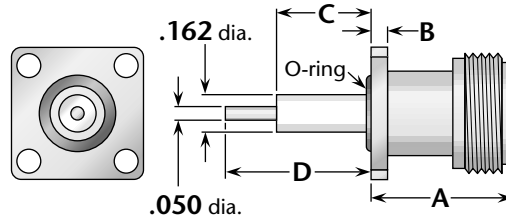
**Figure 2**  
(<sup>11</sup>/<sub>16</sub>" square flange, interchangeable with BNC and TNC standard flange size)



**Figure 3**



**Figure 4**  
(<sup>1</sup>/<sub>2</sub>" square flange, interchangeable with SMA standard flange size)



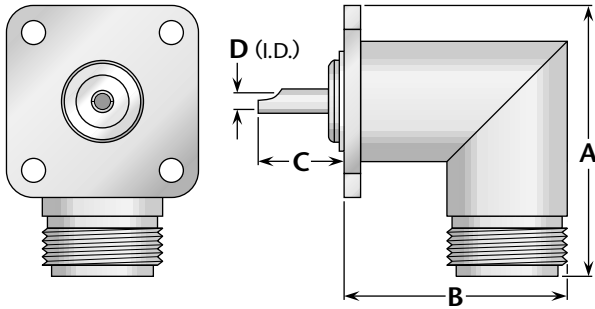
**Figure 5**  
(O-ring seal on flange, <sup>11</sup>/<sub>16</sub>" square flange, interchangeable with BNC and TNC standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	.736	.080	.66	.56	33	Nickel	Gold (C)	1113-000-N331-28
2	.735	.075	.125	.25	09	Nickel	Silver (C)	1143-000-N091-18
2	.735	.075	.125	.25	09	Nickel	Gold (C)	1143-000-N091-30
2	.735	.075	.590	.705	09	Nickel	Gold (C)*	1143-000-N091-69
3	.736	.080	.590	.705	33	Nickel	Gold	1143-000-N330-18
3	.736	.080	.590	.705	33	Nickel	Gold (C)*	1158-000-N331-15
4	.814	.080	.590	.705	05	Nickel	Gold (C)	1143-000-N051-2
5	.735	.075	.200	.450	09	Nickel	Gold (C)	1143-000-N091-59
5	.735	.075	.750	.875	09	Nickel	Gold (C)	1143-000-N091-73
5	.735	.075	.375	.425	09	Nickel	Gold (C)*	1143-000-N091-75

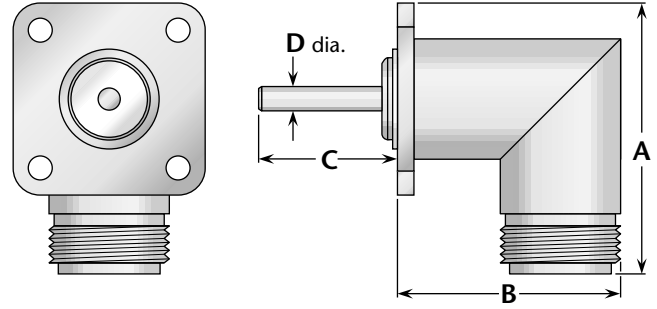
\*Epoxy-captivated contact.

(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.  
• See page 6 for alternate body plating information. • All items are available with other flange sizes and contact configurations.

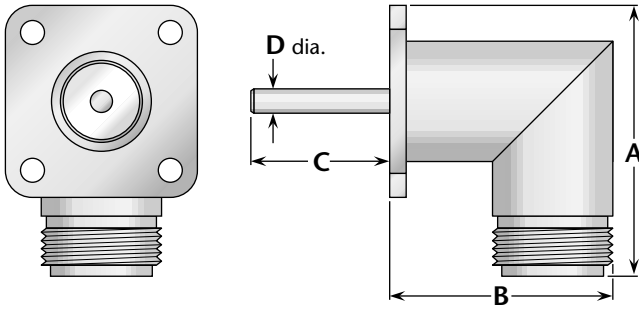
## Right Angle Panel Jack Receptacle



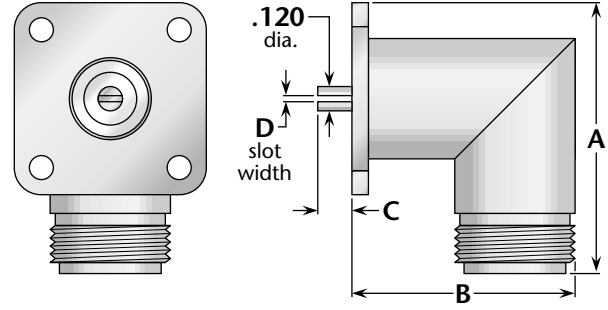
**Figure 1**



**Figure 2**



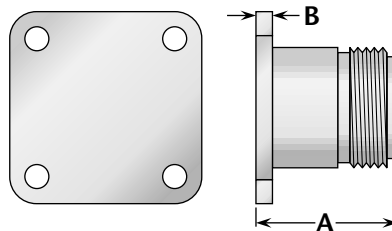
**Figure 3**



**Figure 4**

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.41	1.16	.30	.101	33	Nickel	Silver (C)	UG-997A/U
1	1.41	1.16	.30	.101	33	Nickel	Gold (C)	1115-000-N330-5
2	1.41	1.16	.75	.120	33	Nickel	Silver (C)	1115-000-N330-9
3	1.41	.830	.56	.120	33	Nickel	Gold (C)	1115-000-N330-12
4	1.41	1.17	.050	.020/.025	33	Nickel	Silver (C)	1115-000-N330-11

## Dummy Receptacle



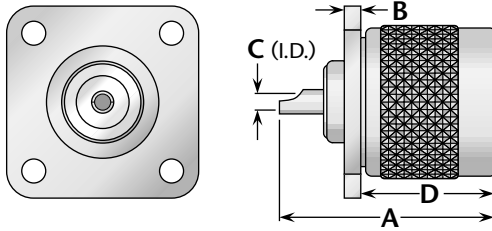
Dimensions		Mounting Figure	Plating		Delta P/N
A	B		Body	Contact	
.740	.080	33	Nickel	—	1163-000-N330

(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.  
 • See page 6 for alternate body plating information. • All items are available with other flange sizes and contact configurations.

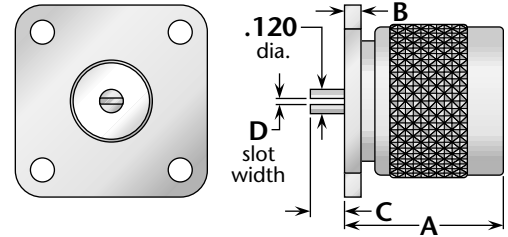


**Panel Plug Receptacles**

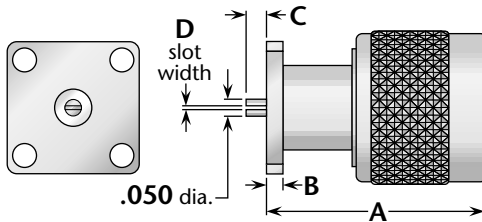
**Figure 1**  
(Solder pot contact)



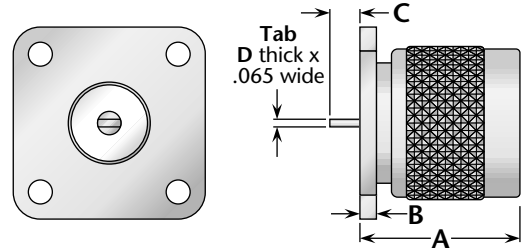
**Figure 2**  
(Slotted contact)



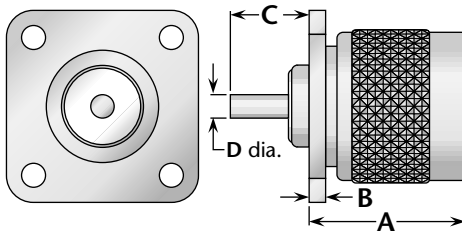
**Figure 3**  
(Slotted contact)



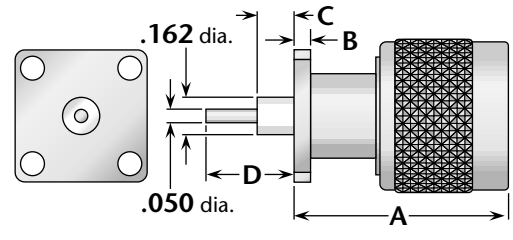
**Figure 4**  
(Tab contact)



**Figure 5**  
(Post contact)



**Figure 6**  
(Post contact)



**Figure 7**  
(Post contact)

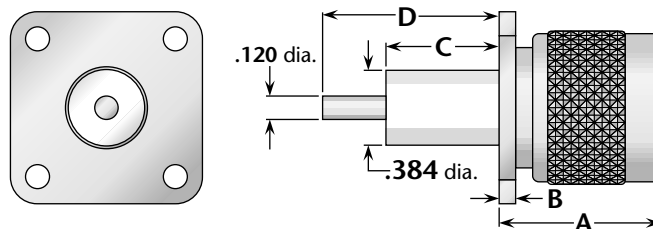


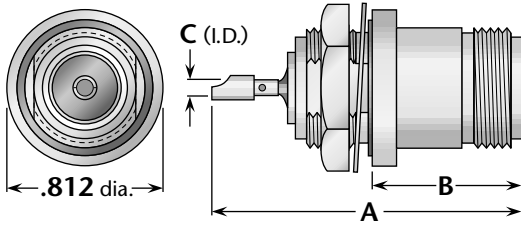
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.10	.080	.101	.72	33	Nickel	Silver (C)	1123-000-N330
1	1.10	.080	.101	.72	33	Nickel	Gold (C)	1123-000-N330-4
2	.78	.080	.050	.012/.017	33	Nickel	Gold (C)	1159-000-N330-1
2	.81	.080	.050	.012/.017	33	Nickel	Gold (C)	1159-000-N330-13
2	.81	.080	.050	.026/.030	33	Nickel	Gold (C)*	1159-000-N331-26
3	1.17	.075	.050	.020	09	Nickel	Gold (C)*	1159-000-N091-4
4	.81	.080	.100	.005/.008	33	Nickel	Gold (C)*	1159-000-N331-9
5	.81	.080	.36	.120	33	Nickel	Gold (C)	1123-000-N330-2
6	1.17	.075	.125	.250	09	Nickel	Gold (C)	1159-000-N091-10
7	.81	.080	.590	1.10	33	Nickel	Gold (C)*	1159-000-N331-6
7	.81	.080	.330	.488	33	Nickel	Gold	1159-000-N330-11
7	.81	.080	.330	.488	33	Nickel	Gold (C)*	1159-000-N331

\*Epoxy-captivated contact.

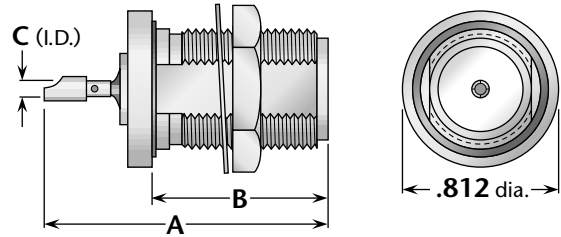
(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.

• See page 6 for alternate body plating information. • All items are available with other flange sizes and contact configurations.

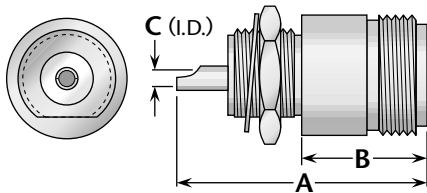
## Bulkhead Jack Receptacles


**Figure 1**

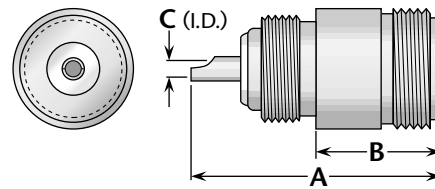
(Front mount, hermetically sealed, with mounting gasket)


**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)	1121-000-N728-5
3	1.25	.606	.099	.100	59	Nickel	Silver (C)	1120-000-N590
3	1.25	.606	.099	.100	59	Nickel	Gold (C)	1120-000-N590-4
4	1.12	.562	.099	.100	**	Nickel	Silver (C)	1120-000-N591

## Stripline Receptacles

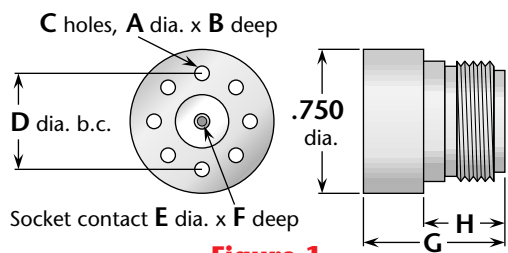
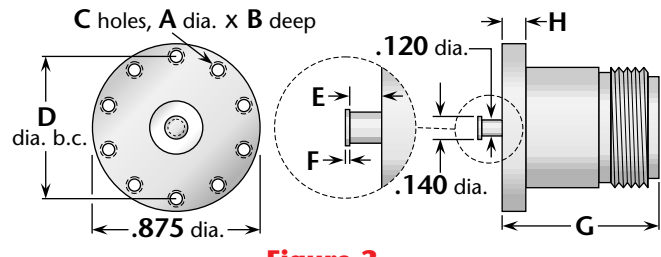

**Figure 1**

**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	1156-000-N000
1	.078	.313	7	.500	.063	.156	.734	.656	Nickel	Silver	1156-000-N000-2
1	#2-56	.250	7	.560	#2-56	.125	.734	.422	Nickel	Silver	1156-000-N000-3
2	#2-56	.125	10	.734	.125	.010	.816	.125	Nickel	Silver	1157-000-N000-3

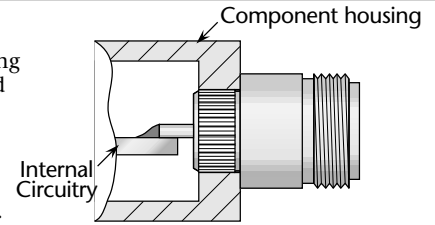
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions. • All items are available with other flange sizes and contact configurations.

## 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.

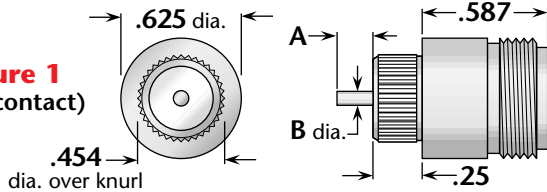
An integral shoulder provides a positive stop when mounting.

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

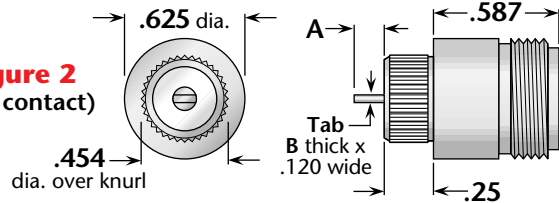


## PressMount Receptacles—Jack Type

**Figure 1**  
(Post contact)



**Figure 2**  
(Tab contact)



**Figure 3**  
(Solder pot contact)

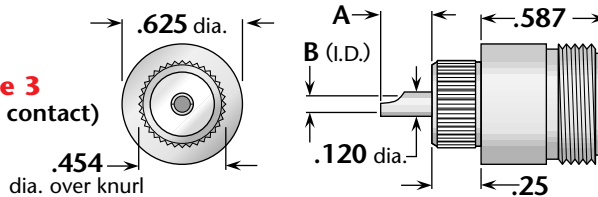
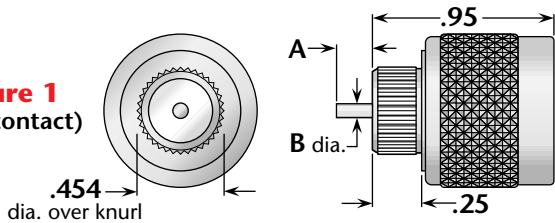


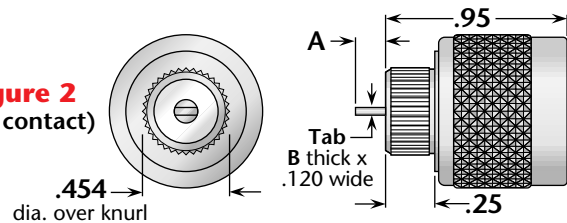
Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.110	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1120-000-N911-2
2	.100	.005/.008	.200	.450 ±.001 dia.	Nickel	Gold (C)	1120-000-N911-3
3	.285	.100	.200	.450 ±.001 dia.	Nickel	Gold (C)	1120-000-N911-4

## PressMount Receptacles—Plug Type

**Figure 1**  
(Post contact)



**Figure 2**  
(Tab contact)



**Figure 3**  
(Solder pot contact)

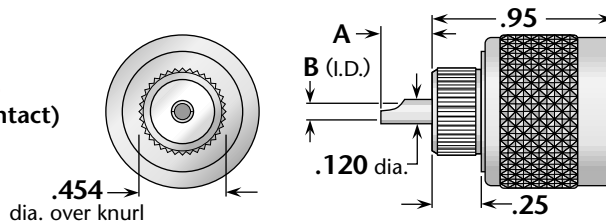
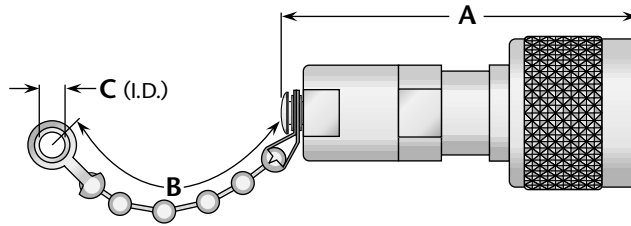


Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.110	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1124-000-N911-1
2	.100	.005/.008	.200	.450 ±.001 dia.	Nickel	Gold (C)	1124-000-N911-2
3	.250	.100	.200	.450 ±.001 dia.	Nickel	Gold (C)	1124-000-N911

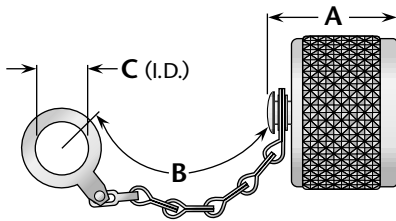
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
All items are available with other flange sizes and contact configurations.

**Resistive Termination (Plug Type)**

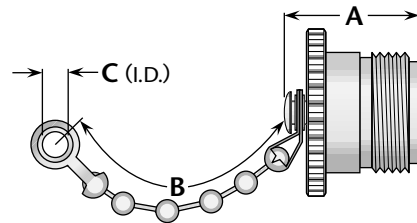


Resistor	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
50Ω ±1%, 1 Watt	1.78	—	—	No chain	Nickel	Silver (C)	1151-000-N000-3
50Ω ±1%, 1 Watt	1.87	5.00	.144		Nickel	Gold (C)	1151-000-N000-10
51Ω ±5%, 1/2 Watt	1.61	3.50	.144		Nickel	Silver (C)	1131-000-N000
51Ω ±5%, 1/2 Watt	1.67	—	—	No chain	Nickel	Silver (C)	1131-000-N00A
51Ω ±5%, 1 Watt	1.87	3.75	.144		Nickel	Silver (C)	1151-000-N000
75Ω ±1%, 1 Watt	1.87	5.00	.144		Nickel	Gold (C)	1151-000-N000-11

**Dust Caps**



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

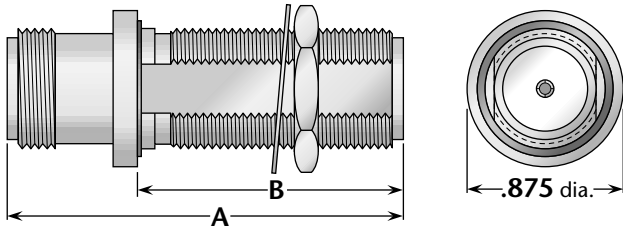


**Figure 2**  
(Shown with bead chain)

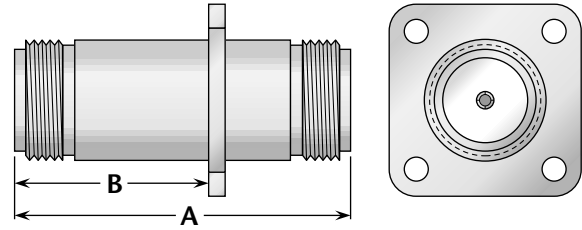
Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.56	2.25	.144	Bead chain	Nickel	—	MX-913/U
1	.56	2.50	.144	Bead chain	Silver	—	M39012/25-0011
1	.56	3.75	.635	Safety chain	Silver	—	M39012/25-0012
1	.84	2.50	.170	Bead chain / shorting type	Nickel	Silver (C)	1132-000-N00C-2
2	.72	3.50	.144	Bead chain	Nickel	—	1133-000-N000
2	.91	2.50	.170	Bead chain / shorting type	Nickel	Silver (C)	1133-000-N00C

(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 and Panel Mounted Jack-Jack Adapters (Connect two plugs)



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

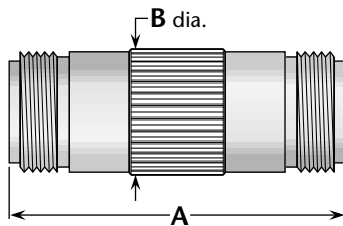


**Figure 2**  
(Panel mount)

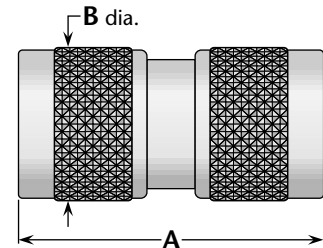
Figure	Dimensions		Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	1.54	.863	.25	72	Nickel	Silver (C)	UG-30D/U
1	1.54	.863	.25	72	Nickel	Silver (C)	UG-30E/U
1	1.54	.863	.25	72	Silver	Gold (C)	M55339/04-00030
1	2.06	1.375	.75	72	Nickel	Silver (C)	1126-000-N728
2	1.75	1.00	—	33	Nickel	Silver (C)	1125-000-N330

## 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)

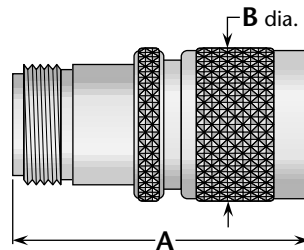
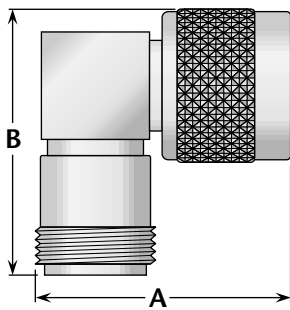


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.75	.66	Nickel	Silver (C)	UG-29B/U
1	1.75	.66	Silver	Gold (C)	M55339/07-00029
2	1.59	.78	Nickel	Silver (C)	UG-57B/U
2	1.59	.78	Silver	Gold (C)	M55339/05-00057*
3	1.56	.78	Nickel	Silver (C)	1134-000-N000

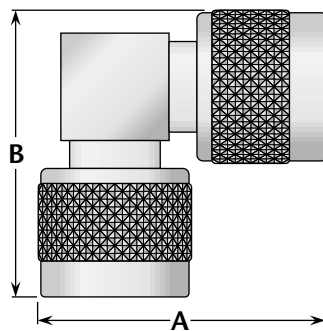
\* Lockwire holes in coupling nut.

(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.  
See page 6 for alternate body plating information.

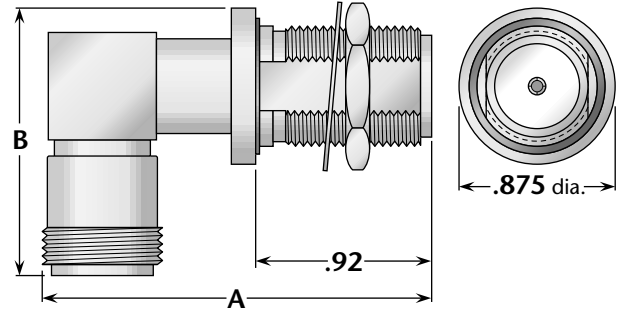
**Right Angle Adapters**



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



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

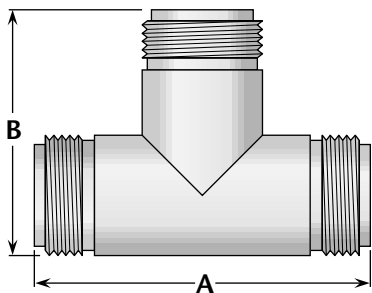


**Figure 3**  
(Bulkhead mounted right angle jack-jack;  
connects two plugs)

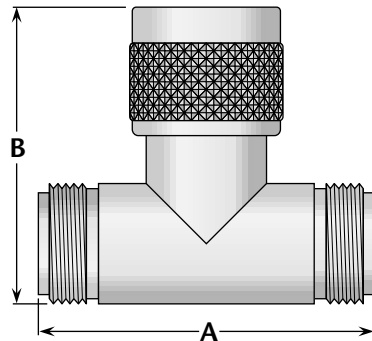
Figure	Dimensions		Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	1.30	1.38	—	—	Nickel	Silver (C)	UG-27C/U
1	1.30	1.38	—	—	Nickel	Gold (C)	UG-27D/U
1	1.30	1.38	—	—	Silver	Gold (C)	M55339/03-00027*
2	1.39	1.39	—	—	Nickel	Silver (C)	1137-000-N000
3	2.13	1.36	.25	72	Nickel	Gold (C)	UG-202A/U

\* Lockwire holes in coupling nut.

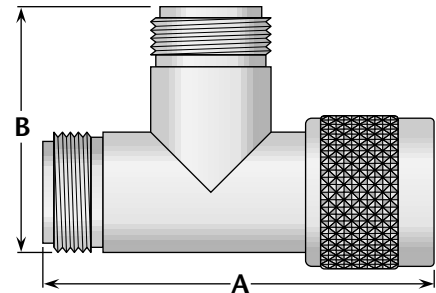
**Tee Adapters**



**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)

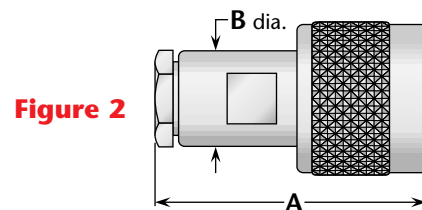
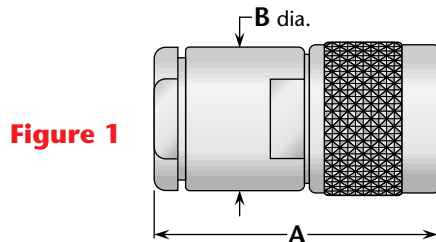
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.75	1.22	Nickel	Silver (C)	UG-28A/U
1	1.75	1.22	Silver	Gold (C)	M55339/06-00028
2	1.75	1.47	Nickel	Silver (C)	UG-107B/U
2	1.75	1.47	Silver	Gold (C)	M55339/06-00001
3	2.03	1.22	Nickel	Gold (C)	1149-000-N001-1

(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.  
See page 6 for alternate body plating information.

## N70 Configurations

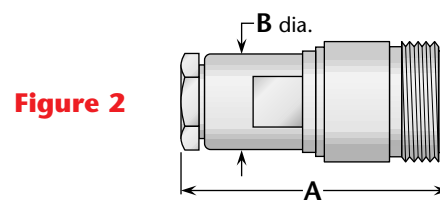
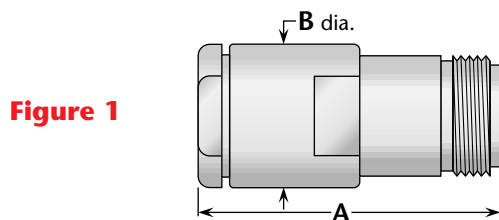
Straight Cable Plugs .....	89	Right Angle Panel Jack Receptacles .....	90
Straight Cable Jacks .....	89	Panel Plug Receptacles.....	90
Bulkhead Cable Jacks .....	89	Bulkhead Jack Receptacles .....	90
Panel Jack Receptacles (square flange) .....	90	In-Series Adapters .....	91

### Straight Plug—Military Clamp for Flexible Cable



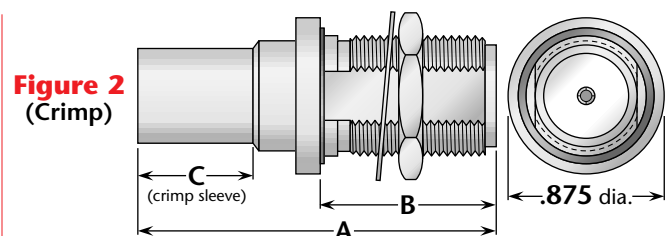
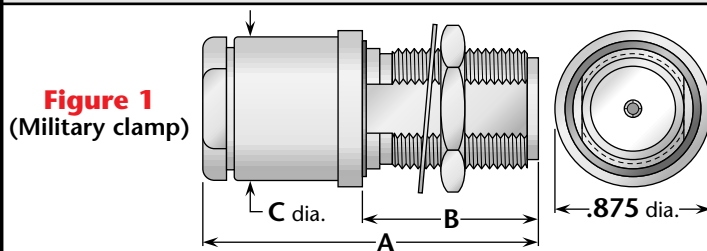
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2B, 3B	1	1.80	.69	Nickel	Silver	UG-94A/U	C/01
7	2	1.38	.50	Nickel	Silver	1801-021-N000	A/02

### 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	.69	Nickel	Gold	UG-95A/U	C/08
7	2	1.41	.50	Nickel	Silver	1808-021-N000	A/02

### Bulkhead Jacks—for Flexible Cable

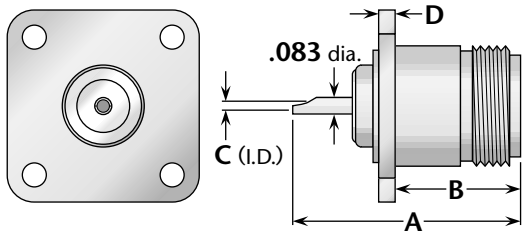


Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C			Body	Contact		
2B, 3B	1	1.84	.92	.69	72	.25	Nickel	Gold	1816-003-N720	C/08
7	1	1.47	.92	.50	72	.25	Nickel	Silver (C)	1816-021-N721	A/14
2B, 3B	2	1.84	.92	.60	72	.25	Nickel	Gold	1819-003-N720	B/03
7	2	1.59	.92	.50	72	.25	Nickel	Silver	1819-020-N720	B/14

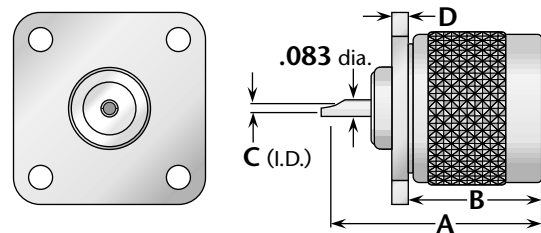
See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



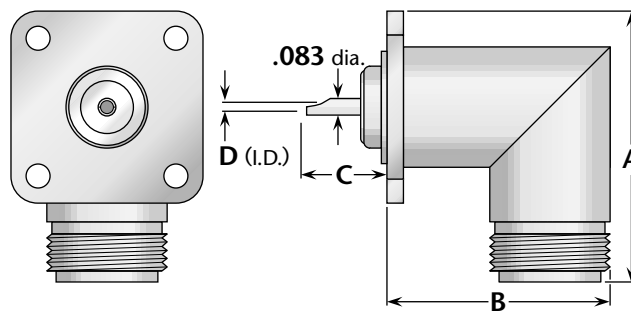
## Panel Receptacle—Solder Pot Contact



**Figure 1**  
(Straight jack receptacle)



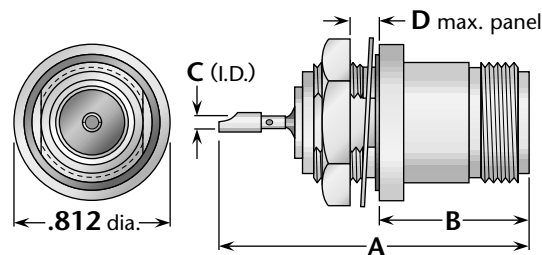
**Figure 2**  
(Straight plug receptacle)



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

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.13	.66	.062	.080	33	Nickel	Gold (C)	1813-000-N331
2	1.10	.72	.062	.080	33	Nickel	Silver (C)	1823-000-N331-1
3	1.41	1.16	.30	.050	33	Nickel	Gold (C)	1815-000-N330

## Bulkhead Receptacle—Solder Pot Contact



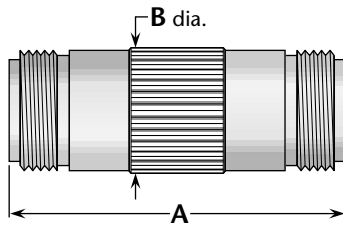
**Figure 1**  
(Front mount, hermetically sealed)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.62	.707	.099	.250	72	Nickel	Silver (C)	1820-000-N728

See page 203 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)

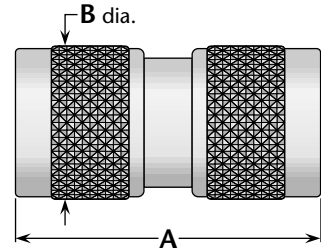
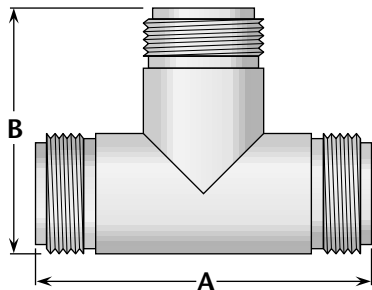
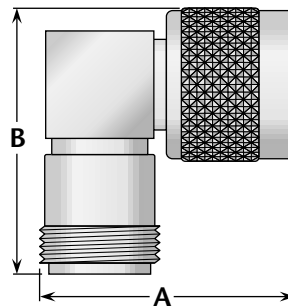


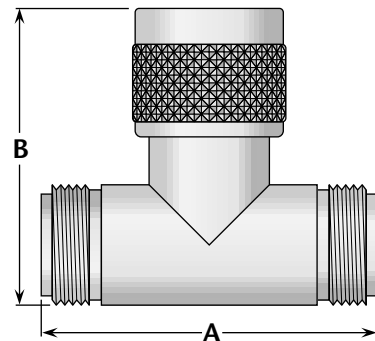
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.75	.66	Nickel	Gold (C)	1828-000-N000
2	1.59	.78	Nickel	Gold (C)	1827-000-N000

## Right Angle and 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)	1829-000-N000
2	1.75	1.22	Nickel	Gold (C)	1838-000-N000
3	1.75	1.47	Nickel	Gold (C)	1830-000-N000

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

## General Description

Delta QDS series connectors are medium-size, 50Ω impedance connectors with positive-locking, push-on coupling and good power handling capability. Because they mate with a straight push and unmate with a straight pull, QDS connectors are ideal for use in applications where the use of a torque wrench for mating is impractical.

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

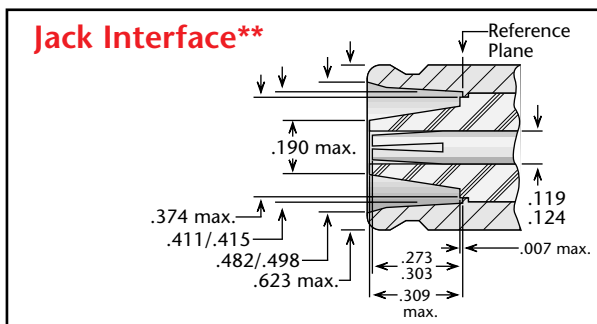
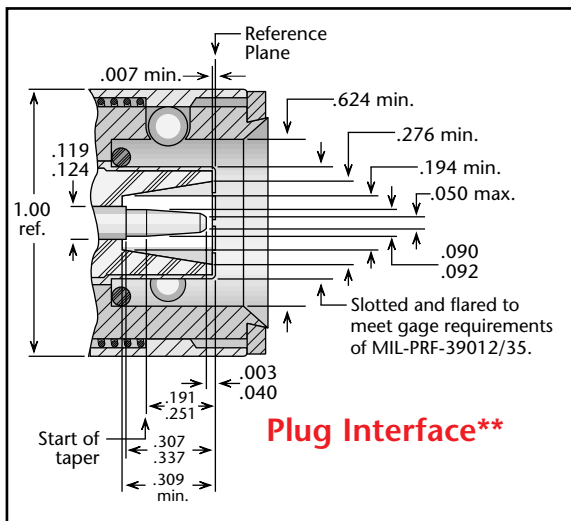
- Standard Albaloy body plating (see page 6 for details), which has the same low intermodulation distortion as silver plating, with the durability of nickel plating. Note: QDS connectors with UG designations have silver-plated bodies to conform to military specifications, but are available with Albaloy body plating.
- Color bands on plug connectors for positive visual confirmation of proper mating.
- A new series of *MiniQDS* connectors, similar in size to BNC and TNC connectors, but with the same convenient push-on, positive-locking mating as QDS connectors (see page 66).
- Cable plugs and jacks for armored cables.

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

## QDS Configurations

Straight Cable Plugs .....	93	Panel Jack Receptacles (square flange) .....	95
Right Angle Cable Plugs .....	93	Bulkhead Jack Receptacles .....	95
Bulkhead Cable Jacks .....	94	Resistive Terminations .....	96
Panel Cable Jacks .....	94	Between-Series Adapters .....	96

## QDS Specifications\*



\*\*Some proportions altered to illustrate detail.

### Electrical:

**Nominal Impedance:** 50 ohms.

**Frequency Range:** DC–11 GHz (usable);  
DC–2 GHz (recommended).

**Voltage Rating:** 1,000 volts RMS.

**Dielectric Withstanding Voltage:** 3,000 VRMS.

**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 QQ-S-365, or  
Gold per MIL-G-45204.

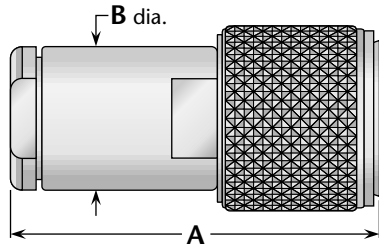
**Gaskets:** Silicone rubber per ZZ-R-765,  
Class II, Grade 50.

**Other Metal Parts:** Brass per ASTM B16, plated:  
Albaloy (contact factory  
for specifications), or  
Silver per QQ-S-365, or  
Nickel per QQ-N-290.

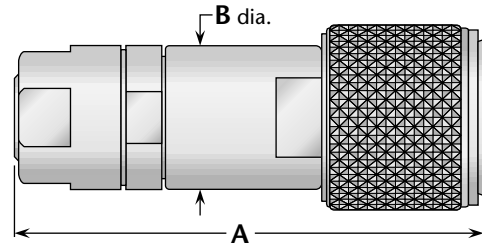
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-18867, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

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

## Straight Plug—Military Clamp for Flexible Cable



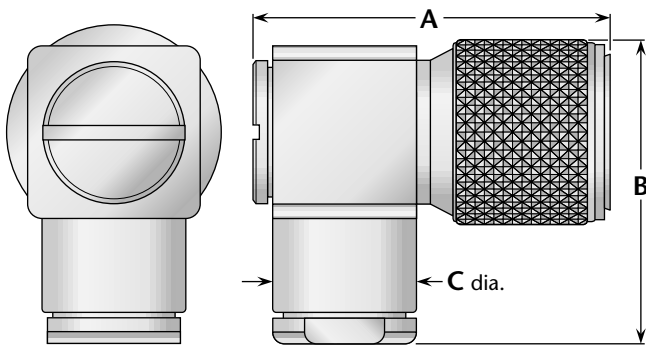
**Figure 1**



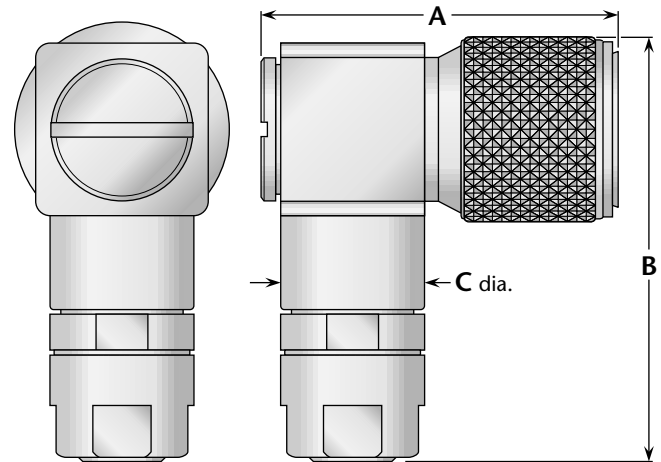
**Figure 2**  
(Includes armor clamp)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.83	.75	Albaloy	Gold	3801-004-Q000-1	A/02
5, 6	1	1.83	.75	Albaloy	Gold	3801-015-Q000-1	A/02
15	2	2.16	.812	Silver	Silver	UG-968B/U	D/04

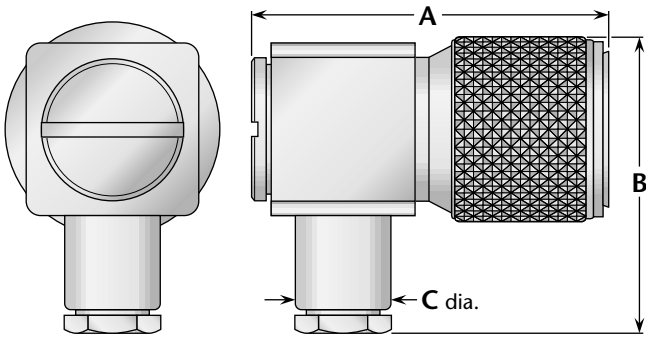
## Right Angle Plug—Military Clamp for Flexible Cable



**Figure 1**



**Figure 3**  
(Includes armor clamp)

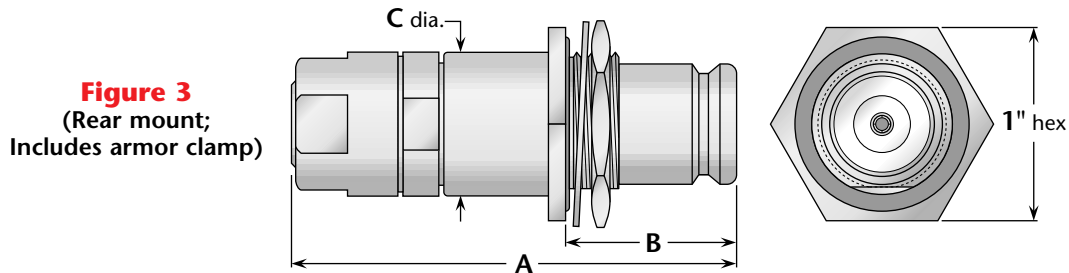
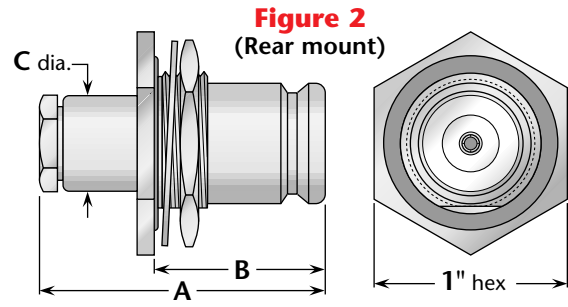
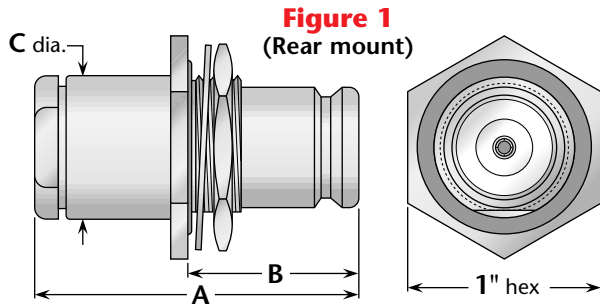


**Figure 2**

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
2, 3	1	1.93	1.85	.75	Albaloy	Gold (C)	3805-004-Q000	A/31
5, 6	2	1.93	1.63	.50	Albaloy	Gold (C)	3805-015-Q000	A/30
15	3	1.93	2.40	.812	Albaloy	Gold (C)	3805-006-Q000	***

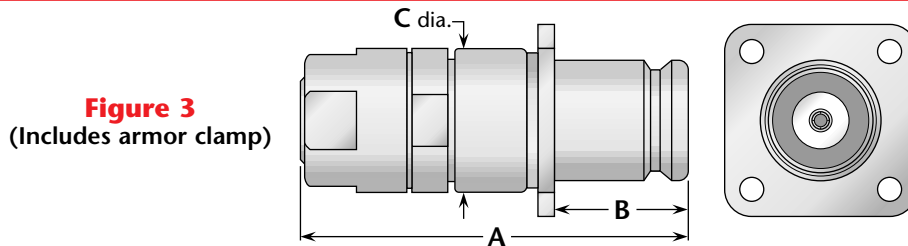
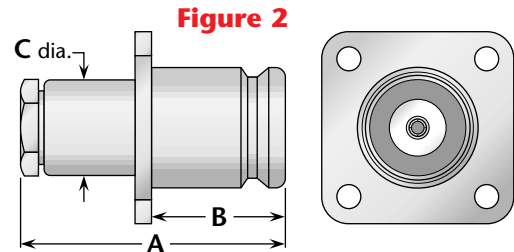
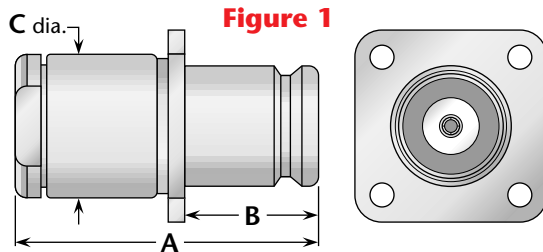
See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Bulkhead Jack—Military Clamp for Flexible Cable



Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
2, 3	1	1.66	.865	.75	51	.200	Albaloy	Gold (C)	3816-004-Q511-1	A/01
5, 6	2	1.60	.865	.50	51	.200	Albaloy	Gold (C)	3816-015-Q511-1	A/25
15	3	2.00	.865	.75	51	.200	Silver	Silver	UG-1132A/U	D/04

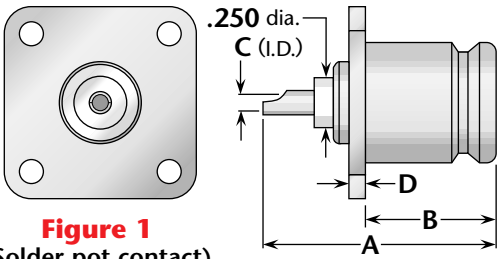
## Panel Jack—Military Clamp for Flexible Cable



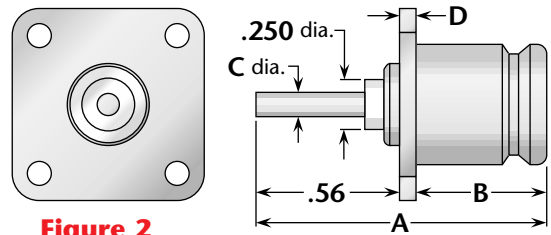
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
2, 3	1	1.66	.69	.75	33	Albaloy	Gold (C)	3811-004-Q331	A/01
5, 6	2	1.60	.69	.50	33	Albaloy	Gold (C)	3811-015-Q331	A/25
15	3	2.00	.69	.75	33	Silver	Silver	UG-972B/U	D/04

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

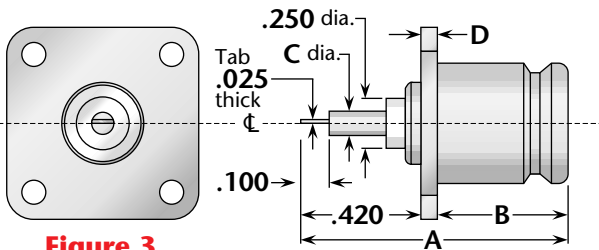
**Panel Jack Receptacle—Square Flange**



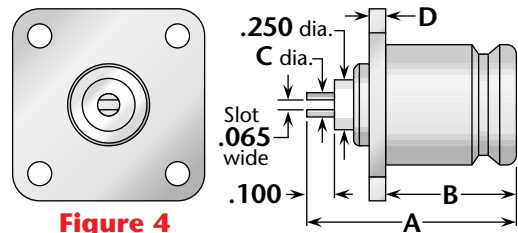
**Figure 1**  
(Solder pot contact)



**Figure 2**  
(Post contact)



**Figure 3**  
(Tab contact)



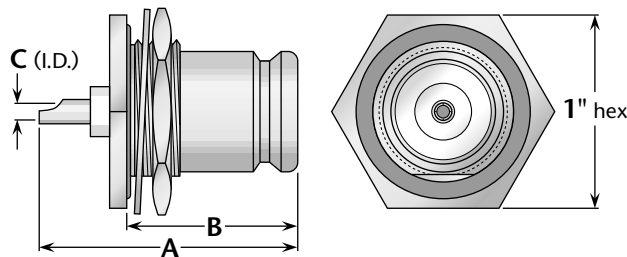
**Figure 4**  
(Slotted contact)

Also available with other contact/insulator configurations and flange sizes

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.08	.67	.106	.080	33	Albaloy	Gold (C)	3813-000-Q331
2	1.31	.67	.120	.080	33	Albaloy	Gold (C)	3858-000-Q331-1
3	1.17	.67	.120	.080	33	Albaloy	Gold (C)	3858-000-Q331-3
4	1.00	.67	.120	.080	33	Albaloy	Gold (C)	3858-000-Q331-2

**Bulkhead Jack Receptacle**

**Figure 1**  
(Rear mount, with mounting gasket)

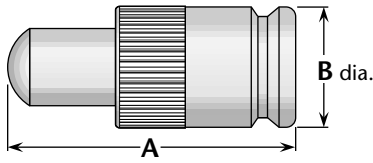


Also available with post, slotted, or tab contact

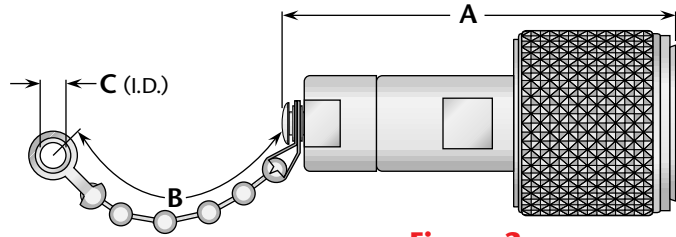
Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.08	.75	.106	.125	51	Silver	Silver (C)	UG-1111/U
1	1.08	.75	.106	.125	51	Albaloy	Gold (C)	3816-000-Q511-2

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information.

**Resistive Terminations**



**Figure 1**  
(Jack type)

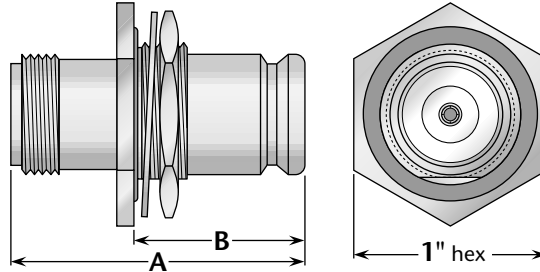


**Figure 2**  
(Plug type)

Fig.	Resistor	Dimensions			Features	Plating		Delta P/N
		A	B	C		Body	Contact	
1	50Ω ±1%, .5 Watt	1.50	.63	—	No chain	Silver	Gold (C)	3831-000-A00A
2	50Ω ±1%, 1Watt	1.75	2.50	.144	Bead chain	Silver	Gold (C)	3851-000-A000

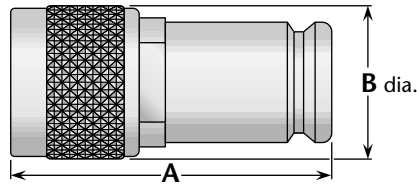
**Adapters Between Series**

**Figure 1**  
(QDS jack to N jack,  
bulkhead mounted)



Mounting figure 51; .200" max. panel

**Figure 2**  
(QDS jack to N plug)



**Figure 3**  
(QDS plug to N jack)

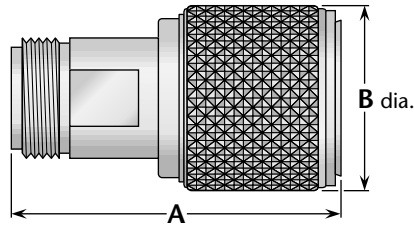


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.52	.865	Albaloy	Gold (C)	2226-000-Q511-1
2	1.38	.78	Albaloy	Gold (C)	2234-000-Q001-131
3	1.67	1.00	Silver	Silver (C)	UG-1144/U

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information.



## General Description

Delta QMA jacks are connectors with size and performance similar to SMA connectors, but with a snap-on interface for quick mating and unmating, and brass body construction for economy. Designed to mate with all QMA plugs, they offer good electrical performance up to 6 GHz.

The PressMount mounting configuration (see below) allows QMA receptacles to be mounted securely in a single through hole, with center-to-center spacing as little as .325 inch. New types are being added to our product line, so please call with your requirements for other QMA configurations.

## QMA Jack Specifications\*

### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–6 GHz.  
**Voltage Rating:** 335 volts RMS (dependent on cable).  
**Dielectric Withstanding Voltage:** 1,000 volts RMS.  
**Insulation Resistance:** 5,000 megohms.  
**VSWR:** DC–3 GHz: 1.06:1 max; 3–6 GHz: 1.12:1 max.

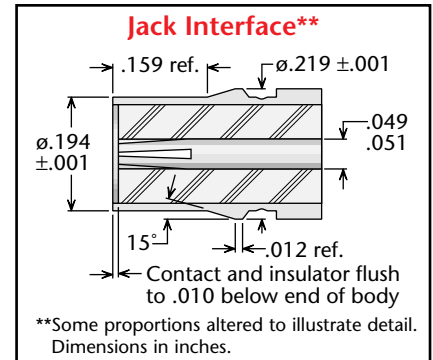
### Mechanical:

**Durability:** 100 mating cycles.  
**Force to Engage:** 26 N.  
**Force to Disengage:** 20 N.

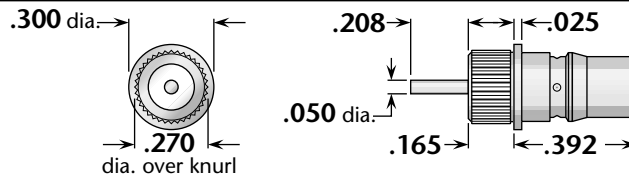
### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.  
**Female Contacts:** Beryllium Copper per ASTM B196.  
**Contact Plating:** Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, gold plated per MIL-G-45204.

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

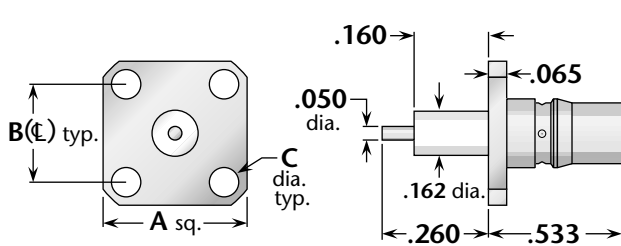


## QMA PressMount Receptacle—Post Contact

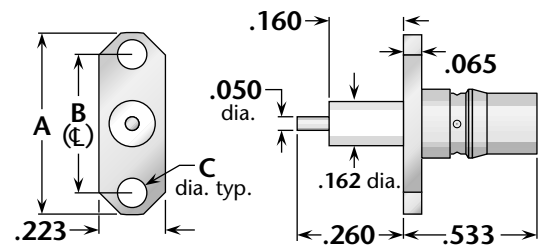


Minimum Panel Thickness	Mounting Hole Diameter	Plating		Delta P/N
		Body	Contact	
.100	.267 ±.001	Gold*	Gold (C)	4220-000-G911

## Panel Jack Receptacles



**Figure 1** (Square flange)



**Figure 2** (Two-hole flange)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.500	.340	.102	05	Gold*	Gold (C)	4258-000-G051-9
2	.625	.481	.102	92	Gold*	Gold (C)	4258-000-G921-6

\* Also available with Albaloy-plated body—change G in Delta part number to Q.  
 (C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.

## General Description

Delta SC series connectors are medium-size, 50Ω impedance connectors with 1<sup>1</sup>/<sub>16</sub>-24 threaded coupling and good power handling capability, particularly those connectors noted as high-voltage types.

The interface is similar to type C, except with a threaded coupling instead of bayonet. They are best suited for use with cables in the range of .350" to .450" diameter, but are available for other cables from .200" to over 1" diameter. Our extensive line of SC 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 SC and other series are shown starting on page 176.

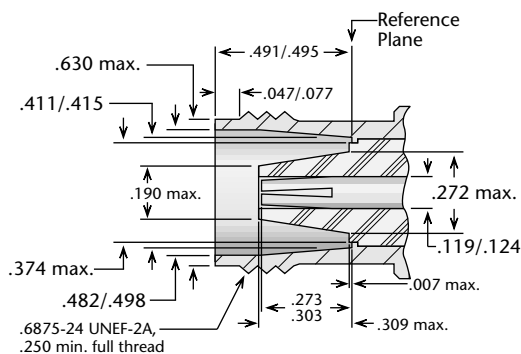
As with all other Delta connector series, we welcome your specifications for special configurations.

## SC Configurations

Straight Cable Plugs.....	99
Right Angle Cable Plugs.....	99
Panel Jack Receptacles (square flange) .....	100
Panel Plug Receptacles.....	100
Dummy Receptacles .....	100
Dust Caps .....	100
In-Series Adapters .....	101

## SC Specifications\*

### Jack Interface\*\*



### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–11 GHz (standard);  
 DC–2 GHz (high-voltage types).  
**Voltage Rating:** 1,000 volts RMS (standard);  
 4,000 volts RMS (high-voltage types).

### Dielectric Withstanding

**Voltage:** 3,000 volts RMS (standard);  
 6,000 volts RMS (high-voltage types);  
 1,500 volts RMS (when used with RG-142).  
**Insulation Resistance:** 5,000 megohms.

### Materials/Finishes:

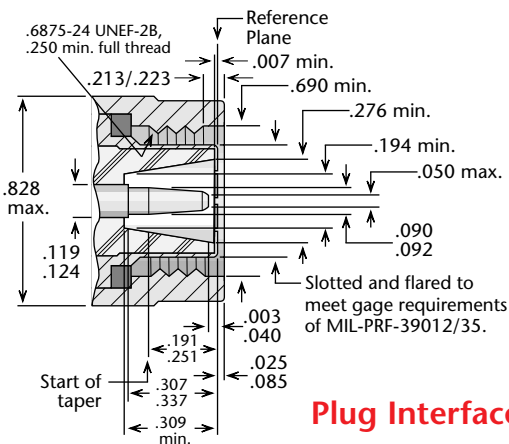
**Insulators:** Teflon per ASTM D1710.  
**Male Contacts:** Brass per ASTM B16.  
**Female Contacts:** Beryllium Copper per ASTM B196.  
**Contact Plating:** Silver per QQ-S-365, or  
 Gold per MIL-G-45204.

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

**Other Metal Parts:** Brass per ASTM B16, plated:  
 Silver per QQ-S-365, or  
 Nickel per 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.

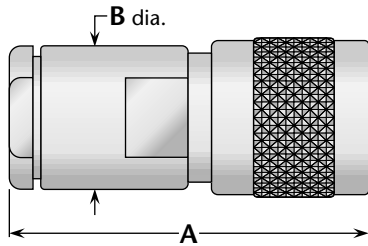
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.



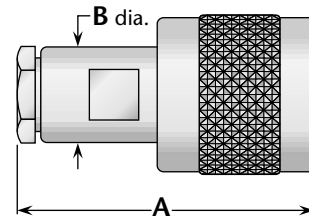
### Plug Interface\*\*

\*\*Some proportions altered to illustrate detail.

## Straight Plug—Military Clamp for Flexible Cable



**Figure 1**

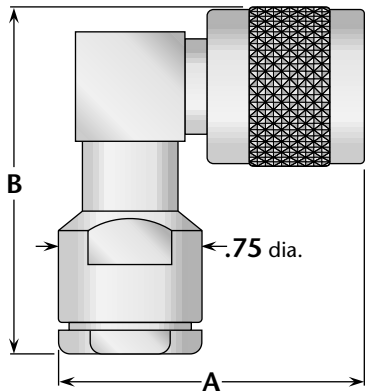


**Figure 2**

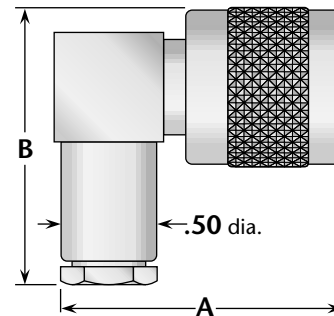
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.47	.75	Nickel	Silver	1901-004-N000-1	A/01
2, 3	1	1.78	.75	Nickel	Silver	1901-004-N000*	A/21
2, 3	1	1.78	.75	Nickel	Silver (C)	1901-004-N001*	A/28
5, 6	2	1.53	.50	Nickel	Silver	1901-015-N000	A/17
5, 6	2	1.53	.50	Nickel	Silver (C)	1901-015-N001	A/02

\* High voltage type.

## Right Angle Plug—Military Clamp for Flexible Cable



**Figure 1**



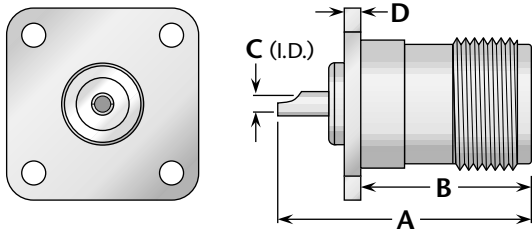
**Figure 2**

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.56	1.94	Nickel	Silver (C)	1904-004-N000*	A/21
5, 6	2	1.45	1.75	Nickel	Silver	1905-015-N001-2	A/17

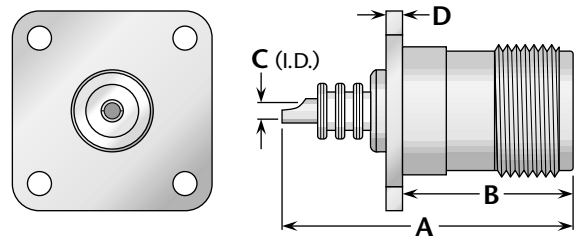
\* High voltage type.

See page 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

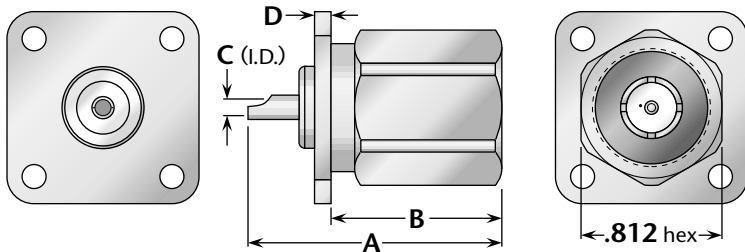
**Panel Receptacle—Solder Pot Contact**



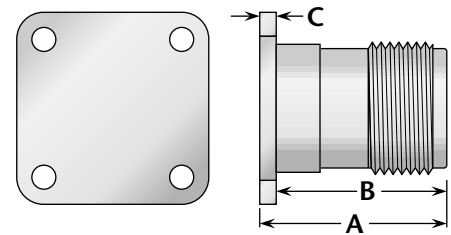
**Figure 1**  
(Panel jack receptacle)



**Figure 2**  
(Panel jack receptacle, high voltage type)



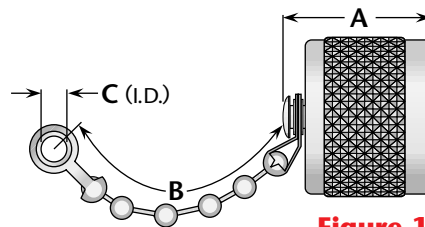
**Figure 3**  
(Panel plug receptacle)



**Figure 4**  
(Dummy receptacle)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.25	.91	.106	.080	26	Nickel	Silver (C)	1913-000-N261-1
1	1.25	.91	.102	.080	33	Nickel	Gold (C)	1913-000-N331-2
2	1.50	.91	.106	.080	26	Nickel	Silver (C)	1913-000-N261-2
3	1.16	.86	.102	.080	33	Nickel	Gold (C)	1923-000-N331
4	.90	.82	.080	—	33	Nickel	—	1963-000-N330

**Dust Cap**

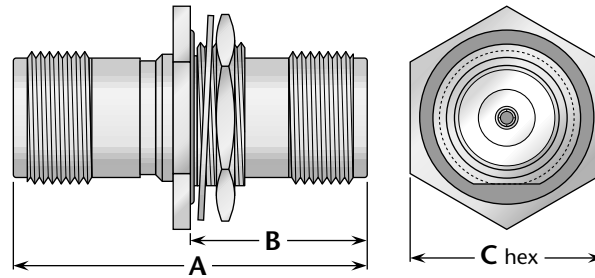


**Figure 1**

Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.92	2.50	.144	Bead chain	Nickel	—	1932-000-N000

See page 203 for mounting dimensions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

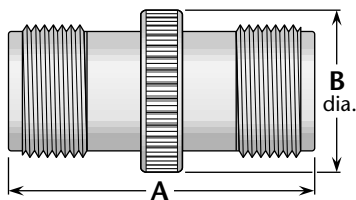
## Bulkhead Jack-Jack Adapter



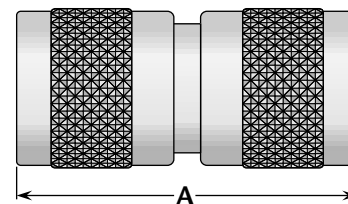
(Connects two plugs, hermetically sealed)

Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.84	1.00	1.00	.125	51	Nickel	Gold (C)	1926-000-N518

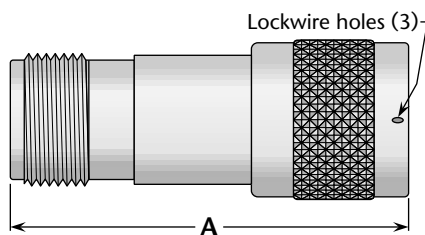
## Straight and Right Angle Adapters



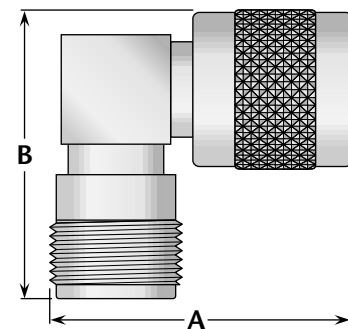
**Figure 1**  
(Straight jack-jack;  
connects two plugs)



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



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



**Figure 4**  
(Right angle jack-plug;  
connects one plug and one jack)

Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.64	.75	Nickel	Silver (C)	1928-000-N000
2	1.75	—	Nickel	Silver (C)	1927-000-N000
3	2.05	—	Nickel	Gold (C)	1934-000-N000-1
4	1.46	1.48	Nickel	Gold (C)	1935-000-N000-1

(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.  
See page 6 for alternate body plating information.

## General Description

Delta SMA connectors are subminiature, precision, 50Ω impedance connectors with 1/4"-36 threaded coupling. They are best suited for use with high-frequency semi-rigid cables in demanding applications up to 18 GHz, or miniature flexible cables up to 12.4 GHz. Our extensive line of SMA receptacles includes configurations for virtually any packaging requirement, and we can supply any adapter or accessory you may need to complete your system design. Adapters between SMA and other series are shown starting on page 176. Many of our SMA connectors are available as MIL-PRF-39012 QPL versions. These types are listed starting on page 194.

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

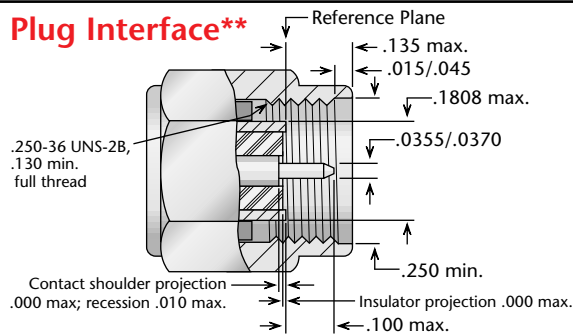
- *One-Step* cable connectors for quick, accurate assembly to semi-rigid cable.
  - *PressMount* receptacles (page 115) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
  - Panel receptacles with flange sizes to match the same hole pattern as standard BNC, TNC or N connectors, letting you drill one hole pattern and mount BNC, N, SMA, TNC, or 7/16 series connectors as needed.
  - Edge-mount P.C. board receptacles (page 114).
  - Our new *E-Line* brass SMA connectors provide a lower-cost alternative for commercial applications (page 123).
- Our SMA series product line is still growing, so please call if you don't see what you need.

## SMA Configurations

Cable Plugs for Semi-Rigid Cable .....	103	Right Angle Panel Jack Receptacles.....	112
Cable Plugs for Flexible Cable .....	104	Stripline Receptacles.....	112
Straight Cable Jacks for Semi-Rigid Cable .....	105	Bulkhead Jack Receptacles .....	113
Bulkhead Cable Jacks for Semi-Rigid Cable .....	105	P.C. Board Receptacles (Through-Hole Mount).....	113
Panel Cable Jacks for Semi-Rigid Cable.....	105	P.C. Board Receptacles (Edge Mount).....	114
Straight Cable Jacks for Flexible Cable.....	106	PressMount Receptacles .....	115
Bulkhead Cable Jacks for Flexible Cable.....	106	Panel Plug Receptacles .....	116
Straight Panel Jack Receptacles.....	107	Dust Caps.....	120
Panel Jack Receptacles for Microstrip.....	111	In-Series Adapters.....	121

## SMA Specifications\*

### Plug Interface\*\*



### Electrical:

**Nominal Impedance:** 50 ohms.

**Frequency Range:** DC–18 GHz (with semi-rigid cable);  
DC–12.4 GHz (with flexible cable).

**Voltage Rating:** 335–500 volts RMS (dependent on cable).

### Dielectric Withstanding

**Voltage:** 500–1500 volts RMS (dependent on cable).

**Insulation Resistance:** 5,000 megohms.

### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.

**Male Contacts:** Brass per ASTM B16, or  
Beryllium Copper per ASTM B196.

**Female Contacts:** Beryllium Copper per ASTM B196.

**Contact Plating:** Gold per MIL-G-45204.

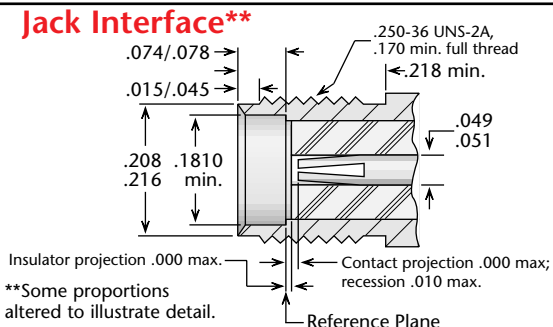
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.

**Other Metal Parts:** Stainless steel per ASTM A582, plated gold per MIL-G-45204 or passivated to meet corrosion requirements of MIL-PRF-39012; or Brass per ASTM B16: plated gold per MIL-G-45204.

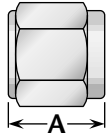
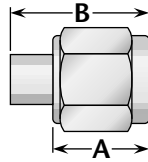
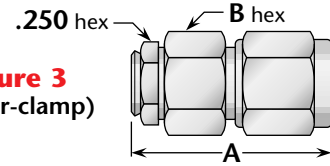
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

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

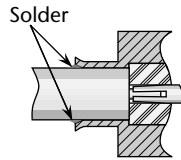
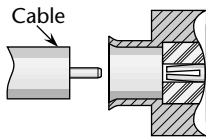
### Jack Interface\*\*



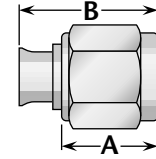
## Straight Plug—For Semi-Rigid Cable

**Figure 1**  
(Direct solder)

**Figure 2**  
(Direct solder)

**Figure 3**  
(Solder-clamp)


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



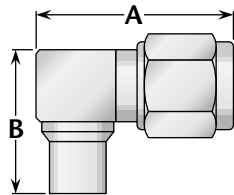
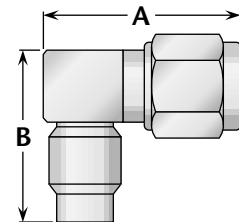
Delta “One-Step” connectors feature captivated contacts and insulators to allow rapid, easy assembly to semi-rigid cable—simply trim the cable jacket and dielectric flush, chamfer the center conductor, insert into the connector, and solder the jacket to the connector body.


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

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
13	1	.330	—	Gold	None <sup>(2)</sup>	1301-031-G003	G/01
13	1	.330	—	Gold/PCN <sup>(1)</sup>	None <sup>(2)</sup>	1301-031-K003	G/01
13	2	.330	.445	Gold	None <sup>(2)</sup>	1301-031-G003-2	G/01
13	2	.330	.445	Gold/PCN <sup>(1)</sup>	None <sup>(2)</sup>	1301-031-K003-2	G/01
13	2	.330	.445	Gold	Gold	1301-031-G003-3	H/01
13	2	.330	.445	Gold/PCN <sup>(1)</sup>	Gold	1301-031-K003-12	H/01
13	3	.68	.312	Gold	Gold (C)	1301-031-G007	***
13	4	.330	.430	Gold/PCN <sup>(1)</sup>	Gold (C)	1301-031-K003-8	I/01
14	2	.330	.445	Gold	Gold	1301-094-G003	H/01
14	2	.330	.445	Gold/PCN <sup>(1)</sup>	Gold	1301-094-K003	H/01
14	3	.68	.312	Gold	Gold (C)	1301-025-G007	***
14	4	.330	.430	Gold/PCN <sup>(1)</sup>	Gold (C)	1301-094-K003-1	I/01

<sup>(1)</sup> Gold-plated body and passivated coupling nut. <sup>(2)</sup> Cable center conductor used as contact.

## Right Angle Plug—For Semi-Rigid Cable

**Figure 1**  
(Direct solder)

**Figure 2**  
(One-Step cable attachment)


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
13	1	.68	.43	Gold	Gold (C)	1305-031-G003	J/01
13	1	.68	.43	Gold/PCN <sup>(1)</sup>	Gold (C)	1305-031-K003	J/01
13	2	.57	.58	Gold	Gold (C)	1305-031-G003-2	I/01
13	2	.57	.58	Gold/PCN <sup>(1)</sup>	Gold (C)	1305-031-K003-4	I/01
14	1	.68	.43	Gold	Gold (C)	1305-025-G003	J/01
14	1	.68	.43	Gold/PCN <sup>(1)</sup>	Gold (C)	1305-025-K003	J/01
14	2	.57	.58	Gold	Gold (C)	1305-094-G003-3	I/01
14	2	.57	.58	Gold/PCN <sup>(1)</sup>	Gold (C)	1305-094-K003-5	I/01

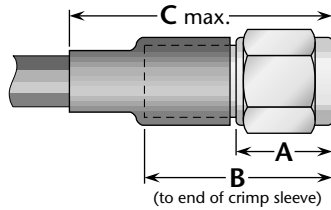
<sup>(1)</sup> Gold-plated body and passivated coupling nut.

See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
(C) in contact plating column indicates captive contact.

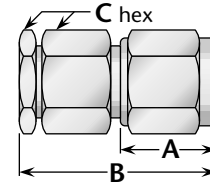


## Straight Plug—For Flexible Cable

**Figure 1**  
(Crimp type, shown with supplied heat-shrink tubing)



**Figure 2**  
(Clamp type)

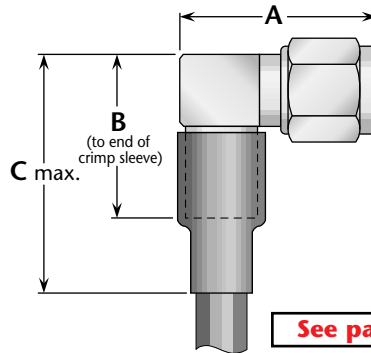


See page 194 for MIL-PRF-39012 QPL version.

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5	1	.330	.70	1.187	Gold	Gold	1303-017-G000	K/02
5	1	.330	.70	1.187	Passivated	Gold	1303-017-K000	K/02
6	1	.330	.70	1.187	Gold	Gold	1303-013-G000	K/02
6	1	.330	.70	1.187	Passivated	Gold	1303-013-K000-2	K/02
9	1	.330	.70	1.187	Gold	Gold	1303-036-G000	K/02
9	1	.330	.70	1.187	Passivated	Gold	1303-036-K000	K/02
10	1	.330	.70	1.187	Gold	Gold	1303-100-G000-2	K/02
10	1	.330	.70	1.187	Passivated	Gold	1303-100-K000-2	K/02
5, 6	2	.330	.75	.312	Gold	Gold (C)	1301-015-G005	***
5, 6	2	.330	.75	.312	Passivated	Gold (C)	1301-015-K005	***
9	2	.330	.75	.312	Gold	Gold (C)	1301-037-G005	***
9	2	.330	.75	.312	Passivated	Gold (C)	1301-037-K005	***

## Right Angle Plug—For Flexible Cable

**Figure 1**  
(Crimp type, shown with supplied heat-shrink tubing)

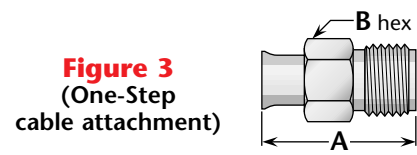
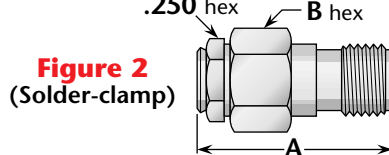
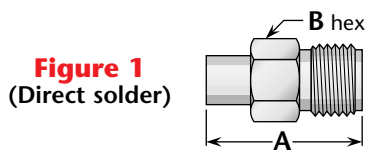


See page 195 for MIL-PRF-39012 QPL version.

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5	1	.68	.60	1.06	Gold	Gold (C)	1307-017-G001	L/03
5	1	.68	.60	1.06	Passivated	Gold (C)	1307-017-K001	L/03
6	1	.68	.60	1.06	Gold	Gold (C)	1307-013-G001	L/03
6	1	.68	.60	1.06	Passivated	Gold (C)	1307-013-K001	L/03
9	1	.68	.60	1.06	Gold	Gold (C)	1307-036-G001	L/03
9	1	.68	.60	1.06	Passivated	Gold (C)	1307-036-K001	L/03
10	1	.68	.60	1.06	Gold	Gold (C)	1307-100-G001	L/03
10	1	.68	.60	1.06	Passivated	Gold (C)	1307-100-K001	L/03
11	1	.68	.60	1.06	Gold	Gold (C)	1307-038-G001	L/03
11	1	.68	.60	1.06	Passivated	Gold (C)	1307-038-K001	L/03

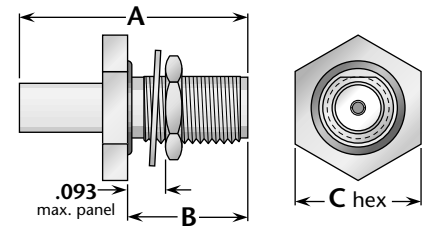
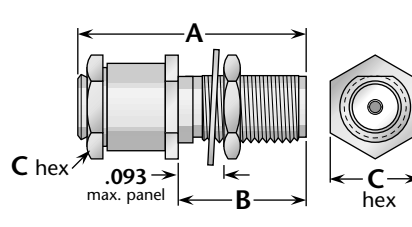
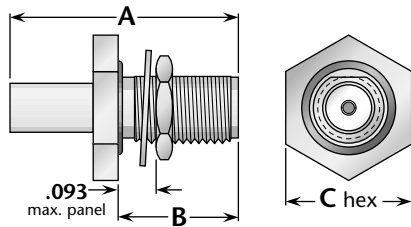
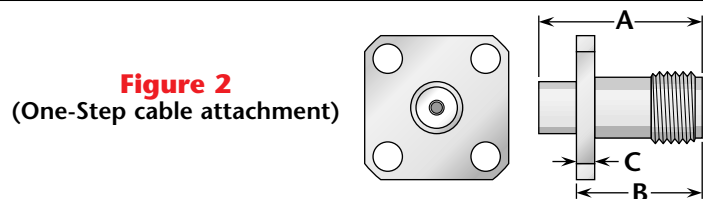
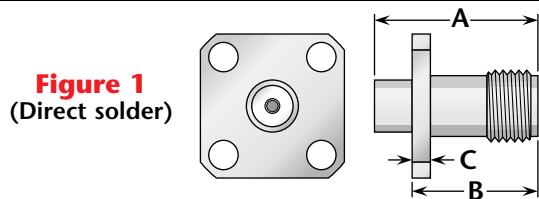
See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
(C) in contact plating column indicates captive contact.

## Straight Jack—For Semi-Rigid Cable



Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact			
13	1	.500	.250	Gold	Gold	1308-031-G003-2	H/01	
13	2	.68	.312	Gold	Gold (C)	1308-031-G007	***	
13	3	.500	.250	Gold	Gold (C)	1308-031-G003-4	I/01	
14	1	.500	.250	Gold	Gold	1308-094-G003	H/01	
14	2	.68	.312	Gold	Gold (C)	1308-025-G007	***	
14	3	.500	.250	Gold	Gold (C)	1308-094-G003-1	I/01	

## Panel and Bulkhead Jacks—For Semi-Rigid Cable

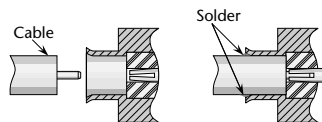


**Figure 3**  
(Direct solder,  
with mounting gasket)

**Figure 4**  
(Solder-clamp,  
no mounting gasket)

**Figure 5**  
(One-Step cable attachment,  
with mounting gasket)

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

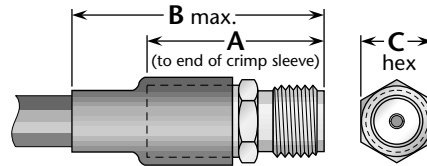


Delta "One-Step" connectors feature captivated contacts and insulators to allow rapid, easy assembly to semi-rigid cable—simply trim the cable jacket and dielectric flush, chamfer the center conductor, insert into the connector, and solder the jacket to the connector body.

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
13	1	.560	.375	.065	05	Gold	Gold	1311-031-G053	H/01
13	2	.500	.375	.065	05	Gold	Gold (C)	1311-031-G053-3	I/01
13	3	.75	.415	.437	67	Gold	Gold	1317-031-G673	H/02
13	4	.75	.440	.312	67	Gold	Gold (C)	1317-031-G677	***
13	5	.70	.415	.437	67	Gold	Gold (C)	1317-031-G673-3	I/01
14	1	.500	.375	.065	05	Gold	Gold	1311-025-G053	H/01
14	2	.500	.375	.065	05	Gold	Gold (C)	1311-025-G053-1	I/01
14	3	.75	.415	.437	67	Gold	Gold	1317-025-G673	H/02
14	4	.75	.440	.312	67	Gold	Gold (C)	1317-025-G677	***
14	5	.75	.415	.437	67	Gold	Gold (C)	1317-025-G673-1	I/01

See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.

## Straight Jack—For Flexible Cable

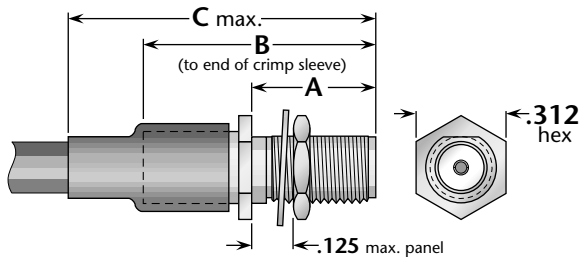


**Figure 1**  
(Crimp type, shown with supplied heat-shrink tubing)

See page 195 for MIL-PRF-39012 QPL version.

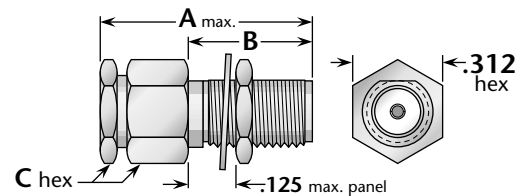
Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5	1	.80	1.125	.25	Gold	Gold	1308-017-G000	K/03
5	1	.80	1.125	.25	Passivated	Gold	1308-017-K000	K/03
6	1	.80	1.125	.25	Gold	Gold	1308-013-G000	K/03
6	1	.80	1.125	.25	Passivated	Gold	1308-013-K000	K/03
9	1	.80	1.125	.25	Gold	Gold	1308-037-G000	K/03
9	1	.80	1.125	.25	Passivated	Gold	1308-037-K000	K/03

## Bulkhead Jack—For Flexible Cable



**Figure 1**  
(Crimp type, shown with supplied heat-shrink tubing)

See page 196 for MIL-PRF-39012 QPL version.

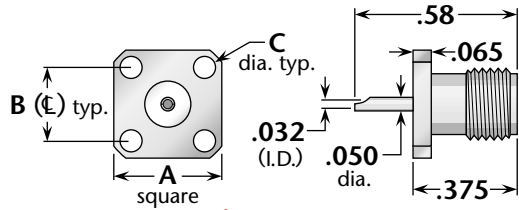


**Figure 2**  
(Clamp type)

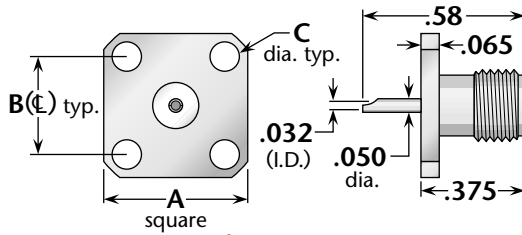
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
5	1	.450	.94	1.25	67	Gold	Gold	1319-017-G670	K/04
5	1	.450	.94	1.25	67	Passivated	Gold	1319-017-K670	K/04
6	1	.450	.94	1.25	67	Gold	Gold	1319-013-G670	K/04
6	1	.450	.94	1.25	67	Passivated	Gold	1319-013-K670	K/04
9	1	.450	.94	1.25	67	Gold	Gold	1319-037-G670	K/04
9	1	.450	.94	1.25	67	Passivated	Gold	1319-037-K670	K/04
10	1	.450	.94	1.25	67	Gold	Gold	1319-100-G670	K/04
10	1	.450	.94	1.25	67	Passivated	Gold	1319-100-K670	K/04
5, 6	2	.850	.450	.312	67	Gold	Gold (C)	1316-015-G675	***
5, 6	2	.850	.450	.312	67	Passivated	Gold (C)	1316-015-K675	***
9	2	.850	.450	.312	67	Gold	Gold (C)	1316-037-G675	***
9	2	.850	.450	.312	67	Passivated	Gold (C)	1316-037-K675	***

See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.

**Panel Jack Receptacle—Solder Pot Contact**

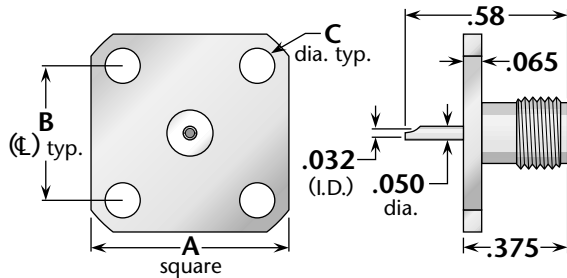


**Figure 1**  
(3/8" square flange)

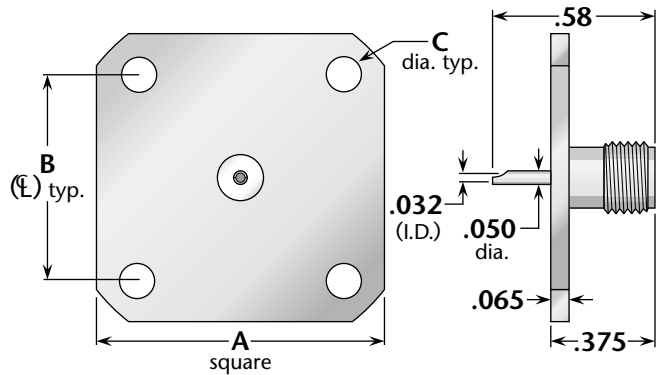


**Figure 2**  
(1/2" square flange, SMA standard flange size)

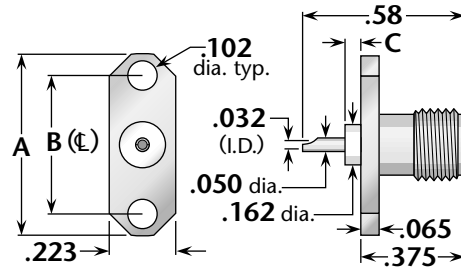
**See page 197 for MIL-PRF-39012 QPL version.**



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



**Figure 4**  
(1" square flange, interchangeable with type N standard flange size)



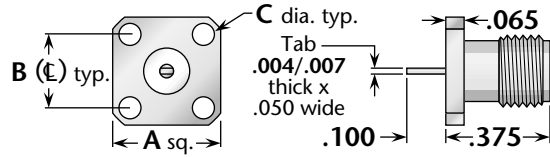
**Figure 5**  
(2-hole flange)

**See page 197 for MIL-PRF-39012 QPL version.**

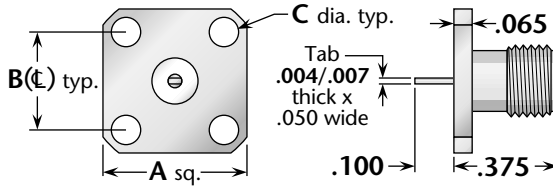
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold (C)	1313-000-G911
1	.375	.250	.067	91	Passivated	Gold (C)	1313-000-K911
2	.500	.340	.102	05	Gold	Gold (C)	1313-000-G051
2	.500	.340	.102	05	Passivated	Gold (C)	1313-000-K051-2
3	.687	.500	.125	09	Gold	Gold (C)	1313-000-G091
3	.687	.500	.125	09	Passivated	Gold (C)	1313-000-K091
4	1.00	.718	.125	33	Gold	Gold (C)	1313-000-G331
4	1.00	.718	.125	33	Passivated	Gold (C)	1313-000-K331
5	.625	.481	.025	92	Gold	Gold (C)	1313-000-G921
5	.625	.481	.025	92	Passivated	Gold (C)	1313-000-K921
5	.625	.481	.000	92	Gold	Gold (C)	1313-000-G921-2
5	.625	.481	.000	92	Passivated	Gold (C)	1313-000-K921-2

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (epoxy captivated).  
All items available with other flange, contact, and insulator configurations.

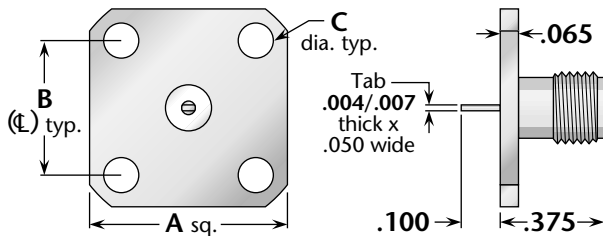
## Panel Jack Receptacle—Tab Contact



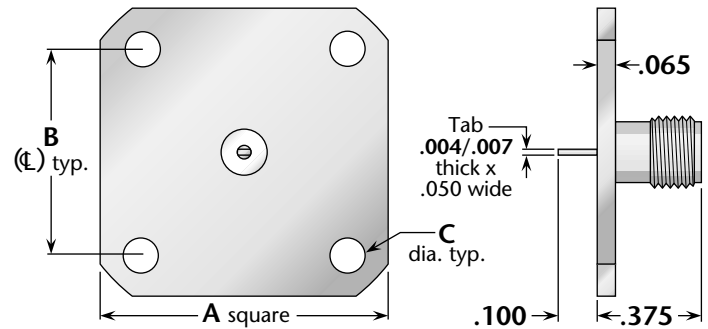
**Figure 1**  
(3/8" square flange)



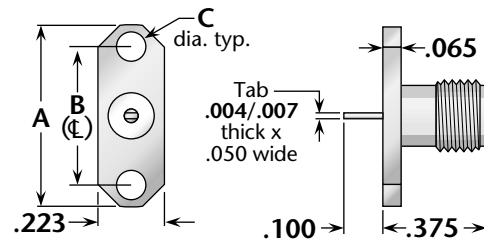
**Figure 2**  
(1/2" square flange, SMA standard flange size)



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



**Figure 4**  
(1" square flange, interchangeable with type N standard flange size)

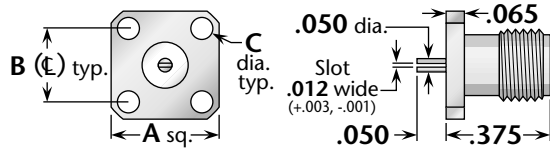


**Figure 5**  
(2-hole flange)

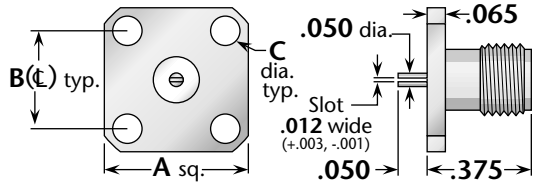
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1358-000-G910-2
1	.375	.250	.067	91	Passivated	Gold	1358-000-K910-2
1	.375	.250	.067	91	Gold	Gold (C)	1358-000-G911-59
1	.375	.250	.067	91	Passivated	Gold (C)	1358-000-K911-59
2	.500	.340	.102	05	Gold	Gold	1358-000-G050-5
2	.500	.340	.102	05	Passivated	Gold	1358-000-K050-5
2	.500	.340	.102	05	Gold	Gold (C)	1358-000-G051-3
2	.500	.340	.102	05	Passivated	Gold (C)	1358-000-K051-3
3	.687	.500	.125	09	Gold	Gold	1358-000-G090-1
3	.687	.500	.125	09	Passivated	Gold	1358-000-K090-1
3	.687	.500	.125	09	Gold	Gold (C)	1358-000-G091-8
3	.687	.500	.125	09	Passivated	Gold (C)	1358-000-K091-8
4	1.00	.718	.125	33	Gold	Gold	1358-000-G330-1
4	1.00	.718	.125	33	Passivated	Gold	1358-000-K330-1
4	1.00	.718	.125	33	Gold	Gold (C)	1358-000-G331-2
4	1.00	.718	.125	33	Passivated	Gold (C)	1358-000-K331-2
5	.625	.481	.102	92	Gold	Gold	1358-000-G920-3
5	.625	.481	.102	92	Passivated	Gold	1358-000-K920-3
5	.625	.481	.102	92	Gold	Gold (C)	1358-000-G921-63
5	.625	.481	.102	92	Passivated	Gold (C)	1358-000-K921-63

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (epoxy captivated).  
All items available with other flange, contact, and insulator configurations.

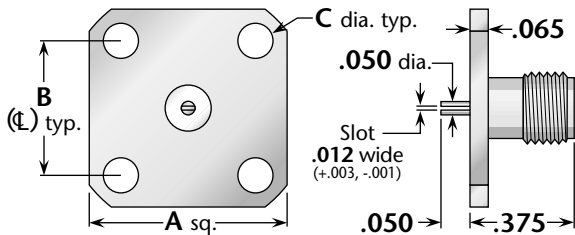
## Panel Jack Receptacle—Slotted Contact



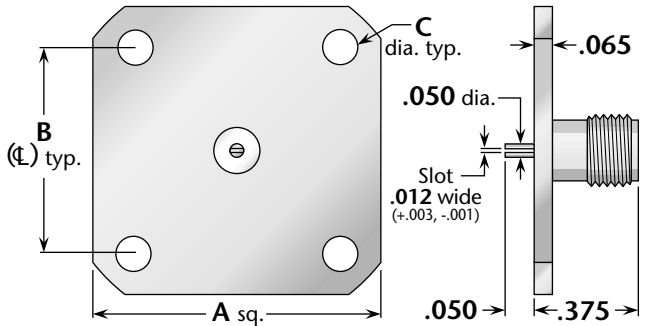
**Figure 1**  
(3/8" square flange)



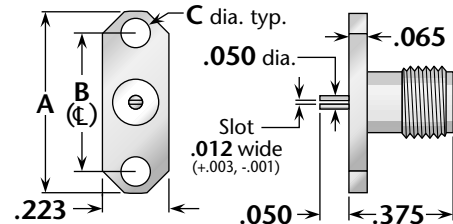
**Figure 2**  
(1/2" square flange, SMA standard flange size)



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



**Figure 4**  
(1" square flange, interchangeable with type N standard flange size)



**Figure 5**  
(2-hole flange)

### Other Standard Slot Widths

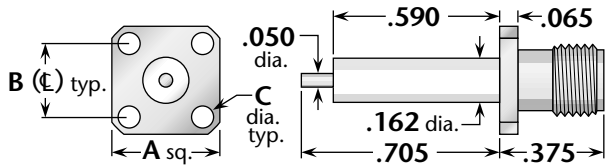
Our other standard slot widths for these connectors (.018" and .036") are readily available—call for part numbers.

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1343-000-G910-3
1	.375	.250	.067	91	Passivated	Gold	1343-000-K910-3
1	.375	.250	.067	91	Gold	Gold (C)	1343-000-G911-6
1	.375	.250	.067	91	Passivated	Gold (C)	1343-000-K911-6
2	.500	.340	.102	05	Gold	Gold	1343-000-G050-6
2	.500	.340	.102	05	Passivated	Gold	1343-000-K050-6
2	.500	.340	.102	05	Gold	Gold (C)	1343-000-G051-21
2	.500	.340	.102	05	Passivated	Gold (C)	1343-000-K051-21
3	.687	.500	.125	09	Gold	Gold	1343-000-G090-1
3	.687	.500	.125	09	Passivated	Gold	1343-000-K090-1
3	.687	.500	.125	09	Gold	Gold (C)	1343-000-G091-6
3	.687	.500	.125	09	Passivated	Gold (C)	1343-000-K091-6
4	1.00	.718	.125	33	Gold	Gold	1343-000-G330-6
4	1.00	.718	.125	33	Passivated	Gold	1343-000-K330-6
4	1.00	.718	.125	33	Gold	Gold (C)	1343-000-G331-11
4	1.00	.718	.125	33	Passivated	Gold (C)	1343-000-K331-11
5	.625	.481	.102	92	Gold	Gold	1343-000-G920-4
5	.625	.481	.102	92	Passivated	Gold	1343-000-K920-4
5	.625	.481	.102	92	Gold	Gold (C)	1343-000-G921-6
5	.625	.481	.102	92	Passivated	Gold (C)	1343-000-K921-6

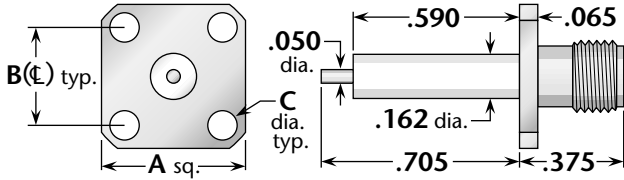
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (epoxy captivated).  
All items available with other flange, contact, and insulator configurations.



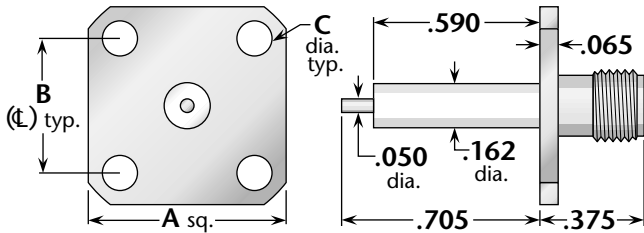
## Panel Jack Receptacle—Post Contact



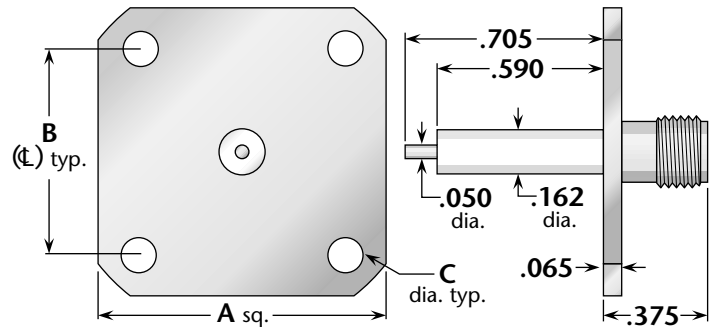
**Figure 1**  
(3/8" square flange)



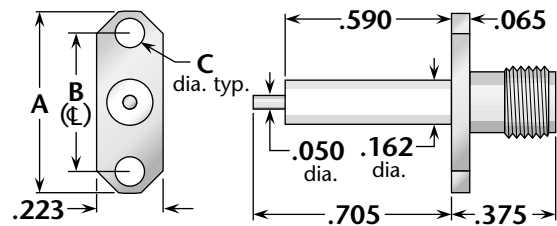
**Figure 2**  
(1/2" square flange, SMA standard flange size)



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



**Figure 4**  
(1" square flange, interchangeable with type N standard flange size)



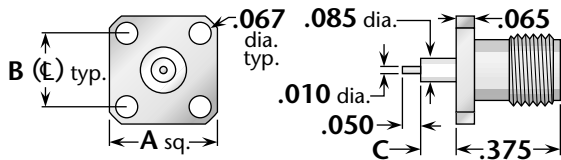
**Figure 5**  
(2-hole flange)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1358-000-G910-3
1	.375	.250	.067	91	Passivated	Gold	1358-000-K910-3
1	.375	.250	.067	91	Gold	Gold (C)	1358-000-G911-61
1	.375	.250	.067	91	Passivated	Gold (C)	1358-000-K911-61
2	.500	.340	.102	05	Gold	Gold	1358-000-G050
2	.500	.340	.102	05	Passivated	Gold	1358-000-K050-4
2	.500	.340	.102	05	Gold	Gold (C)	1358-000-G051
2	.500	.340	.102	05	Passivated	Gold (C)	1358-000-K051
3	.687	.500	.125	09	Gold	Gold	1358-000-G090
3	.687	.500	.125	09	Passivated	Gold	1358-000-K090
3	.687	.500	.125	09	Gold	Gold (C)	1358-000-G091-14
3	.687	.500	.125	09	Passivated	Gold (C)	1358-000-K091-14
4	1.00	.718	.125	33	Gold	Gold	1358-000-G330
4	1.00	.718	.125	33	Passivated	Gold	1358-000-K330
4	1.00	.718	.125	33	Gold	Gold (C)	1358-000-G331-3
4	1.00	.718	.125	33	Passivated	Gold (C)	1358-000-K331-3
5	.625	.481	.102	92	Gold	Gold	1358-000-G920
5	.625	.481	.102	92	Passivated	Gold	1358-000-K920
5	.625	.481	.102	92	Gold	Gold (C)	1358-000-G921-10
5	.625	.481	.102	92	Passivated	Gold (C)	1358-000-K921-10

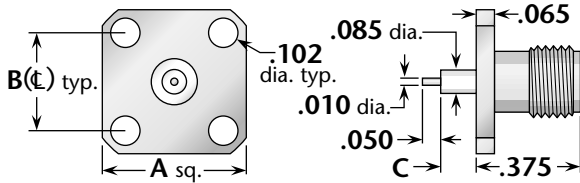
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (epoxy captivated).  
All items available with other flange, contact, and insulator configurations.



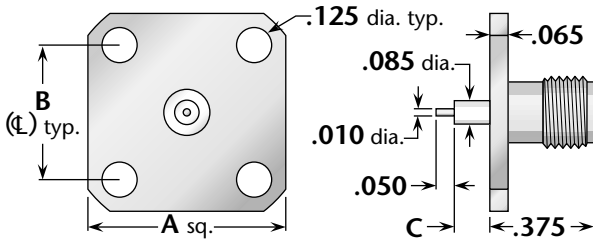
## Panel Jack Receptacle—Post Contact (For Microstrip)



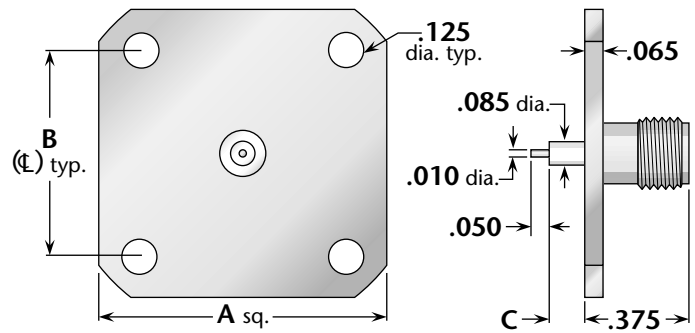
**Figure 1**  
(3/8" square flange)



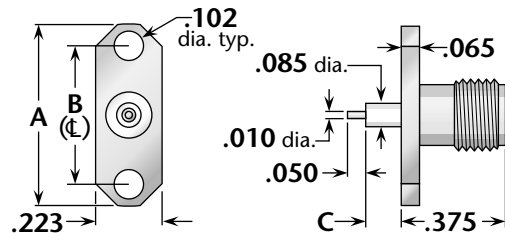
**Figure 2**  
(1/2" square flange, SMA standard flange size)



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



**Figure 4**  
(1" square flange, interchangeable with type N standard flange size)

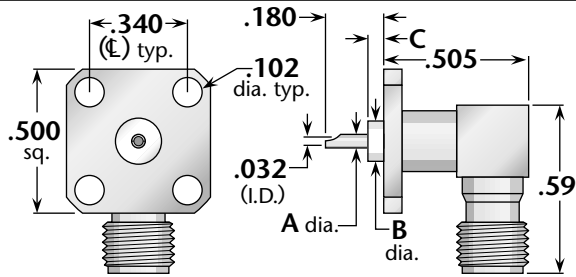


**Figure 5**  
(2-hole flange)

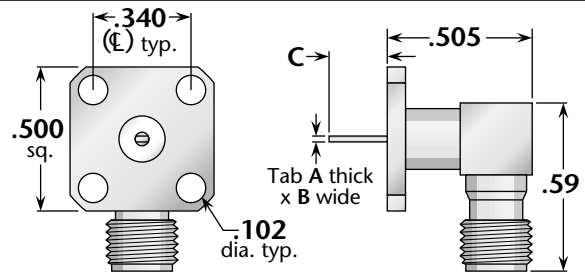
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.057	91	Gold	Gold (C)	1358-000-G911-14
1	.375	.250	.057	91	Passivated	Gold (C)	1358-000-K911-14
1	.375	.250	.125	91	Gold	Gold (C)	1358-000-G911-85
1	.375	.250	.125	91	Passivated	Gold (C)	1358-000-K911-85
2	.500	.340	.057	05	Gold	Gold (C)	1358-000-G051-19
2	.500	.340	.057	05	Passivated	Gold (C)	1358-000-K051-19
2	.500	.340	.125	05	Gold	Gold (C)	1358-000-G051-128
2	.500	.340	.125	05	Passivated	Gold (C)	1358-000-K051-128
3	.687	.500	.057	09	Gold	Gold (C)	1358-000-G091-15
3	.687	.500	.057	09	Passivated	Gold (C)	1358-000-K091-15
3	.687	.500	.125	09	Gold	Gold (C)	1358-000-G091-16
3	.687	.500	.125	09	Passivated	Gold (C)	1358-000-K091-16
4	1.00	.718	.057	33	Gold	Gold (C)	1358-000-G331-4
4	1.00	.718	.057	33	Passivated	Gold (C)	1358-000-K331-4
4	1.00	.718	.125	33	Gold	Gold (C)	1358-000-G331-5
4	1.00	.718	.125	33	Passivated	Gold (C)	1358-000-K331-5
5	.625	.481	.057	92	Gold	Gold (C)	1358-000-G051-35
5	.625	.481	.057	92	Passivated	Gold (C)	1358-000-K051-35
5	.625	.481	.125	92	Gold	Gold (C)	1358-000-G051-34
5	.625	.481	.125	92	Passivated	Gold (C)	1358-000-K051-34

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (epoxy captivated).  
All items available with other flange, contact, and insulator configurations.

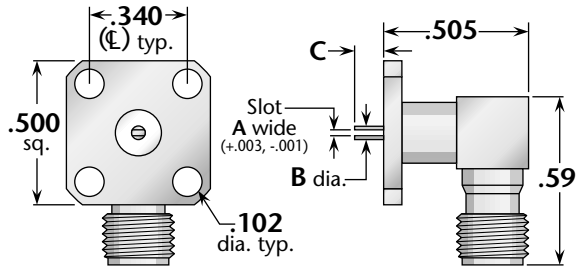
**Right Angle Panel Jack Receptacle**



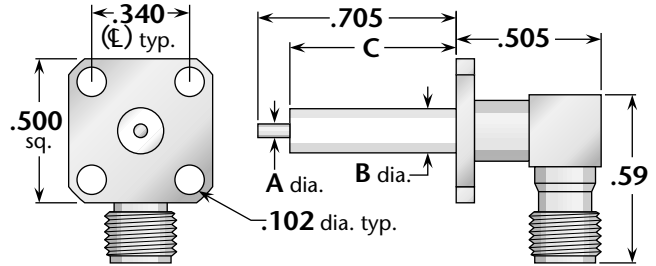
**Figure 1** (Solder pot contact)



**Figure 2** (Tab contact)



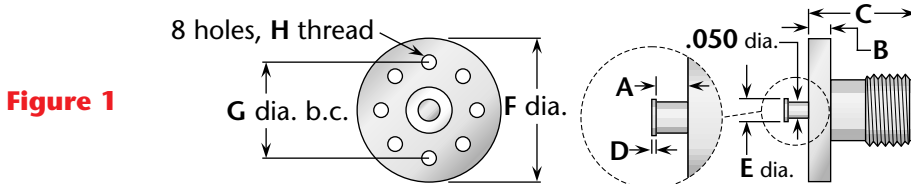
**Figure 3** (Slotted contact)



**Figure 4** (Post contact)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.050	.162	.062	05	Gold	Gold (C)	1315-000-G050
1	.050	.162	.062	05	Passivated	Gold (C)	1315-000-K050
2	.004/.007	.050	.100	05	Gold	Gold (C)	1364-000-G051-15
2	.004/.007	.050	.100	05	Passivated	Gold (C)	1364-000-K051-15
3	.012	.050	.102	05	Gold	Gold (C)	1366-000-G051-17
3	.012	.050	.050	05	Passivated	Gold (C)	1366-000-K051-17
3	.018	.050	.050	05	Gold	Gold (C)	1366-000-G051-18
3	.018	.050	.050	05	Passivated	Gold (C)	1366-000-K051-18
3	.036	.050	.050	05	Gold	Gold (C)	1366-000-G051-19
3	.036	.050	.050	05	Passivated	Gold (C)	1366-000-K051-19
4	.050	.162	.590	05	Gold	Gold (C)	1364-000-G051-16
4	.050	.162	.590	05	Passivated	Gold (C)	1364-000-K051-16

**Stripline Receptacle**

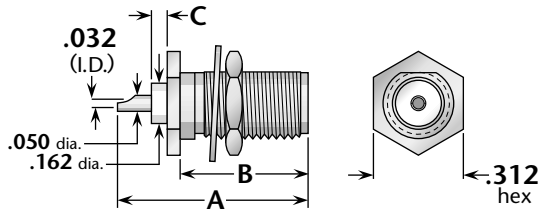


**Figure 1**

Figure	Dimensions								Plating		Delta P/N
	A	B	C	D	E	F	G	H	Body	Contact	
1	.031	.085	.375	.010	.072	.562	.438	#2-56	Gold	Gold	1357-000-G000-12
1	.031	.085	.375	.010	.072	.562	.438	#2-56	Passivated	Gold	1357-000-K000-12
1	.063	.085	.375	.010	.072	.562	.438	#2-56	Gold	Gold	1357-000-G000-2
1	.063	.085	.375	.010	.072	.562	.438	#2-56	Passivated	Gold	1357-000-K000-2
1	.125	.085	.375	.010	.072	.562	.438	#2-56	Gold	Gold	1357-000-G000-6
1	.125	.085	.375	.010	.072	.562	.438	#2-56	Passivated	Gold	1357-000-K000-6

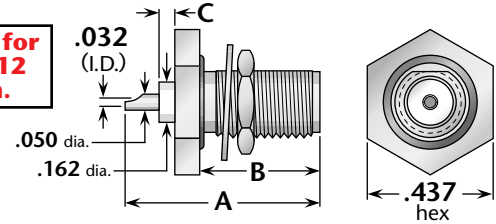
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
All items available with other flange, contact, and insulator configurations.

## Bulkhead Jack Receptacles

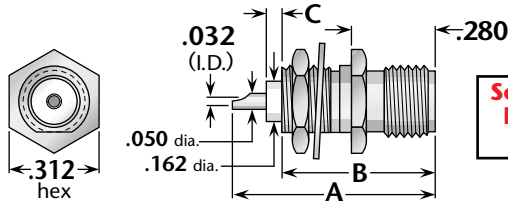

**Figure 1**

(Rear mount, solder pot contact, no mounting gasket)

See page 197 for MIL-PRF-39012 QPL version.

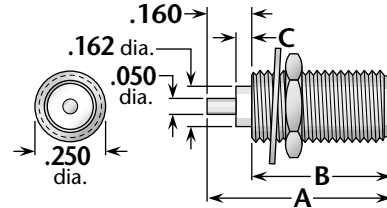

**Figure 2**

(Rear mount, solder pot contact, with mounting gasket)


**Figure 3**

(Front mount, solder pot contact, no mounting gasket)

See page 197 for MIL-PRF-39012 QPL version.


**Figure 4**

(Round body, post contact)

Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	.67	.450	.000	.125	67	Gold	Gold (C)	1320-000-G671
1	.67	.450	.000	.125	67	Passivated	Gold (C)	1320-000-K671
1	.67	.450	.062	.125	67	Gold	Gold (C)	1320-000-G821-2
1	.67	.450	.062	.125	67	Passivated	Gold (C)	1320-000-K821
2	.67	.415	.062	.093	67	Gold	Gold (C)	1320-000-G821
2	.67	.415	.062	.093	67	Passivated	Gold (C)	1320-000-K821-11
3	.67	.500	.062	.125	67	Gold	Gold (C)	1320-000-G671-5
3	.67	.500	.062	.125	67	Passivated	Gold (C)	1320-000-K671-5
4	.66	.500	.076	.125	82	Gold	Gold	1321-000-G820-3
4	.66	.500	.076	.125	82	Passivated	Gold	1321-000-K820-3
4	.66	.500	.076	.125	82	Gold	Gold (C)	1321-000-G821
4	.66	.500	.076	.125	82	Passivated	Gold (C)	1321-000-K821-14
4	.66	.500	.000	.125	82	Gold	Gold (C)	1321-000-G821-65
4	.66	.500	.000	.125	82	Passivated	Gold (C)	1321-000-K821-65

## Printed-Circuit Board Receptacles—Through-Hole Mount

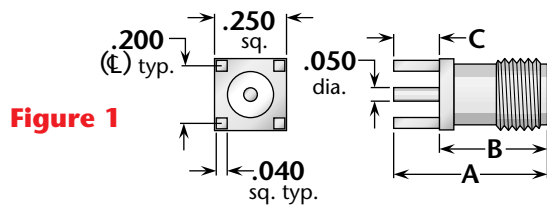
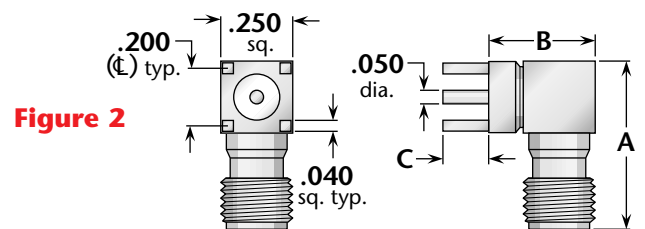

**Figure 1**

**Figure 2**

Figure	Dimensions			Max. Board	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	.53	.375	.155	.125	PCB05	Gold	Gold (C)	1367-000-G911
2	.583	.375	.155	.125	PCB05	Gold	Gold (C)	1369-000-G000

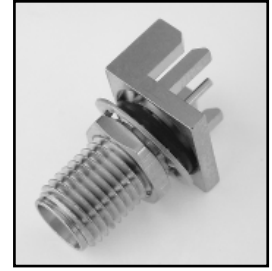
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (epoxy captivated).  
All items available with other contact and insulator configurations.

## Delta Edge Mount Receptacles

These connectors eliminate the need for drilling P.C. boards for mounting. Edge mounting provides design versatility, particularly in daughterboard configurations.

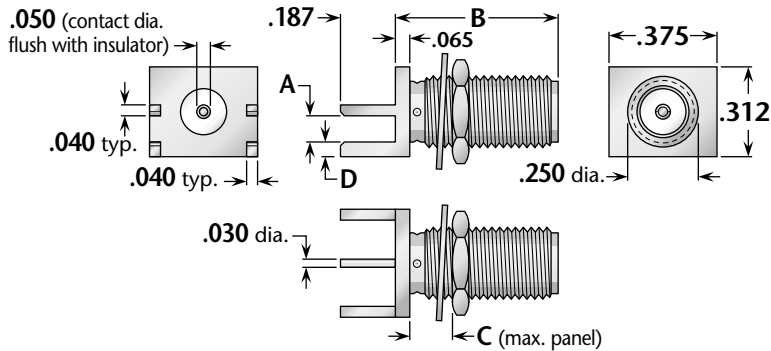
In addition, styles with bulkhead mounting allow P.C. boards to be attached directly to component housings or panels, eliminating the expense of adapters, cable assemblies, and/or additional board mounting hardware. Bulkhead mounted types are available with mounting gaskets as an option (see picture).

Delta SMA edge mount receptacles feature gold-plated brass bodies for low cost, with gold-plated beryllium copper center contacts. Insulators and contacts are mechanically captivated to meet MIL-PRF-39012 requirements. All are available with stainless-steel bodies.



*Bulkhead jack with mounting gasket*

### Edge Mount P.C. Board Receptacles—Bulkhead Jack



Board Thickness	Dimensions				Plating		Delta P/N
	A	B	C	D	Body	Contact	
.042	.048	.500	.125	.093	Gold	Gold (C)	1367-000-G91P-21
.047	.053	.500	.125	.088	Gold	Gold (C)	1367-000-G91P-22
.062	.068	.500	.125	.073	Gold	Gold (C)	1367-000-G91P-6
.062	.068	.820	.425	.073	Gold	Gold (C)	1367-000-G91P-23

### Edge Mount P.C. Board Receptacles—Straight Jacks

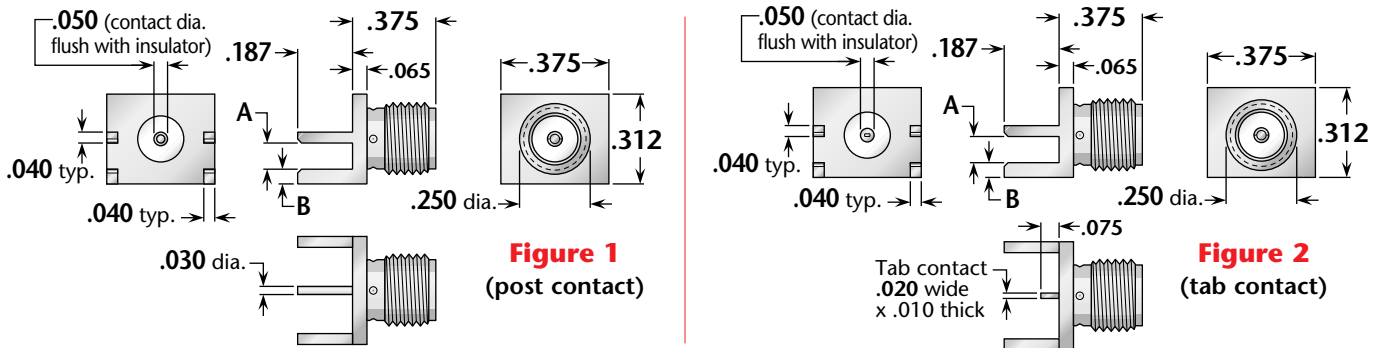
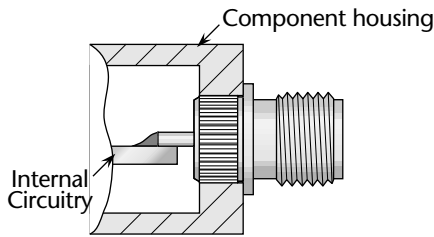


Figure	Board Thickness	Dimensions		Plating		Delta P/N
		A	B	Body	Contact	
1	.042	.048	.093	Gold	Gold (C)	1367-000-G91P-26
1	.047	.053	.088	Gold	Gold (C)	1367-000-G91P-27
1	.062	.068	.073	Gold	Gold (C)	1367-000-G91P
2	.042	.048	.103	Gold	Gold (C)	1367-000-G91P-24
2	.047	.053	.098	Gold	Gold (C)	1367-000-G91P-25
2	.062	.068	.083	Gold	Gold (C)	1367-000-G91P-20

(C) in contact plating column indicates captive contact (mechanical captivation). • See page 114 for plug types.

## PressMount 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 are available for a wide variety of Delta connector series, and can be used in packages as small as the outer diameter of the connector body.

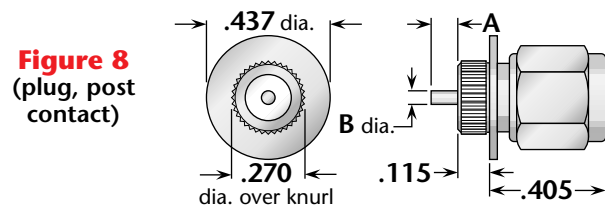
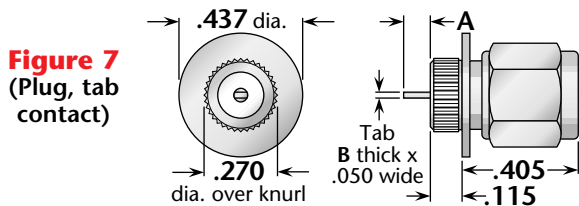
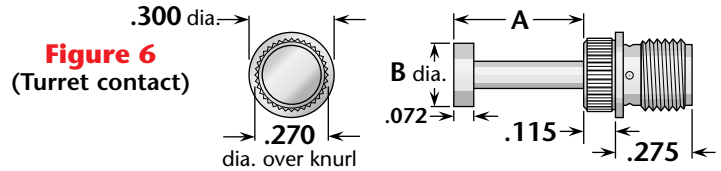
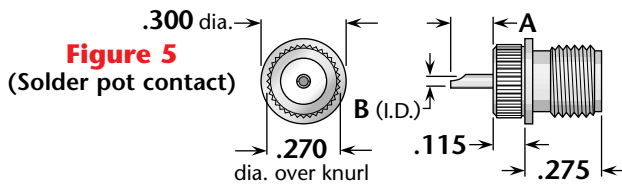
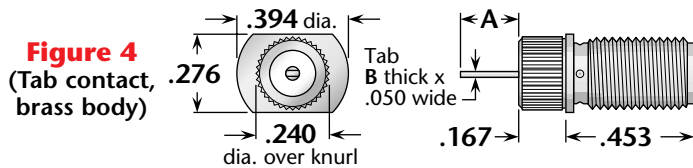
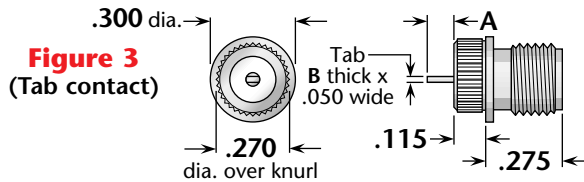
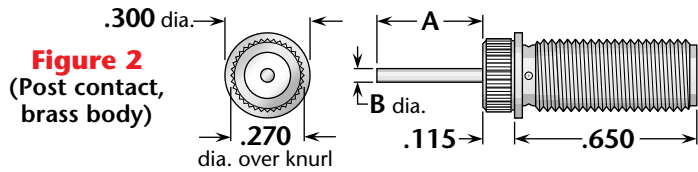
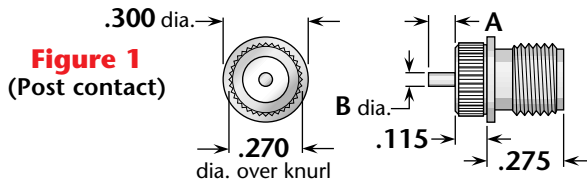
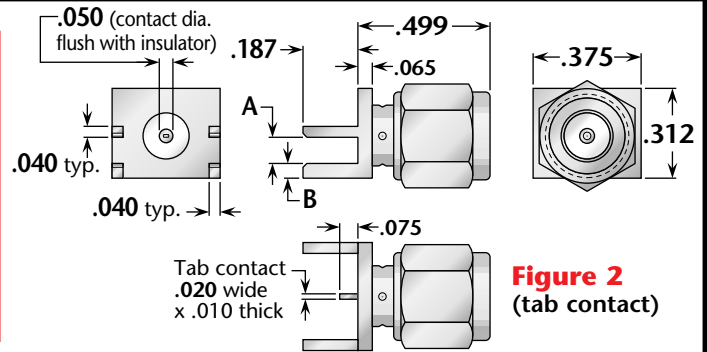
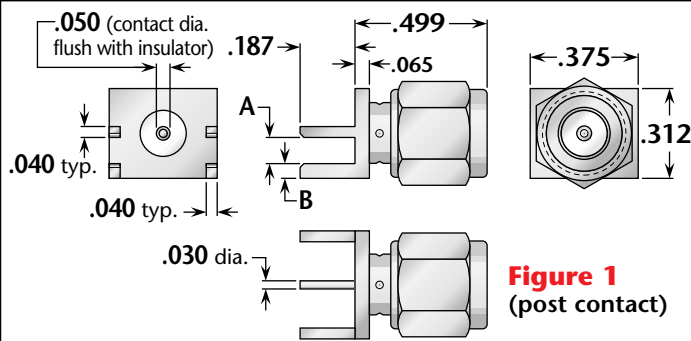


Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.062	.050	.100	.267 ±.001 dia.	Passivated	Gold (C)	1320-000-K911-2
2	.390	.050	.100	.267 ±.001 dia.	Gold	Gold (C)	1320-000-G911-76
3	.100	.005/.008	.100	.267 ±.001 dia.	Passivated	Gold (C)	1320-000-K911-3
4	.120	.005/.008	.100	.237 ±.001 dia.	Gold	Gold (C)	1320-000-G911-84
5	.200	.032	.100	.267 ±.001 dia.	Passivated	Gold (C)	1320-000-K911-4
6	.465	.250	.100	.267 ±.001 dia.	Gold	Gold (C)	1320-000-G911-85
6	.425	.250	.100	.267 ±.001 dia.	Gold	Gold (C)	1320-000-G911-78
7	.100	.005/.008	.100	.267 ±.001 dia.	Passivated	Gold (C)	1324-000-K911-3
8	.062	.050	.100	.267 ±.001 dia.	Passivated	Gold (C)	1324-000-K911-2

(C) in contact plating column indicates captive contact (mechanical captivation).

**Edge Mount P.C. Board Receptacles—Straight Plugs**

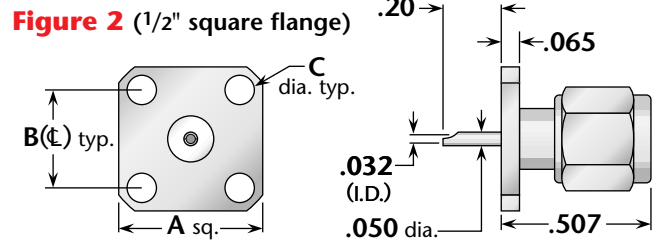
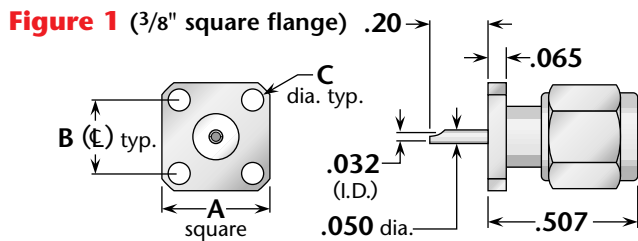


**Figure 1**  
(post contact)

**Figure 2**  
(tab contact)

Figure	Board Thickness	Dimensions		Plating		Delta P/N
		A	B	Body	Contact	
1	.042	.048	.093	Gold	Gold (C)	1368-000-G91P-4
1	.047	.053	.088	Gold	Gold (C)	1368-000-G91P-5
1	.062	.068	.073	Gold	Gold (C)	1368-000-G91P-6
2	.042	.048	.103	Gold	Gold (C)	1368-000-G91P-1
2	.047	.053	.098	Gold	Gold (C)	1368-000-G91P-2
2	.062	.068	.083	Gold	Gold (C)	1368-000-G91P-3

**Panel Plug Receptacle—Solder Pot Contact**



**Figure 3** (2-hole flange)

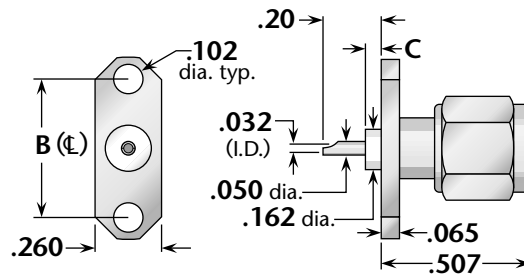
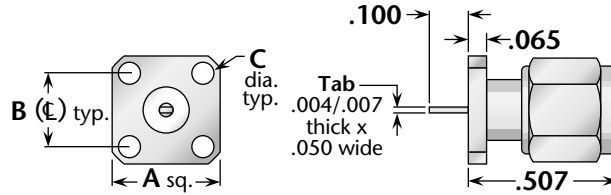


Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold (C)	1359-000-G911-13
1	.375	.250	.067	91	Passivated	Gold (C)	1359-000-K911-13
2	.500	.340	.102	05	Gold	Gold (C)	1359-000-G051-10
2	.500	.340	.102	05	Passivated	Gold (C)	1359-000-K051-10
3	.625	.481	.000	92A	Gold	Gold (C)	1359-000-G921-17
3	.625	.481	.000	92A	Passivated	Gold (C)	1359-000-K921-17
3	.625	.481	.025	92A	Passivated	Gold (C)	1359-000-G921-18
3	.625	.481	.025	92A	Passivated	Gold (C)	1359-000-K921-18

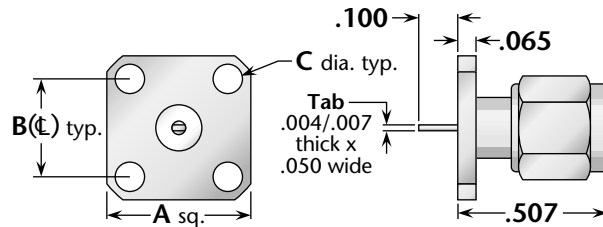
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.



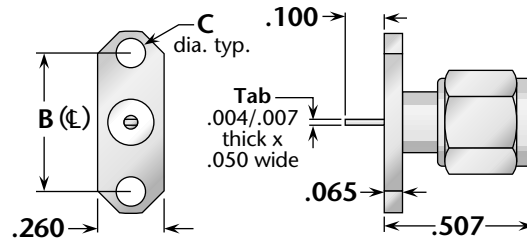
## Panel Plug Receptacle—Tab Contact



**Figure 1**  
( $3/8$ " square flange)



**Figure 2**  
( $1/2$ " square flange)



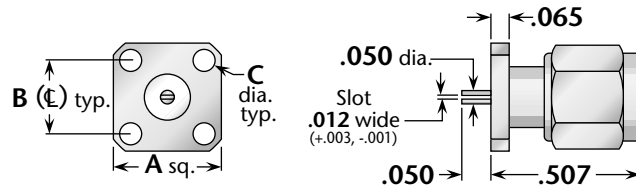
**Figure 3**  
(2-hole flange)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1359-000-G910-2
1	.375	.250	.067	91	Passivated	Gold	1359-000-K910-2
1	.375	.250	.067	91	Gold	Gold (C)	1359-000-G911-14
1	.375	.250	.067	91	Passivated	Gold (C)	1359-000-K911-14
2	.500	.340	.102	05	Gold	Gold	1359-000-G050-5
2	.500	.340	.102	05	Passivated	Gold	1359-000-K050-5
2	.500	.340	.102	05	Gold	Gold (C)	1359-000-G051-45
2	.500	.340	.102	05	Passivated	Gold (C)	1359-000-K051-45
3	.625	.481	.102	92A	Gold	Gold	1359-000-G920-1
3	.625	.481	.102	92A	Passivated	Gold	1359-000-K920-1
3	.625	.481	.102	92A	Gold	Gold (C)	1359-000-G921-19
3	.625	.481	.102	92A	Passivated	Gold (C)	1359-000-K921-19

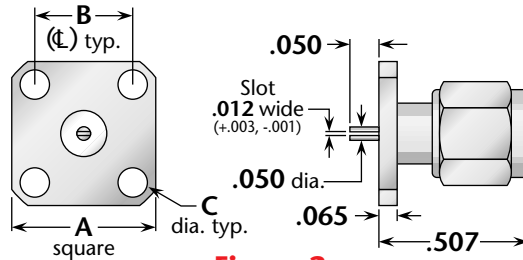
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (epoxy captivated).  
All items available with other flange, contact, and insulator configurations.



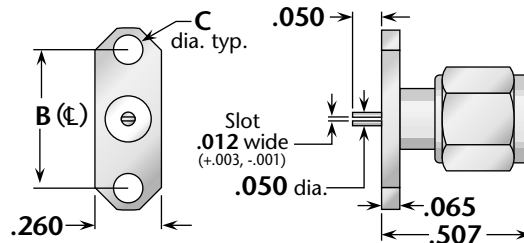
## Panel Plug Receptacle—Slotted Contact



**Figure 1**  
(3/8" square flange)



**Figure 2**  
(1/2" square flange)



**Figure 3**  
(2-hole flange)

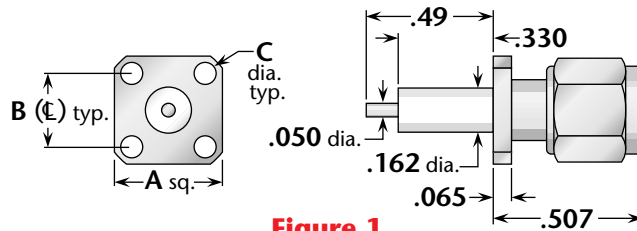
### Other Standard Slot Widths

Our other standard slot widths for these connectors (.018" and .036") are readily available—call for part numbers.

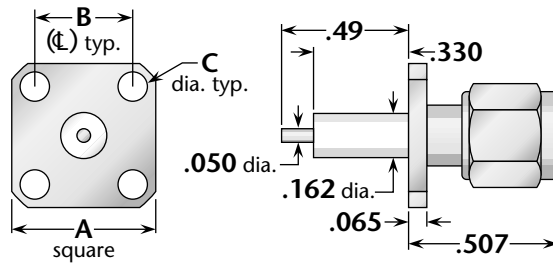
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1359-000-G910-4
1	.375	.250	.067	91	Passivated	Gold	1359-000-K910-4
1	.375	.250	.067	91	Gold	Gold (C)	1359-000-G911-23
1	.375	.250	.067	91	Passivated	Gold (C)	1359-000-K911-23
2	.500	.340	.102	05	Gold	Gold	1359-000-G050-7
2	.500	.340	.102	05	Passivated	Gold	1359-000-K050-7
2	.500	.340	.102	05	Gold	Gold (C)	1359-000-G051-38
2	.500	.340	.102	05	Passivated	Gold (C)	1359-000-K051-38
3	.625	.481	.102	92A	Gold	Gold	1359-000-G920-2
3	.625	.481	.102	92A	Passivated	Gold	1359-000-K920-2
3	.625	.481	.102	92A	Gold	Gold (C)	1359-000-G921-20
3	.625	.481	.102	92A	Passivated	Gold (C)	1359-000-K921-20

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (epoxy captivated).  
All items available with other flange, contact, and insulator configurations.

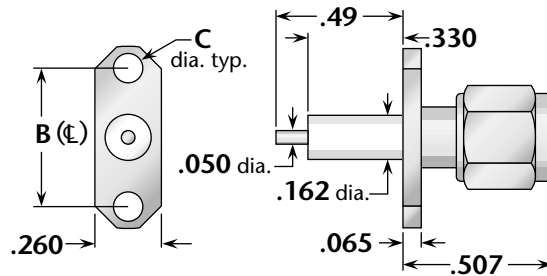
## Panel Plug Receptacle—Post Contact



**Figure 1**  
(3/8" square flange)



**Figure 2**  
(1/2" square flange)

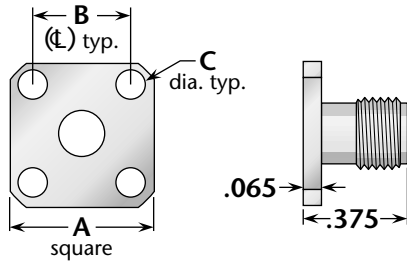


**Figure 3**  
(2-hole flange)

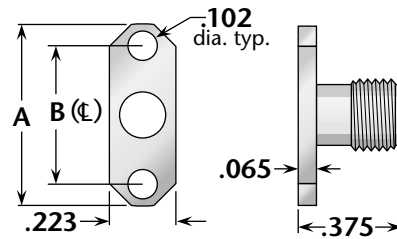
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1359-000-G910-3
1	.375	.250	.067	91	Passivated	Gold	1359-000-K910-3
1	.375	.250	.067	91	Gold	Gold (C)	1359-000-G911-15
1	.375	.250	.067	91	Passivated	Gold (C)	1359-000-K911-15
2	.500	.340	.102	05	Gold	Gold	1359-000-G050
2	.500	.340	.102	05	Passivated	Gold	1359-000-K050-2
2	.500	.340	.102	05	Gold	Gold (C)	1359-000-G051-4
2	.500	.340	.102	05	Passivated	Gold (C)	1359-000-K051-4
3	.625	.481	.102	92A	Gold	Gold	1323-000-G920
3	.625	.481	.102	92A	Passivated	Gold	1323-000-K920
3	.625	.481	.102	92A	Gold	Gold (C)	1323-000-G921-1
3	.625	.481	.102	92A	Passivated	Gold (C)	1323-000-K921-1

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (epoxy captivated).  
All items available with other flange, contact, and insulator configurations.

## Dummy Receptacle



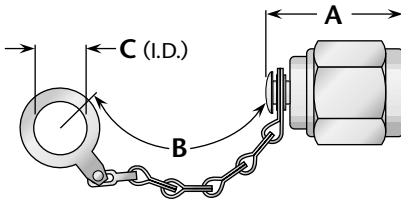
**Figure 1**  
(1/2" square flange)



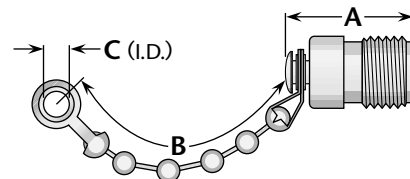
**Figure 2**  
(2-hole flange)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.500	.340	.102	05	Gold	—	1363-000-G050-1
1	.500	.340	.102	05	Passivated	—	1363-000-K050-2
2	.625	.481	.102	92	Gold	—	1363-000-G920
2	.625	.481	.102	92	Passivated	—	1363-000-K920

## Dust Caps



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



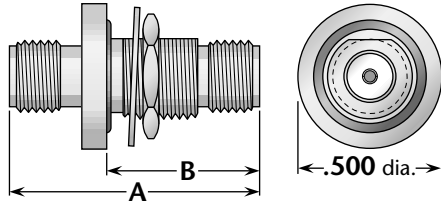
**Figure 2**  
(Shown with bead chain)

See page 194 for MIL-PRF-39012 QPL versions.

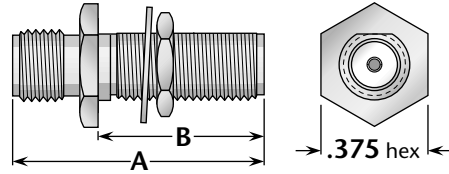
Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.50	2.25	.144	Bead chain	Gold	—	1332-000-G000
1	.50	2.25	.144	Bead chain	Passivated	—	1332-000-K000
1	.275	—	—	No chain	Passivated	—	1332-000-K00A-1
1	.50	3.25	.281	Safety chain	Passivated	—	1332-000-K00B-3
1	.330	—	—	No chain / shorting type	Passivated	Passivated	1332-000-K00C
2	.50	2.25	.144	Bead chain	Gold	—	1333-000-G000
2	.50	2.25	.144	Bead chain	Passivated	—	1333-000-K000
2	.390	—	—	No chain	Passivated	—	1333-000-K00A

See page 203 for mounting dimensions. • Dust caps are available with other chain styles and lengths.

## Bulkhead Mounted Jack-Jack Adapters (Connect two plugs)



**Figure 1**  
(Hermetically sealed, with mounting gasket)

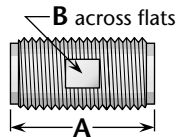


**Figure 2**  
(Non-hermetic, no mounting gasket)

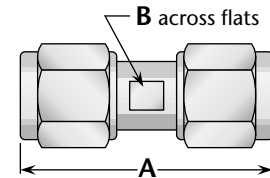
Figure	Dimensions		Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	.875	.555	.190	66	Gold	Gold (C)	1326-000-G678
2	.875	.575	.250	67	Gold	Gold (C)	1326-000-G821
2	.875	.575	.250	67	Passivated	Gold (C)	1326-000-K821-1

## 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)

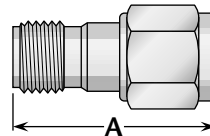
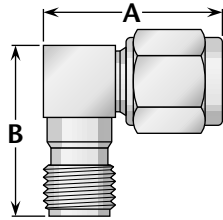


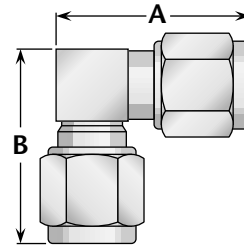
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	.500	.218	Gold	Gold (C)	1328-000-G000
1	.500	.218	Passivated	Gold (C)	1328-000-K000-1
2	.875	.218	Gold	Gold (C)	1327-000-G000
2	.875	.218	Passivated	Gold (C)	1327-000-K000-2
3	.72	—	Gold	Gold (C)	1334-000-G000
3	.72	—	Passivated	Gold (C)	1334-000-K000

(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.

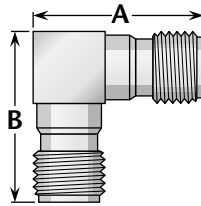
## Right Angle and Tee Adapters



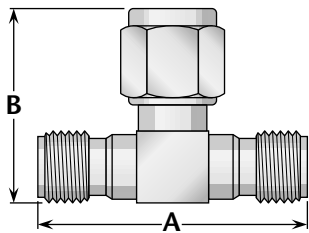
**Figure 1**  
(Right angle plug-jack;  
connects one plug and one jack)



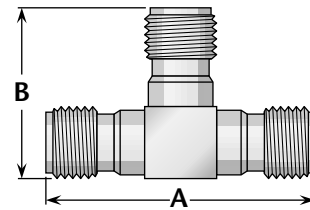
**Figure 2**  
(Right angle plug-plug;  
connects two jacks)



**Figure 3**  
(Right angle jack-jack;  
connects two plugs)



**Figure 4**  
(Tee jack-plug-jack;  
connects two plugs and one jack)



**Figure 5**  
(Tee jack-jack-jack;  
connects three plugs)

Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	.625	.585	Gold	Gold (C)	1329-000-G000
1	.625	.585	Passivated	Gold (C)	1329-000-K000
2	.675	.675	Gold	Gold (C)	1337-000-G000-1
2	.675	.675	Passivated	Gold (C)	1337-000-K000-1
3	.585	.585	Gold	Gold (C)	1395-000-G000
3	.585	.585	Passivated	Gold (C)	1395-000-K000
4	.92	.63	Gold	Gold (C)	1330-000-G000
4	.92	.63	Passivated	Gold (C)	1330-000-K000
5	1.00	.59	Gold	Gold (C)	1349-000-G000
5	1.00	.59	Passivated	Gold (C)	1349-000-K000

(C) in contact plating column indicates captive contact.

## General Description

Delta *E-Line* brass SMA connectors are subminiature, 50Ω impedance connectors with ¼"-36 threaded coupling. Their use of brass for body parts provides lower cost while retaining electrical performance similar to that of stainless steel SMA counterparts.

If your application does not require the 500 mating cycles of service life provided by stainless steel SMA connectors, *E-Line* SMAs can fulfill your needs at a reduced cost. For additional economy, nickel-plated bodies can be specified instead of gold plating.

*E-Line* brass SMA connectors can be used with semi-rigid cables in applications up to 18 GHz, or miniature flexible cables up to 12.4 GHz.

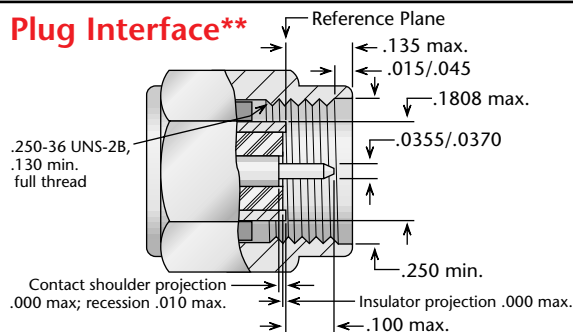
Our *E-Line* brass SMA product line is still growing, so please call if you don't see what you need.

## E-Line Brass SMA Configurations

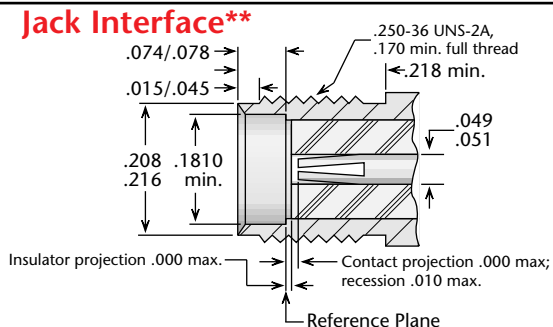
Cable Plugs for Semi-Rigid Cable .....	124	Panel Jack Receptacles (Post Contact).....	126
Straight Cable Jacks for Semi-Rigid Cable .....	124	Panel Jack Receptacles (Tab Contact).....	126
Bulkhead Cable Jacks for Semi-Rigid Cable .....	124	Bulkhead Jack Receptacles .....	127
Panel Cable Jacks for Semi-Rigid Cable.....	124	Printed-Circuit Board Receptacles .....	127
Cable Plugs for Flexible Cable .....	125	Panel Plug Receptacles (Solder Pot Contact) .....	128
Straight Cable Jacks for Flexible Cable .....	125	Panel Plug Receptacles (Post Contact) .....	128
Bulkhead Cable Jacks for Flexible Cable.....	125	Panel Plug Receptacles (Tab Contact).....	128
Panel Jack Receptacles (Solder Pot Contact) .....	126	In-Series Adapters.....	129

## E-Line Brass SMA Specifications\*

### Plug Interface\*\*



### Jack Interface\*\*



\*\*Some proportions altered to illustrate detail.

### Electrical:

**Nominal Impedance:** 50 ohms.

**Frequency Range:** DC–18 GHz (with semi-rigid cable);  
DC–12.4 GHz (with flexible cable).

**Voltage Rating:** 335–500 volts RMS (dependent on cable).

**Dielectric Withstanding**

**Voltage:** 500–1500 volts RMS (dependent on cable).

**Insulation Resistance:** 5,000 megohms.

### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.

**Male Contacts:** Brass per ASTM B16, or  
Beryllium Copper per ASTM B196.

**Female Contacts:** Beryllium Copper per ASTM B196.

**Contact Plating:** Gold per MIL-G-45204.

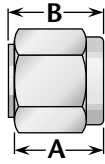
**Gaskets:** Silicone rubber per ZZ-R-765,  
Class II, Grade 50.

**Other Metal Parts:** Brass per ASTM B16 or equivalent; gold plated per  
MIL-G-45204, or nickel plated per QQ-N-290.

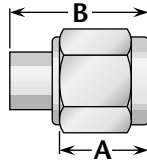
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

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

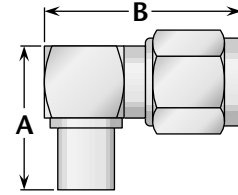
## Straight and Right Angle Plugs—For Semi-Rigid Cable



**Figure 1**  
(Straight plug—direct solder)



**Figure 2**  
(Straight plug—direct solder)

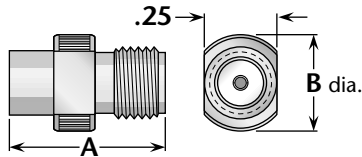


**Figure 3**  
(Right angle plug—direct solder)

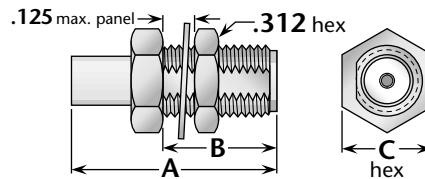
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
13	1	.330	.344	Gold*	None <sup>(1)</sup>	1301-031-G003-502	G/01
13	2	.459	.330	Gold*	None <sup>(1)</sup>	1301-031-G003-501	G/01
13	2	.330	.459	Gold*	Gold	1301-031-G003-500	H/03
13	3	.46	.63	Gold*	Gold (C)	1305-031-G003-500	J/02
14	2	.330	.459	Gold*	Gold	1301-025-G003-500	H/03
14	3	.46	.63	Gold*	Gold (C)	1305-025-G003-500	J/02

<sup>(1)</sup> Cable center conductor used as contact.

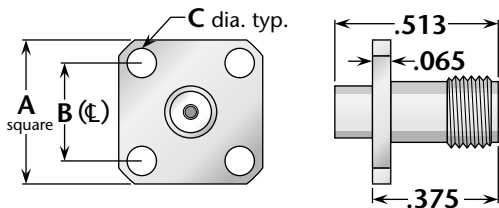
## Straight, Panel and Bulkhead Jacks—For Semi-Rigid Cable



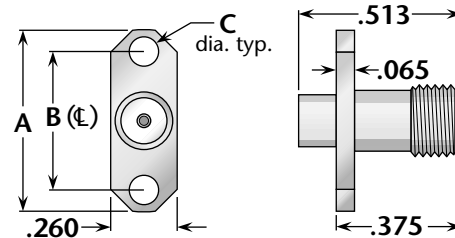
**Figure 1**  
(Straight jack, direct solder)



**Figure 2**  
(Bulkhead mount, direct solder)



**Figure 3**  
(4-hole flange, direct solder)



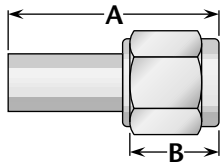
**Figure 4**  
(2-hole flange, direct solder)

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
13	1	.500	.335	—	—	Gold*	Gold	1308-031-G003-500	H/01
13	2	.850	.500	.312	67	Gold*	Gold	1317-031-G673-500	H/04
13	3	.500	.340	.102	05	Gold*	Gold	1311-031-G053-500	H/01
13	4	.625	.481	.102	92A	Gold*	Gold	1311-031-G923-500	H/01
14	1	.500	.335	—	—	Gold*	Gold	1308-025-G003-500	H/01
14	2	.850	.500	.312	67	Gold*	Gold	1317-025-G673-500	H/04
14	3	.500	.340	.102	05	Gold*	Gold	1311-025-G053-500	H/01
14	4	.625	.481	.102	92A	Gold*	Gold	1311-025-G923-500	H/01

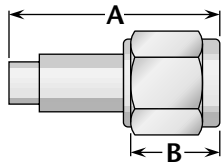
\* Also available with nickel-plated body—change G in Delta part number to N. • (C) in contact plating column indicates captive contact. See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions.



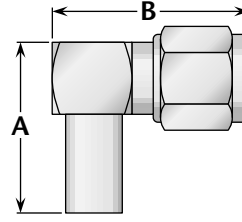
## Straight and Right Angle Plugs—Crimp Type For Flexible Cable



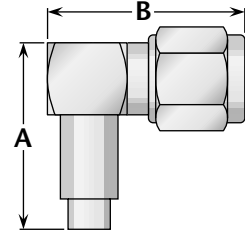
**Figure 1**  
(Straight plug)



**Figure 2**  
(Straight plug)



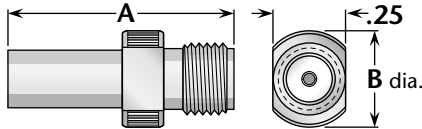
**Figure 3**  
(Right angle plug)



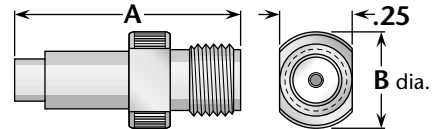
**Figure 4**  
(Right angle plug)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
5	1	.88	.330	Gold*	Gold	1303-017-G000-500	K/05
5	3	.65	.63	Gold*	Gold (C)	1307-017-G001-500	L/03
6	1	.88	.330	Gold*	Gold	1303-013-G000-500	K/05
6	3	.65	.63	Gold*	Gold (C)	1307-013-G001-500	L/03
9	1	.75	.330	Gold*	Gold	1303-037-G000-500	K/03
9	3	.65	.63	Gold*	Gold (C)	1307-037-G001-500	L/03
10	1	.75	.330	Gold*	Gold	1303-100-G000-500	K/03
10	3	.65	.63	Gold*	Gold (C)	1307-100-G001-500	L/03
11	2	.76	.330	Gold*	Gold	1303-038-G000-500	***
11	4	.65	.63	Gold*	Gold (C)	1307-038-G001-500	L/03

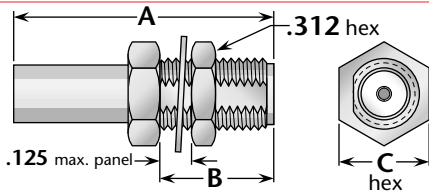
## Straight and Bulkhead Jacks—Crimp Type For Flexible Cable



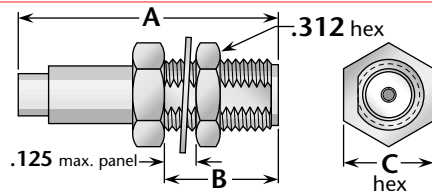
**Figure 1** (Straight jack)



**Figure 2** (Straight jack)



**Figure 3** (Bulkhead jack)

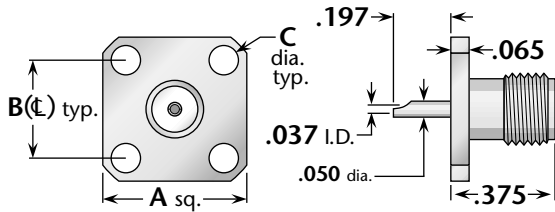


**Figure 4** (Bulkhead jack)

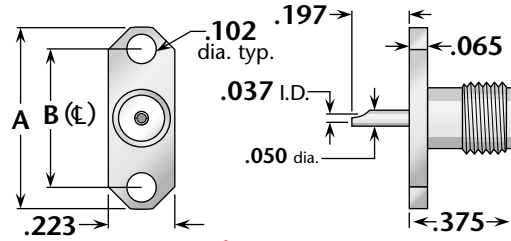
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
5	1	.76	.335	—	—	Gold*	Gold	1310-017-G000-500	K/08
5	3	.99	.500	.312	67	Gold*	Gold	1319-017-G670-500	K/10
6	1	.76	.335	—	—	Gold*	Gold	1310-013-G000-500	K/08
6	3	.99	.500	.312	67	Gold*	Gold	1319-013-G670-500	K/10
9	1	.74	.335	—	—	Gold*	Gold	1310-037-G000-500	K/08
9	3	.99	.500	.312	67	Gold*	Gold	1319-037-G670-500	K/10
10	1	.74	.335	—	—	Gold*	Gold	1310-100-G000-500	K/08
10	3	.99	.500	.312	67	Gold*	Gold	1319-100-G670-500	K/10
11	2	.74	.335	—	—	Gold*	Gold	1310-038-G000-500	***
11	4	.99	.500	.312	67	Gold*	Gold	1319-038-G670-500	***

\* Also available with nickel-plated body—change G in Delta part number to N. • (C) in contact plating column indicates captive contact. See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions.

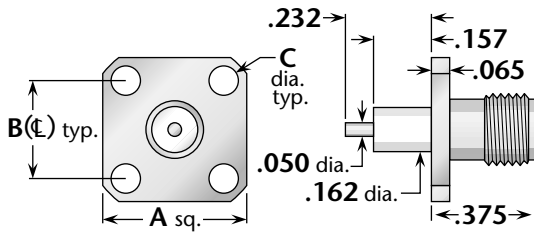
## Panel Jack Receptacles



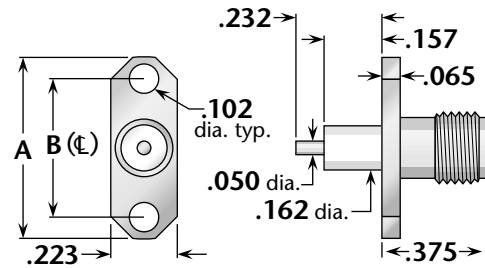
**Figure 1**  
(Solder pot contact—square flange)



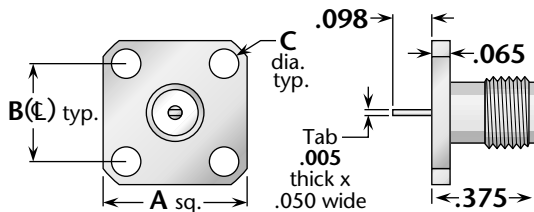
**Figure 2**  
(Solder pot contact—2-hole flange)



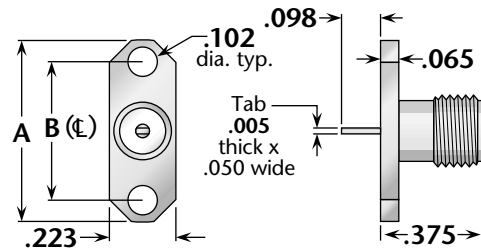
**Figure 3**  
(Post contact—square flange)



**Figure 4**  
(Post contact—2-hole flange)



**Figure 5**  
(Tab contact—square flange)

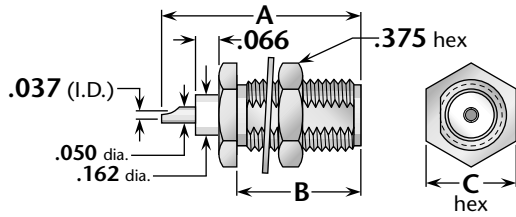


**Figure 6**  
(Tab contact—2-hole flange)

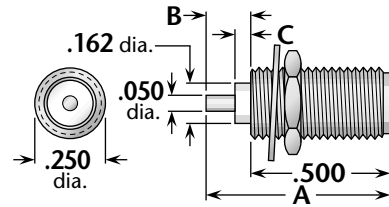
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.500	.340	.102	05	Gold*	Gold (C)	1313-000-G051-500
2	.625	.481	.102	92	Gold*	Gold (C)	1313-000-G921-500
3	.500	.340	.102	05	Gold*	Gold (C)	1358-000-G051-500
4	.625	.481	.102	92	Gold*	Gold (C)	1358-000-G921-500
5	.500	.340	.102	05	Gold*	Gold (C)	1358-000-G051-501
6	.625	.481	.102	92	Gold*	Gold (C)	1358-000-G921-501

\* Also available with nickel-plated body—change G in Delta part number to N.  
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (mechanical captivation).  
All items available with other flange, contact, and insulator configurations.

## Bulkhead Jack Receptacles



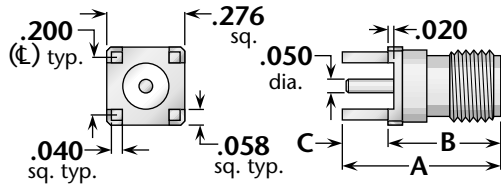
**Figure 1** (Rear mount, solder pot contact, no mounting gasket)



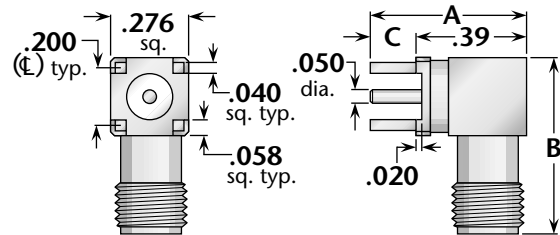
**Figure 2** (Round body, post contact)

Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	.67	.450	.375	.125	67	Gold	Gold (C)	1321-000-G671-500
2	.66	.157	.075	.125	82	Gold	Gold (C)	1321-000-G821-500
2	.62	.118	.000	.125	82	Gold	Gold (C)	1321-000-G821-501

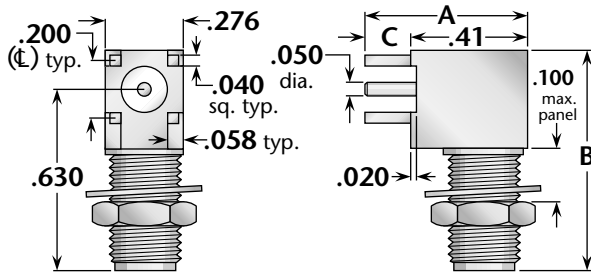
## Printed-Circuit Board Receptacles



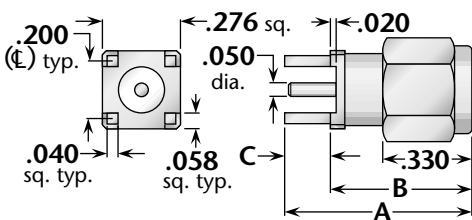
**Figure 1** (Straight jack)



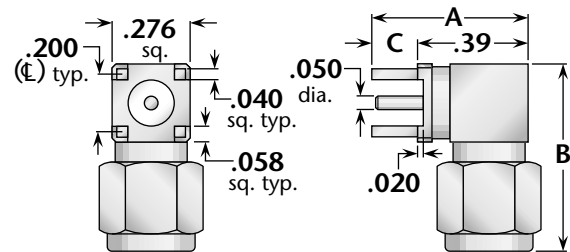
**Figure 2** (Right angle jack)



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



**Figure 4** (Straight plug)



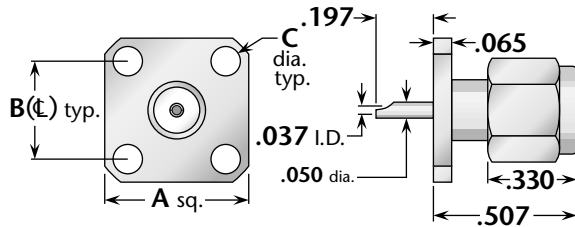
**Figure 5** (Right angle plug)

Figure	Dimensions			Max. Board	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	.55	.394	.155	.125	PCB05	Gold*	Gold (C)	1367-000-G001-500
2	.54	.594	.155	.125	PCB05	Gold*	Gold (C)	1369-000-G001-500
3	.56	.756	.155	.125	PCB05/82	Gold*	Gold (C)	1369-000-G821-500
4	.65	.494	.155	.125	PCB05	Gold*	Gold (C)	1368-000-G001-500
5	.54	.65	.155	.125	PCB05	Gold*	Gold (C)	1370-000-G001-500

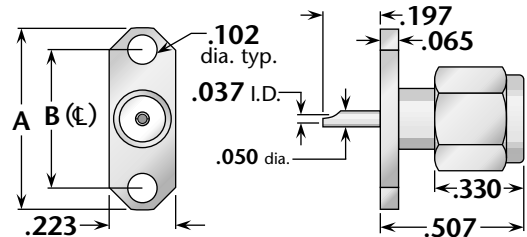
\* Also available with nickel-plated body—change G in Delta part number to N.

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (mechanical captivation).

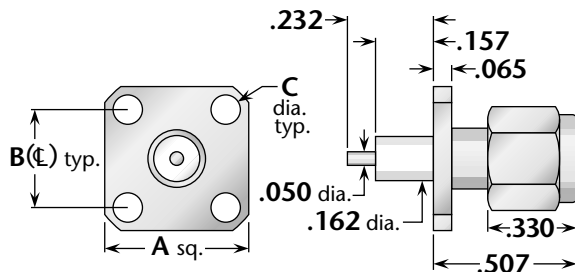
## Panel Plug Receptacles



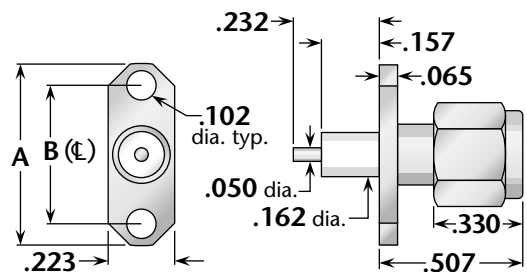
**Figure 1**  
(Solder pot contact—square flange)



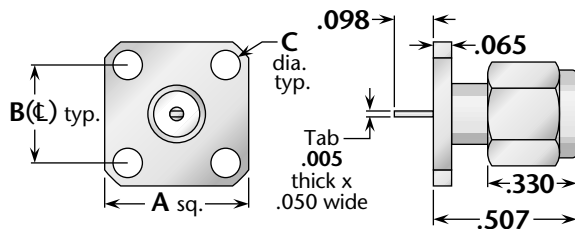
**Figure 2**  
(Solder pot contact—2-hole flange)



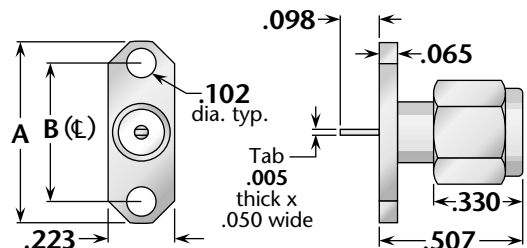
**Figure 3**  
(Post contact—square flange)



**Figure 4**  
(Post contact—2-hole flange)



**Figure 5**  
(Tab contact—square flange)

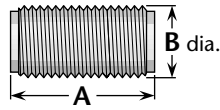


**Figure 6**  
(Tab contact—2-hole flange)

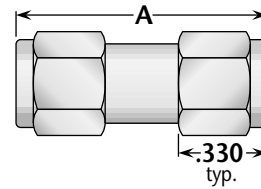
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.500	.340	.102	05	Gold*	Gold (C)	1323-000-G051-500
2	.625	.481	.102	92	Gold*	Gold (C)	1323-000-G921-500
3	.500	.340	.102	05	Gold*	Gold (C)	1359-000-G051-500
4	.625	.481	.102	92	Gold*	Gold (C)	1359-000-G921-500
5	.500	.340	.102	05	Gold*	Gold (C)	1359-000-G051-501
6	.625	.481	.102	92	Gold*	Gold (C)	1359-000-G921-501

\* Also available with nickel-plated body—change G in Delta part number to N.  
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact (mechanical captivation).  
All items available with other flange, contact, and insulator configurations.

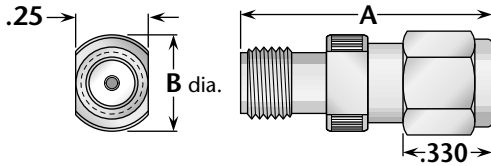
## Straight, Right Angle, and Tee Adapters



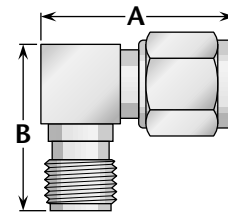
**Figure 1**  
(Straight jack-jack; connects two plugs)



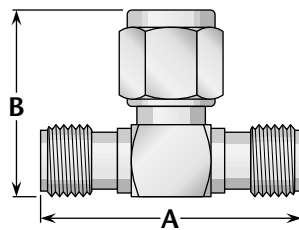
**Figure 2**  
(Straight plug-plug; connects two jacks)



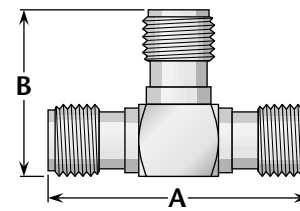
**Figure 3**  
(Straight jack-plug; connects one plug and one jack)



**Figure 4**  
(Right angle plug-jack; connects one plug and one jack)



**Figure 5**  
(Tee jack-plug-jack; connects two plugs and one jack)



**Figure 6**  
(Tee jack-jack-jack; connects three plugs)

Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	.500	.250	Gold*	Gold (C)	1328-000-G001-500
2	.900	—	Gold*	Gold (C)	1327-000-G001-500
3	.86	.335	Gold*	Gold (C)	1334-000-G001-500
4	.654	.594	Gold*	Gold (C)	1329-000-G001-500
5	.913	.654	Gold*	Gold (C)	1330-000-G001-500
6	.913	.594	Gold*	Gold (C)	1338-000-G001-500

\* Also available with nickel-plated body—change G in Delta part number to N.  
(C) in contact plating column indicates captive contact (mechanical captivation).

## General Description

Delta SMB connectors are subminiature, 50Ω impedance connectors with snap-on coupling. They are best suited for use with cables in the range of .070" to .120" diameter, such as RG-178 and RG-316/U.

Delta SMC connectors (page 134) are similar in size and construction to SMB series, but employ #10-32 threaded coupling, and have a higher upper frequency limit than SMB.

All Delta SMB and SMC connectors are available with gold-plated bodies, or with nickel-plated bodies for economy.

Adapters between SMB and other series are shown starting on page 176.

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

- SMB *PressMount* receptacles (page 133) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- SMB and SMC panel receptacles with flange sizes to match the same hole pattern as standard SMA connectors, letting you drill one hole pattern and mount SMB, SMC, BNC, N, SMA, or TNC series connectors as needed.

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

### SMB Configurations

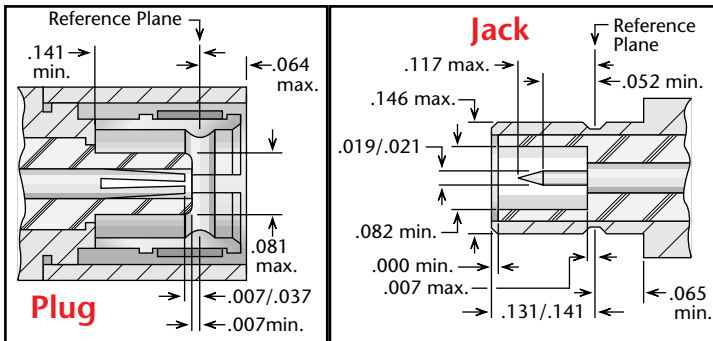
Straight Cable Plugs .....	131
Right Angle Cable Plugs.....	131
Bulkhead Cable Jacks .....	131
Bulkhead Jack Receptacles.....	132
Panel Jack Receptacles (square flange) .....	132
PressMount receptacles .....	133
Printed-Circuit Board Receptacles .....	133

### SMC Configurations

Straight Cable Plugs .....	134
Right Angle Cable Plugs.....	134
Bulkhead Cable Jacks .....	134
Bulkhead Jack Receptacles.....	135
Panel Jack Receptacles (square flange) .....	135
Printed-Circuit Board Receptacles .....	135

## SMB and SMC Specifications\*

### SMB Interfaces\*\*



### Electrical:

**Nominal Impedance:** 50 ohms.

**Frequency Range:** SMB: DC-4 GHz.

SMC: DC-10 GHz.

**Voltage Rating:** 250 volts RMS (when used with RG-178-class cables); 335 volts RMS (when used with RG-316-class cables).

### Dielectric Withstanding

**Voltage:** 750 volts RMS (when used with RG-178-class cables); 1,000 volts RMS (when used with RG-316-class cables).

**Insulation Resistance:** 1,000 megohms.

### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.

**Male Contacts:** Brass per ASTM B16.

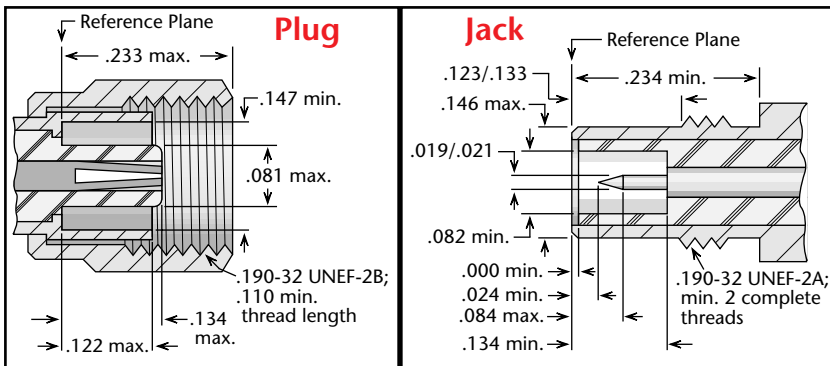
**Female Contacts:** Beryllium Copper per ASTM B196.

**Contact Plating:** Gold per MIL-G-45204.

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

**Other Metal Parts:** Brass per ASTM B16, plated: Gold per MIL-G-45208, or Nickel per QQ-N-290.

### SMC Interfaces\*\*

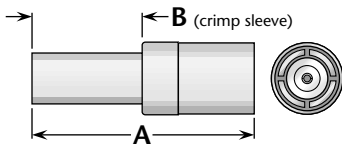


All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

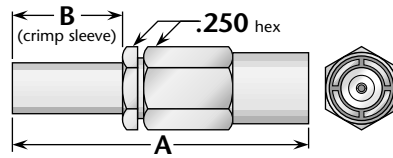
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

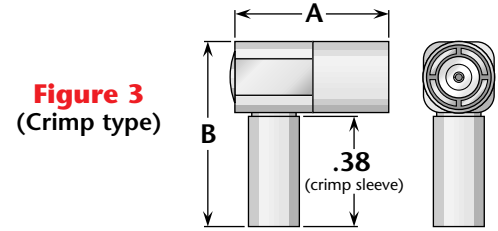
## Straight and Right Angle Plugs—For Flexible Cable



**Figure 1**  
(Crimp type)



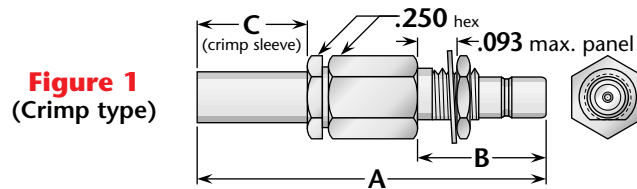
**Figure 2**  
(Crimp type)



**Figure 3**  
(Crimp type)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
9	1	.80	.38	Gold	Gold	2403-037-G000-2	B/28
9	1	.80	.38	Nickel	Gold	2403-037-N000-2	B/28
9	2	1.03	.38	Gold	Gold (C)	2402-037-G001	***
9	2	1.03	.38	Nickel	Gold (C)	2402-037-N001	***
9	3	.52	.63	Gold	Gold (C)	2407-037-G001	B/29
9	3	.52	.63	Nickel	Gold (C)	2407-037-N001	B/29
10	1	.80	.38	Gold	Gold	2403-100-G000	B/28
10	1	.80	.38	Nickel	Gold	2403-100-N000	B/28
10	2	1.03	.38	Gold	Gold (C)	2402-100-G001	***
10	2	1.03	.38	Nickel	Gold (C)	2402-100-N001	***
10	3	.52	.63	Gold	Gold (C)	2407-100-G001	B/29
10	3	.52	.63	Nickel	Gold (C)	2407-100-N001	B/29
11	1	.80	.38	Gold	Gold	2403-038-G000-1	***
11	1	.80	.38	Nickel	Gold	2403-038-N000-1	***
11	2	1.03	.38	Gold	Gold (C)	2402-038-G001	***
11	2	1.03	.38	Nickel	Gold (C)	2402-038-N001	***
11	3	.52	.63	Gold	Gold (C)	2407-038-G001-1	B/29
11	3	.52	.63	Nickel	Gold (C)	2407-038-N001-1	B/29

## Bulkhead Jack—For Flexible Cable



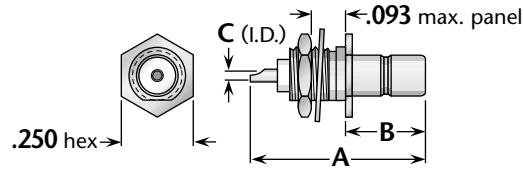
**Figure 1**  
(Crimp type)

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
9	1	1.17	.426	.38	68	Gold	Gold (C)	2419-037-G681	***
9	1	1.17	.426	.38	68	Nickel	Gold (C)	2419-037-N681	***
10	1	1.17	.426	.38	68	Gold	Gold (C)	2419-100-G681	***
10	1	1.17	.426	.38	68	Nickel	Gold (C)	2419-100-N681	***
11	1	1.17	.426	.38	68	Gold	Gold (C)	2419-038-G681	***
11	1	1.17	.426	.38	68	Nickel	Gold (C)	2419-038-N681	***

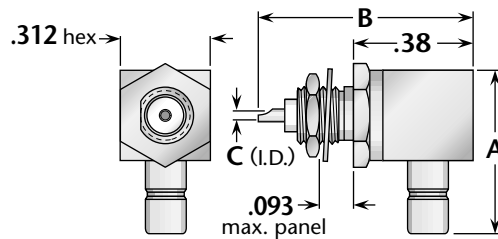
See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.



## Bulkhead Jack Receptacles



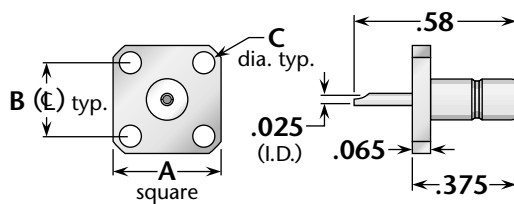
**Figure 1**



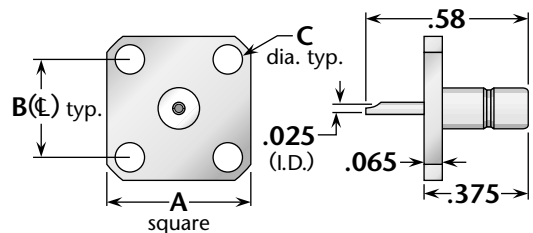
**Figure 2**

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.59	.265	.035	68	Gold	Gold (C)	2420-000-G681
1	.59	.265	.035	68	Nickel	Gold (C)	2420-000-N681
2	.59	.75	.022	68	Gold	Gold (C)	2422-000-G681
2	.59	.75	.022	68	Nickel	Gold (C)	2422-000-N681

## Panel Jack Receptacle



**Figure 1**  
(3/8" square flange)



**Figure 2**  
(1/2" square flange)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.232	.093	91A	Gold	Gold (C)	2413-000-G911
1	.375	.232	.093	91A	Nickel	Gold (C)	2413-000-N911
2	.500	.340	.102	05	Gold	Gold (C)	2413-000-G051
2	.500	.340	.102	05	Nickel	Gold (C)	2413-000-N051

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.

## Printed-Circuit Board Receptacles

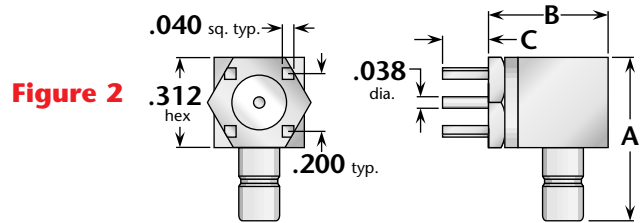
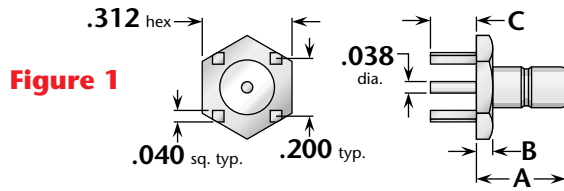
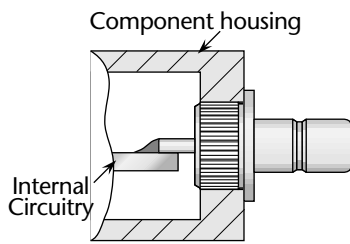


Figure	Dimensions			Max. Board	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	.300	.060	.155	.100	PCB06	Gold	Gold (C)	2468-000-G001
1	.300	.060	.155	.100	PCB06	Nickel	Gold (C)	2468-000-N001
2	.59	.375	.155	.100	PCB06	Gold	Gold (C)	2470-000-G00E
2	.59	.375	.155	.100	PCB06	Nickel	Gold (C)	2470-000-N00E

## PressMount Receptacles

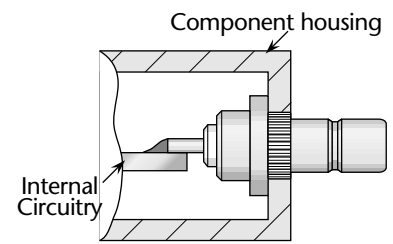
### Delta PressMount Receptacles



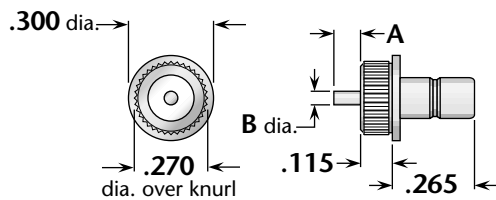
**Front mount**

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.

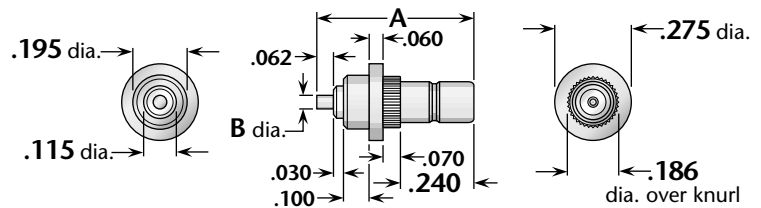
PressMounts are available for a wide variety of Delta connector series, and can be used in packages as small as the outer diameter of the connector body.



**Rear mount**



**Figure 1**  
(Post contact, front mount, stainless steel body)

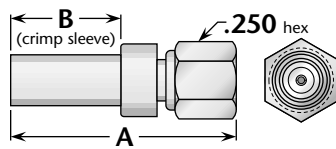


**Figure 2**  
(Post contact, rear mount, brass body)

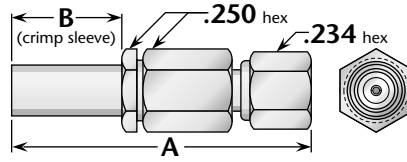
Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.062	.050	.100	.267 ±.001 dia.	Passivated	Gold (C)	2420-000-K911-1
2	.500	.060	.062	.182 ±.001 dia.	Gold	Gold (C)	2421-000-G911

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.

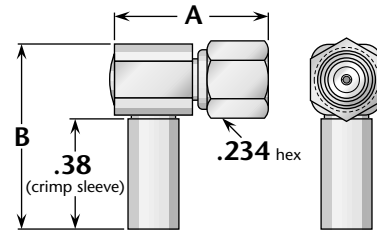
## Straight and Right Angle Plugs—For Flexible Cable



**Figure 1**  
(Crimp type)



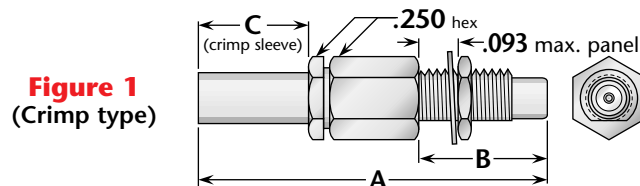
**Figure 2**  
(Crimp type)



**Figure 3**  
(Crimp type)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
9	1	.80	.38	Gold	Gold	2503-037-G000	B/28
9	1	.80	.38	Nickel	Gold	2503-037-N000	B/28
9	2	1.03	.38	Gold	Gold (C)	2502-045-G001-1	***
9	2	1.03	.38	Nickel	Gold (C)	2502-045-N001-1	***
9	3	.56	.63	Gold	Gold (C)	2507-037-G001	B/29
9	3	.56	.63	Nickel	Gold (C)	2507-037-N001	B/29
10	1	.80	.38	Gold	Gold	2503-100-G000	B/28
10	1	.80	.38	Nickel	Gold	2503-100-N000	B/28
10	2	1.03	.38	Gold	Gold (C)	2502-100-G000-1	***
10	2	1.03	.38	Nickel	Gold (C)	2502-100-N000-1	***
10	3	.56	.63	Gold	Gold (C)	2507-100-G001	B/29
10	3	.56	.63	Nickel	Gold (C)	2507-100-N001	B/29
11	1	.80	.38	Gold	Gold	2503-038-G000	B/28
11	1	.80	.38	Nickel	Gold	2503-038-N000	B/28
11	2	1.03	.38	Gold	Gold (C)	2502-038-G001-1	***
11	2	1.03	.38	Nickel	Gold (C)	2502-038-N001-1	***
11	3	.56	.63	Gold	Gold (C)	2507-038-G001	B/29
11	3	.56	.63	Nickel	Gold (C)	2507-038-N001	B/29

## Bulkhead Jack—For Flexible Cable



**Figure 1**  
(Crimp type)

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
9	1	1.17	.426	.38	68	Gold	Gold (C)	2519-037-G681	***
9	1	1.17	.426	.38	68	Nickel	Gold (C)	2519-037-N681	***
10	1	1.17	.426	.38	68	Gold	Gold (C)	2519-100-G681	***
10	1	1.17	.426	.38	68	Nickel	Gold (C)	2519-100-N681	***
11	1	1.17	.426	.38	68	Gold	Gold (C)	2519-038-G681	***
11	1	1.17	.426	.38	68	Nickel	Gold (C)	2519-038-N681	***

See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.

## Bulkhead Jack Receptacles

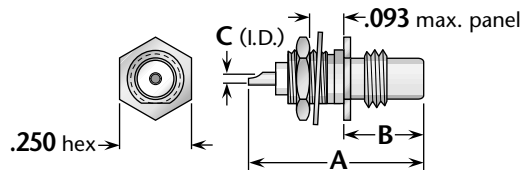
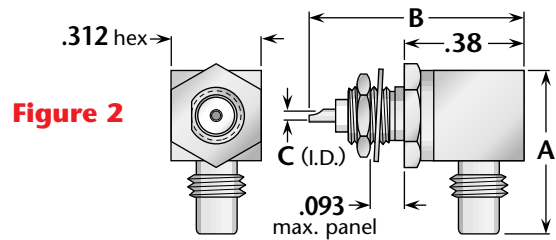

**Figure 1**

**Figure 2**

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.59	.265	.035	68	Gold	Gold (C)	2520-000-G681
1	.59	.265	.035	68	Nickel	Gold (C)	2520-000-N681
2	.59	.75	.022	68	Gold	Gold (C)	2522-000-G681
2	.59	.75	.022	68	Nickel	Gold (C)	2522-000-N681

## Panel Jack Receptacle

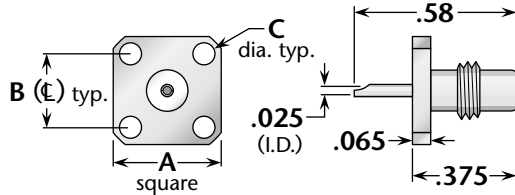
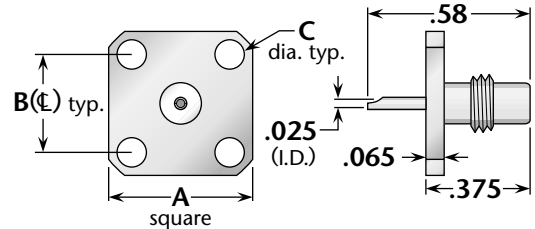

**Figure 1**  
(3/8" square flange)

**Figure 2**  
(1/2" square flange)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.232	.093	91A	Gold	Gold (C)	2513-000-G911
1	.375	.232	.093	91A	Nickel	Gold (C)	2513-000-N911
2	.500	.340	.102	05	Gold	Gold (C)	2513-000-G051
2	.500	.340	.102	05	Nickel	Gold (C)	2513-000-N051

## Printed-Circuit Board Receptacles

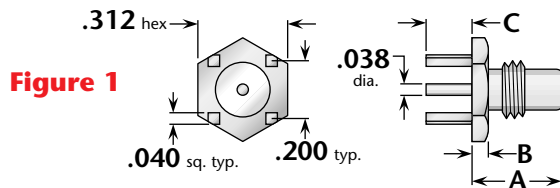
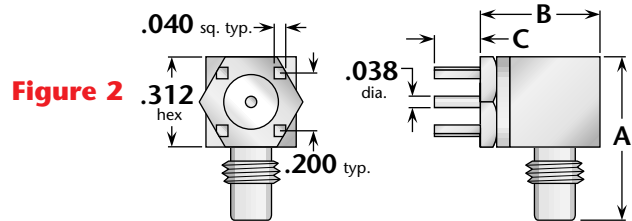

**Figure 1**

**Figure 2**

Figure	Dimensions			Max. Board	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	.300	.060	.155	.100	PCB06	Gold	Gold (C)	2568-000-G001
1	.300	.060	.155	.100	PCB06	Nickel	Gold (C)	2568-000-N001
2	.59	.375	.155	.100	PCB06	Gold	Gold (C)	2570-000-G00E
2	.59	.375	.155	.100	PCB06	Nickel	Gold (C)	2570-000-N00E

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.

## General Description

Delta TNC connectors are compact, 50Ω impedance connectors with 7/16-28 threaded coupling, similar in size to BNC connectors but with better electrical characteristics. They are best suited for use with cables in the range of .150" to .250" diameter, but are available for other cables from .090" to over .75" diameter. Many of our TNC connectors are available as MIL-PRF-39012 QPL versions. These types are listed starting on page 198. Our extensive line of TNC 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 TNC and other series are shown starting on page 176.

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

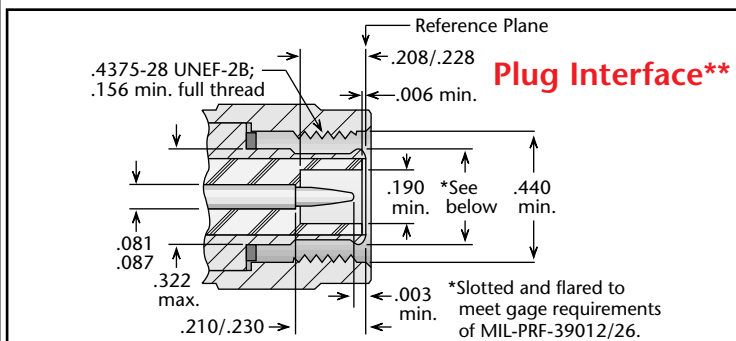
- *Heli-Grip* cable connectors for fast, reliable assembly to flexible cable without special tooling.
- *PressMount* receptacles (page 147) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- Panel receptacles with flange sizes to match the same hole pattern as standard SMA or type N connectors, letting you drill one hole pattern and mount BNC, N, SMA, TNC, or 7/16 series connectors as needed.
- TNC connectors with polarized interfaces (page 152) prevent mismatching and meet FCC Part 15.203 requirements.
- Keying baskets and keyed plugs (page 149) provide numerous polarizations in applications incorporating multiple connector pairs.

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

## TNC Configurations

Straight Cable Plugs .....	137	Bulkhead Jack Receptacles .....	146
Right Angle Cable Plugs .....	139	PressMount Receptacles.....	147
Straight Cable Jacks .....	141	Stripline Receptacles .....	147
Bulkhead Cable Jacks .....	142	Resistive Terminations.....	148
Panel Cable Jacks .....	143	Dust Caps.....	148
Panel Jack Receptacles (square flange) .....	144	Keying Baskets.....	149
Right Angle Panel Jack Receptacles .....	145	In-Series Adapters .....	150
Panel Plug Receptacles.....	145	Polarized Plugs and Jacks .....	152

## TNC Specifications\*

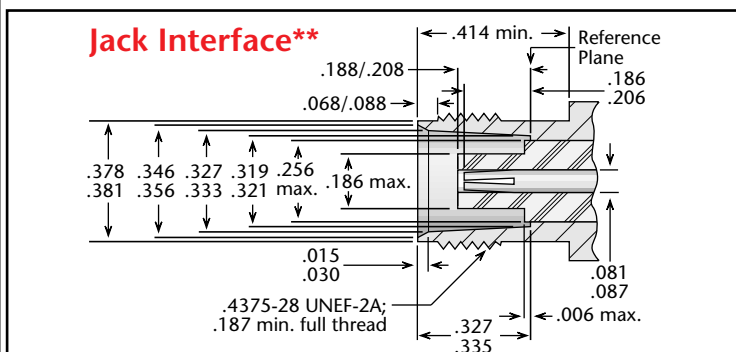


### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–11 GHz.  
**Voltage Rating:** 500 volts RMS.  
**Dielectric Withstanding Voltage:** 1,500 VRMS.  
**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 QQ-S-365, or Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, plated: Silver per QQ-S-365, or Nickel per QQ-N-290.

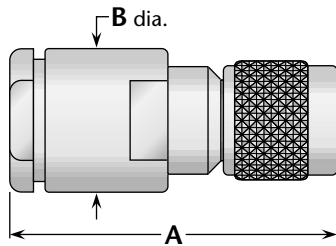


All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

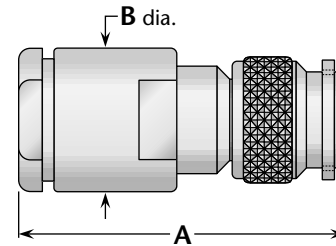
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

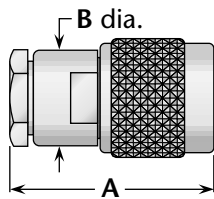
## Straight Plug—Military Clamp for Flexible Cable



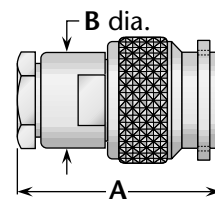
**Figure 1**  
(Standard coupling nut)



**Figure 2**  
(Safety-wire holes in coupling nut)



**Figure 3**  
(Standard coupling nut)

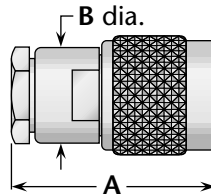
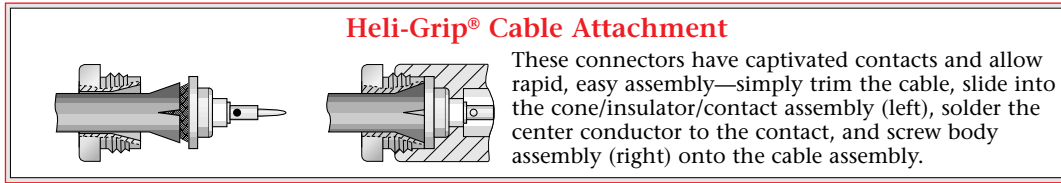


**Figure 4**  
(Safety-wire holes in coupling nut)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.66	.75	Nickel	Gold	1201-001-N000	A/01
2, 3	1	1.66	.75	Nickel	Gold	1201-004-N000	A/01
2, 3	1	1.66	.75	Nickel	Gold (C)	1201-004-N001-4	A/01
2, 3	2	1.66	.75	Nickel	Gold	1240-004-N000	A/01
2, 3	2	1.66	.75	Nickel	Gold (C)	1240-004-N001	A/01
5, 6	3	1.09	.50	Nickel	Gold	1201-015-N000	A/17
5, 6	3	1.09	.50	Nickel	Gold (C)	1201-015-N001	A/17
5, 6	4	1.09	.50	Nickel	Gold	1240-015-N000	A/17
5, 6	4	1.09	.50	Nickel	Gold (C)	1240-015-N001	A/17
7	3	1.09	.50	Nickel	Gold	1201-021-N000	A/17
7	3	1.09	.50	Nickel	Gold (C)	1201-021-N001	A/17
7	4	1.09	.50	Nickel	Gold	1240-021-N000	A/17
7	4	1.09	.50	Nickel	Gold (C)	1240-021-N001	A/17
8A	3	1.09	.50	Nickel	Gold	1201-029-N000	A/17
8A	3	1.09	.50	Nickel	Gold (C)	1201-029-N001	A/17
8B	3	1.09	.50	Nickel	Gold	1201-043-N000	A/17
8B	3	1.09	.50	Nickel	Gold (C)	1201-043-N001	A/17
9	3	1.09	.50	Nickel	Gold	1201-036-N000	A/18
9	3	1.09	.50	Nickel	Gold (C)	1201-036-N001-2	A/18
9	4	1.09	.50	Nickel	Gold	1240-036-N000	A/18
9	4	1.09	.50	Nickel	Gold (C)	1240-036-N001	A/18
11	3	1.09	.50	Nickel	Gold	1201-038-N000	A/18
11	3	1.09	.50	Nickel	Gold (C)	1201-038-N001	A/18

See page 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

**Straight Plug—Heli-Grip® for Flexible Cable**

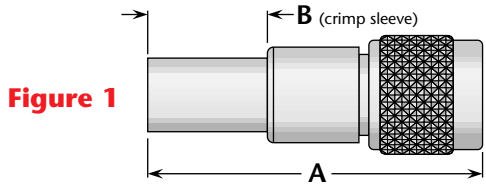


**Figure 1**

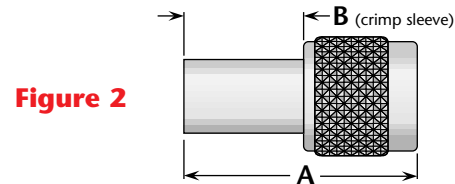
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
5, 6 <sup>§</sup>	1	1.09	.50	Nickel	Silver (C)	1201-018-N005	E/03
RG-223	1	1.09	.50	Nickel	Silver (C)	1201-015-N005	E/03
7	1	1.09	.50	Nickel	Silver (C)	1201-019-N005	E/03
8A	1	1.09	.50	Nickel	Silver (C)	1201-029-N005	E/03
8B	1	1.09	.50	Nickel	Silver (C)	1201-043-N005	E/03
9	1	1.09	.50	Nickel	Silver (C)	1201-037-N005	E/03
10	1	1.09	.50	Nickel	Silver (C)	1201-100-N005	E/03
11	1	1.09	.50	Nickel	Silver (C)	1201-038-N005	E/03

§Except RG-223/U.

**Straight Plug—Crimp Type for Flexible Cable**



**Figure 1**



**Figure 2**

See page 198 for MIL-PRF-39012 QPL version.

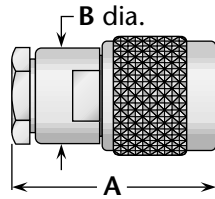
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
3A, 4	1	1.75	.63	Nickel	Gold	1203-005-N000	B/11
5	2	1.06	.50	Nickel	Gold	1203-017-N000	B/23
6	2	1.06	.50	Nickel	Gold	1203-013-N000	B/23
7	2	1.06	.50	Nickel	Gold	1203-020-N000	B/23
7	2	1.04	.50	Nickel	Silver	1203-020-N000-3*	***
7	2	1.04	.50	Nickel	Gold	1203-020-N000-5*	***
7	2	1.06	.50	Nickel	Gold (C)	1203-020-N001-3*	***

\* Crimp center contact.

See page 204 for cable groups. • Assembly procedures start on page 205.  
 (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
 \*\*\*Contact factory for cable assembly instructions.

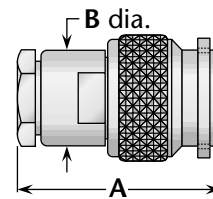


## Straight Plug—Solder-Clamp for Semi-Rigid Cable



**Figure 1**  
(Standard coupling nut)

See page 198 for MIL-PRF-39012 QPL version.

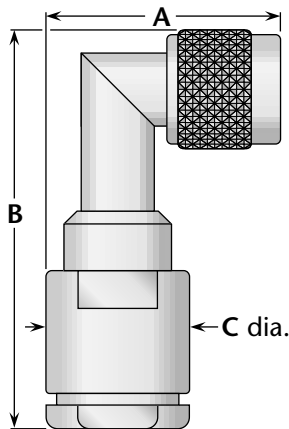


**Figure 2**  
(Safety-wire holes in coupling nut)

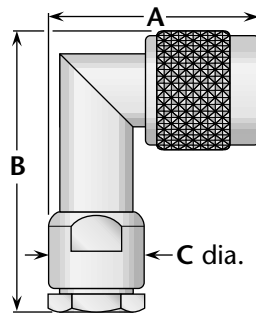
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
13	1	1.09	.50	Nickel*	Gold	1201-031-N003	F/08
13	2	1.09	.50	Nickel*	Gold	1240-031-N003	F/08
14	1	1.09	.50	Nickel*	Gold	1201-025-N003	F/07
14	2	1.09	.50	Nickel*	Gold	1240-025-N003	F/07

\* Solder ferrule is gold plated.

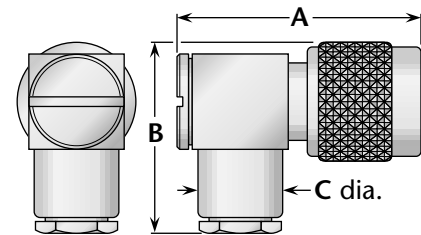
## Right Angle Plug—Military Clamp for Flexible Cable



**Figure 1**



**Figure 2**



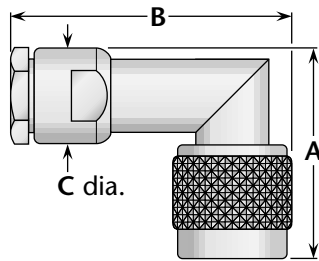
**Figure 3**

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
1	1	1.19	1.94	.75	Nickel	Gold	1204-001-N000	A/07
2, 3	1	1.19	1.94	.75	Nickel	Gold	1204-004-N000	A/07
2, 3	1	1.19	1.94	.75	Nickel	Gold (C)	1204-004-N001	A/07
5, 6	2	1.06	1.65	.50	Nickel	Gold	1204-015-N000	A/17
5, 6	2	1.06	1.65	.50	Nickel	Gold (C)	1204-015-N001	A/17
5, 6	3	1.20	1.11	.50	Nickel	Gold (C)	1205-018-N000	A/19
7	2	1.06	1.65	.50	Nickel	Gold	1204-021-N000	A/17
7	2	1.06	1.65	.50	Nickel	Gold (C)	1204-021-N001	A/17
7	3	1.20	1.11	.50	Nickel	Gold (C)	1205-021-N000	A/19
8A	3	1.20	1.11	.50	Nickel	Gold (C)	1205-029-N000	A/19
9	2	1.06	1.65	.50	Nickel	Gold	1204-036-N000	A/18
9	3	1.20	1.11	.50	Nickel	Gold (C)	1205-036-N000-1	A/19

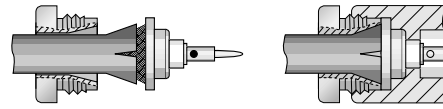
See page 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

**Right Angle Plug—Heli-Grip® for Flexible Cable**

**Figure 1**



**Heli-Grip® Cable Attachment**



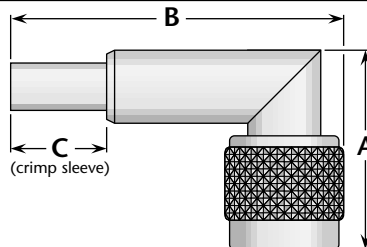
These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5, 6 <sup>§</sup>	1	1.06	1.65	.50	Nickel	Silver (C)	1204-018-N005	E/03
RG-223	1	1.06	1.65	.50	Nickel	Silver (C)	1204-015-N005	E/03
7	1	1.06	1.65	.50	Nickel	Silver (C)	1204-019-N005	E/03
8A	1	1.06	1.65	.50	Nickel	Silver (C)	1204-029-N005	E/03
8B	1	1.06	1.65	.50	Nickel	Silver (C)	1204-043-N005	E/03
9	1	1.06	1.65	.50	Nickel	Silver (C)	1204-037-N005	E/03
10	1	1.06	1.65	.50	Nickel	Silver (C)	1204-100-N005	E/03
11	1	1.06	1.65	.50	Nickel	Silver (C)	1204-038-N005	E/03

§Except RG-223/U.

**Right Angle Plug—Crimp Type for Flexible Cable**

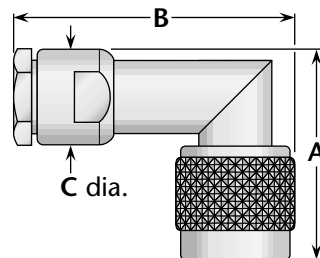
**Figure 1**



Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5	1	1.03	1.72	.50	Nickel	Gold	1207-017-N000	B/02
6	1	1.03	1.72	.50	Nickel	Gold	1207-015-N000	B/02
7	1	1.03	1.72	.50	Nickel	Gold	1207-020-N000	B/02

**Right Angle Plug—Solder-Clamp for Semi-Rigid Cable**

**Figure 1**

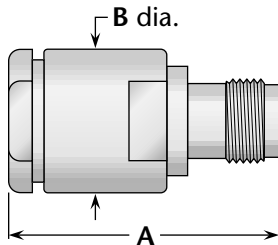


\* Solder ferrule is gold plated.

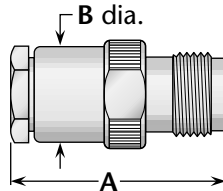
Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
13	1	1.06	1.65	.50	Nickel*	Gold	1204-031-N003	F/08
14	1	1.06	1.65	.50	Nickel*	Gold	1204-025-N003	F/07

See page 204 for cable groups. • Assembly procedures start on page 205.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

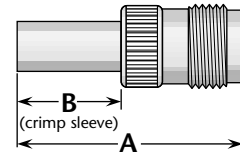
## Straight Jacks—For Flexible and Semi-Rigid Cable



**Figure 1**



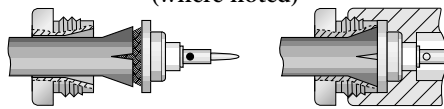
**Figure 2**



**Figure 3**

See page 199 for MIL-PRF-39012 QPL versions.

### 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 the cable assembly.

### Military Clamp for Flexible Cable

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.75	.75	Nickel	Gold	1208-001-N000	A/20
2, 3	1	1.75	.75	Nickel	Gold	1208-004-N000	A/20
5, 6	2	1.16	.50	Nickel	Gold	1208-015-N000	A/17
5, 6	2	1.16	.50	Nickel	Gold (C)	1208-015-N001	A/17
7	2	1.16	.50	Nickel	Gold	1208-021-N000	A/17
7	2	1.16	.50	Nickel	Gold (C)	1208-021-N001	A/17
9	2	1.16	.50	Nickel	Gold	1208-036-N000	A/18
9	2	1.16	.50	Nickel	Gold (C)	1208-036-N001	A/18
11	2	1.16	.50	Nickel	Gold	1208-038-N000	A/18

### Heli-Grip for Flexible Cable

5, 6 <sup>§</sup>	2	1.16	.50	Nickel	Silver (C)	1208-018-N005-1	E/03
RG-223	2	1.16	.50	Nickel	Silver (C)	1208-015-N005	E/03
7	2	1.16	.50	Nickel	Silver (C)	1208-019-N005	E/03
8A	2	1.16	.50	Nickel	Silver (C)	1208-029-N005	E/03
8B	2	1.16	.50	Nickel	Silver (C)	1208-043-N005	E/03
9	2	1.16	.50	Nickel	Silver (C)	1208-037-N005	E/03
10	2	1.16	.50	Nickel	Silver (C)	1208-100-N005	E/03
11	2	1.16	.50	Nickel	Silver (C)	1208-038-N005	E/03

### Crimp Type for Flexible Cable

5	3	1.16	.50	Nickel	Gold	1210-017-N000	B/05
6	3	1.16	.50	Nickel	Gold	1210-013-N000	B/05
7	3	1.16	.50	Nickel	Gold	1210-020-N000	B/05
7	3	1.06	.41	Nickel	Silver	1210-020-N001**	***

### Solder-Clamp for Semi-Rigid Cable

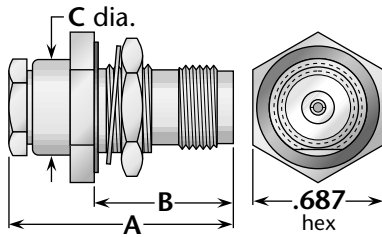
13	2	1.16	.50	Nickel*	Gold	1208-031-N003	F/08
14	2	1.16	.50	Nickel*	Gold	1208-025-N003	F/07

<sup>§</sup>Except RG-223/U.

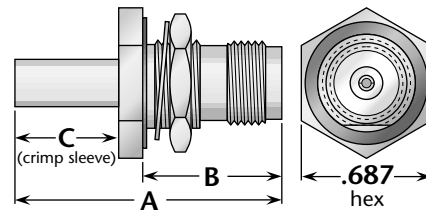
\*Solder ferrule is gold plated.

See page 204 for cable groups. • Assembly procedures start on page 205.  
 (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
 \*\*Indicates crimp center contact. • \*\*\*Contact factory for cable assembly instructions.

## Bulkhead Jacks—For Flexible and Semi-Rigid Cable



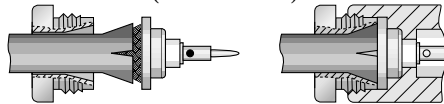
**Figure 1**  
(Rear mount)



**Figure 2**  
(Rear mount)

See page 199 for MIL-PRF-39012 QPL versions.

### 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 the cable assembly.

### Military Clamp for Flexible Cable

Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
5, 6	1	1.16	.68	.50	59	.11	Nickel	Gold	1216-015-N590	A/17
5, 6	1	1.16	.68	.50	59	.11	Nickel	Gold (C)	1216-015-N591	A/17
5, 6	1	1.16	.81	.50	59	.24	Nickel	Gold (C)	1216-015-N59E	A/17
7	1	1.16	.68	.50	59	.11	Nickel	Gold	1216-021-N590-2	A/17
7	1	1.16	.68	.50	59	.11	Nickel	Gold (C)	1216-021-N591	A/17
7	1	1.16	.81	.50	59	.24	Nickel	Gold (C)	1216-021-N59E	A/17
9	1	1.16	.68	.50	59	.11	Nickel	Gold	1216-036-N590	A/17
9	1	1.16	.68	.50	59	.11	Nickel	Gold (C)	1216-036-N591-5	A/18
11	1	1.16	.68	.50	59	.11	Nickel	Gold	1216-038-N590-2	A/18
11	1	1.16	.68	.50	59	.11	Nickel	Gold (C)	1216-038-N591-1	A/18

### Heli-Grip for Flexible Cable

5, 6 <sup>§</sup>	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1216-018-N595	E/03
RG-223	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1216-015-N595-1	E/03
7	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1216-019-N595	E/03
8A	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1216-029-N595	E/03
8B	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1216-043-N595	E/03
9	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1216-037-N595	E/03
10	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1216-100-N595-2	E/03
11	1	1.16	.81	.50	59	.24	Nickel	Silver (C)	1216-038-N595	E/03

### Crimp Type for Flexible Cable

5	2	1.31	.68	.50	59	.11	Nickel	Gold	1219-017-N590	B/13
6	2	1.31	.68	.50	59	.11	Nickel	Gold	1219-013-N590-2	B/13
7	2	1.31	.68	.50	59	.11	Nickel	Gold	1219-020-N590	B/13

### Solder-Clamp for Semi-Rigid Cable

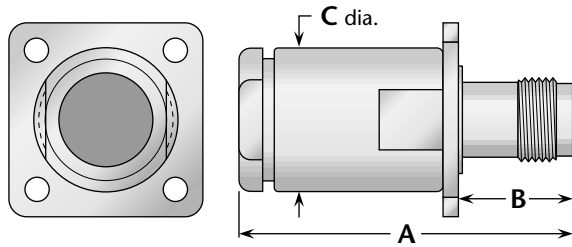
13	1	1.16	.68	.50	59	.11	Nickel*	Gold	1216-031-N593	F/08
14	1	1.16	.68	.50	59	.11	Nickel*	Gold	1216-025-N593	F/07

<sup>§</sup>Except RG-223/U.

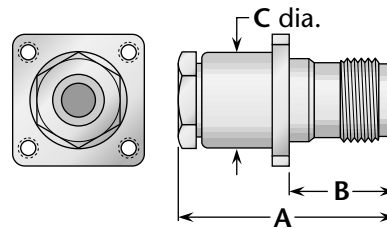
\* Solder ferrule is gold plated.

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Panel Jacks—For Flexible and Semi-Rigid Cable



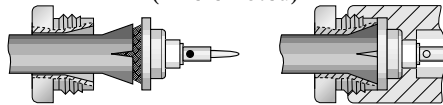
**Figure 1**



**Figure 2**

See page 200 for MIL-PRF-39012 QPL version.

### 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 the 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	1.75	.63	.75	33	Nickel	Gold	1211-001-N330	A/20
2, 3	1	1.75	.63	.75	33	Nickel	Gold	1211-004-N330	A/20
5, 6	2	1.16	.55	.50	07	Nickel	Gold	1211-015-N070	A/17
5, 6	2	1.16	.55	.50	07	Nickel	Gold (C)	1211-015-N071	A/17
7	2	1.16	.55	.50	07	Nickel	Gold	1211-021-N070	A/17
7	2	1.16	.55	.50	07	Nickel	Gold (C)	1211-021-N071	A/17
9	2	1.16	.55	.50	07	Nickel	Gold	1211-036-N070	A/18
9	2	1.16	.55	.50	07	Nickel	Gold (C)	1211-036-N071	A/18
11	2	1.16	.55	.50	07	Nickel	Gold	1211-038-N070	A/18

### Heli-Grip for Flexible Cable

5, 6 <sup>§</sup>	1	1.16	.55	.50	07	Nickel	Silver (C)	1211-018-N075-1	E/03
RG-223	1	1.16	.55	.50	07	Nickel	Silver (C)	1211-015-N075	E/03
7	1	1.16	.55	.50	07	Nickel	Silver (C)	1211-019-N075	E/03
8A	1	1.16	.55	.50	07	Nickel	Silver (C)	1211-029-N075	E/03
8B	1	1.16	.55	.50	07	Nickel	Silver (C)	1211-043-N075	E/03
9	1	1.16	.55	.50	07	Nickel	Silver (C)	1211-037-N075	E/03
10	1	1.16	.55	.50	07	Nickel	Silver (C)	1211-100-N075	E/03
11	1	1.16	.55	.50	07	Nickel	Silver (C)	1211-038-N075	E/03

### Solder-Clamp for Semi-Rigid Cable

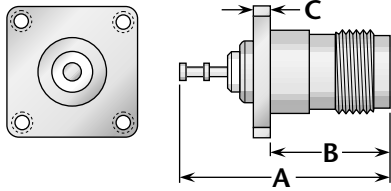
13	1	1.16	.55	.50	07	Nickel*	Gold	1211-031-N073	F/08
14	1	1.16	.55	.50	07	Nickel*	Gold	1211-025-N073	F/07

<sup>§</sup>Except RG-223/U.

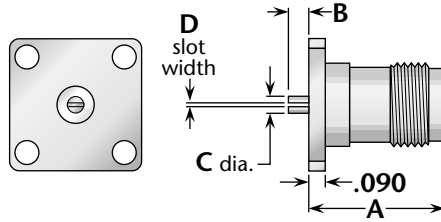
\* Solder ferrule is gold plated.

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

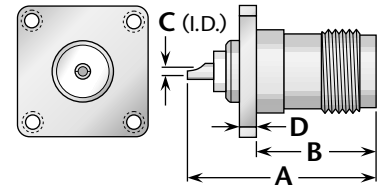
## Panel Jack Receptacles—Square Flange



**Figure 1**  
(Turret contact)

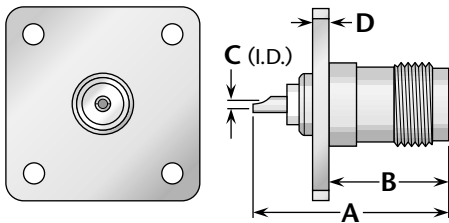


**Figure 2**  
(Slotted contact)

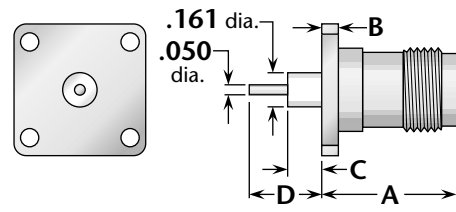


**Figure 3**  
(Solder pot contact)

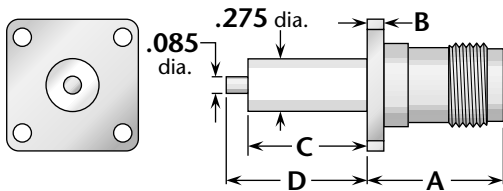
See page 201 for  
MIL-PRF-39012 QPL version.



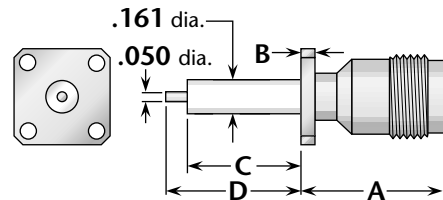
**Figure 4**  
(Solder pot contact, 1" square flange,  
interchangeable with type N standard flange size)



**Figure 5**  
(Post contact)



**Figure 6**  
(Post contact)

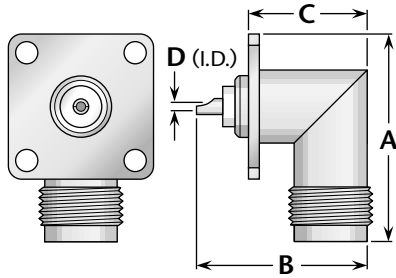


**Figure 7**  
(Post contact, 1/2" square flange,  
interchangeable with SMA standard flange size)

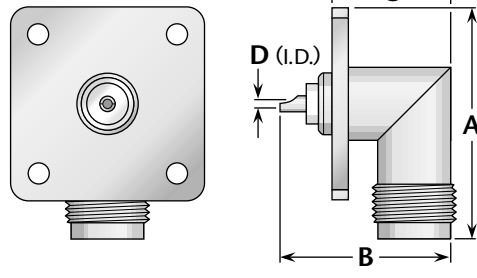
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.63	.090	—	07	Nickel	Silver (C)	1212-000-N070
2	.715	.050	.085	.012/.017	09	Nickel	Gold (C)*	1243-000-F09E-1
2	.715	.050	.085	.036/.040	09	Nickel	Gold (C)*	1243-000-F09E-2
3	1.06	.63	.062	.090	07	Nickel	Gold (C)	1213-000-N071
3	1.06	.63	.062	.090	08	Nickel	Gold (C)	1213-000-N080
3	1.06	.63	.062	.090	09	Nickel	Gold (C)	1213-000-N090
3	1.06	.63	.062	.090	18	Nickel	Gold (C)	1213-000-N180
4	1.06	.63	.062	.080	33	Nickel	Gold (C)	1213-000-N330
5	.715	.090	.175	.375	09	Nickel	Gold (C)	1258-000-N091-9
6	.750	.080	.000	1.25	18	Nickel	Gold (C)	1258-000-N181
6	.750	.080	.590	.705	18 <sup>§</sup>	Nickel	Gold (C)*	1258-000-N181-9
7	.750	.080	.590	.705	05	Nickel	Gold (C)	1258-000-N051

(C) in contact plating column indicates captive contact. • \*Indicates epoxy-captivated contact.  
<sup>§</sup>Flange #18 except with .125 dia. mounting holes. • See page 6 for alternate body plating information.  
 See page 203 for mounting dimensions. • All items are available with other flange sizes and contact configurations.

## Right Angle Panel Jack Receptacle—Square Flange



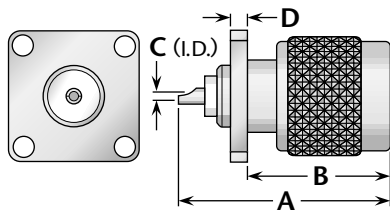
**Figure 1**  
(Solder pot contact)



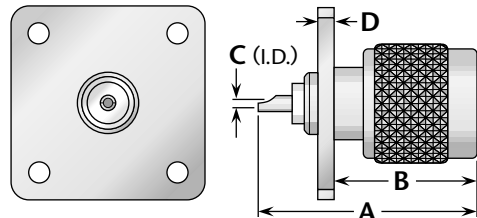
**Figure 2**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.91	.65	.062	07	Nickel	Gold (C)	1215-000-N070
1	1.06	.91	.65	.062	08	Nickel	Gold (C)	1215-000-N080
1	1.09	.91	.61	.062	18	Nickel	Gold (C)	1215-000-N180
2	1.22	.91	.65	.062	33	Nickel	Gold (C)	1215-000-N330

## Panel Plug Receptacle—Square Flange



**Figure 1**  
(Solder pot contact, 3/4" square flange)



**Figure 2**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

**Figure 3**  
(Slotted contact, 11/16" square flange)

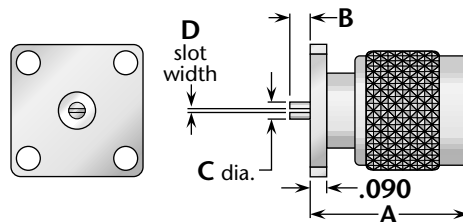
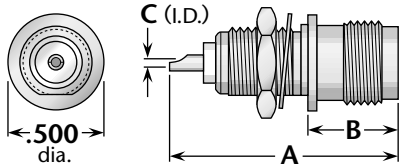


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.16	.74	.062	.090	18	Nickel	Gold (C)	1223-000-N180
2	1.16	.74	.062	.080	33	Nickel	Gold (C)	1223-000-N330
3	.83	.050	.083	.012/.017	09	Nickel	Gold (C)	1259-000-N091-1
3	.83	.050	.083	.030	09	Nickel	Gold (C)	1259-000-N091-2
3	.83	.050	.083	.040	09	Nickel	Gold (C)	1259-000-N091-3

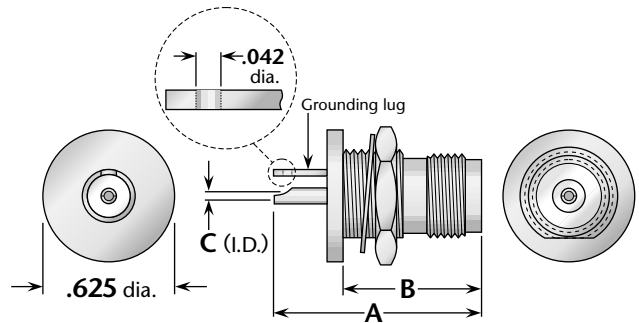
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions. • All items are available with other flange sizes and contact configurations.



**Bulkhead Jack Receptacles**

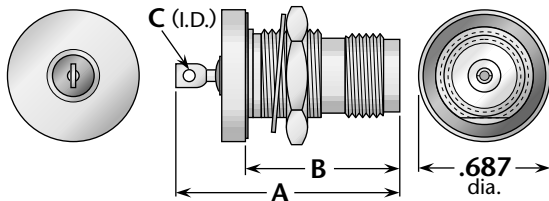


**Figure 1**  
(Front mount)

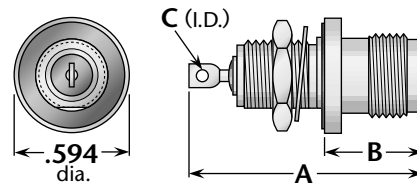


**Figure 2**  
(Rear mount, with grounding lug)

See page 200 for MIL-PRF-39012 QPL version.



**Figure 3**  
(Rear mount, hermetically sealed,  
with mounting gasket)



**Figure 4**  
(Front mount, hermetically sealed,  
with mounting gasket)

See page 201 for MIL-PRF-39012 QPL versions.

**Figure 5**  
(Right angle, with mounting gasket)

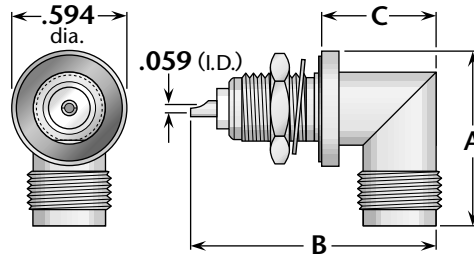
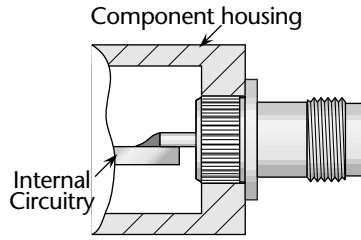


Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.06	.47	.062	.13	62	Nickel	Gold (C)	1220-000-N620
1	1.19	.47	.062	.26	62	Nickel	Gold (C)	1220-000-N62E-1
1	1.06	.47	.062	.13	65	Nickel	Gold (C)	1220-000-N650
1	1.06	.47	.062	.19	65	Nickel	Silver (C)	1220-000-N656
1	1.06	.47	.062	.19	65	Nickel	Gold (C)	1220-000-N65E
1	1.19	.47	.062	.26	65	Nickel	Gold (C)	1220-000-N65G
2	1.06	.75	.062	.16	59	Nickel	Gold (C)	1221-000-N591-3
3	1.20	.83	.062	.26	59	Nickel	Gold (C)	1221-000-N598
4	1.20	.52	.062	.26	65	Nickel	Gold (C)	1220-000-N638
5	.97	1.22	.59	.13	65	Nickel	Gold (C)	1222-000-N630-1
5	.97	1.34	.59	.25	65	Nickel	Gold (C)	1222-000-N630-2

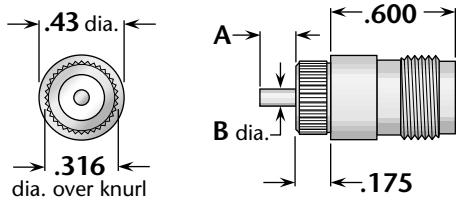
(C) in contact plating column indicates captive contact. • See page 203 for mounting dimensions.  
See page 6 for alternate body plating information. • All items are available with other flange sizes and contact configurations.

**PressMount Receptacles**

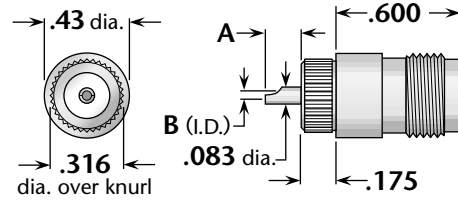
**Delta PressMount Receptacles**



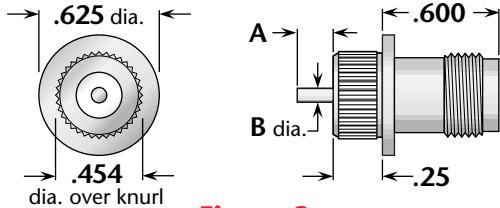
These connectors eliminate the need for complicated mounting hole patterns and mounting hardware. They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength far greater than normal mating and unmating forces. An integral shoulder provides a positive stop when mounting. PressMounts are available for a wide variety of Delta connector series, and can be used in packages as small as the outer diameter of the connector body.



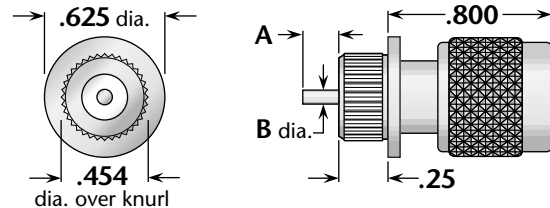
**Figure 1**  
(Post contact)



**Figure 2**  
(Solder pot contact)



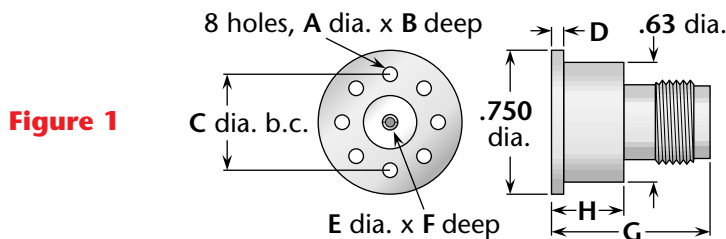
**Figure 3**  
(Post contact)



**Figure 4**  
(Plug type, post contact)

Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.062	.050	.150	.312 ±.001 dia.	Nickel	Gold (C)	1220-000-N911-2
2	.285	.062	.150	.312 ±.001 dia.	Nickel	Gold (C)	1220-000-N911-3
3	.060	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1220-000-N911-5
4	.060	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1224-000-N911-2

**Stripline Receptacles**

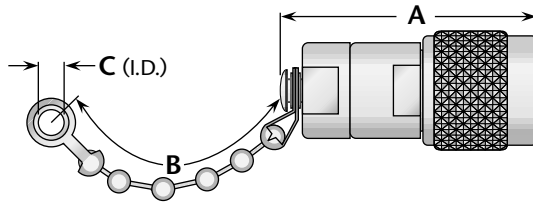


**Figure 1**

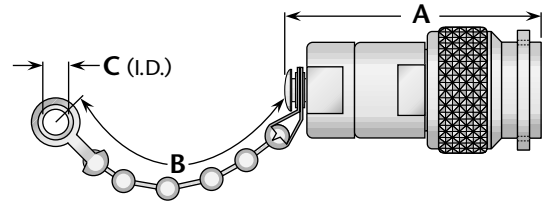
Figure	Dimensions								Plating		Delta P/N
	A	B	C	D	E	F	G	H	Body	Contact	
1	.078	.31	.500	.063	.063	.22	.828	.375	Nickel	Gold (C)	1256-000-N000-2
1	#2-56	.25	.500	.063	.063	.22	.828	.375	Nickel	Gold (C)	1256-000-N000-3

(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 Termination (Plug Type)



**Figure 1**

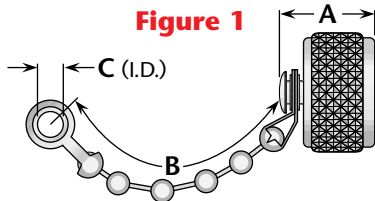


**Figure 2**

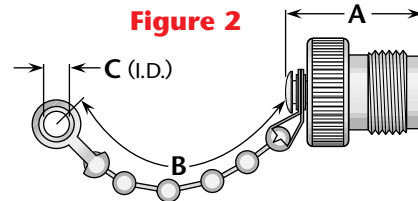
(Safety-wire holes in coupling nut)

Resistor	Fig.	Dimensions			Features	Plating		Delta P/N
		A	B	C		Body	Contact	
51Ω ±5%, 1/2 Watt	1	1.25	3.50	.144	Bead chain	Nickel	Gold (C)	1231-000-N000
51Ω ±5%, 1/2 Watt	1	1.25	—	—	No chain	Nickel	Gold (C)	1231-000-N00A
75Ω ±1%, 1/2 Watt	2	1.25	3.50	.144	Bead chain	Nickel	Gold (C)	1231-000-N000-5
75Ω ±1%, 1/2 Watt	1	1.25	—	—	No chain	Nickel	Gold (C)	1231-000-N00A-2

## Dust Caps



**Figure 1**

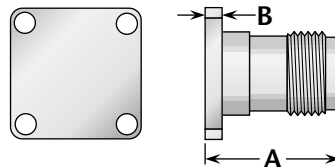


**Figure 2**

See page 198 for MIL-PRF-39012 QPL versions.

Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.53	2.25	.144	Bead chain	Nickel	—	1232-000-N000
1	.37	—	—	No chain	Nickel	—	1232-000-N00A
1	.69	2.25	.144	Bead chain / shorting type	Nickel	Gold (C)	1232-000-N00C
2	.58	3.50	.144	Bead chain	Nickel	—	1233-000-N000-2
2	.58	—	—	No chain	Nickel	—	1233-000-N00A
2	.69	2.50	.144	Bead chain / shorting type	Nickel	Gold (C)	1233-000-N00C

## Dummy Receptacle



Dimensions		Mounting Figure	Plating		Delta P/N
A	B		Body	Contact	
.715	.080	09	Nickel	—	1263-000-N090

(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions. • Caps and terminations are available with other chain styles and/or resistances.

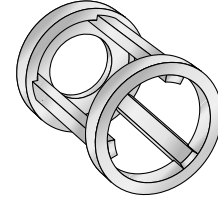
**Keying Baskets—For Polarization of Mated Pairs**

**Multiple Polarizations in a Single Installation**

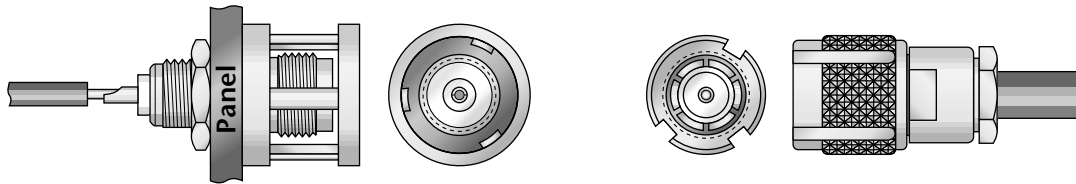
In applications with multiple connector pairs, these keying baskets polarize individual jacks so they can only be mated with plugs that have coupling nuts modified with the correct groove orientation.

The grooves in the plug coupling nuts engage the keying bars in the basket, making it impossible to mismatch pairs, even by force.

The keying baskets can be used with any TNC jack—they slide over the jack's mating threads and are secured with a Truarc retaining ring. Any Delta TNC plug can be supplied with a grooved coupling nut to match any keying basket.



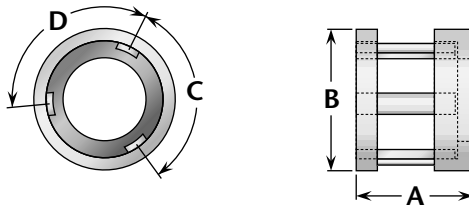
**Application Example**



**Jack with keying basket installed**

**Plug with grooved coupling nut**

**Mated pair**

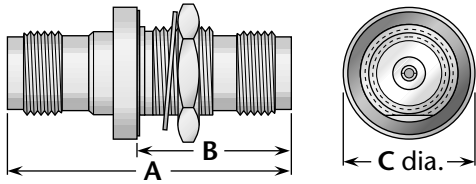


**Figure 1**

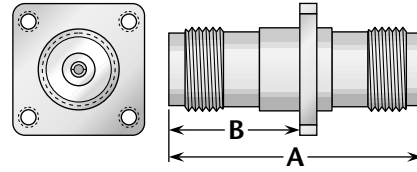
Figure	Dimensions				Plating	Delta P/N
	A	B	C	D		
1	.43	.73	72°	120°	Silver	1261-000-A00M-1
1	.43	.73	96°	96°	Silver	1261-000-A00M-2
1	.43	.73	120°	144°	Silver	1261-000-A00M-3
1	.43	.73	72°	144°	Silver	1261-000-A00M-4
1	.43	.73	120°	120°	Silver	1261-000-A00M-5
1	.43	.73	120°	72°	Silver	1261-000-A00M-6

See page 6 for alternate body plating information.

## Bulkhead and Panel Mounted Jack-Jack Adapters (Connect two plugs)



**Figure 1**  
(Bulkhead mount)

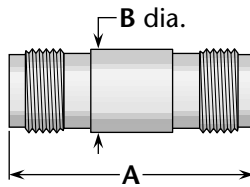


**Figure 2**  
(Panel mount)

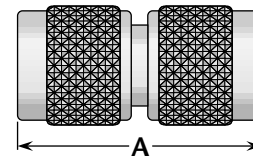
Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.28	.80	.625	.16	59	Nickel	Gold (C)	1226-000-N591-1
1	1.39	.76	.69	.19	59	Nickel	Gold (C)	1226-000-N598-2*
2	1.28	.69	—	—	07	Nickel	Silver (C)	1225-000-N070-1

\* Hermetically sealed, with mounting gasket.

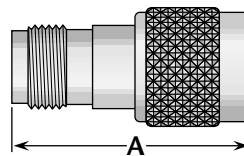
## Straight Adapters



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



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

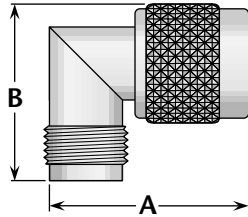


**Figure 3**  
(Straight jack-plug;  
connects one plug and one jack)

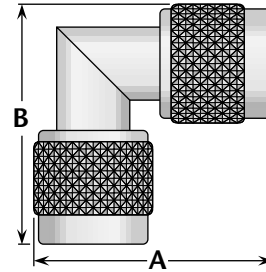
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.28	.44	Nickel	Silver (C)	1228-000-N000
2	1.25	—	Nickel	Gold (C)	1227-000-N000
3	1.22	—	Nickel	Gold (C)	1234-000-N000

(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
See page 203 for mounting dimensions.

## Right Angle Adapters



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

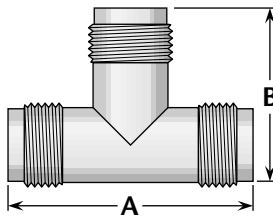


**Figure 2**  
(Right angle plug-plug;  
connects two jacks)

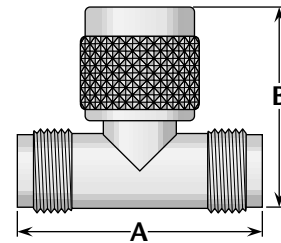
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.03	.95	Nickel	Gold (C)	1229-000-N000
2	1.25	1.25	Nickel	Gold (C)	1241-000-N000

## Tee Adapters

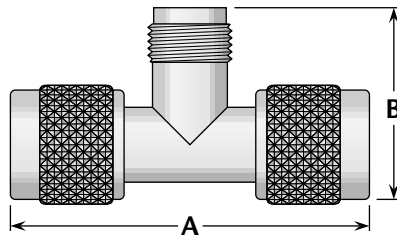
**Figure 1**  
(Tee jack-jack-jack;  
connects three plugs)



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



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



**Figure 4**  
(Tee jack-jack-plug;  
connects two plugs  
and one jack)

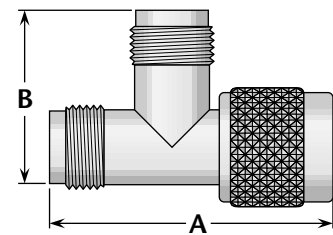
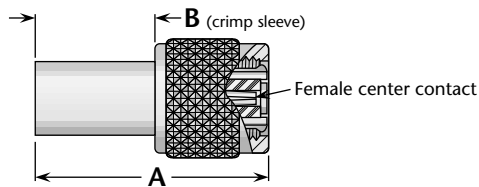


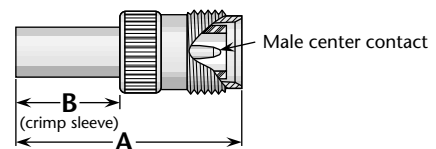
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.28	.88	Nickel	Gold (C)	1238-000-N000
2	1.28	1.03	Nickel	Gold (C)	1230-000-N000
3	1.88	.95	Nickel	Gold (C)	1242-000-N000
4	1.48	1.06	Nickel	Silver (C)	1249-000-N000

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

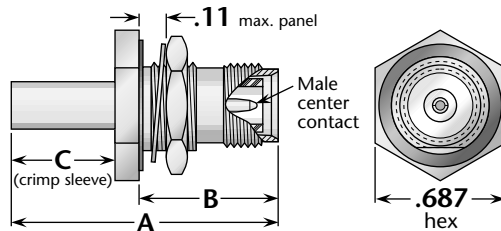
## Cable Plugs and Jacks



**Figure 1**  
(Crimp type plug)



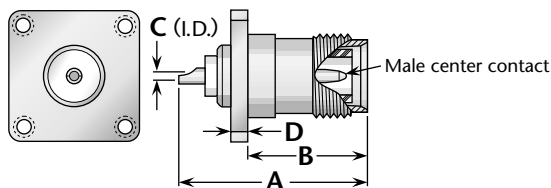
**Figure 2**  
(Crimp type jack)



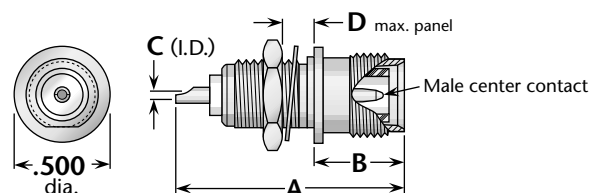
**Figure 3**  
(Crimp type bulkhead jack)

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
5	1	1.06	.50	—	—	Nickel	Gold	1203-017-N002	B/23
5	2	1.16	.50	—	—	Nickel	Gold	1210-017-N002	B/05
5	3	1.31	.68	.50	59	Nickel	Gold	1219-017-N592	B/13
6	1	1.06	.50	—	—	Nickel	Gold	1203-013-N002	B/23
6	2	1.16	.50	—	—	Nickel	Gold	1210-013-N002	B/05
6	3	1.31	.68	.50	59	Nickel	Gold	1219-013-N592	B/13

## Jack Receptacles



**Figure 1**  
(Panel jack receptacle)



**Figure 2**  
(Bulkhead jack receptacle)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.63	.062	.090	07	Nickel	Gold (C)	1213-000-N072-5
1	1.06	.63	.062	.090	09	Nickel	Gold (C)	1213-000-N092
2	1.06	.47	.062	.13	62	Nickel	Gold (C)	1220-000-N622
2	1.06	.47	.062	.19	65	Nickel	Gold (C)	1220-000-N652-1

See page 204 for cable groups. • Assembly procedures start on page 205. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



## General Description

Delta TPS connectors are subminiature, 50Ω impedance connectors with three-stud bayonet coupling. This interface design allows for quick mating and unmating, but prevents the mated pairs from rocking and improves electrical performance over that of BNC connectors. They are best suited for use with cables in the range of .100" to .250" diameter. Gold plating is standard for bodies in this series, but all Delta TPS connectors are available with nickel-plated bodies for reduced cost.

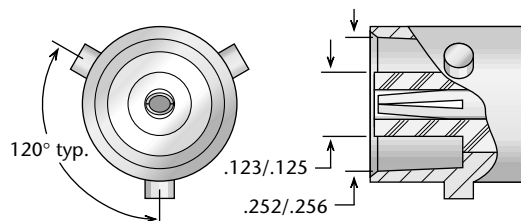
As with all other Delta connector series, we welcome your specifications for special configurations.

## TPS Configurations

Straight Cable Plugs .....	154
Right Angle Cable Plugs .....	154
Straight Cable Jacks .....	154
Bulkhead Cable Jacks .....	154
Panel Jack Receptacles (square flange) .....	155
Bulkhead Jack Receptacles .....	155
Right Angle Bulkhead Jack Receptacles .....	155
Dummy Receptacles .....	155
In-Series Adapters .....	155

## TPS Specifications\*

### Jack Interface\*\*

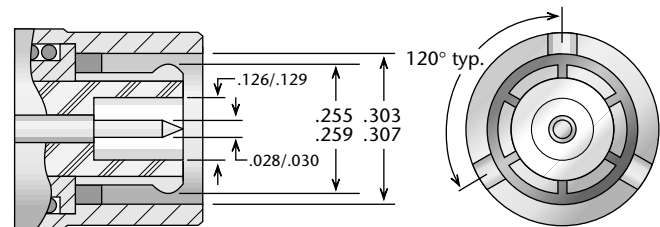


\*\*Some proportions altered to illustrate detail.

### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–10 GHz.  
**Voltage Rating:** 1,500 volts RMS.  
**Dielectric Withstanding Voltage:** 1,000 volts RMS.  
**Insulation Resistance:** 5,000 megohms.

### Plug Interface\*\*



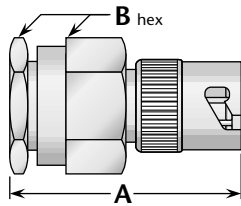
### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.  
**Male Contacts:** Brass per ASTM B16.  
**Female Contacts:** Beryllium Copper per ASTM B196.  
**Contact Plating:** Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, plated Gold per MIL-G-45204.

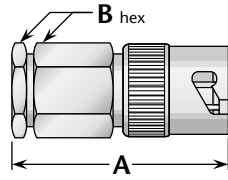
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-55235, or other applicable MIL specifications.

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

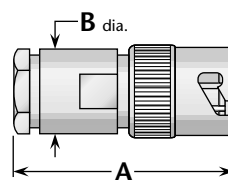
## Straight and Right Angle Plugs—For Flexible Cable



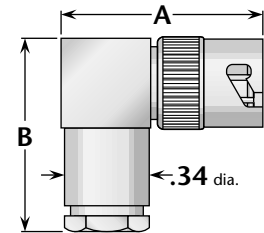
**Figure 1**  
(Wedge clamp)



**Figure 2**  
(Wedge clamp)



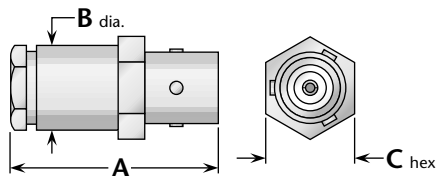
**Figure 3**  
(Military clamp)



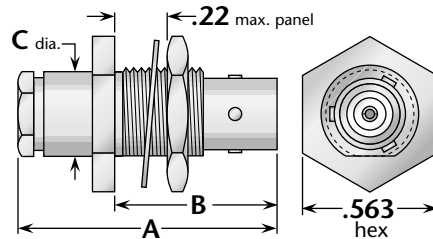
**Figure 4**  
(Military clamp)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
5	1	.94	.344	Gold	Gold	UG-1366/U	***
5	3	.90	.34	Gold	Gold	4401-018-G000	A/33
5, 6	4	.85	.73	Gold	Gold (C)	4404-015-G000	***
6	1	.94	.406	Gold	Gold	UG-1412/U	***
6	2	.94	.406	Gold	Gold (C)	4401-013-G005	***
6	3	.90	.34	Gold	Gold	4401-013-G000	A/33
7	2	.94	.50	Gold	Gold (C)	4401-019-G005	***
8A	2	.94	.344	Gold	Gold (C)	4401-029-G005	***
8B	3	.90	.34	Gold	Gold	4401-043-G000	A/33
9	2	.94	.344	Gold	Gold (C)	4401-036-G005	***
9	3	.90	.34	Gold	Gold	4401-036-G000	***
9	4	.91	.73	Gold	Gold (C)	4404-036-G000	A/34

## Straight and Bulkhead Jacks—For Flexible Cable



**Figure 1**  
(Military clamp)

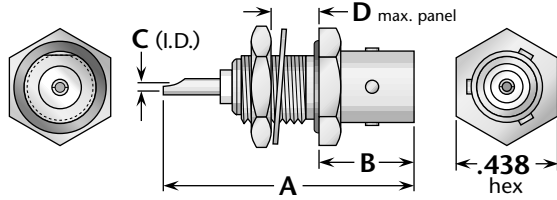


**Figure 2**  
(Rear mount, wedge clamp)

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
5, 6	1	.88	.34	.375	—	Gold	Gold	4408-013-G000	A/33
5, 6	2	1.05	.68	.41	62	Gold	Gold	UG-1413/U	***
7	1	.88	.34	.375	—	Gold	Gold	4408-019-G000	A/33
7	2	1.05	.68	.41	62	Gold	Gold	4416-019-G620	***
9	1	.88	.34	.375	—	Gold	Gold	4408-036-G000	A/33
9	2	.91	.68	.34	62	Gold	Gold (C)	4416-036-G620	***
11	2	.96	.68	.34	62	Gold	Gold (C)	4416-038-G620	***

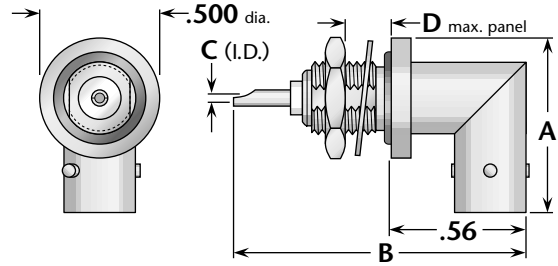
See page 204 for cable groups. • Assembly procedures start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information.

**Bulkhead and Panel Receptacles**



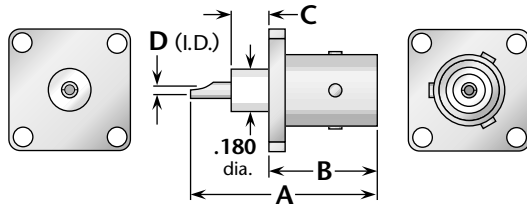
**Figure 1**

(Bulkhead jack, front mount, with mounting gasket)



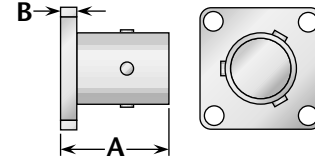
**Figure 2**

(Right angle bulkhead jack, front mount, with mounting gasket)



**Figure 3**

(Panel mount jack)

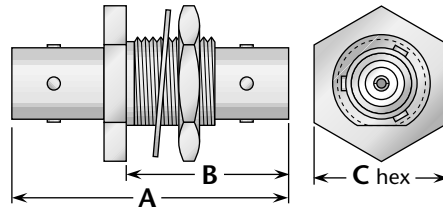


**Figure 4**

(Panel mount dummy receptacle)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.11	.40	.040	.25	66	Gold	Gold (C)	UG-1365/U
2	.73	1.28	.040	.25	84	Gold	Gold (C)	4422-000-G840-1
3	.78	.45	.160	.040	04	Gold	Gold (C)	4413-000-G041
4	.47	.085	—	—	09	Silver	—	4463-000-A000

**Bulkhead Mounted Jack-Jack Adapter  
(Connects two plugs)**



**Figure 1**

Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.20	.80	.562	.25	62	Gold	Gold (C)	4444-000-G628

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.

## General Description

Delta TRB connectors are compact, triaxial connectors with three-stud bayonet coupling. They are similar in size to BNC connectors, and can be used with a wide range of twinaxial and triaxial cables.

Their three-stud mating prevents rocking of mated pairs and ensures the low leakage and excellent shielding required in data-bus and other high-speed digital applications. Delta TRB connectors are designed and manufactured to meet the requirements of MIL-C-49142.

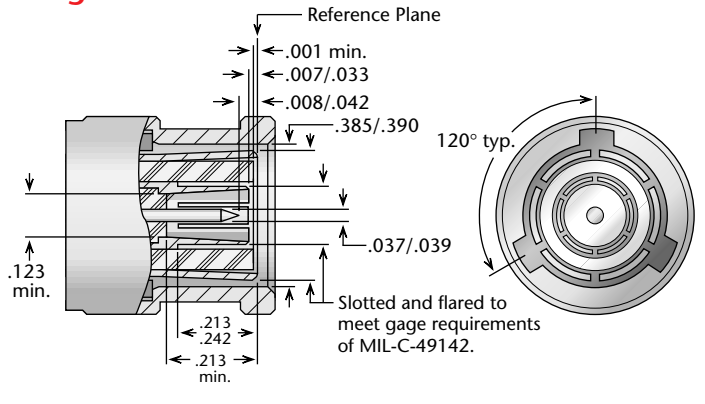
As with all other Delta connector series, we welcome your specifications for special configurations.

## TRB Configurations

Straight Cable Plugs .....	157
Bulkhead Cable Jacks .....	157
Panel Jack Receptacles (square flange) .....	157
Bulkhead Jack Receptacles .....	157

## TRB Specifications\*

### Plug Interface\*\*



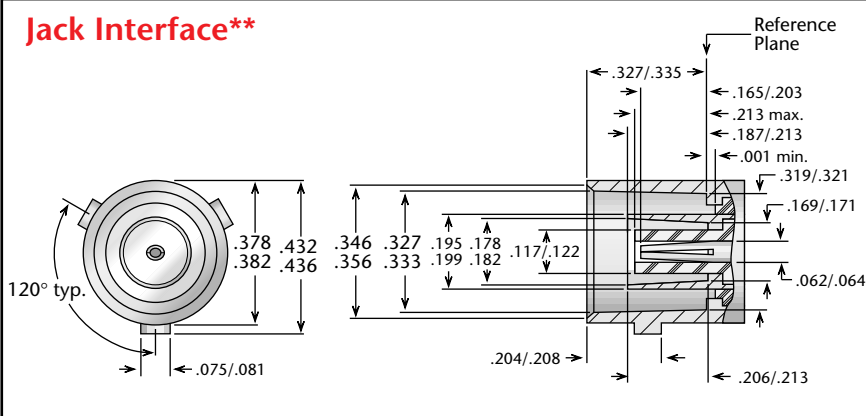
### Electrical:

**Nominal Impedance:** Nonconstant.  
**Frequency Range:** DC–500 MHz.  
**Voltage Rating:** 400 volts RMS.  
**Dielectric Withstanding Voltage:** 1,200 VRMS.  
**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 QQ-S-365, or Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, plated: Silver per QQ-S-365, or Nickel per QQ-N-290.

### Jack Interface\*\*

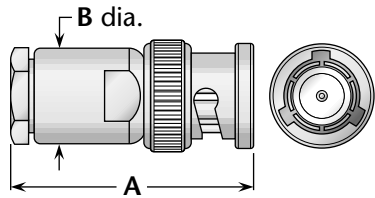


All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-49142, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

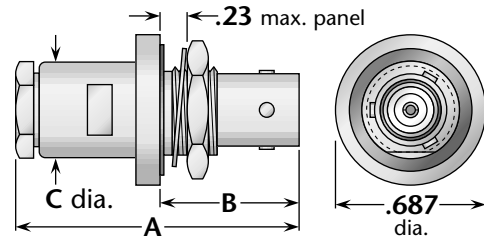
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

## Cable Connectors



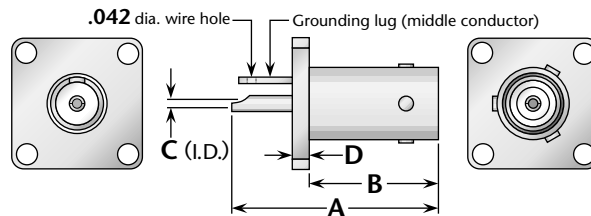
**Figure 1**  
(Straight plug, wedge-clamp hardware)



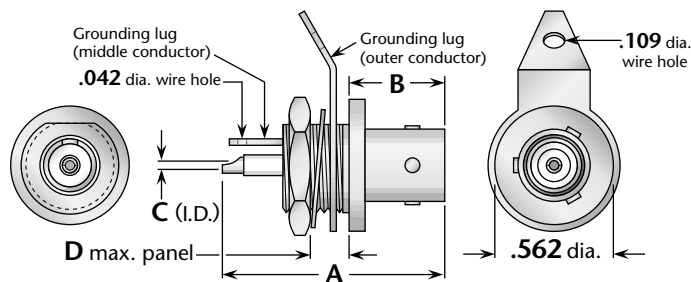
**Figure 2**  
(Bulkhead jack, wedge-clamp hardware)

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
27	1	1.31	.50	—	—	Nickel	Gold (C)	2001-099-N000	***
27	2	1.50	.80	.50	59	Nickel	Gold (C)	2016-099-N591	***
28	1	1.88	.75	—	—	Nickel	Gold (C)	2001-070-N000	***
30	1	1.31	.50	—	—	Nickel	Gold (C)	2001-235-N000	***
30	2	1.50	.80	.50	59	Nickel	Gold (C)	2016-235-N591-1	***

## Bulkhead and Panel Receptacles



**Figure 1**  
(Panel jack receptacle)



**Figure 2**  
(Bulkhead jack receptacle, front mount)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.07	.67	.040	.090	09	Nickel	Gold (C)	2013-000-N091-2
2	1.14	.49	.040	.125	62	Nickel	Gold (C)	2020-000-N621-3

Contact factory for other twinaxial/triaxial cable accommodations.  
 See page 204 for cable groups. • See page 6 for alternate body plating information. • \*\*\*Contact factory for cable assembly instructions.  
 See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.

## General Description

Delta TW34 series connectors are economical, medium-size twinaxial connectors with 3/4"-20 threaded coupling. Their characteristic 95Ω impedance makes them ideal for use with RG-22/U and similar Belden, IBM, and other twinaxial cable commonly used in LAN installations.

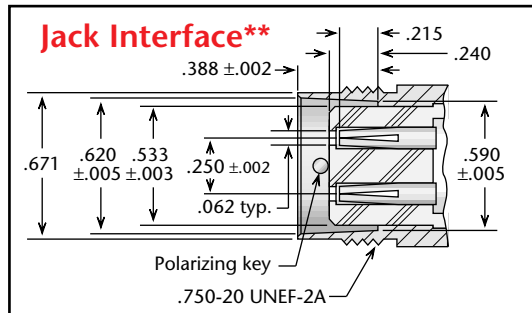
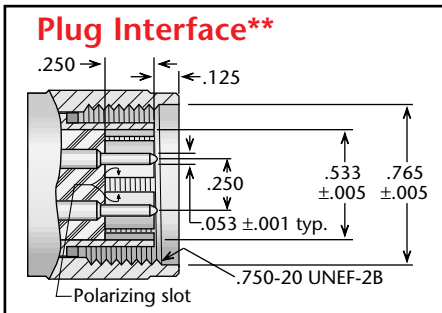
Plugs in TW34 series contain two male contacts, and jacks contain two female contacts, with mating polarization provided by a key in the jack which engages a keyway in the plug. The insulators of both plugs and jacks are marked to indicate location of the bare-copper wire of the cable conductor pair.

Delta TW34 connectors are designed and manufactured to meet the requirements of MIL-C-3655.

## TW34 Configurations

Cable Plugs.....	158	Panel Jack Receptacles (square flange) .....	160
Cable Jacks .....	159	In-Series Adapters .....	160
Bulkhead Jack Receptacles .....	159		

## TW34 Specifications\*



\*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.  
 All other specifications are in accordance with the latest issues of MIL-PRF-39012, MIL-C-3655, or other applicable MIL specifications.

### Electrical:

**Nominal Impedance:** 95 ohms.  
**Frequency Range:** DC–200 MHz (Optimal), DC–500 MHz (Useable).  
**Voltage Rating:** 500 volts RMS.  
**Dielectric Withstanding Voltage:** 1,500 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 QQ-S-365, or Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, plated: Silver per QQ-S-365, or Nickel per QQ-N-290.

## Straight and Right Angle Plugs—Clamp Type for Flexible Cable

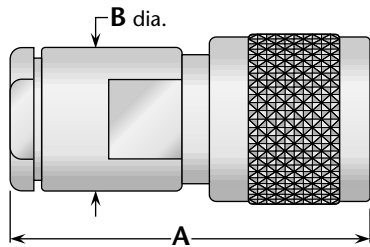


Figure 1

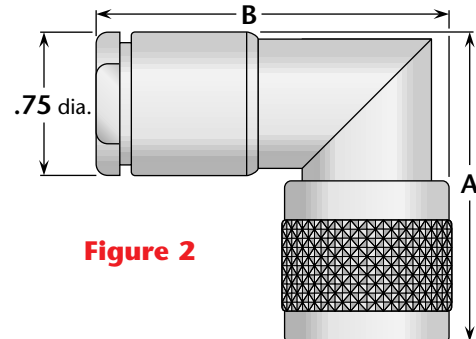
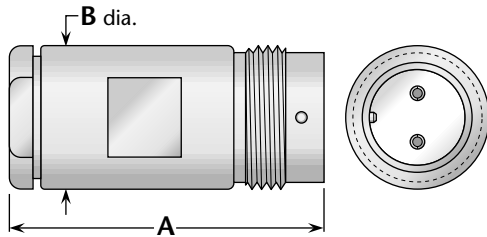


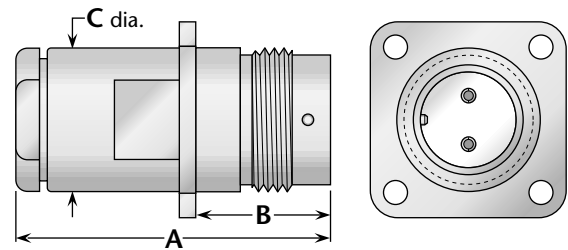
Figure 2

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	Body	Contact		
27	1	1.88	.75	Nickel	Silver	2601-099-N000	***
28	1	1.88	.75	Nickel	Silver	UG-421B/U	***
28	2	1.56	1.88	Nickel	Silver	2604-070-N000	***
29	1	1.88	.75	Nickel	Silver	2601-201-N000	***
29	2	1.56	1.88	Nickel	Silver	2604-201-N000	***

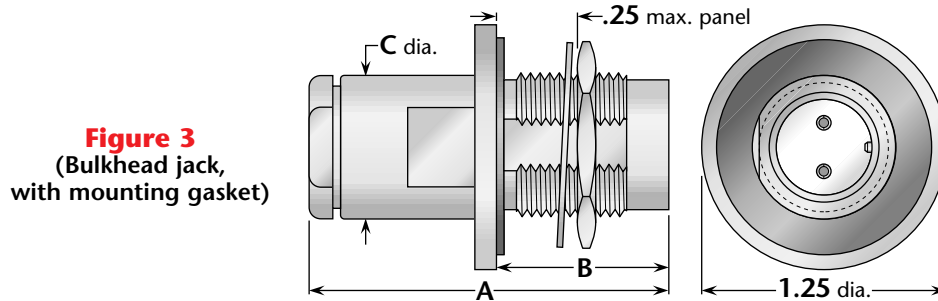
## Cable Jacks



**Figure 1**  
(Straight jack)



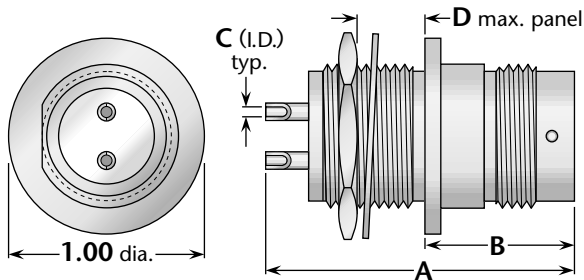
**Figure 2**  
(Panel jack)



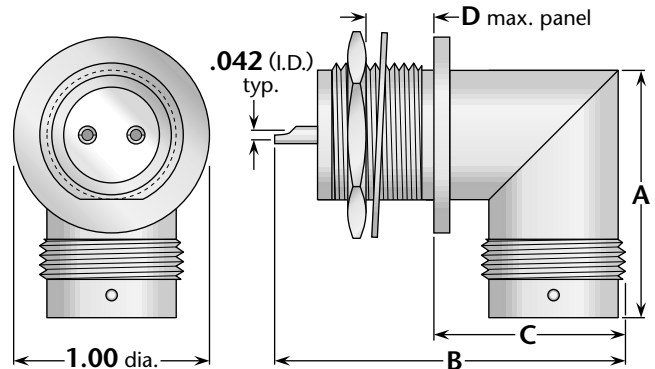
**Figure 3**  
(Bulkhead jack,  
with mounting gasket)

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
28	1	1.59	.75	—	—	Nickel	Silver	2608-070-N000	***
28	2	1.75	.69	.75	33	Nickel	Silver	UG-423B/U	***
28	3	1.75	.88	.75	51	Nickel	Silver	2616-070-N511	***
29	2	1.75	.69	.75	33	Nickel	Silver	2611-201-N331	***
29	3	1.75	.88	.75	51	Nickel	Silver	2616-201-N511	***

## Bulkhead Receptacles—Solder Pot Contact



**Figure 1**  
(Bulkhead jack receptacle, front mount)



**Figure 2**  
(Right angle bulkhead jack receptacle)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.58	.785	.042	.25	51	Nickel	Silver (C)	2620-000-N511
2	1.53	1.75	.970	.25	51	Nickel	Silver (C)	2622-000-N511

See page 204 for cable groups. • \*\*\*Contact factory for cable assembly instructions. • See page 203 for mounting dimensions. See page 6 for alternate body plating information.



## Panel Jack Receptacle—Solder Pot Contact

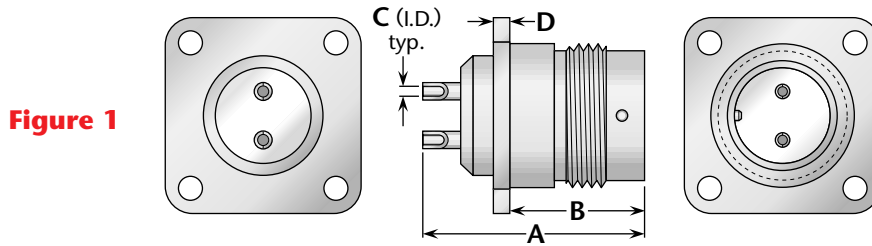
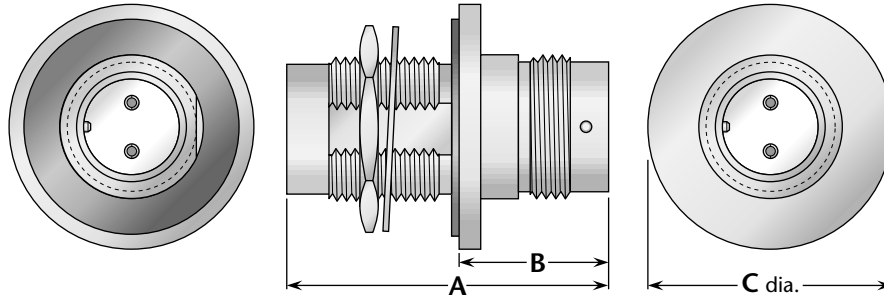


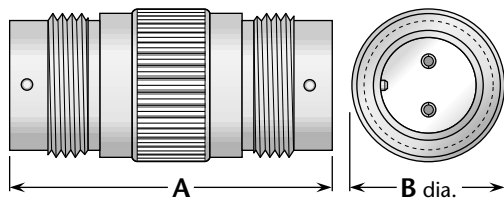
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.18	.71	.059	.080	33	Nickel	Silver (C)	UG-422/U

## Bulkhead Jack-Jack Adapter (Connects two plugs)



Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.67	.88	1.25	.25	51	Nickel	Silver (C)	UG-493A/U

## Straight and Right Angle Adapters



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

**Figure 2**  
(Right angle jack-plug; connects one plug and one jack)

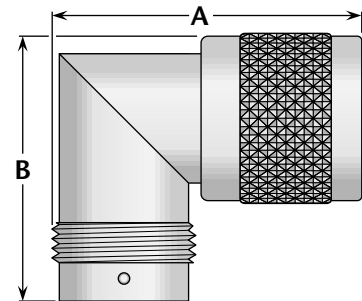


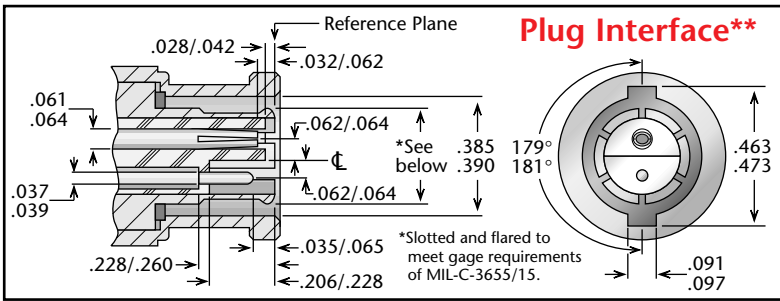
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.67	.75	Nickel	Silver (C)	2626-000-N000
2	1.56	1.38	Nickel	Silver (C)	UG-981/U

See page 203 for mounting dimensions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## General Description

Delta TWBNC connectors are compact, 78Ω impedance twinaxial connectors with two-stud bayonet coupling. They are similar in size to BNC connectors, and are best suited for use with RG-108/U and similar twinaxial cables. Both plugs and jacks in TWBNC series contain one male contact and one female contact, with mating polarization provided by a stepped insulator. Delta TWBNC connectors are designed and manufactured to meet the requirements of MIL-C-3655.

## TWBNC Specifications\*



### Electrical:

**Nominal Impedance:** 78Ω.  
**Frequency Range:** DC–500 MHz.  
**Voltage Rating:** 500 volts RMS.  
**Dielectric Withstanding Voltage:** 1,500 VRMS.  
**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 QQ-S-365, or Gold per MIL-G-45204.

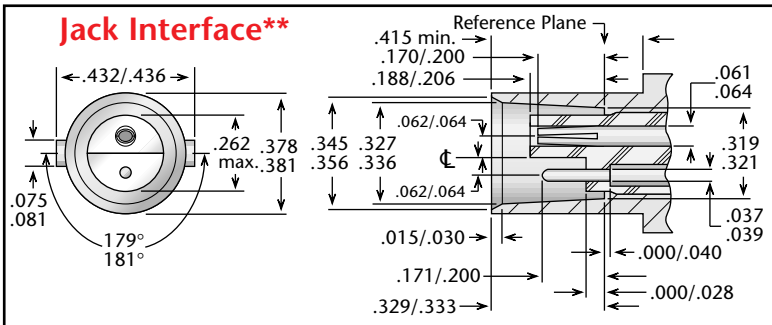
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.

**Other Metal Parts:** Brass per ASTM B16, plated: Silver per QQ-S-365, or Nickel per QQ-N-290.

All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-3655, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

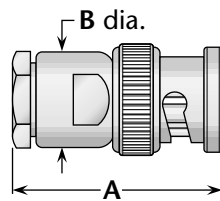
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

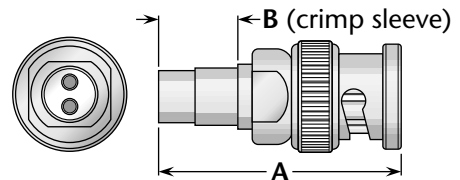


## Cable Connectors—For Flexible Cable

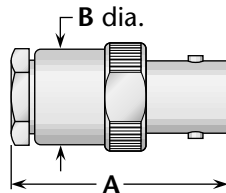
**Figure 1**  
(Cable plug, clamp type)



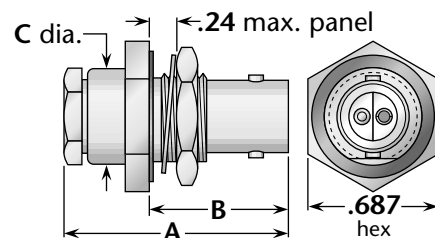
**Figure 2**  
(Cable plug, crimp type)



**Figure 3**  
(Straight jack, clamp type)



**Figure 4**  
(Bulkhead jack, rear mount, clamp type)

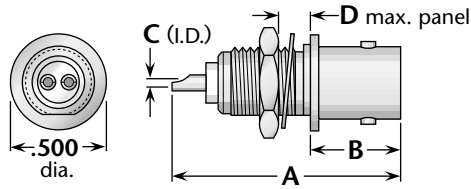


Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
27	1	1.16	.50	—	—	Nickel	Gold (C)	6101-099-N001	***
27	2	1.28	.41	—	—	Nickel	Silver (C)	6102-099-N001	***
27	3	1.13	.50	—	—	Nickel	Gold (C)	6108-099-N001	***
27	4	1.13	.81	.50	59	Nickel	Gold (C)	6116-099-N591	***

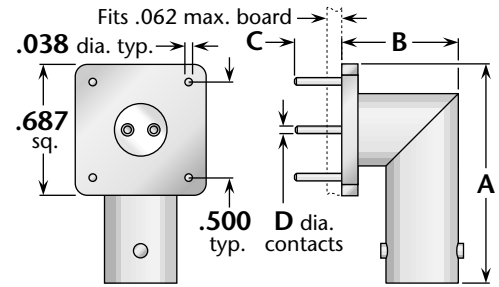
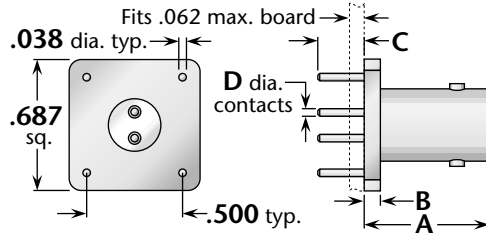


## Jack Receptacles

**Figure 1**  
(Bulkhead jack receptacle, front mount, solder pot contacts)



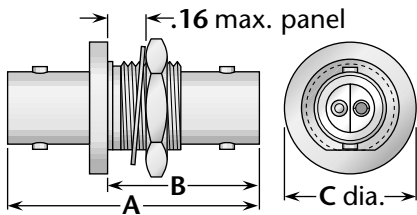
**Figure 2**  
(Straight PCB receptacle)



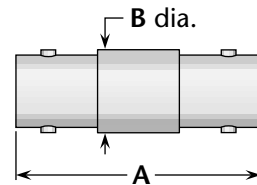
**Figure 3**  
(Right angle PCB receptacle)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.05	.47	.042	.106	65	Nickel	Gold (C)	6120-000-N651
2	.65	.085	.125	.038	PCB04	Nickel	Silver (C)	6158-000-N13P
3	1.34	.52	.125	.038	PCB04	Nickel	Gold (C)	6169-000-N13P

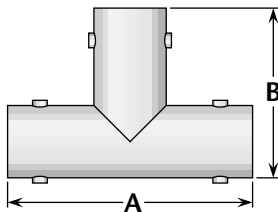
## Adapters



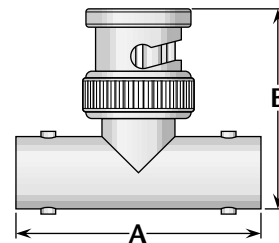
**Figure 1**  
(Straight jack-jack bulkhead adapter; connects two plugs)



**Figure 2**  
(Straight jack-jack adapter; connects two plugs)



**Figure 3**  
(Tee jack-jack-jack; connects three plugs)



**Figure 4**  
(Tee jack-jack-plug; connects two plugs and one jack)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	1.28	.80	.625	59	Nickel	Gold (C)	6126-000-N591
2	1.28	.44	—	—	Nickel	Gold (C)	6128-000-N000
3	1.28	.89	—	—	Nickel	Gold (C)	6150-000-N000
4	1.28	1.03	—	—	Nickel	Gold (C)	6130-000-N000

See page 204 for cable groups. • See page 6 for alternate body plating information. • \*\*\*Contact factory for cable assembly instructions. See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.

### General Description

Delta UHF connectors are economical, medium size, nonconstant impedance connectors with 5/8"-24 threaded coupling. These connectors are not weatherproof. UHF connectors are best suited for use in low-frequency applications. Adapters between UHF and other series are shown starting on page 174.

### UHF Specifications

#### Electrical:

**Nominal Impedance:** Nonconstant.  
**Frequency Range:** DC–200 MHz, use with caution to 500 MHz.  
**Voltage Rating:** 500 volts RMS.

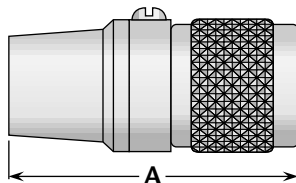
#### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.  
**Male Contacts:** Brass per ASTM B16.  
**Female Contacts:** Beryllium Copper per ASTM B196.

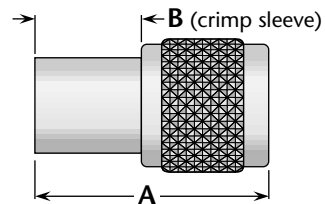
**Contact Plating:** Silver per QQ-S-365.  
**Other Metal Parts:** Brass per ASTM B16, plated Silver per QQ-S-365, or Nickel per QQ-N-290.

### Straight Plug—For Flexible Cable

**Figure 1**  
(Compression clamp)



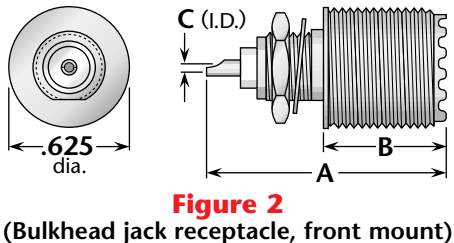
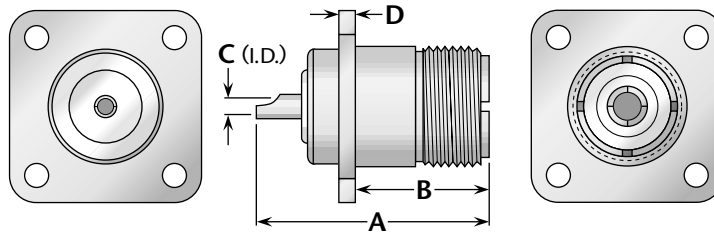
**Figure 2**  
(Crimp type)



Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.56	—	Silver	Silver (C)	PL-259A	***
3	2	1.44	.63	Nickel	Silver (C)	5003-005-N001	***
5	2	1.44	.50	Nickel	Silver (C)	5003-012-N001	***
6	2	1.44	.50	Nickel	Silver (C)	5003-013-N001	***
7	1	1.56	—	Silver	Silver (C)	UG-203/U	***

### Bulkhead and Panel Receptacles

**Figure 1**  
(Panel jack receptacle)



**Figure 3**  
(Panel plug receptacle)

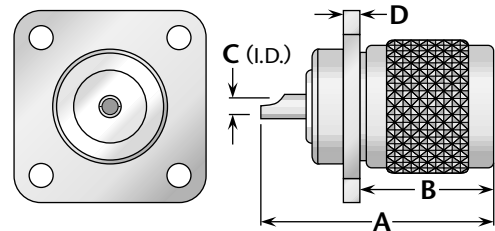


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.18	.70	.100	.080	33	Nickel	Silver (C)	5013-000-N331
2	1.25	.657	.062	.125	65	Nickel	Silver (C)	5020-000-N651
3	1.03	.72	.100	.080	33	Nickel	Silver (C)	5023-000-N331-1

See page 204 for cable groups. • \*\*\*Contact factory for cable assembly instructions. • See page 203 for mounting dimensions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## General Description

Delta 1.0 / 2.3 series jacks are compact, high-performance connectors that mate with all five standard types of 50 ohm 1.0 / 2.3 series plugs.

Designed to meet all applicable CECC and DIN requirements, they offer good electrical performance up to 10 GHz.

These connectors are ideal for use in rack-and-panel applications with appropriate slide-on mating plugs.

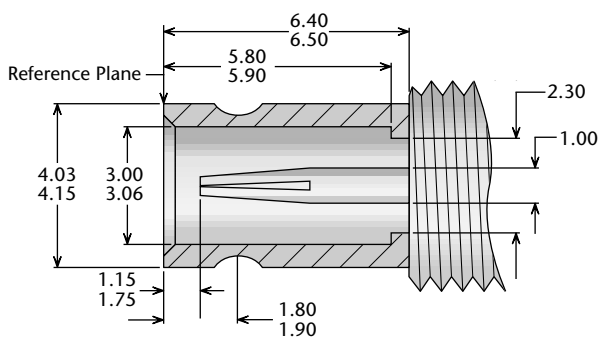
Current configurations include direct-solder bulkhead jacks for semi-rigid cable, along with two- and four-hole flange panel jacks with post contacts. New types are being added to our product line, so please call with your requirements for other 1.0 / 2.3 configurations.

## 1.0/2.3 Configurations

Straight P.C. Board Jack Receptacle .....	164
Panel Jack Receptacles.....	165
Bulkhead Cable Jacks.....	165

## 1.0/2.3 Specifications\*

### Jack Interface\*\*



\*\*Some proportions altered to illustrate detail. Dimensions in mm.

### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC-10 GHz.  
**Voltage Rating:** 250 volts RMS (dependent on cable).  
**Dielectric Withstanding Voltage:** 750 volts RMS.  
**Insulation Resistance:** 1,000 megohms.

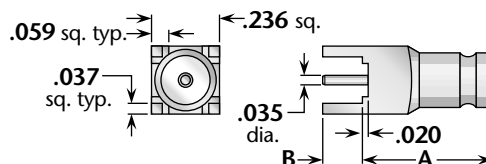
### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.  
**Female Contacts:** Beryllium Copper per ASTM B196.  
**Contact Plating:** Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM B16, gold plated per MIL-G-45204.

All other specifications are in accordance with the latest issues of CECC 22 230, DIN 41626, or DIN 47297, or other applicable specifications, and interfaces are in accordance with IEC 169-29.

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

## Printed-Circuit Board Jack Receptacle

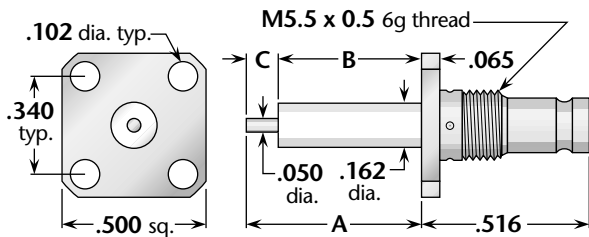


**Figure 1**  
(Straight through-hole mount)

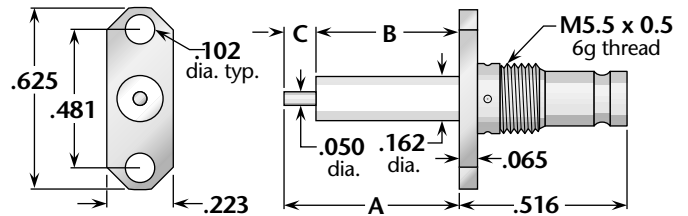
Figure	Dimensions		Max. Board	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	.433	.138	.100	PCB06	Gold	Gold (C)	4267-000-G91P-1

See page 203 for mounting figures. • (C) in contact plating column indicates captive contact.

## Panel Jack Receptacles—Post Contact



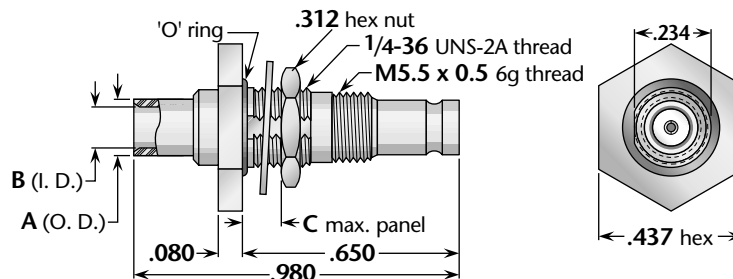
**Figure 1** (1/2" square flange)



**Figure 2** (2-hole flange)

Figure	Dimensions			Plating		Delta P/N
	A	B	C	Body	Contact	
1	.705	.590	.115	Gold	Gold (C)	4258-000-G051
1	.250	.150	.100	Gold	Gold (C)	4258-000-G051-10
2	.705	.590	.115	Gold	Gold (C)	4258-000-G921-2
2	.250	.150	.100	Gold	Gold (C)	4258-000-G921-3

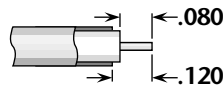
## Bulkhead Jacks—Direct Solder for Semi-Rigid Cable



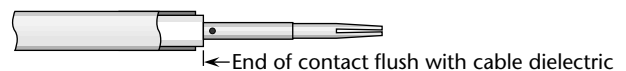
Cable Group	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
13	.184	.145	.125	67	Gold	Gold	4217-031-G673
14	.120	.088	.125	67	Gold	Gold	4217-025-G673

## Assembly Procedure

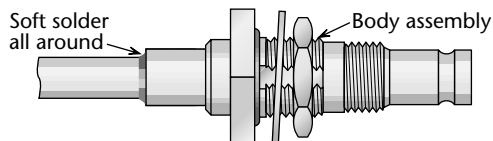
- Trim cable as shown. Remove any burrs from jacket and center conductor. Tin center conductor.



- Solder contact to center conductor, with end of contact flush with cable dielectric. Remove any excess solder from outside of contact.



- Insert cable into body until end of cable jacket stops against internal shoulder. Solder cable jacket to body.



Receptacles also available with other contact / insulator configurations. • (C) in contact plating column indicates captive contact. See page 203 for mounting figures. • See page 204 for cable groups.

## General Description

Delta 7/16 series connectors are medium size, 50Ω impedance connectors with M29 x 1.5 metric threaded coupling. These rugged connectors conform to DIN 47223, and feature good power-handling capability along with VSWR as low as 1.07:1 @ 2 GHz. Because these connectors are designed to minimize signal distortion from intermodulation, silver plating is standard. The optional Albaloy plating provides greatly increased tarnish resistance while preserving the connectors' low intermodulation characteristics; optional nickel plating should only be specified when low intermodulation is not a concern in your system design.

As with our other connector series, Delta's *customer-driven design* results in 7/16 series connectors with practical and unique features that make your design and assembly process easier. Some of these include:

- *VersaCom* combination cable connectors (page 170) let you stock various body and cable attachment subassemblies, and assemble them into straight or right angle connectors as needed.
- *PressMount* receptacles (pages 171 and 172) 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 type N connectors, letting you drill one hole pattern and mount BNC, N, SMA, TNC, or 7/16 series connectors as needed.
- All Delta 7/16 series plugs feature a coupling nut with a knurled surface for secure grip when hand-tightening, and a hex for tightening with a wrench. All can be supplied with full-length hex coupling nuts as well.

Our 7/16 series product line is still growing, so please call if you don't see what you need.

## 7/16 Configurations

Straight Cable Plugs . . . . .	.167	Panel Jack Receptacles (Slotted contact) . . . . .	.172
Right Angle Cable Plugs . . . . .	.167	Panel Jack Receptacles (Post contact) . . . . .	.172
Panel Cable Jacks . . . . .	.168	PressMount Plug Receptacles . . . . .	.173
Bulkhead Cable Jacks . . . . .	.169	Panel Plug Receptacles (Solder pot contact) . . . . .	.173
VersaCom Combination Cable Connectors . . . . .	.170	Panel Plug Receptacles (Threaded contact) . . . . .	.173
PressMount Jack Receptacles . . . . .	.171	Panel Plug Receptacles (Tab contact) . . . . .	.174
Panel Jack Receptacles (Solder pot contact) . . . . .	.171	Panel Plug Receptacles (Slotted contact) . . . . .	.174
Panel Jack Receptacles (Threaded contact) . . . . .	.171	Panel Plug Receptacles (Post contact) . . . . .	.174
Panel Jack Receptacles (Tab contact) . . . . .	.172	Adapters Within and Between Series . . . . .	.175

## 7/16 Specifications\*

### Electrical:

**Nominal Impedance:** 50 ohms.  
**Frequency Range:** DC–7.5 GHz.  
**Voltage Rating:** 2,700 volts RMS.  
**Dielectric Withstanding Voltage:** 4,000 VRMS.  
**Insulation Resistance:** 10,000 megohms.

### Materials/Finishes:

**Insulators:** Teflon per ASTM D1710.  
**Male Contacts:** Brass per ASTM B16.  
**Female Contacts:** Spring Brass per ASTM B16,  
 or phosphor bronze per ASTM B139  
**Contact Plating:** Silver per QQ-S-365, or Gold per MIL-G-45204.

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

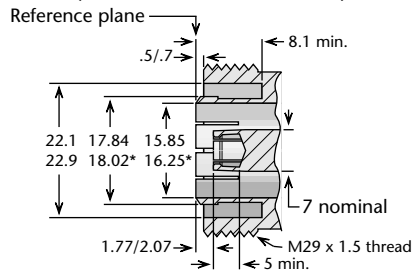
**Other Metal Parts:** Brass per ASTM B16,  
 plated Silver per  
 QQ-S-365.

All other specifications are in accordance with the latest issues of DIN 47223 or other applicable IEC, VG, or CECC specifications.

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

### Jack Interface\*\*

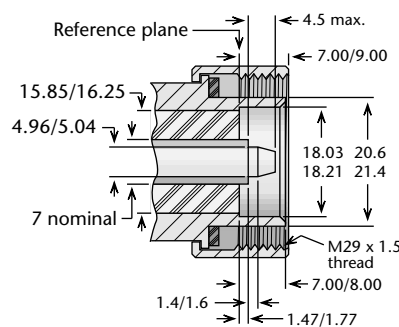
(All dimensions in millimeters.)



\* Dimensions before slotting.  
 Inner and outer contacts slotted and flared to meet performance requirements.

### Plug Interface\*\*

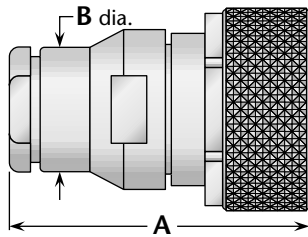
(All dimensions in millimeters.)



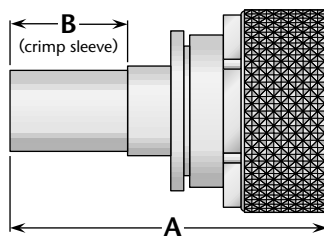
\*\*Some proportions altered to illustrate detail.



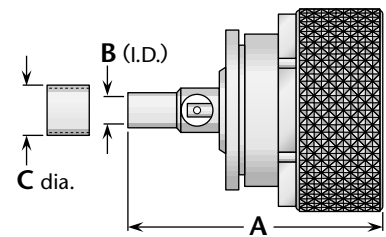
## Straight Plug—For Flexible and Semi-Rigid Cable



**Figure 1**  
(Clamp type for flexible cable)



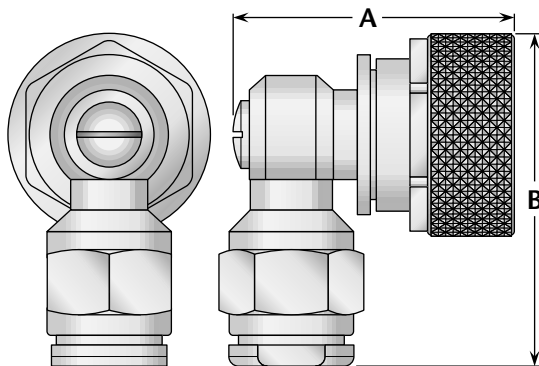
**Figure 2**  
(Crimp type for flexible cable)



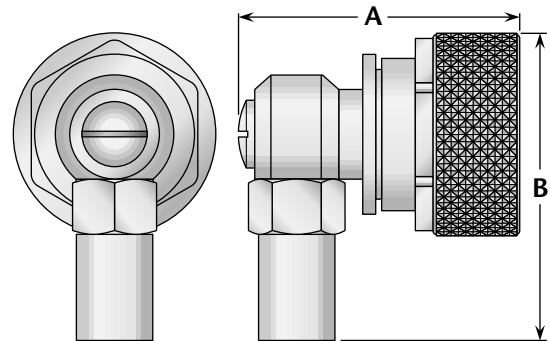
**Figure 3**  
(Solder type for semi-rigid cable)

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
2, 3	1	1.85	.75	—	Silver	Gold (C)	9201-004-A001	A/01
4	1	1.85	.75	—	Silver	Gold (C)	9201-079-A001	A/01
3, 4	2	1.89	.63	—	Silver	Silver (C)	9203-005-A001	***
12	3	1.72	.254	.387	Silver	Silver (C)	9201-050-A003-2	***
13	3	1.59	.148	.319	Silver	Silver (C)	9201-031-A003	***

## Right Angle Plug—For Flexible and Semi-Rigid Cable



**Figure 1**  
(Clamp type for flexible cable  
or solder-clamp for semi-rigid cable)



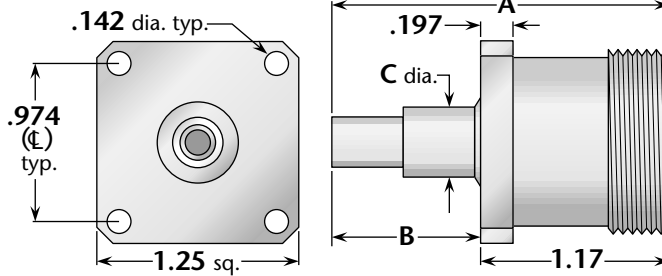
**Figure 2**  
(Crimp type for flexible cable)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.68	2.04	Silver	Silver (C)	9205-005-A001-2	A/35
4	1	1.68	2.04	Silver	Silver (C)	9205-079-A001-1	A/35
5, 6	1	1.68	1.53	Silver	Silver (C)	9205-015-A001	A/36
12	1	1.68	2.04	Silver	Silver (C)	9205-050-A003-1	***
13	1	1.68	1.53	Silver	Silver (C)	9205-031-A003	***
3, 4	2	1.68	1.86	Silver	Silver (C)	9207-005-A001	B/31
5	2	1.68	1.73	Silver	Silver (C)	9207-017-A001	B/31
6	2	1.68	1.73	Silver	Silver (C)	9207-015-A001	B/31

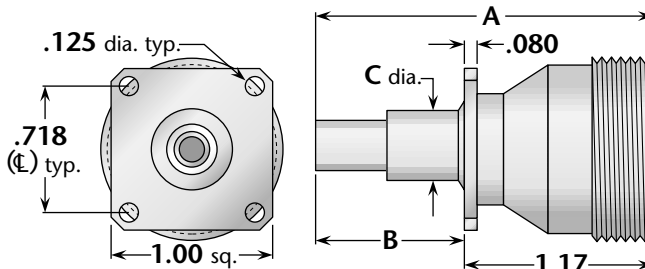
See page 204 for cable groups. • Cable assembly instructions start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## Panel Mounted Jacks—For Flexible and Semi-Rigid Cable

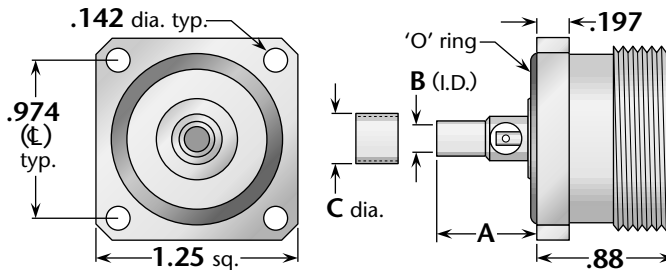
**Figure 1**  
(Crimp type for flexible cable, standard flange)



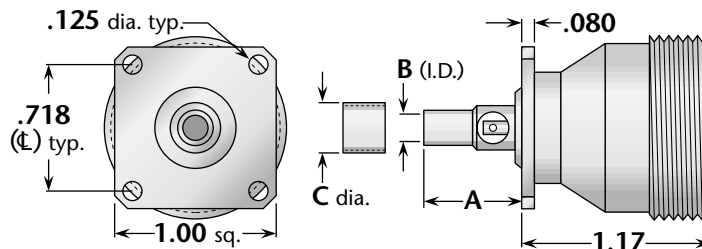
**Figure 2**  
(Crimp type for flexible cable, 1" square flange; interchangeable with type N standard flange)



**Figure 3**  
(Solder type for semi-rigid cable, standard flange, with 'O' ring seal)



**Figure 4**  
(Solder type for semi-rigid cable, 1" square flange; interchangeable with type N standard flange)

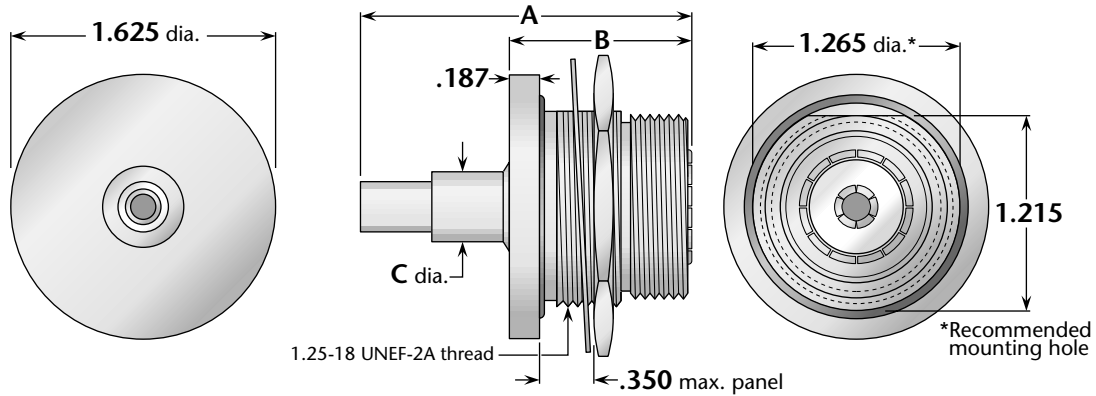


Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
3, 4	1	2.34	1.17	.625	Silver	Silver	9255-005-A911	B/19
6	1	2.21	1.04	.625	Silver	Silver	9255-015-A911	B/19
3, 4	2	2.34	1.17	.625	Silver	Silver	9255-005-A331	B/19
6	2	2.21	1.04	.625	Silver	Silver	9255-015-A331	B/19
12	3	.60	.254	.387	Silver	Silver (C)	9211-050-A911-1	***
13	3	.60	.148	.319	Silver	Silver (C)	9211-031-A911-1	***
12	4	.60	.254	.387	Silver	Gold (C)	9211-050-A331	***
13	4	.60	.148	.319	Silver	Gold (C)	9211-031-A331	***

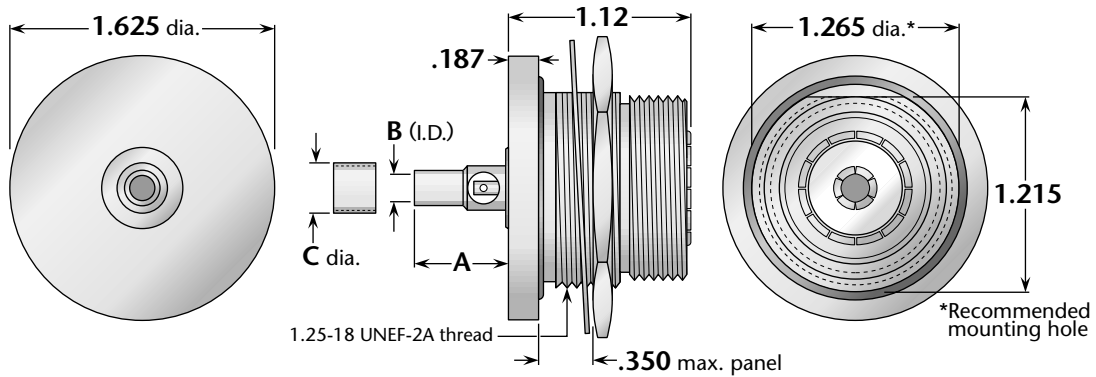
See page 204 for cable groups. • Cable assembly instructions start on page 205. • \*\*\*Contact factory for cable assembly instructions.  
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

7/16 connectors with 1" square flanges have lower maximum power rating than standard-flange connectors—contact factory for details.

## Bulkhead Mounted Jacks—For Flexible and Semi-Rigid Cable



**Figure 1**  
(Crimp type for flexible cable)



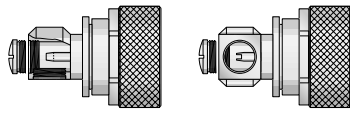
**Figure 2**  
(Solder type for semi-rigid cable)

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
3, 4	1	2.34	1.17	.625	Silver	Silver (C)	9219-005-A911	B/19
12	2	.47	.254	.387	Silver	Silver (C)	9216-050-A911	***
13	2	.60	.148	.319	Silver	Silver (C)	9216-031-A911	***

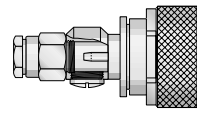
See page 204 for cable groups. • Cable assembly instructions start on page 205. • \*\*\*Contact factory for cable assembly instructions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

## The Delta Versatile Combination Connector System

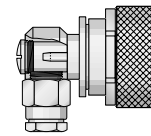
By purchasing VersaCom body assemblies and cable fittings, you can easily assemble straight or right angle connectors as needed—eliminating separate stocks of complete connectors with different body styles and cable attachments



Body assembly (plug type, side and bottom views)

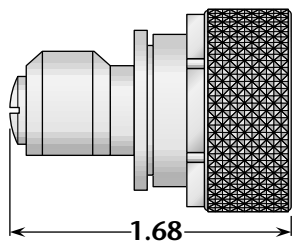


Body assembly and clamp type cable fitting, combined in straight configuration

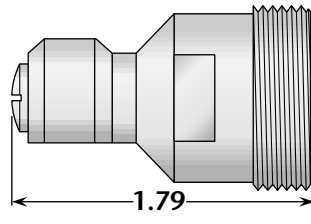


Same parts in right-angle configuration.

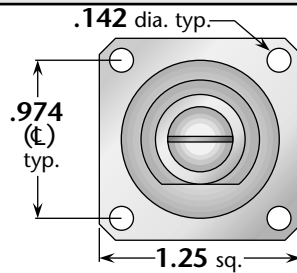
## VersaCom Body Assemblies



**Figure 1**



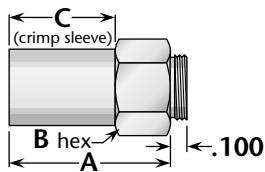
**Figure 2**



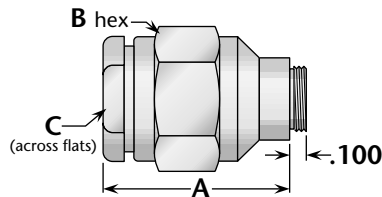
**Figure 3**

Body Style	Figure	Body Plating	Contact Plating	Delta P/N
Plug	1	Silver	Silver (C)	9203-000-A001
Jack	2	Silver	Silver (C)	9208-000-A001
Panel Jack	3	Silver	Silver (C)	9211-000-A911-1

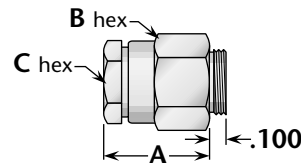
## Cable Fittings for VersaCom Connectors



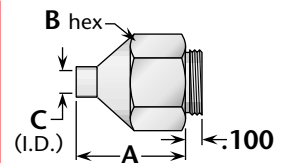
**Figure 1**  
(Crimp type for flexible cable)



**Figure 2**  
(Clamp type for flexible cable or solder-clamp for semi-rigid cable)



**Figure 3**  
(Clamp type for flexible cable or solder-clamp for semi-rigid cable)

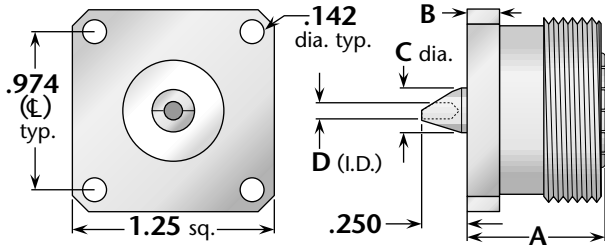


**Figure 4**  
(Direct solder for semi-rigid cable)

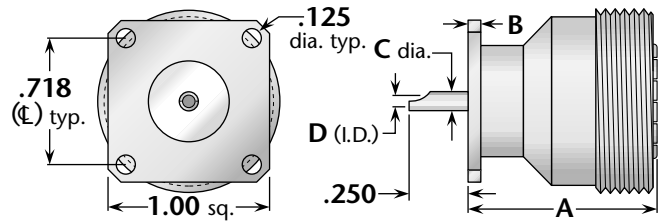
Cable Group	Figure	Dimensions			Plating	Delta P/N	Assembly Procedure/Trim Code
		A	B	C			
2	1	.96	.50	.63	Silver	10-10676-01-AG	B/31
2, 3	2	1.14	.75	.625	Silver	10-10681-01-AG	A/35
3, 4	1	.96	.50	.63	Silver	10-10677-01-AG	B/31
4	2	1.14	.75	.625	Silver	10-10682-01-AG	A/35
5, 6	3	.63	.50	.437	Silver	10-10683-01-AG	A/36
5	1	.83	.50	.50	Silver	10-10678-01-AG	B/31
6	1	.83	.50	.50	Silver	10-10679-01-AG	B/31
7	1	.83	.50	.50	Silver	10-10680-01-AG	B/31
7	3	.63	.50	.437	Silver	10-10684-01-AG	A/36
12	2	1.14	.75	.625	Silver	10-10685-01-AG	***
12	4	.63	.50	.254	Silver	10-10687-01-AG	***
13	3	.63	.50	.437	Silver	10-10686-01-AG	***
13	4	.63	.50	.143	Silver	10-10688-01-AG	***

See page 204 for cable groups. • Cable assembly instructions start on page 205. • \*\*\*Contact factory for cable assembly instructions. (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

**Jack Receptacles—Solder Pot Contact**

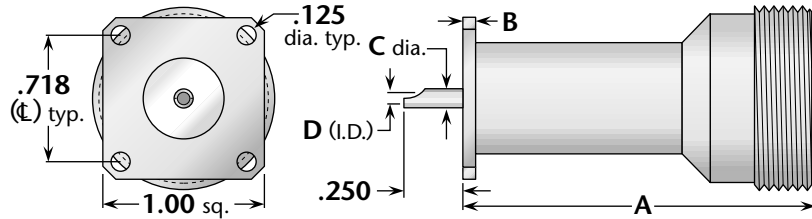


**Figure 1**  
(Standard flange)

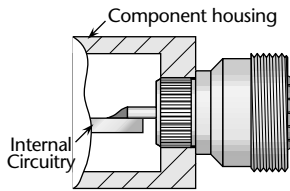


**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)

**Figure 3**  
(1" square flange, interchangeable with type N standard flange size)

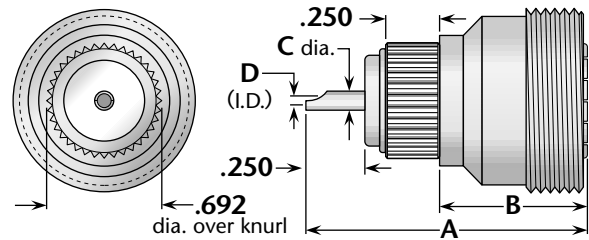


**Delta PressMount Receptacles**



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 greater than normal mating and unmating forces. An integral shoulder provides a positive stop when mounting.



**Figure 4**  
(PressMount)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	.850	.197	.274	.100	See above	Silver	Silver (C)	9213-000-A911-3
2	1.17	.080	.120	.100	33	Silver	Gold (C)	9213-000-A911-4
3	2.17	.080	.120	.100	33	Silver	Gold (C)	9213-000-A911-10
4	1.42	.819	.120	.100	.688±.001 dia.	Silver	Gold (C)	9220-000-A911

**Panel Jack Receptacle—Threaded Contact**

**Figure 1**  
(Standard flange)

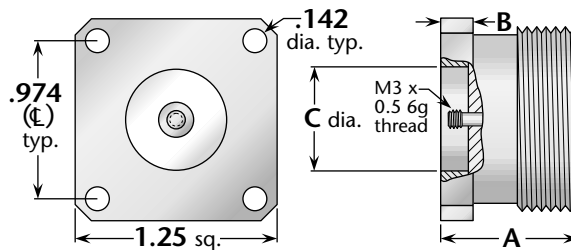
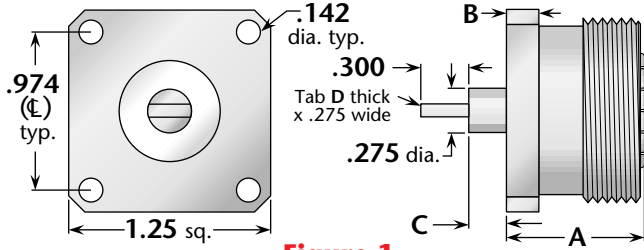


Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.850	.197	.630	See above	Silver	Silver (C)	9258-000-A911

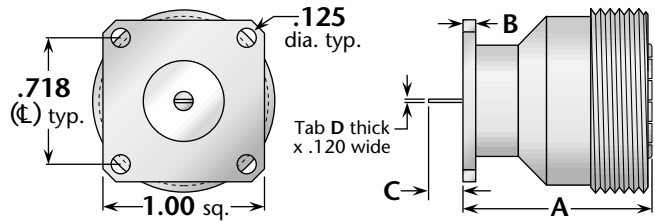
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.  
All items are available with other flange sizes and contact configurations.

7/16 connectors with 1" square flanges have lower maximum power rating than standard-flange connectors—contact factory for details.

## Panel Jack Receptacle—Tab Contact



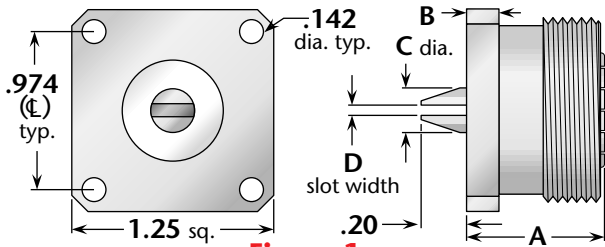
**Figure 1**  
(Standard flange)



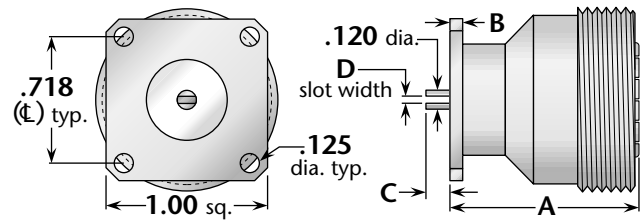
**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	.850	.197	.200	.100	See above	Silver	Silver (C)	9258-000-A911-6
2	1.17	.080	.100	.005/.008	33	Silver	Gold (C)	9258-000-A331

## Panel Jack Receptacle—Slotted Contact



**Figure 1**  
(Standard flange)



**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	.850	.197	.276	.095	See above	Silver	Silver (C)	9258-000-A911-7
2	1.17	.080	.050	.013/.017	33	Silver	Gold (C)	9258-000-A331-10

## Panel Jack Receptacle—Post Contact

**Figure 1**  
(1" square flange, interchangeable with type N standard flange size)

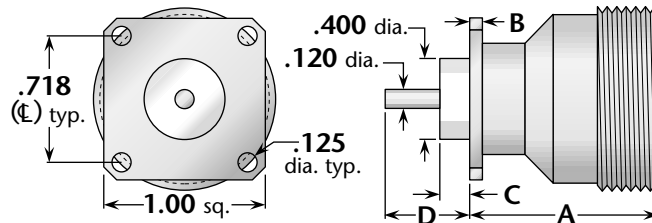


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.17	.080	.325	.500	33	Silver	Silver (C)	9258-000-A331-5
1	1.17	.080	.000	.750	33	Silver	Silver (C)	9258-000-A331-2
1	1.17	.080	.000	.562	33	Silver	Silver (C)	9258-000-A331-3

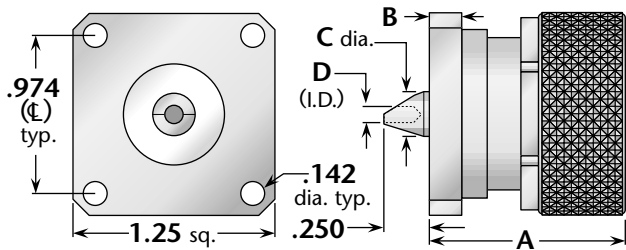
(C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

All items are available with other flange sizes and contact configurations.

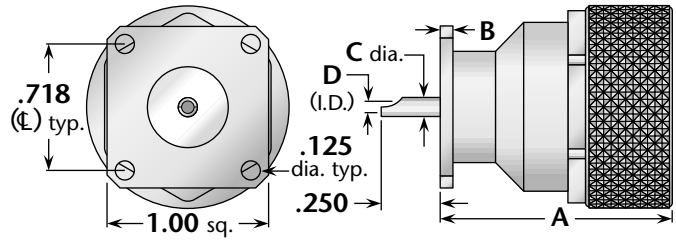
7/16 connectors with 1" square flanges have lower maximum power rating than standard-flange connectors—contact factory for details.



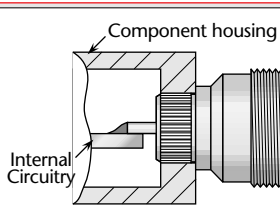
## Plug Receptacles—Solder Pot Contact



**Figure 1**  
(Standard flange)



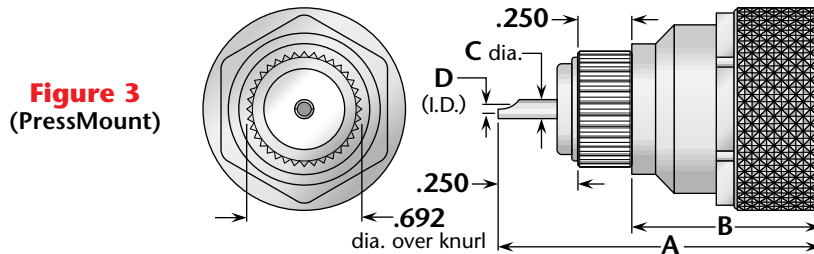
**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)



### Delta PressMount Receptacles

These connectors eliminate the need for complicated mounting hole patterns and mounting hardware.

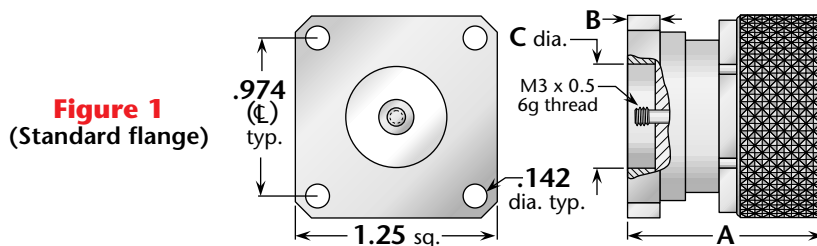
They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength greater than normal mating and unmating forces. An integral shoulder provides a positive stop when mounting.



**Figure 3**  
(PressMount)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.21	.197	.274	.100	See above	Silver	Silver (C)	9223-000-A911
2	1.40	.080	.120	.100	33	Silver	Gold (C)	9223-000-A911-3
3	1.65	1.05	.120	.100	.688±.001 dia.	Silver	Gold (C)	9224-000-A911

## Panel Plug Receptacle—Threaded Contact



**Figure 1**  
(Standard flange)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	1.21	.197	.630	See above	Silver	Silver (C)	9223-000-A911-1

(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.

7/16 connectors with 1" square flanges have lower maximum power rating than standard-flange connectors—contact factory for details.



## Panel Plug Receptacle—Tab Contact

**Figure 1**  
(1" square flange, interchangeable with type N standard flange size)

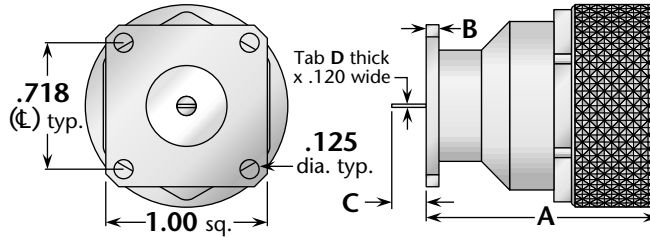
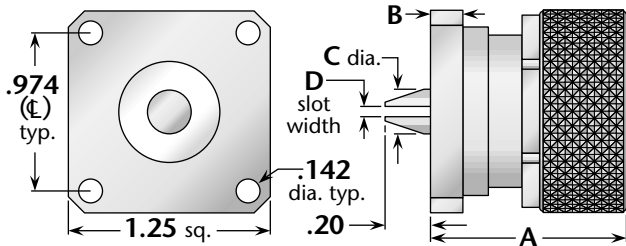
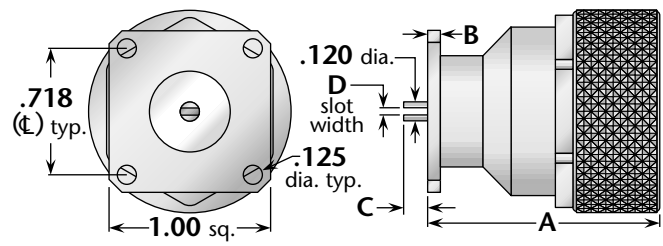


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.40	.080	.100	.005/.008	33	Silver	Gold (C)	9259-000-A331

## Panel Plug Receptacle—Slotted Contact



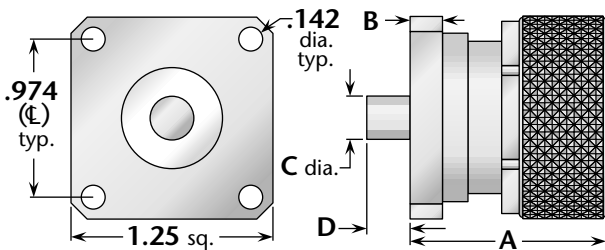
**Figure 1**  
(Standard flange)



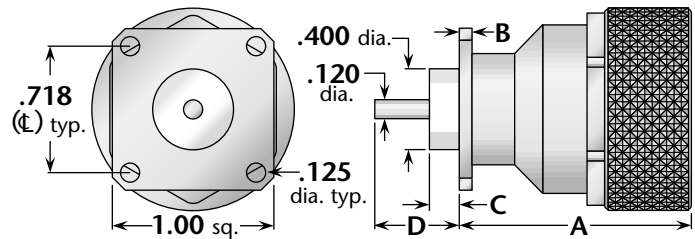
**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.21	.197	.276	.095	See above	Silver	Silver (C)	9223-000-A911-2
2	1.40	.080	.050	.013/.017	33	Silver	Gold (C)	9259-000-A331-6

## Panel Plug Receptacle—Post Contact



**Figure 1**  
(Standard flange)



**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)

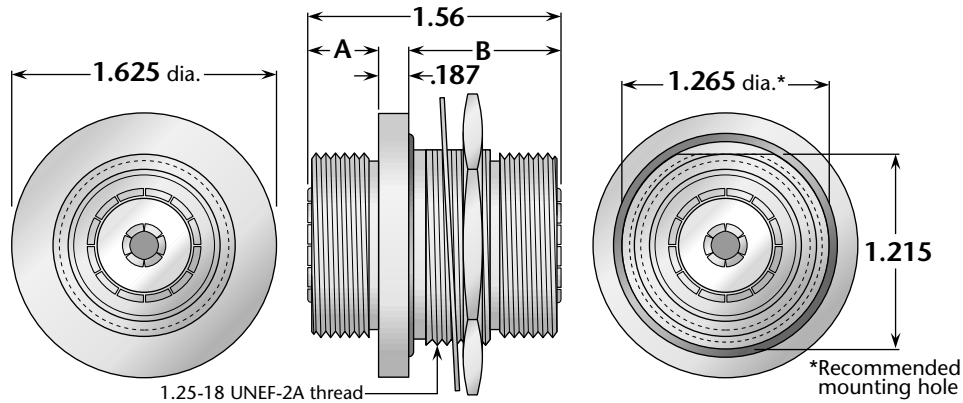
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.21	.197	.274	.250	See above	Silver	Silver (C)	9259-000-A911-4
2	1.40	.080	.325	.500	33	Silver	Silver (C)	9259-000-A331-7
2	1.40	.080	.000	.562	33	Silver	Gold (C)	9259-000-A331-1

(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.

7/16 connectors with 1" square flanges have lower maximum power rating than standard-flange connectors—contact factory for details.

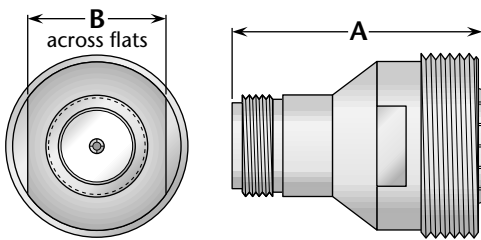
## Bulkhead Mounted Jack-Jack Adapter (Connects two plugs)



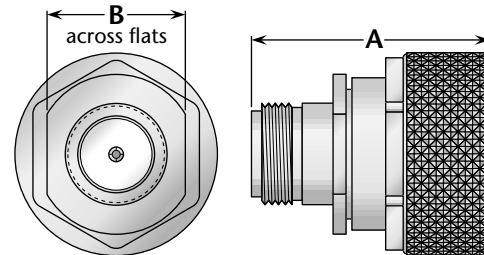
**Figure 1**

Figure	Dimensions		Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	.44	.933	.350	See above	Silver	Silver (C)	9226-000-A911-1

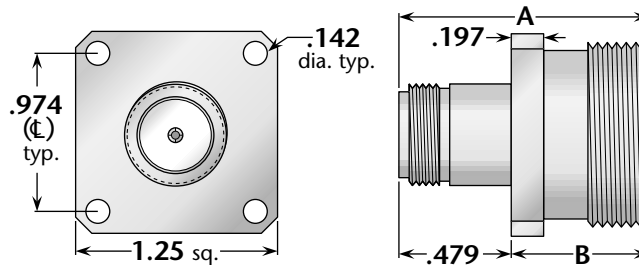
## 7/16 to N Adapters



**Figure 1**  
(7/16 jack-N jack)



**Figure 2**  
(7/16 plug-N jack)



**Figure 3**  
(7/16 jack-N jack, panel mounted)

Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.33	.937	Silver	Gold (C)	2228-000-A001-29
2	1.41	.875	Silver	Gold (C)	2234-000-A001-122
3	1.33	.850	Silver	Silver (C)	2225-000-A911-9

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

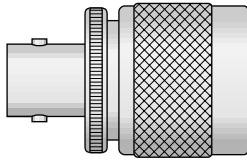
## Adapter Finder

Adapters in this chart and on the following pages are listed in alphabetic order—to find an adapter that connects a TNC plug to a BNC jack, look under “BNC plug to TNC jack.”

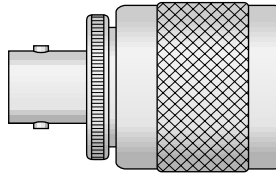
Left end:	Right end:	Delta P/N	Page
7/16 Plug	N Jack	2234-000-A001-122	173
7/16 Jack	N Jack	2228-000-A001-29	173
	N Jack	2225-000-A911-9	175
BNC Jack	C Plug	UG-636A/U	175
	HN Plug	UG-309/U	175
	N Jack	2225-000-N331-6	175
	N Jack	UG-606/U	175
	N Jack	M55339/25-00606	175
	N Jack	M55339/01-00001	175
	N Plug	UG-201A/U	175
	N Plug	M55339/20-00201	175
	SC Jack	2228-000-N000-9	175
	SC Plug	2234-000-N001-100	175
	TNC Jack	2234-000-N000-8	175
	TNC Plug	2234-000-N000-6	175
	UHF Plug	UG-273/U	175
	BNC Plug	C Jack	UG-635/U
HN Jack		2234-000-N001-10	176
HN Plug		2234-000-N004-10	176
N Jack		UG-349B/U	176
N Jack		M55339/49-00349	176
N Jack		UG-335A/U	176
N Jack		M55339/24-00335	176
N Plug		UG-1034/U	176
N Plug		M55339/18-01034	176
SC Plug		2227-000-N000-4	176
TNC Jack		2234-000-N000-9	176
TNC Plug		2234-000-N000-7	176
UHF Jack		UG-255A/U	176
C Jack	HN Plug	2234-000-N001-51	177
	N Plug	UG-564/U	177
	TNC Plug	2234-000-N000-10	177
	UHF Plug	UG-637/U	177
C Plug	HN Jack	UG-703A/U	177
	N Jack	UG-565A/U	177
	TNC Jack	2234-000-N000-11	177

Left end:	Right end:	Delta P/N	Page
G874	Any	see pages	40-41
HN Jack	N Jack	2228-000-N001-22	178
	N Jack	2225-000-N401	178
	N Plug	UG-1108/U	178
HN Plug	N Jack	2234-000-N001-70	178
	N Plug	UG-1107/U	178
	TNC Plug	2234-000-N004-11	178
LC Jack	N Plug	2234-000-N000-78	178
N Jack	SC Jack	2228-000-N000-12	179
	SC Plug	2234-000-N000-55	179
	SMA Jack	2225-000-N331-5	179
	SMA Jack	2226-000-N721-1	179
	SMA Jack	2228-000-N00M-10	179
	SMA Plug	2234-000-N331-3	179
	TNC Jack	2225-000-N331-8	179
	TNC Jack	2228-000-N001-2	179
	TNC Plug	2234-000-N001-9	179
	UHF Plug	UG-83B/U	179
	N Plug	SC Jack	2234-000-N000-65
SC Plug		2227-000-N000-3	180
SMA Plug		2234-000-N00M-39	180
SMA Jack		2234-000-N001-4	180
TNC Jack		2234-000-N001-7	180
TNC Plug		2234-000-N000-12	180
UHF Jack		UG-146A/U	180
UHF Plug		2227-000-N000-16	180
QDS series		Any	See page
SMA Jack	SMB Jack	2234-000-N001-78	181
	SMB Plug	2228-000-N001-15	181
	SMC Jack	2234-000-N001-121	181
	SMC Plug	2234-000-N001-77	181
SMA Plug	TNC Jack	2225-000-K071-2	181
	SMB Jack	2234-000-N001-82	181
	SMB Plug	2234-000-N000-69	181
	SMC Jack	2234-000-N001-120	181
	SMC Plug	2234-000-N001-81	181

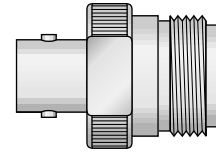
## Adapters—BNC Jack to Other Series



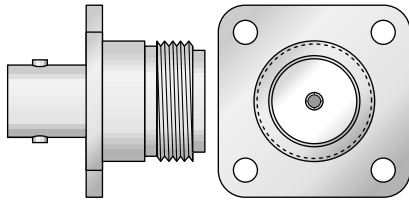
**Figure 1**  
(BNC jack-C plug)



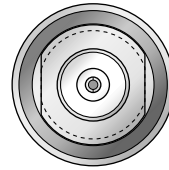
**Figure 2**  
(BNC jack-HN plug)



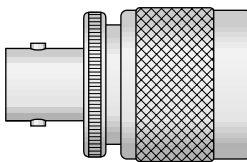
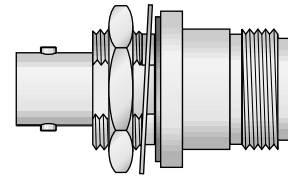
**Figure 3**  
(BNC jack-N jack)



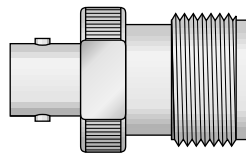
**Figure 4**  
(BNC jack-N jack)



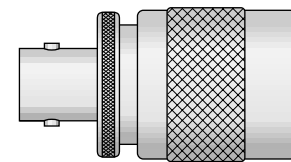
**Figure 5**  
(BNC jack-N jack)



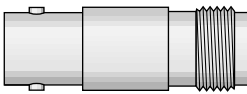
**Figure 6**  
(BNC jack-N plug)



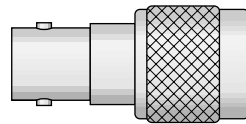
**Figure 7**  
(BNC jack-SC jack)



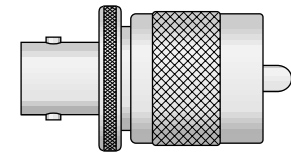
**Figure 8**  
(BNC jack-SC plug)



**Figure 9**  
(BNC jack-TNC jack)



**Figure 10**  
(BNC jack-TNC plug)

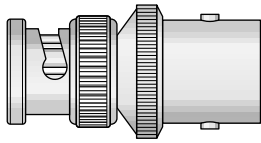


**Figure 11**  
(BNC jack-UHF plug)

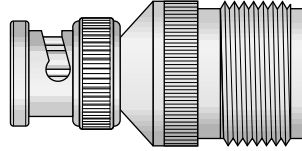
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	BNC jack-C plug	1.23	None	Nickel	Silver (C)	UG-636A/U
2	BNC jack-HN plug	1.50	None	Nickel	Silver (C)	UG-309/U
3	BNC jack-N jack	1.13	None	Silver	Gold (C)	M55339/01-00001
4	BNC jack-N jack	1.39	33	Nickel	Silver (C)	2225-000-N331-6
5	BNC jack-N jack	1.75	72	Nickel	Silver (C)	UG-606/U
5	BNC jack-N jack	1.75	72	Silver	Gold (C)	M55339/25-00606
6	BNC jack-N plug	1.31	None	Nickel	Silver (C)	UG-201A/U
6	BNC jack-N plug	1.31	None	Silver	Gold (C)	M55339/20-00201
7	BNC jack-SC jack	1.23	None	Nickel	Gold (C)	2228-000-N000-9
8	BNC jack-SC plug	1.45	None	Nickel	Silver (C)	2234-000-N001-100
9	BNC jack-TNC jack	1.28	None	Nickel	Silver (C)	2234-000-N000-8
10	BNC jack-TNC plug	1.23	None	Nickel	Gold (C)	2234-000-N000-6
11	BNC jack-UHF plug	1.34	None	Nickel	Silver (C)	UG-273/U

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information.

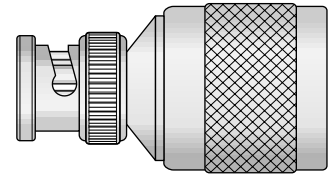
## Adapters—BNC Plug to Other Series



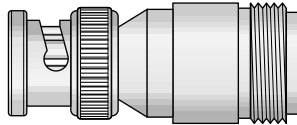
**Figure 1**  
(BNC plug-C jack)



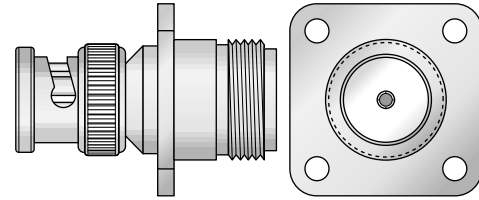
**Figure 2**  
(BNC plug-HN jack)



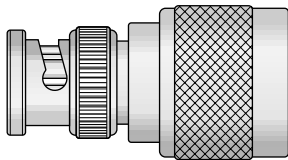
**Figure 3**  
(BNC plug-HN plug)



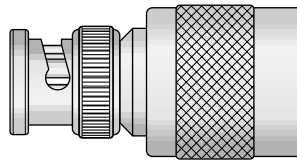
**Figure 4**  
(BNC plug-N jack)



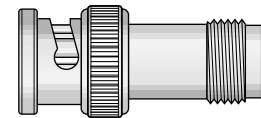
**Figure 5**  
(BNC plug-N jack)



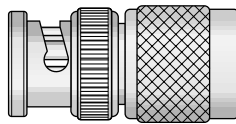
**Figure 6**  
(BNC plug-N plug)



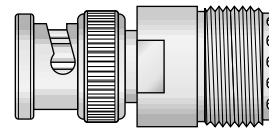
**Figure 7**  
(BNC plug-SC plug)



**Figure 8**  
(BNC plug-TNC jack)



**Figure 9**  
(BNC plug-TNC plug)

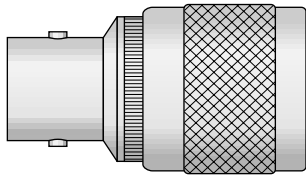


**Figure 10**  
(BNC plug-UHF jack)

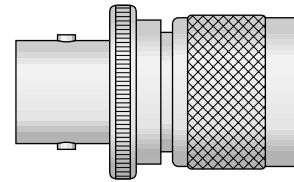
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	BNC plug-C jack	1.27	None	Nickel	Silver (C)	UG-635/U
2	BNC plug-HN jack	1.58	None	Nickel	Silver (C)	2234-000-N001-10
3	BNC plug-HN plug	1.58	None	Nickel	Silver (C)	2234-000-N004-10
4	BNC plug-N jack	1.47	None	Nickel	Silver (C)	UG-349B/U
4	BNC plug-N jack	1.47	None	Silver	Gold (C)	M55339/49-00349
5	BNC plug-N jack	1.47	33	Nickel	Silver (C)	UG-335A/U
5	BNC plug-N jack	1.47	33	Silver	Gold (C)	M55339/24-00335
6	BNC plug-N plug	1.48	None	Nickel	Silver (C)	UG-1034/U
6	BNC plug-N plug	1.48	None	Silver	Gold (C)	M55339/18-01034
7	BNC plug-SC plug	1.50	None	Nickel	Silver (C)	2227-000-N000-4
8	BNC plug-TNC jack	1.25	None	Nickel	Gold (C)	2234-000-N000-9
9	BNC plug-TNC plug	1.19	None	Nickel	Silver (C)	2234-000-N000-7
10	BNC plug-UHF jack	1.33	None	Nickel	Silver (C)	UG-255A/U

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information.

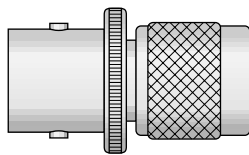
## Adapters—C Jack to Other Series



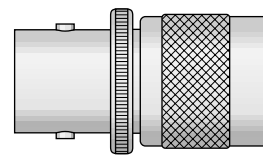
**Figure 1**  
(C jack-HN plug)



**Figure 2**  
(C jack-N plug)



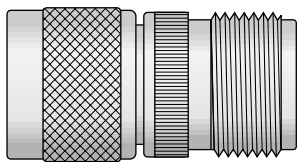
**Figure 3**  
(C jack-TNC plug)



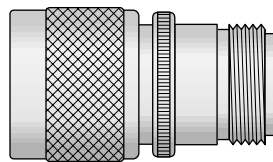
**Figure 4**  
(C jack-UHF plug)

Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	C jack-HN plug	1.50	None	Nickel	Silver (C)	2234-000-N001-51
2	C jack-N plug	1.42	None	Nickel	Silver (C)	UG-564/U
3	C jack-TNC plug	1.23	None	Nickel	Silver (C)	2234-000-N000-10
4	C jack-UHF plug	1.38	None	Nickel	Silver (C)	UG-637/U

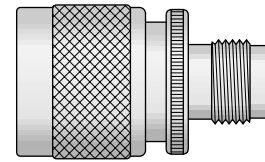
## Adapters—C Plug to Other Series



**Figure 1**  
(C plug-HN jack)



**Figure 2**  
(C plug-N jack)

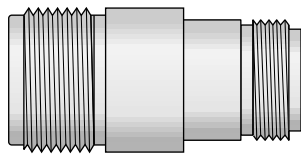


**Figure 3**  
(C plug-TNC jack)

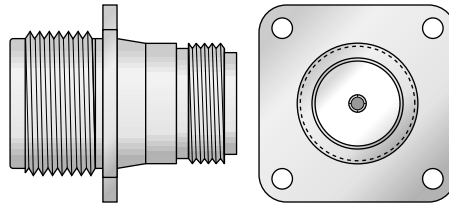
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	C plug-HN jack	1.46	None	Nickel	Silver (C)	UG-703A/U
2	C plug-N jack	1.53	None	Nickel	Silver (C)	UG-565A/U
3	C plug-TNC jack	1.23	None	Nickel	Silver (C)	2234-000-N000-11

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

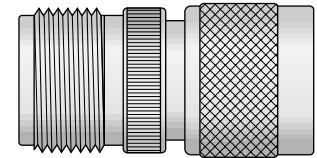
## Adapters—HN Jack to Other Series



**Figure 1**  
(HN jack-N jack)



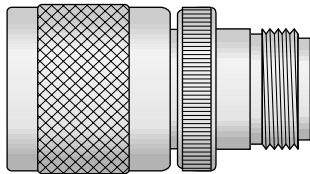
**Figure 2**  
(HN jack-N jack)



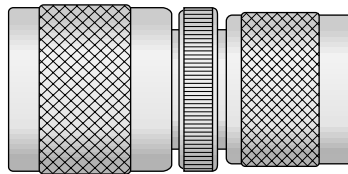
**Figure 3**  
(HN jack-N plug)

Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	HN jack-N jack	1.65	None	Nickel	Silver (C)	2228-000-N001-22
2	HN jack-N jack	1.83	40	Nickel	Silver (C)	2225-000-N401
3	HN jack-N plug	1.56	None	Nickel	Silver (C)	UG-1108/U

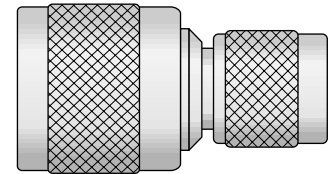
## Adapters—HN Plug to Other Series



**Figure 1**  
(HN plug-N jack)



**Figure 2**  
(HN plug-N plug)



**Figure 3**  
(HN plug-TNC plug)

Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	HN plug-N jack	1.56	None	Nickel	Silver (C)	2234-000-N001-70
2	HN plug-N plug	1.83	None	Nickel	Silver (C)	UG-1107/U
3	HN plug-TNC plug	1.56	None	Nickel	Silver (C)	2234-000-N004-11

## Adapters—LC Jack to Other Series

**Figure 1**  
(LC jack-N plug)

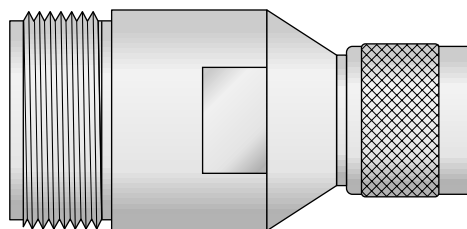
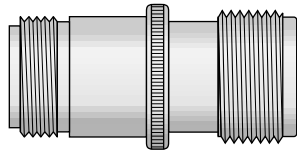


Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	LC jack-N plug	2.39	None	Nickel	Silver (C)	2234-000-N000-78

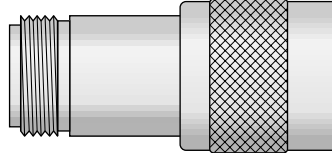
See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information.



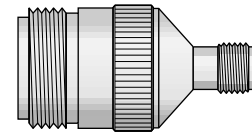
## Adapters—N Jack to Other Series



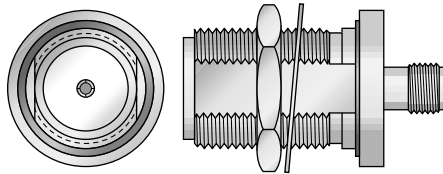
**Figure 1**  
(N jack-SC jack)



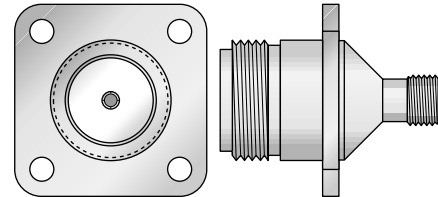
**Figure 2**  
(N jack-SC plug)



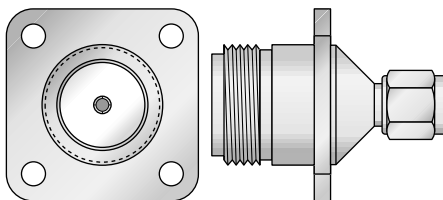
**Figure 3**  
(N jack-SMA jack)



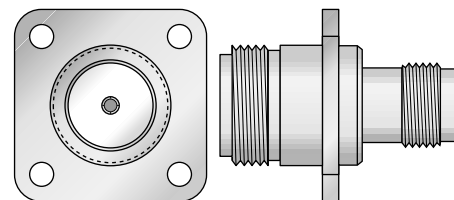
**Figure 4**  
(N jack-SMA jack)



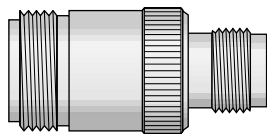
**Figure 5**  
(N jack-SMA jack)



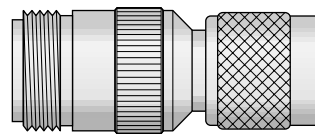
**Figure 6**  
(N jack-SMA plug)



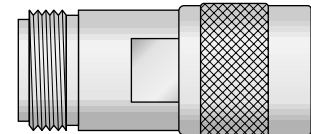
**Figure 7**  
(N jack-TNC jack)



**Figure 8**  
(N jack-TNC jack)



**Figure 9**  
(N jack-TNC plug)

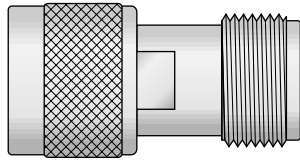


**Figure 10**  
(N jack-UHF plug)

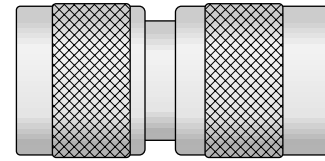
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	N jack-SC jack	1.63	None	Nickel	Silver (C)	2228-000-N000-12
2	N jack-SC plug	1.53	None	Nickel	Silver (C)	2234-000-N000-55
3	N jack-SMA jack	1.24	None	Nickel	Gold (C)	2228-000-N00M-10
4	N jack-SMA jack	1.26	72	Nickel	Gold (C)	2226-000-N721-1
5	N jack-SMA jack	1.24	33	Nickel	Gold (C)	2225-000-N331-5
6	N jack-SMA plug	1.28	33	Nickel	Gold (C)	2234-000-N331-3
7	N jack-TNC jack	1.39	33	Nickel	Gold (C)	2225-000-N331-8
8	N jack-TNC jack	1.39	None	Nickel	Gold (C)	2228-000-N001-2
9	N jack-TNC plug	1.53	None	Nickel	Gold (C)	2234-000-N001-9
10	N jack-UHF plug	1.56	None	Nickel	Silver (C)	UG-83B/U

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information.

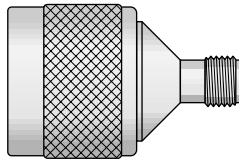
## Adapters—N Plug to Other Series



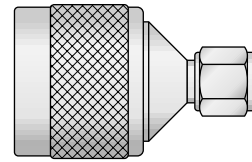
**Figure 1**  
(N plug-SC jack)



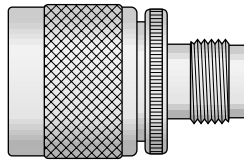
**Figure 2**  
(N plug-SC plug)



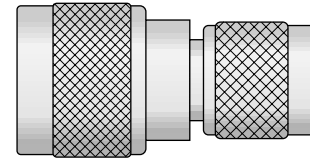
**Figure 3**  
(N plug-SMA jack)



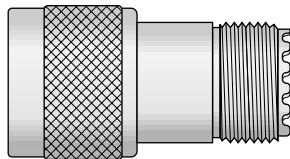
**Figure 4**  
(N plug-SMA plug)



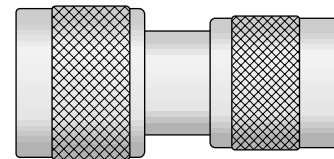
**Figure 5**  
(N plug-TNC jack)



**Figure 6**  
(N plug-TNC plug)



**Figure 7**  
(N plug-UHF jack)

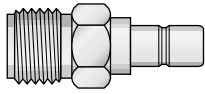


**Figure 8**  
(N plug-UHF plug)

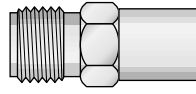
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	N plug-SC jack	1.38	None	Nickel	Silver (C)	2234-000-N000-65
2	N plug-SC plug	1.70	None	Nickel	Silver (C)	2227-000-N000-3
3	N plug-SMA jack	1.23	None	Nickel	Gold (C)	2234-000-N001-4
4	N plug-SMA plug	1.28	None	Nickel	Gold (C)	2234-000-N00M-39
5	N plug-TNC jack	1.31	None	Nickel	Silver (C)	2234-000-N001-7
6	N plug-TNC plug	1.44	None	Nickel	Silver (C)	2234-000-N000-12
7	N plug-UHF jack	1.50	None	Nickel	Silver (C)	UG-146A/U
8	N plug-UHF plug	1.59	None	Nickel	Silver (C)	2227-000-N000-16

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

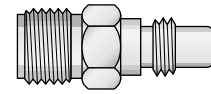
## Adapters—SMA Jack to Other Series



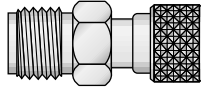
**Figure 1**  
(SMA jack-SMB jack)



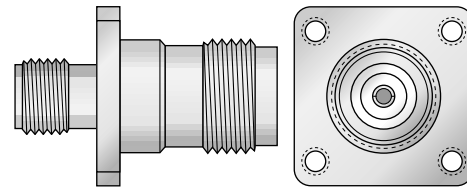
**Figure 2**  
(SMA jack-SMB plug)



**Figure 3**  
(SMA jack-SMC jack)



**Figure 4**  
(SMA jack-SMC plug)

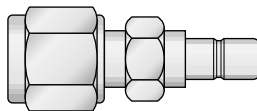


**Figure 5**  
(SMA jack-TNC jack)

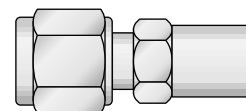
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	SMA jack-SMB jack	.65	None	Nickel	Gold (C)	2234-000-N001-78
2	SMA jack-SMB plug	.64	None	Nickel	Gold (C)	2228-000-N001-15
3	SMA jack-SMC jack	.65	None	Nickel	Gold (C)	2234-000-N001-121
4	SMA jack-SMC plug	.69	None	Nickel	Gold (C)	2234-000-N001-77
5	SMA jack-TNC jack	1.00	07	PSS*	Gold (C)	2225-000-K071-2

\* Passivated stainless steel.

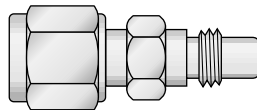
## Adapters—SMA Plug to Other Series



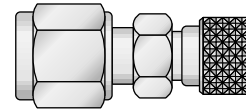
**Figure 1**  
(SMA plug-SMB jack)



**Figure 2**  
(SMA plug-SMB plug)



**Figure 3**  
(SMA plug-SMC jack)



**Figure 4**  
(SMA plug-SMC plug)

Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	SMA plug-SMB jack	.81	None	Nickel	Gold (C)	2234-000-N001-82
2	SMA plug-SMB plug	.88	None	Nickel	Gold (C)	2234-000-N000-69
3	SMA plug-SMC jack	.81	None	Nickel	Gold (C)	2234-000-N001-120
4	SMA plug-SMC plug	.82	None	Nickel	Gold (C)	2234-000-N001-81

See page 203 for mounting dimensions. • (C) in contact plating column indicates captive contact.  
See page 6 for alternate body plating information.

## General Description

Delta QPL connectors and adapters meet or exceed all requirements of MIL-PRF-39012 and MIL-PRF-55339. Because these specifications change periodically, please visit DSCC's website at <http://www.dscclia.mil> for the latest requirements.

QPL connectors and adapters in BNC, N, and TNC series have silver-plated brass bodies and gold-plated, captivated contacts.

QPL connectors in SMA series have passivated stainless-steel bodies (except Category A cable connectors; for these types, the body tail and sleeve are gold-plated to allow soldering of the cable braid), and gold-plated captive contacts.

In addition to the current M39012 connectors and M55339 adapters, we also continue to manufacture older military connectors and adapters with CW-, MX-, and UG- nomenclature. See the inside back cover for a list of these types.

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## MIL-PRF-39012 Cable Connector Categories

MIL-PRF-39012 QPL cable connectors are divided into categories which define the characteristics of their cable assembly method, and in some cases the actual assembly method:

**Category A:** Field-serviceable, with no special tools required for assembly. Our Category A connectors in series BNC, N, and TNC are standard military-clamp types; Category A connectors in SMA series are solder type.

**Category B:** Special tools may be required for assembly. Our Category B connectors in N series are crimp types which use standard, commercially-available crimp tools.

**Category C:** Crimp-type connectors which can be assembled with specified tools and die sizes.

**Category D:** Crimp-type connectors which can be assembled with specified tools and die sizes, and also have defined sizes for crimp sleeves, contacts, and other parts. Category D connectors have crimpable center contacts.

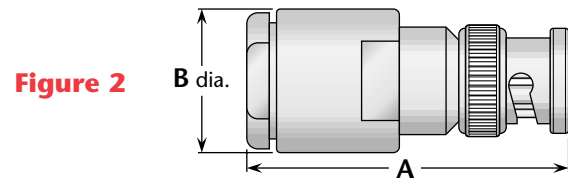
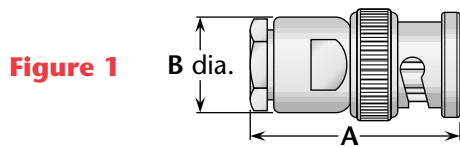
## MIL-PRF-39012 Cable Groups

Group	Cables (M17/)
I	93-178,169-00001
II	IIA 113-RG316, 119-RG174, 173-00001, 172-00001, 196-00001
	IIB 94-RG179
III	152-00001
IV	54-RG122, 157-00001, 187-00001, 198-00001
V	95-RG180
VI	VIA 28-RG58, 111-RG303, 155-00001, 170-00001, 183-00001, 197-00001
	VIB 60-RG142, 84-RG223, 128-RG400, 158-00001, 167-00001, 175-00001, 194-00001, 200-00001
VII	VIIA 29-RG59, 30-RG62, 90-RG71, 97-RG210, 110-RG302, 184-00001, 185-00001
	VIIIB 90-RG71, 195-00001
VIII	2-RG6, 73-RG212, 112-RG304, 162-00001, 171-00001, 180-00001, 188-00001, 199-00001
X	XA 65-RG165, 74-RG213, 159-00001, 163-00001, 189-00001
	XB 75-RG214, 86-00001, 127-RG393, 164-00001, 174-00001, 190-00001
	XC 6-RG11, 62-RG144, 181-00001
	XD 77-RG216, 191-00001
XI	74-RG215, 189-00002
XII	78-RG217, 165-00001, 192-00001

## MIL-PRF-39012 Cable Group Finder

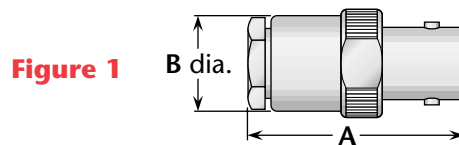
Cable M17/	Category		Cable M17/	Category		Cable M17/	Category		Cable M17/	Category	
	A	B, C, D		A	B, C, D		A	B, C, D		A	B, C, D
2-RG6	VIII	VIII	90-RG71	VII	VIIIB	159-00001	X	XA	185-00001	VII	VIIIA
6-RG11	X	XC	93-RG178	I	I	162-00001	VIII	VIII	187-00001	IV	IV
28-RG58	VI	VIA	94-RG179	II	IIB	163-00001	X	XA	188-00001	VIII	VIII
29-RG59	VII	VIIA	95-RG180	V	V	164-00001	X	XB	189-00001	X	XA
30-RG62	VII	VIIA	97-RG210	VII	VIIA	165-00001	XII	XII	189-00002	XI	—
54-RG122	IV	IV	110-RG302	VII	VIIA	167-00001	VI	VIB	190-00001	X	XB
60-RG142	VI	VIB	111-RG303	VI	VIA	169-00001	I	I	191-00001	X	XD
62-RG144	X	XC	112-RG304	VIII	VIII	170-00001	VI	VIA	192-00001	XII	XII
65-RG165	X	XA	113-RG316	II	IIA	171-00001	VIII	VIII	194-00001	VI	VIB
73-RG212	VIII	VIII	119-RG174	II	IIA	172-00001	II	IIA	196-00001	II	IIA
74-RG213	X	XA	127-RG393	X	XB	173-00001	II	IIA	197-00001	VI	VIA
74-RG215	XI	—	128-RG400	VI	VIB	174-00001	X	XB	198-00001	IV	IV
75-RG214	X	XB	133-RG316	II	IIA	175-00001	VI	VIB	199-00001	VIII	VIII
77-RG216	X	XD	152-00001	III	III	180-00001	VIII	VIII	200-00001	VI	VIB
78-RG217	XII	XII	155-00001	VI	VIA	181-00001	X	XC			
84-RG223	VI	VIB	157-00001	IV	IV	183-00001	VI	VIA			
86-00001	X	XB	158-00001	VI	VIB	184-00001	VII	VIIA			

## M39012/16—BNC Straight Plug



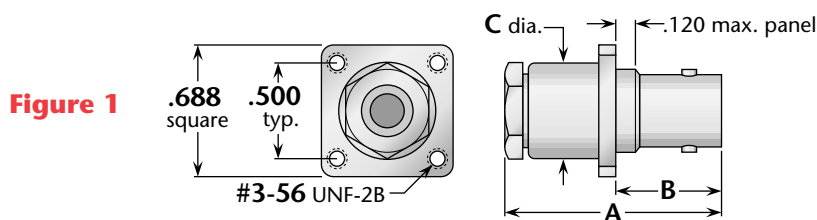
M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/16-0101	A	VI	1	1.06	.50	Silver	Gold (C)	A / 17
M39012/16-0102	A	VII	1	1.06	.50	Silver	Gold (C)	A / 17
M39012/16-0103	A	IV	1	1.06	.50	Silver	Gold (C)	A / 17
M39012/16-0111	A	VI	1	1.06	.50	Silver	Gold (C)	A / 17
M39012/16-0118	A	VII	1	1.06	.50	Silver	Gold (C)	A / 17
M39012/16-0220	A	II	1	1.06	.50	Silver	Gold (C)	A / 37
M39012/16-0225	A	X	2	1.66	.75	Silver	Gold (C)	A / 01

## M39012/17—BNC Straight Jack



M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/17-0101	A	VI	1	1.16	.50	Silver	Gold (C)	A / 17
M39012/17-0102	A	VII	1	1.16	.50	Silver	Gold (C)	A / 17
M39012/17-0103	A	IV	1	1.16	.50	Silver	Gold (C)	A / 17
M39012/17-0111	A	VI	1	1.16	.50	Silver	Gold (C)	A / 17
M39012/17-0118	A	VII	1	1.16	.50	Silver	Gold (C)	A / 17

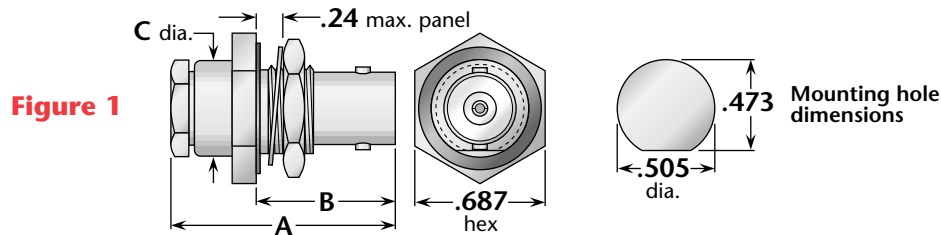
## M39012/18—BNC Panel Jack



M39012 P/N	Category	Cable Group	Figure	Dimensions			Plating		Assembly Procedure/ Trim Code
				A	B	C	Body	Contact	
M39012/18-0101	A	VII	1	1.16	.55	.50	Silver	Gold (C)	A / 17
M39012/18-0102	A	VI	1	1.16	.55	.50	Silver	Gold (C)	A / 17
M39012/18-0103	A	IV	1	1.16	.55	.50	Silver	Gold (C)	A / 17
M39012/18-0111	A	VI	1	1.16	.55	.50	Silver	Gold (C)	A / 17
M39012/18-0118	A	VII	1	1.16	.55	.50	Silver	Gold (C)	A / 17
M39012/18-0220	A	II	1	1.16	.55	.50	Silver	Gold (C)	A / 38

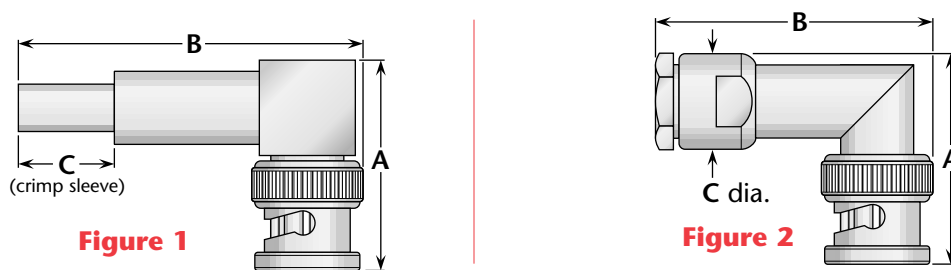
See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.

## M39012/19—BNC Bulkhead Jack



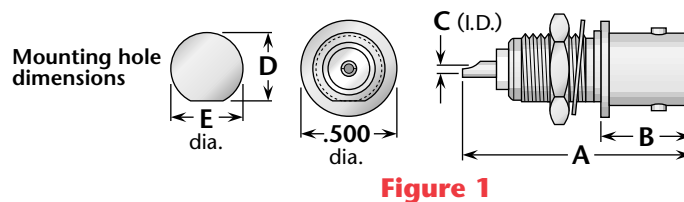
M39012 P/N	Category	Cable Group	Figure	Dimensions			Plating		Assembly Procedure/ Trim Code
				A	B	C	Body	Contact	
M39012/19-0101	A	VI	1	1.16	.81	.50	Silver	Gold (C)	A / 17
M39012/19-0102	A	VII	1	1.16	.81	.50	Silver	Gold (C)	A / 17
M39012/19-0110	A	IV	1	1.16	.81	.50	Silver	Gold (C)	A / 17
M39012/19-0111	A	VI	1	1.16	.81	.50	Silver	Gold (C)	A / 17
M39012/19-0118	A	VII	1	1.16	.81	.50	Silver	Gold (C)	A / 17
M39012/19-0220	A	II	1	1.16	.81	.50	Silver	Gold (C)	A / 17

## M39012/20—BNC Right Angle Plug



M39012 P/N	Category	Cable Group	Figure	Dimensions			Plating		Assembly Procedure/ Trim Code
				A	B	C	Body	Contact	
M39012/20-0006	C	VIA	1	1.07	1.63	.50	Silver	Gold (C)	B / 19
M39012/20-0007	C	VIB	1	1.07	1.63	.50	Silver	Gold (C)	B / 19
M39012/20-0101	A	VI	2	1.09	1.61	.50	Silver	Gold (C)	A / 17
M39012/20-0102	A	VII	2	1.09	1.61	.50	Silver	Gold (C)	A / 17
M39012/20-0108	A	VII	2	1.09	1.61	.50	Silver	Gold (C)	A / 17

## M39012/21—BNC Bulkhead Receptacle

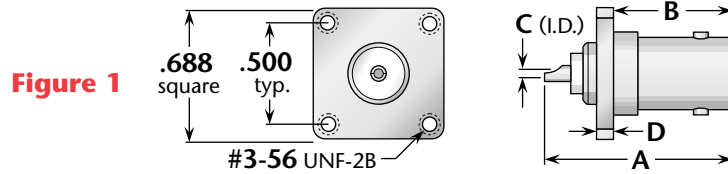


M39012 P/N	Figure	Dimensions					Maximum Panel	Plating	
		A	B	C	D	E		Body	Contact
M39012/21-0001	1	1.06	.49	.062	.410	.442	.13	Silver	Gold (C)
M39012/21-0002	1	1.19	.47	.062	.348	.380	.26	Silver	Gold (C)
M39012/21-0003	1	1.19	.47	.062	.410	.442	.26	Silver	Gold (C)

See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.

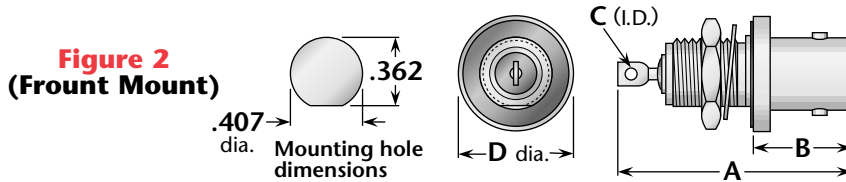
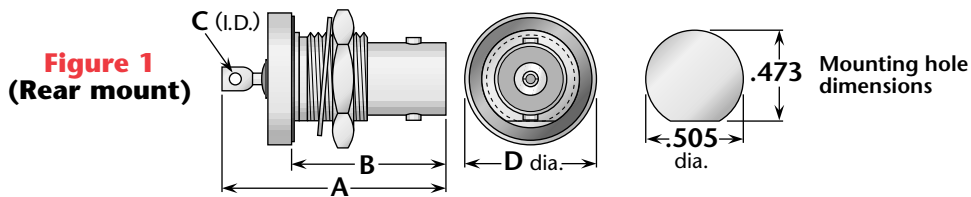


## M39012/22—BNC Panel Receptacle



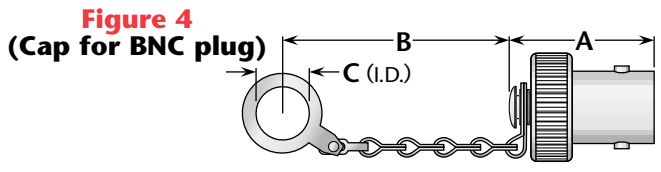
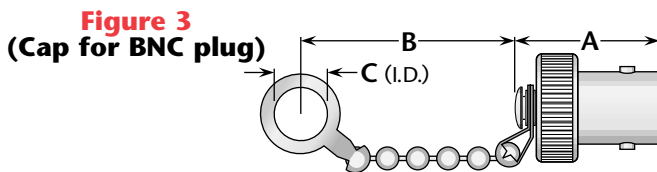
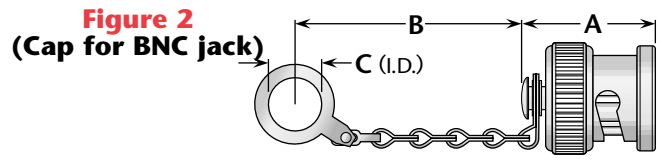
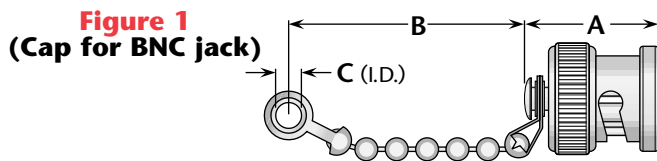
M39012 P/N	Figure	Dimensions				Maximum Panel	Plating	
		A	B	C	D		Body	Contact
M39012/22-0001	1	1.06	.63	.062	.090	.149	Silver	Gold (C)

## M39012/24—BNC Bulkhead Receptacle (Hermetically Sealed)



M39012 P/N	Figure	Dimensions				Maximum Panel	Plating	
		A	B	C	D		Body	Contact
M39012/24-0001	1	1.20	.83	.062	.687	.26	Silver	Gold (C)
M39012/24-0002	2	1.20	.52	.062	.594	.26	Silver	Gold (C)

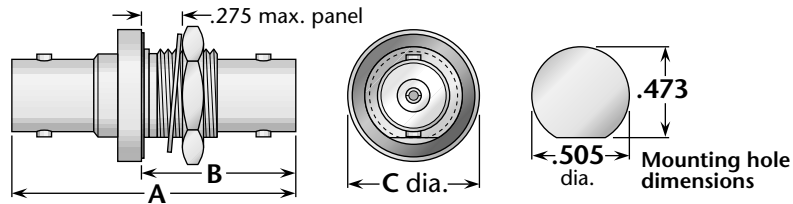
## M39012/25—BNC Dust Caps



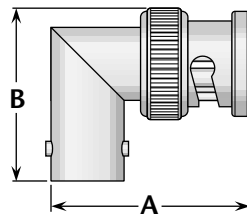
M39012 P/N	Figure	Dimensions			Chain Type	Plating	
		A	B	C		Body	Contact
M39012/25-0006	1	.67	2.25	.144	Bead	Silver	—
M39012/25-0007	2	.67	2.70	.52	Safety	Silver	—
M39012/25-0008	3	.69	3.25	.281	Bead	Silver	—
M39012/25-0009	4	.69	3.25	.281	Safety	Silver	—

(C) indicates captive contact.

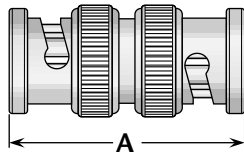
## M55339—BNC Adapters Within Series



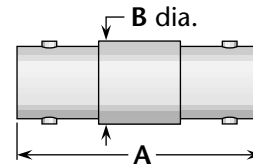
**Figure 1 (Bulkhead mounted jack-jack, hermetically sealed)**



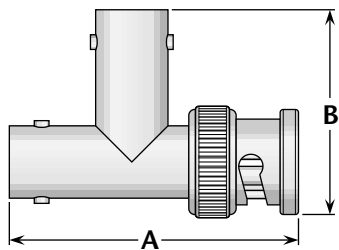
**Figure 2 (Right angle jack-plug)**



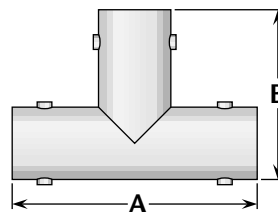
**Figure 3 (Straight plug-plug)**



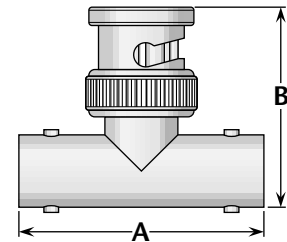
**Figure 4 (Straight jack-jack)**



**Figure 5 (Tee, jack-jack-plug)**



**Figure 6 (Tee, jack-jack-jack)**

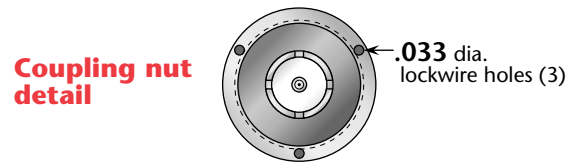
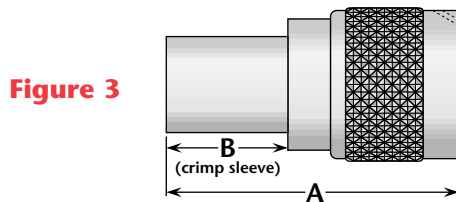
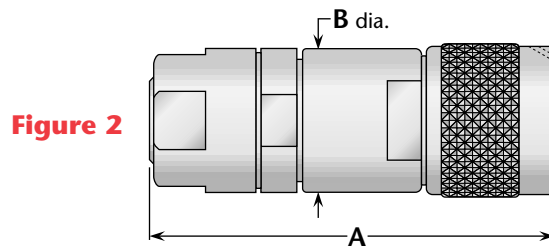
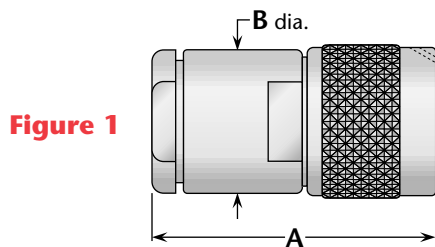


**Figure 7 (Tee, jack-plug-jack)**

M55339 P/N	Figure	Dimensions			Plating	
		A	B	C	Body	Contact
M55339/13-00492	1	1.53	.86	.69	Silver	Gold (C)
M55339/14-00306	2	1.06	.88	—	Silver	Gold (C)
M55339/15-00491	3	1.22	—	—	Silver	Gold (C)
M55339/16-00914	4	1.28	.44	—	Silver	Gold (C)
M55339/17-00001	5	1.50	1.06	—	Silver	Gold (C)
M55339/17-00002	6	1.28	.97	—	Silver	Gold (C)
M55339/17-00274	7	1.28	1.03	—	Silver	Gold (C)

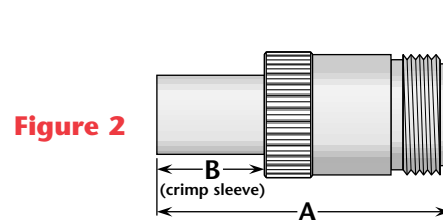
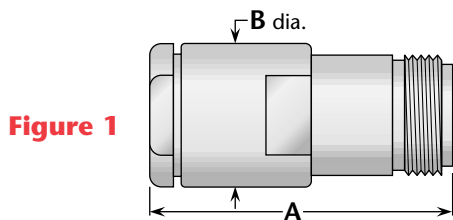
(C) indicates captive contact.

## M39012/01—N Straight Plug



M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/01-0005	A	X	1	1.50	.75	Silver	Gold (C)	A / 01
M39012/01-0015	A	XII	1	1.80	.88	Silver	Gold (C)	A / 01
M39012/01-0125	A	XI	2	2.42	.75	Silver	Gold (C)	Contact Factory
M39012/01-0501	D	XB	3	1.55	.60	Silver	Gold (C)	B / 03
M39012/01-0502	D	XA	3	1.55	.60	Silver	Gold (C)	B / 03
M39012/01-0503	D	VIB	3	1.45	.50	Silver	Gold (C)	B / 03
M39012/01B0007	B	XA	3	1.55	.60	Silver	Gold (C)	B / 03
M39012/01B0008	B	XB	3	1.55	.60	Silver	Gold (C)	B / 03

## M39012/02—N Straight Jack

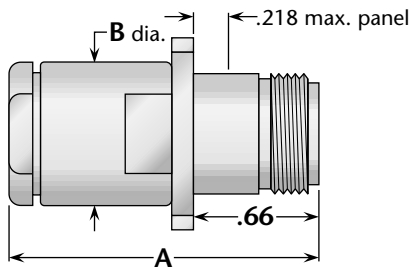


M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/02-0003	A	X	1	1.67	.75	Silver	Gold (C)	A / 01
M39012/02-0101	A	VIII	1	1.67	.75	Silver	Gold (C)	A / 01
M39012/02-0501	D	XB	2	1.64	.60	Silver	Gold (C)	B / 03
M39012/02-0502	D	XA	2	1.64	.60	Silver	Gold (C)	B / 03
M39012/02-0503	D	VIB	2	1.54	.50	Silver	Gold (C)	B / 03
M39012/02B0008	B	XA	2	1.64	.60	Silver	Gold	B / 10
M39012/02B0009	B	XB	2	1.64	.60	Silver	Gold	B / 10

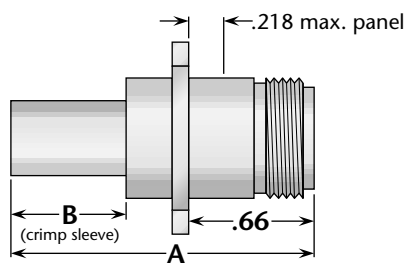
See next page for panel-mounted M39012/02 cable jacks.

See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.

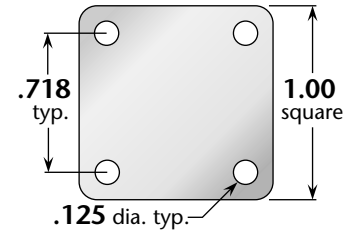
## M39012/02—N Panel Jack



**Figure 1**



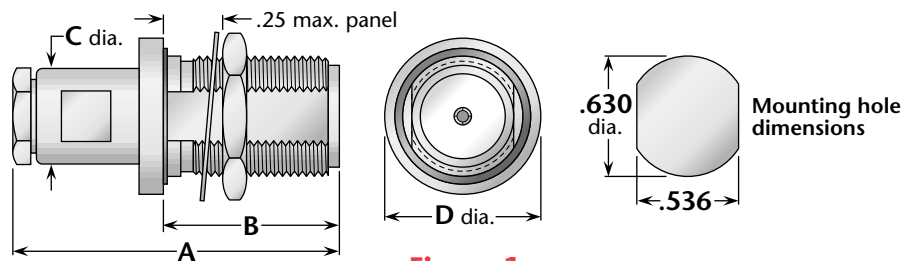
**Figure 2**



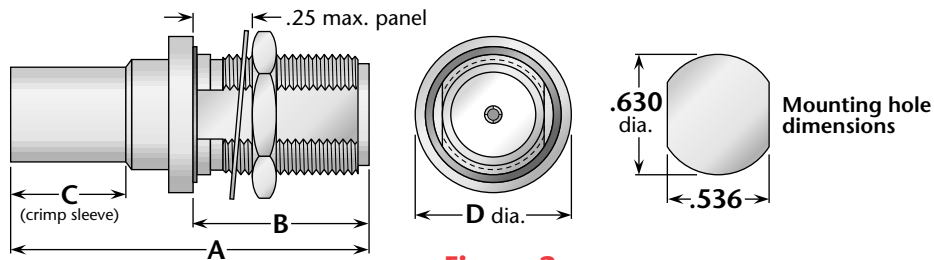
**Flange Dimensions**

M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/02-0006	A	X	1	1.67	.75	Silver	Gold (C)	A / 01
M39012/02-0104	A	VIII	1	1.67	.75	Silver	Gold (C)	A / 01
M39012/02-0511	D	XB	2	1.64	.60	Silver	Gold (C)	B / 03
M39012/02-0512	D	XA	2	1.64	.60	Silver	Gold (C)	B / 03
M39012/02-0513	D	VIB	2	1.54	.50	Silver	Gold (C)	B / 03

## M39012/03—N Bulkhead Jack



**Figure 1**



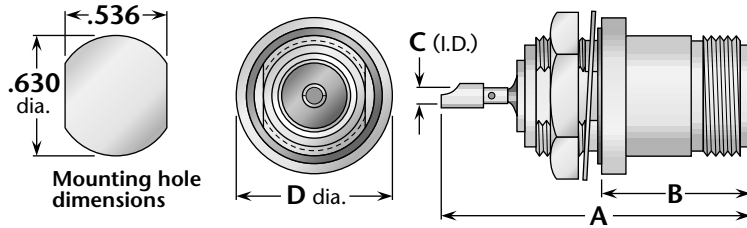
**Figure 2**

M39012 P/N	Category	Cable Group	Figure	Dimensions				Plating		Assembly Procedure/ Trim code
				A	B	C	D	Body	Contact	
M39012/03-0101	A	VIII	1	1.75	.92	.75	.900	Silver	Gold (C)	A / 01
M39012/03-0102	A	XII	1	1.90	.92	.88	.875	Silver	Gold (C)	A / 01
M39012/03-0501	D	XB	2	1.84	.92	.60	.875	Silver	Gold (C)	B / 03
M39012/03-0502	D	XA	2	1.84	.92	.60	.875	Silver	Gold (C)	B / 03
M39012/03-0503	D	VIB	2	1.74	.92	.50	.875	Silver	Gold (C)	B / 03
M39012/03B0004	B	XA	2	1.84	.92	.60	.875	Silver	Gold (C)	B / 03
M39012/03B0005	B	XB	2	1.84	.92	.60	.875	Silver	Gold (C)	B / 03

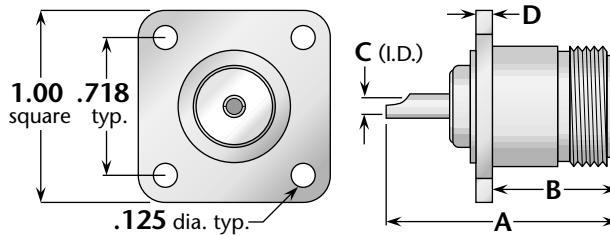
See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.

## M39012/04—N Receptacles

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



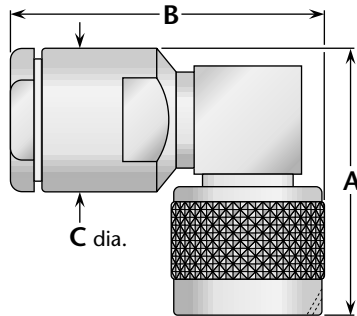
**Figure 2 (Panel jack)**



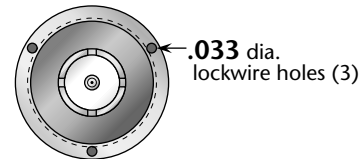
M39012 P/N	Figure	Dimensions				Maximum Panel	Plating	
		A	B	C	D		Body	Contact
M39012/04-0001	1	1.62	.707	.099	.812	.100	Silver	Gold (C)
M39012/04-0002	2	1.13	.66	.100	.080	.110	Silver	Gold (C)

## M39012/05—N Right Angle Plug

**Figure 1**



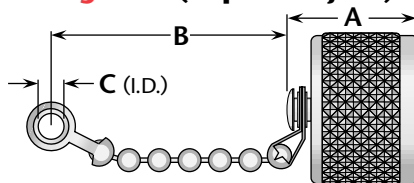
**Coupling nut detail**



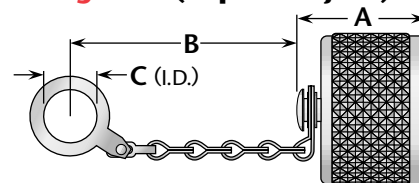
M39012 P/N	Category	Cable Group	Figure	Dimensions			Plating		Assembly Procedure/Trim Code
				A	B	C	Body	Contact	
M39012/05-0101	A	X	1	1.36	1.66	.75	Silver	Gold (C)	A / 07

## M39012/25—N Dust Caps

**Figure 1 (Cap for N jack)**



**Figure 2 (Cap for N jack)**

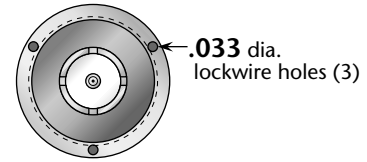
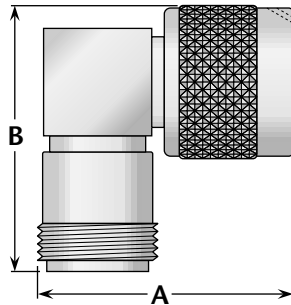


M39012 P/N	Figure	Dimensions			Chain Type	Plating	
		A	B	C		Body	Contact
M39012/25-0011	1	.56	2.50	.144	Bead	Silver	—
M39012/25-0012	2	.56	3.75	.635	Safety	Silver	—

See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.

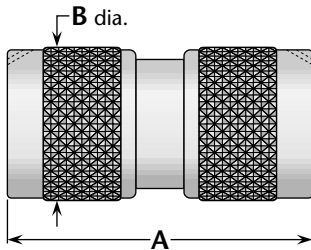
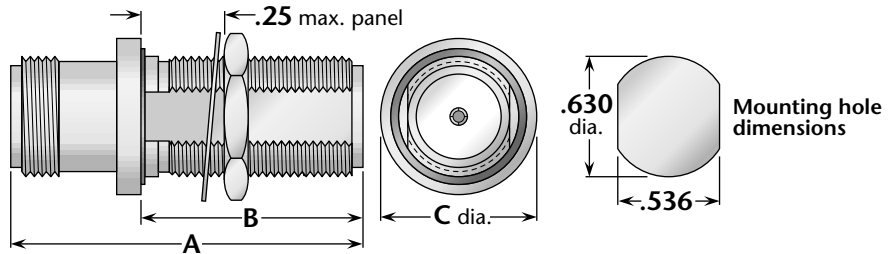
## M55339—N Adapters Within Series

**Figure 1**  
(Right angle jack-plug)



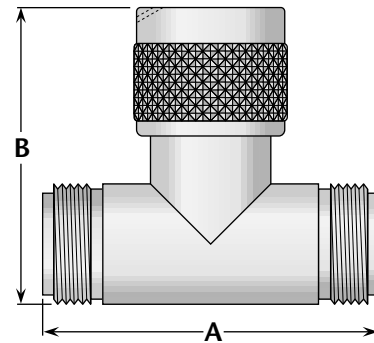
**Coupling nut detail**  
(For figures 1, 3, and 4)

**Figure 2**  
(Bulkhead mounted jack-jack, hermetically sealed)

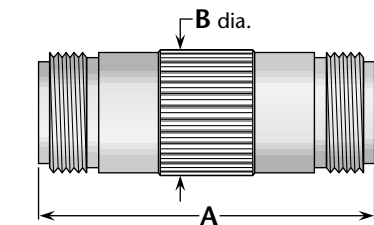
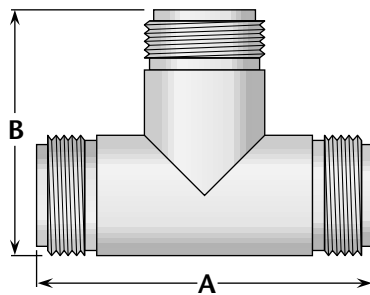


**Figure 3**  
(Straight plug-plug)

**Figure 4**  
(Tee, jack-plug-jack)



**Figure 5**  
(Tee, jack-jack-jack)



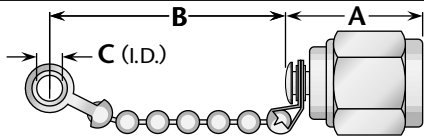
**Figure 6** (Straight jack-jack)

M55339 P/N	Figure	Dimensions			Plating	
		A	B	C	Body	Contact
M55339/03-00027	1	1.30	1.38	—	Silver	Gold (C)
M55339/04-00030	2	1.54	.86	.875	Silver	Gold (C)
M55339/05-00057	3	1.59	—	—	Silver	Gold (C)
M55339/06-00001	4	1.75	1.47	—	Silver	Gold (C)
M55339/06-00028	5	1.75	1.22	—	Silver	Gold (C)
M55339/07-00029	6	1.75	.66	—	Silver	Gold (C)

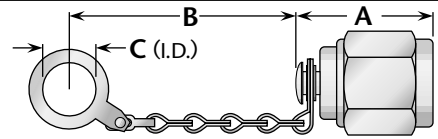
(C) indicates captive contact.

## M39012/25—SMA Dust Caps

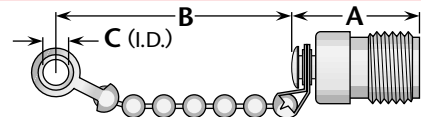
**Figure 1**  
(Cap for  
SMA jack)



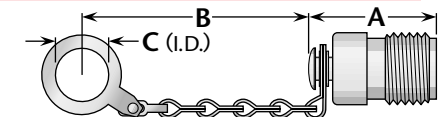
**Figure 2**  
(Cap for  
SMA jack)



**Figure 3**  
(Cap for  
SMA plug)

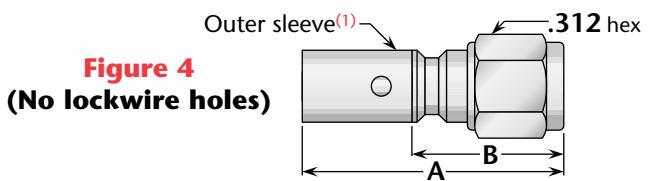
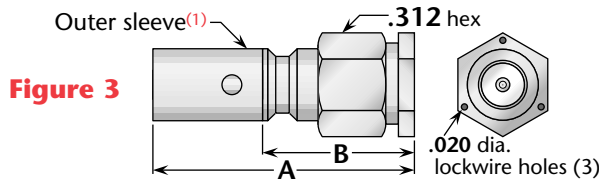
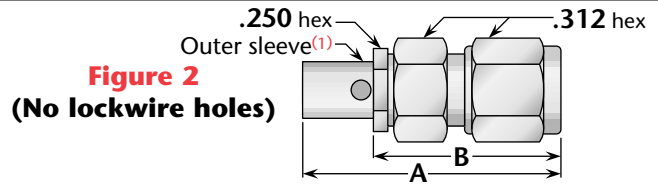
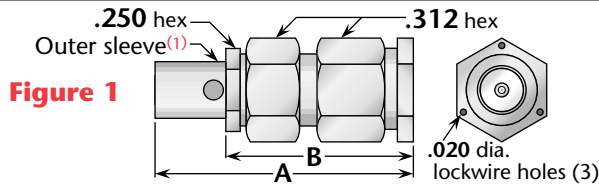


**Figure 4**  
(Cap for  
SMA plug)



M39012 P/N	Figure	Dimensions			Chain Type	Plating	
		A	B	C		Body	Contact
<b>M39012/25-3024</b>	1	.50	2.25	.144	Bead	Passivated	—
<b>M39012/25-3025</b>	2	.50	3.25	.281	Safety	Passivated	—
<b>M39012/25-3026</b>	3	.50	3.25	.144	Bead	Passivated	—
<b>M39012/25-3027</b>	4	.50	3.25	.281	Safety	Passivated	—

## M39012/55—SMA Straight Plug



M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
<b>M39012/55-3006</b>	A	I	1	.91	.67	Gold <sup>(2)</sup>	Gold (C)	M / 01
<b>M39012/55-3007</b>	A	II	1	.91	.67	Gold <sup>(2)</sup>	Gold (C)	M / 01
<b>M39012/55-3008</b>	A	IV	3	.94	.57	Gold <sup>(2)</sup>	Gold (C)	K / 12
<b>M39012/55-3009</b>	A	VI	3	.94	.57	Gold <sup>(2)</sup>	Gold (C)	K / 12
<b>M39012/55-3025</b>	C	I	1	.91	.67	Passivated	Gold (C)	M / 01
<b>M39012/55-3026</b>	C	IIA	1	.97	.67	Passivated	Gold (C)	M / 01
<b>M39012/55-3027</b>	C	IV	3	.94	.57	Passivated	Gold (C)	K / 12
<b>M39012/55-3028</b>	C	VIB	3	.95	.57	Passivated	Gold (C)	K / 12
<b>M39012/55-3029</b>	C	VIA	3	.97	.57	Passivated	Gold (C)	K / 12
<b>M39012/55-3030</b>	A	III	1	.91	.67	Gold <sup>(2)</sup>	Gold (C)	M / 01
<b>M39012/55-3106</b>	A	I	2	.91	.67	Gold <sup>(2)</sup>	Gold (C)	M / 01
<b>M39012/55-3107</b>	A	II	2	.91	.67	Gold <sup>(2)</sup>	Gold (C)	M / 01
<b>M39012/55-3108</b>	A	IV	4	.94	.57	Gold <sup>(2)</sup>	Gold (C)	K / 12
<b>M39012/55-3109</b>	A	VI	4	.94	.57	Gold <sup>(2)</sup>	Gold (C)	K / 12
<b>M39012/55-3125</b>	C	I	2	.91	.67	Passivated	Gold (C)	M / 01
<b>M39012/55-3126</b>	C	IIA	2	.97	.57	Passivated	Gold (C)	M / 01
<b>M39012/55-3127</b>	C	IV	4	.94	.57	Passivated	Gold (C)	K / 12
<b>M39012/55-3128</b>	C	VIB	4	.95	.57	Passivated	Gold (C)	K / 12
<b>M39012/55-3129</b>	C	VIA	4	.97	.57	Passivated	Gold (C)	K / 12
<b>M39012/55-3130</b>	A	III	2	.91	.67	Gold <sup>(2)</sup>	Gold (C)	M / 01

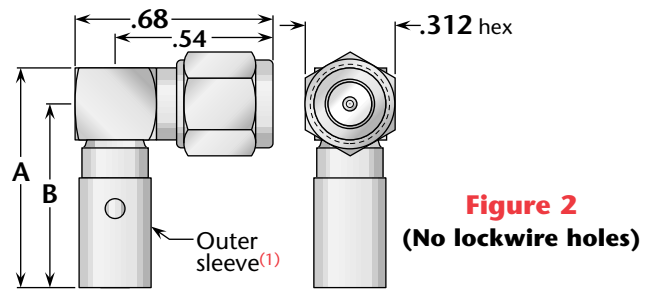
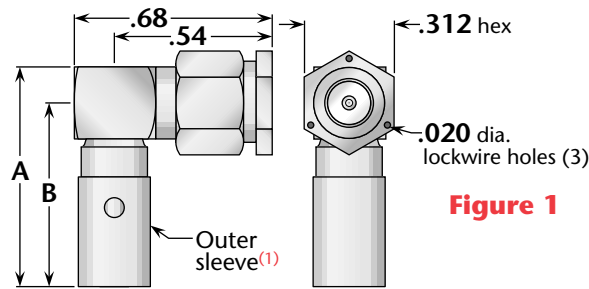
<sup>(1)</sup> Category A: Solder sleeve with access hole as shown; Category C: Crimp sleeve without access hole.

<sup>(2)</sup> Coupling nut is passivated; body tail is gold plated for soldering of cable braid.

See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.



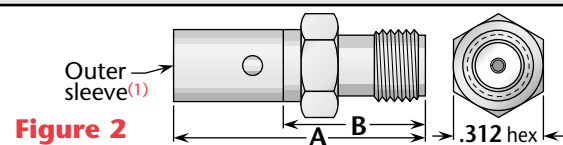
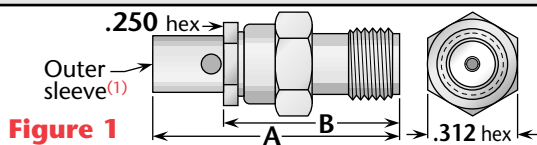
## M39012/56—SMA Right Angle Plug



M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/56-3006	A	I	1	.68	.55	Gold <sup>(2)</sup>	Gold (C)	L / 06
M39012/56-3007	A	II	1	.68	.55	Gold <sup>(2)</sup>	Gold (C)	L / 06
M39012/56-3008	A	IV	1	.76	.63	Gold <sup>(2)</sup>	Gold (C)	L / 01
M39012/56-3009	A	VI	1	.76	.63	Gold <sup>(2)</sup>	Gold (C)	L / 01
M39012/56-3025	C	I	1	.68	.55	Passivated	Gold (C)	L / 06
M39012/56-3026	C	IIA	1	.74	.61	Passivated	Gold (C)	L / 06
M39012/56-3027	C	IV	1	.68	.55	Passivated	Gold (C)	L / 06
M39012/56-3028	C	VIB	1	.69	.56	Passivated	Gold (C)	L / 06
M39012/56-3029	C	VIA	1	.71	.58	Passivated	Gold (C)	L / 06
M39012/56-3030	A	III	1	.68	.55	Gold <sup>(2)</sup>	Gold (C)	L / 06
M39012/56-3106	A	I	2	.68	.55	Gold <sup>(2)</sup>	Gold (C)	L / 06
M39012/56-3107	A	II	2	.68	.55	Gold <sup>(2)</sup>	Gold (C)	L / 06
M39012/56-3108	A	IV	2	.76	.63	Gold <sup>(2)</sup>	Gold (C)	L / 01
M39012/56-3109	A	VI	2	.76	.63	Gold <sup>(2)</sup>	Gold (C)	L / 01
M39012/56-3125	C	I	2	.68	.55	Passivated	Gold (C)	L / 06
M39012/56-3126	C	IIA	2	.74	.61	Passivated	Gold (C)	L / 06
M39012/56-3127	C	IV	2	.68	.55	Passivated	Gold (C)	L / 06
M39012/56-3128	C	VIB	2	.69	.56	Passivated	Gold (C)	L / 06
M39012/56-3129	C	VIA	2	.71	.58	Passivated	Gold (C)	L / 06
M39012/56-3130	A	III	2	.68	.55	Gold <sup>(2)</sup>	Gold (C)	L / 06

<sup>(1)(2)</sup> See page 194 for notes. See page 185 for cable groups and category definitions. Assembly procedures start on page 205. (C) indicates captive contact.

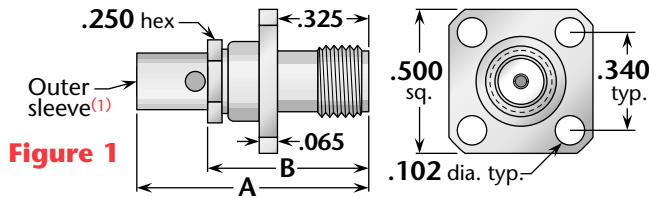
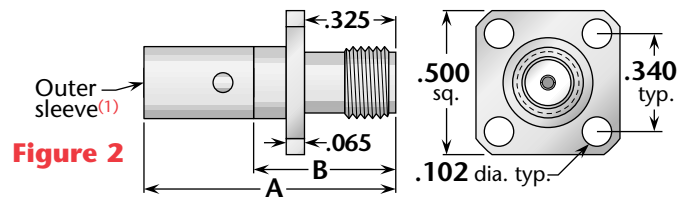
## M39012/57—SMA Straight Jack



M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/57-3006	A	I	1	.87	.63	Gold <sup>(2)</sup>	Gold (C)	M / 01
M39012/57-3007	A	II	1	.87	.63	Gold <sup>(2)</sup>	Gold (C)	M / 01
M39012/57-3008	A	IV	2	.90	.53	Gold	Gold (C)	K / 12
M39012/57-3009	A	VI	2	.90	.53	Gold	Gold (C)	K / 12
M39012/57-3025	C	I	1	.87	.63	Passivated	Gold (C)	M / 01
M39012/57-3026	C	IIA	1	.93	.63	Passivated	Gold (C)	M / 01
M39012/57-3027	C	IV	2	.91	.53	Passivated	Gold (C)	K / 12
M39012/57-3028	C	VIB	2	.91	.53	Passivated	Gold (C)	K / 12
M39012/57-3029	C	VIA	2	.93	.53	Passivated	Gold (C)	K / 12
M39012/57-3030	A	III	1	.87	.63	Gold <sup>(2)</sup>	Gold (C)	M / 01

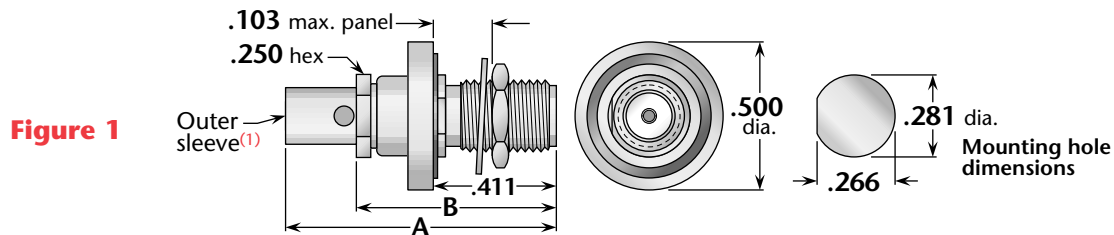
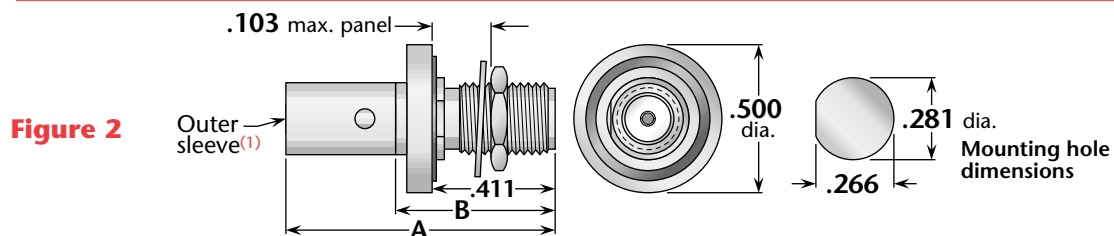
<sup>(1)(2)</sup> See page 196 for notes. See page 185 for cable groups and category definitions. Assembly procedures start on page 205. (C) indicates captive contact.

## M39012/58—SMA Panel Jack


**Figure 1**

**Figure 2**

M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
<b>M39012/58-3006</b>	A	I	1	.87	.63	Gold (2)	Gold (C)	M / 01
<b>M39012/58-3007</b>	A	II	1	.87	.63	Gold (2)	Gold (C)	M / 01
<b>M39012/58-3008</b>	A	IV	2	.90	.53	Gold	Gold (C)	K / 12
<b>M39012/58-3009</b>	A	VI	2	.90	.53	Gold	Gold (C)	K / 12
<b>M39012/58-3025</b>	C	I	1	.87	.63	Passivated	Gold (C)	M / 01
<b>M39012/58-3026</b>	C	IIA	1	.93	.63	Passivated	Gold (C)	M / 01
<b>M39012/58-3027</b>	C	IV	2	.91	.53	Passivated	Gold (C)	K / 12
<b>M39012/58-3028</b>	C	VIB	2	.91	.53	Passivated	Gold (C)	K / 12
<b>M39012/58-3029</b>	C	VIA	2	.93	.53	Passivated	Gold (C)	K / 12
<b>M39012/58-3030</b>	A	III	1	.87	.63	Gold (2)	Gold (C)	M / 01

## M39012/59—SMA Bulkhead Jack


**Figure 1**

**Figure 2**

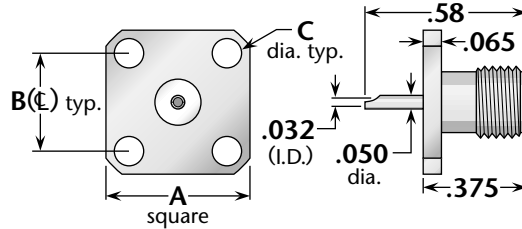
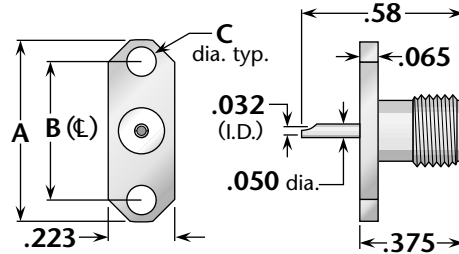
M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
<b>M39012/59-3006</b>	A	I	1	.87	.63	Gold (2)	Gold (C)	M / 01
<b>M39012/59-3007</b>	A	II	1	.87	.63	Gold (2)	Gold (C)	M / 01
<b>M39012/59-3008</b>	A	IV	2	.90	.53	Gold	Gold (C)	K / 12
<b>M39012/59-3009</b>	A	VI	2	.90	.53	Gold	Gold (C)	K / 12
<b>M39012/59-3025</b>	C	I	1	.87	.63	Passivated	Gold (C)	M / 01
<b>M39012/59-3026</b>	C	IIA	1	.93	.63	Passivated	Gold (C)	M / 01
<b>M39012/59-3027</b>	C	IV	2	.91	.53	Passivated	Gold (C)	K / 12
<b>M39012/59-3028</b>	C	VIB	2	.91	.53	Passivated	Gold (C)	K / 12
<b>M39012/59-3029</b>	C	VIA	2	.93	.53	Passivated	Gold (C)	K / 12
<b>M39012/59-3030</b>	A	III	1	.87	.63	Gold (2)	Gold (C)	M / 01

(1) Category A: Solder sleeve with access hole as shown; Category C: Crimp sleeve without access hole.

(2) Mating thread area is passivated; body tail is gold plated for soldering of cable braid.

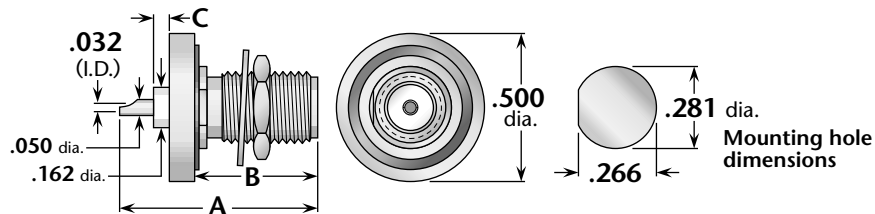
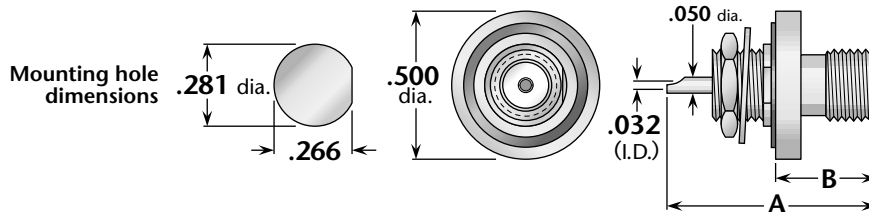
See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.

## M39012/60—SMA Panel Jack Receptacle

**Figure 1**

**Figure 2**


M39012 P/N	Figure	Dimensions			Plating	
		A	B	C	Body	Contact
M39012/60-3001	1	.500	.340	.102	Passivated	Gold (C)
M39012/60-3002	2	.625	.481	.102	Passivated	Gold (C)

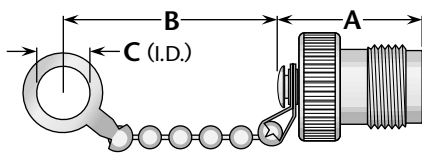
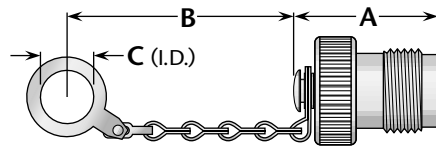
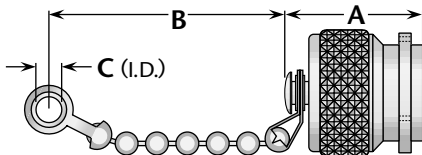
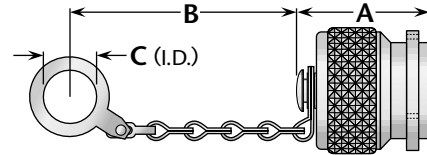
## M39012/61—SMA Bulkhead Jack Receptacle


**Figure 1 (Rear mount)**

**Figure 2 (Front mount)**

M39012 P/N	Figure	Dimensions			Maximum Panel	Plating	
		A	B	C		Body	Contact
M39012/61-3001	1	.69	.415	.062	.103	Passivated	Gold (C)
M39012/61-3002	2	.69	.310	—	.103	Passivated	Gold (C)

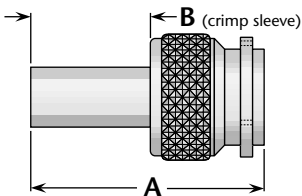
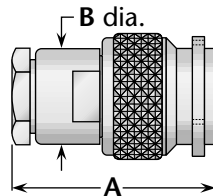
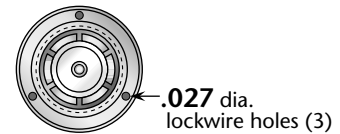
(C) indicates captive contact.

## M39012/25—TNC Dust Caps

**Figure 1 (Cap for TNC plug)**

**Figure 2 (Cap for TNC plug)**

**Figure 3 (Cap for TNC jack)**

**Figure 4 (Cap for TNC jack)**


M39012 P/N	Figure	Dimensions			Chain Type	Plating	
		A	B	C		Body	Contact
M39012/25-0018	1	.68	3.25	.281	Bead	Silver	—
M39012/25-0019	2	.68	3.25	.281	Safety	Silver	—
M39012/25-0020	3	.70	2.25	.144	Bead	Silver	—
M39012/25-0021	4	.70	2.70	.515	Safety	Silver	—

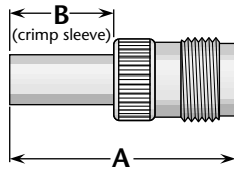
## M39012/26—TNC Straight Plug


**Figure 1**

**Figure 2**

**Coupling nut detail**

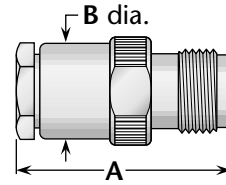
M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/26-0010	C	VIA	1	1.10	.50	Silver	Gold (C)	B / 19
M39012/26-0011	C	VIB	1	1.10	.50	Silver	Gold (C)	B / 19
M39012/26-0012	C	VIIA	1	1.10	.50	Silver	Gold (C)	B / 19
M39012/26-0013	C	IV	1	1.10	.50	Silver	Gold (C)	B / 19
M39012/26-0014	C	VIIIB	1	1.10	.50	Silver	Gold (C)	B / 19
M39012/26-0018	A	II	2	1.06	.50	Silver	Gold (C)	A / 17
M39012/26-0022	C	IIA	1	1.04	.44	Silver	Gold (C)	Contact Factory
M39012/26-0023	C	V	1	1.10	.50	Silver	Gold (C)	B / 19
M39012/26-0101	A	VI	2	1.06	.50	Silver	Gold (C)	A / 17
M39012/26-0102	A	VII	2	1.06	.50	Silver	Gold (C)	A / 17
M39012/26-0103	A	IV	2	1.06	.50	Silver	Gold (C)	A / 17

See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.

## M39012/27—TNC Straight Jack



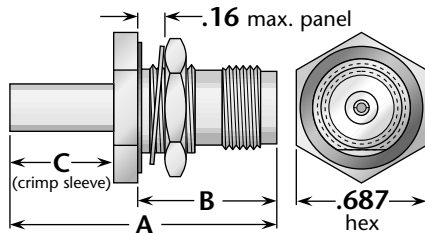
**Figure 1**



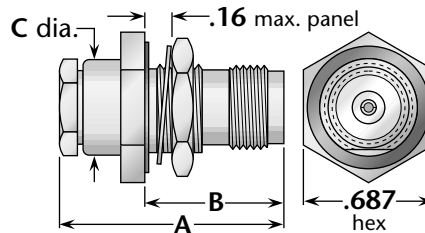
**Figure 2**

M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/27-0010	C	VIA	1	1.19	.50	Silver	Gold (C)	B / 19
M39012/27-0011	C	VIB	1	1.19	.50	Silver	Gold (C)	B / 19
M39012/27-0012	C	VIIA	1	1.19	.50	Silver	Gold (C)	B / 19
M39012/27-0013	C	IV	1	1.19	.50	Silver	Gold (C)	B / 19
M39012/27-0014	C	VIIB	1	1.19	.50	Silver	Gold (C)	B / 19
M39012/27-0018	A	II	2	1.16	.50	Silver	Gold (C)	A / 17
M39012/27-0022	C	IIA	1	1.13	.44	Silver	Gold (C)	Contact Factory
M39012/27-0023	C	V	1	1.19	.50	Silver	Gold (C)	B / 19
M39012/27-0101	A	VI	2	1.16	.50	Silver	Gold (C)	A / 17
M39012/27-0102	A	VII	2	1.16	.50	Silver	Gold (C)	A / 17
M39012/27-0103	A	IV	2	1.16	.50	Silver	Gold (C)	A / 17

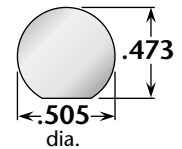
## M39012/28—TNC Bulkhead Jack



**Figure 1**



**Figure 2**

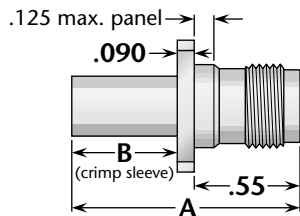


**Mounting hole dimensions**

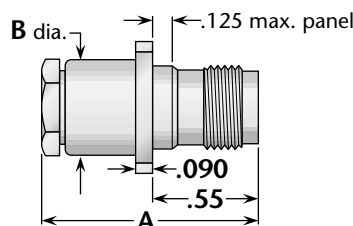
M39012 P/N	Category	Cable Group	Figure	Dimensions			Plating		Assembly Procedure/ Trim Code
				A	B	C	Body	Contact	
M39012/28-0010	C	VIA	1	1.43	.81	.50	Silver	Gold (C)	B / 19
M39012/28-0011	C	VIB	1	1.43	.81	.50	Silver	Gold (C)	B / 19
M39012/28-0012	C	VIIA	1	1.43	.81	.50	Silver	Gold (C)	B / 19
M39012/28-0013	C	IV	1	1.43	.81	.50	Silver	Gold (C)	B / 19
M39012/28-0014	C	VIIB	1	1.43	.81	.50	Silver	Gold (C)	B / 19
M39012/28-0018	A	II	2	1.16	.81	.50	Silver	Gold (C)	A / 17
M39012/28-0022	C	IIA	1	1.37	.81	.44	Silver	Gold (C)	Contact Factory
M39012/28-0023	C	V	1	1.43	.81	.50	Silver	Gold (C)	B / 19
M39012/28-0101	A	VI	2	1.16	.81	.50	Silver	Gold (C)	A / 17
M39012/28-0102	A	VII	2	1.16	.81	.50	Silver	Gold (C)	A / 17
M39012/28-0103	A	IV	2	1.16	.81	.50	Silver	Gold (C)	A / 17

See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.

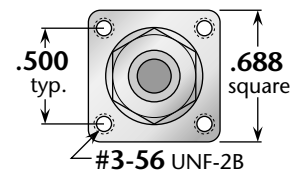
## M39012/29—TNC Panel Jack



**Figure 1**



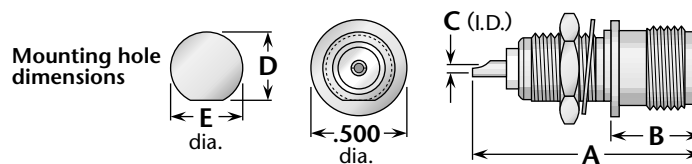
**Figure 2**



**Flange dimensions**

M39012 P/N	Category	Cable Group	Figure	Dimensions		Plating		Assembly Procedure/ Trim Code
				A	B	Body	Contact	
M39012/29-0010	C	VIA	1	1.17	.50	Silver	Gold (C)	B / 19
M39012/29-0011	C	VIB	1	1.17	.50	Silver	Gold (C)	B / 19
M39012/29-0012	C	VIIA	1	1.43	.50	Silver	Gold (C)	B / 19
M39012/29-0013	C	IV	1	1.17	.50	Silver	Gold (C)	B / 19
M39012/29-0014	C	VIIIB	1	1.17	.50	Silver	Gold (C)	B / 19
M39012/29-0018	A	II	2	1.16	.50	Silver	Gold (C)	A / 17
M39012/29-0022	C	IIA	1	1.13	.44	Silver	Gold (C)	Contact Factory
M39012/29-0101	A	VI	2	1.16	.50	Silver	Gold (C)	A / 17
M39012/29-0102	A	VII	2	1.16	.50	Silver	Gold (C)	A / 17
M39012/29-0103	A	IV	2	1.16	.50	Silver	Gold (C)	A / 17

## M39012/31—TNC Bulkhead Receptacle

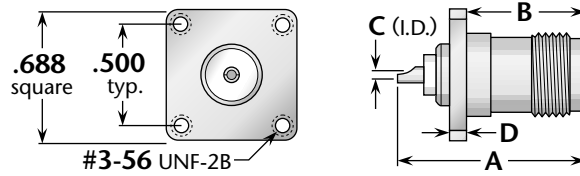


**Figure 1**

M39012 P/N	Figure	Dimensions					Maximum Panel	Plating	
		A	B	C	D	E		Body	Contact
M39012/31-0001	1	1.06	.47	.062	.410	.442	.13	Silver	Gold (C)
M39012/31-0002	1	1.19	.47	.062	.348	.380	.25	Silver	Gold (C)

See page 185 for cable groups and category definitions. • Assembly procedures start on page 205. • (C) indicates captive contact.

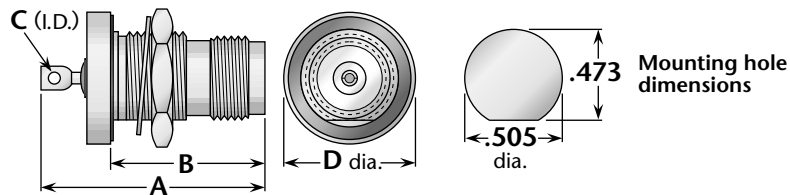
## M39012/32—TNC Panel Receptacle



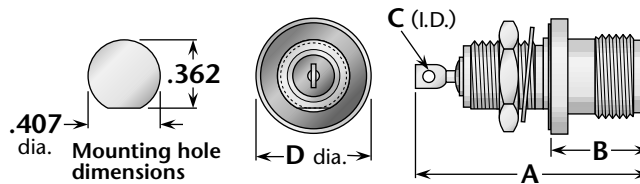
**Figure 1**

M39012 P/N	Figure	Dimensions				Maximum Panel	Plating	
		A	B	C	D		Body	Contact
<b>M39012/32-0001</b>	1	1.06	.63	.062	.090	.125	Silver	Gold (C)

## M39012/34—TNC Bulkhead Receptacle (Hermetically Sealed)



**Figure 1  
(Rear mount)**



**Figure 2  
(Front Mount)**

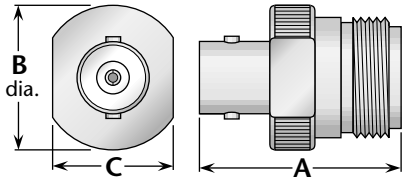
M39012 P/N	Figure	Dimensions				Maximum Panel	Plating	
		A	B	C	D		Body	Contact
<b>M39012/34-0001</b>	1	1.20	.83	.062	.687	.25	Silver	Gold (C)
<b>M39012/34-0002</b>	2	1.20	.52	.062	.594	.25	Silver	Gold (C)

(C) indicates captive contact.

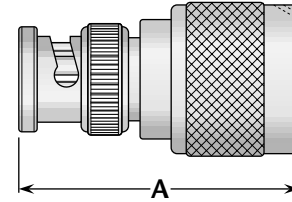




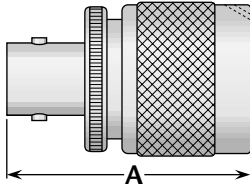
## M55339—Adapters Between Series



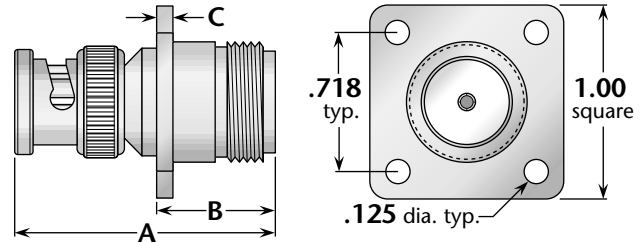
**Figure 1 (BNC jack—N jack)**



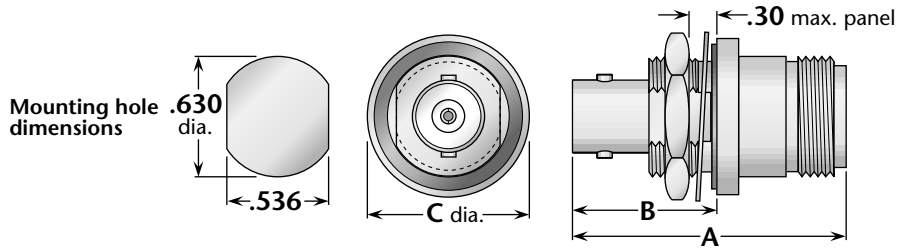
**Figure 2 (BNC plug—N plug)**



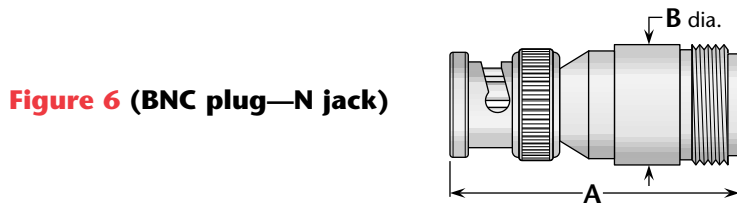
**Figure 3 (BNC jack—N plug)**



**Figure 4 (BNC plug—N jack, panel mounted)**



**Figure 5 (BNC jack—N jack, bulkhead mounted, pressurized)**

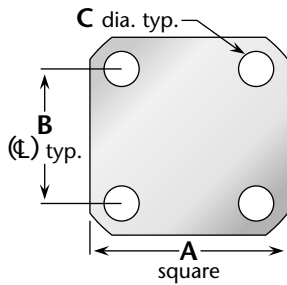


**Figure 6 (BNC plug—N jack)**

M55339 P/N	Figure	Dimensions			Plating	
		A	B	C	Body	Contact
M55339/01-00001	1	1.13	.75	.625	Silver	Gold (C)
M55339/18-01034	2	1.48	—	—	Silver	Gold (C)
M55339/20-00201	3	1.31	—	—	Silver	Gold (C)
M55339/24-00335	4	1.47	.736	.080	Silver	Gold (C)
M55339/25-00606	5	1.75	1.026	.812	Silver	Gold (C)
M55339/49-00349	6	1.47	.625	—	Silver	Gold (C)

(C) indicates captive contact.

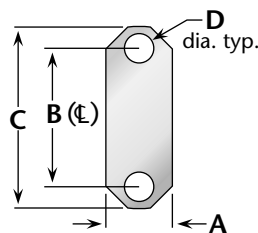
## Connector Flanges (Panel mounted connectors)



### 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	13/32	.812	.150
36	13/16	.906	#6-32 tap
39	13/16	.906	.152
40	13/16	.906	.125
45	2	1.437	.257
91	.375	.250	.067
91A	.375	.232	.093

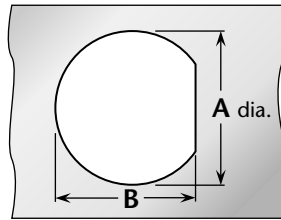
\* Countersunk to .245 dia.



### 2-hole flanges

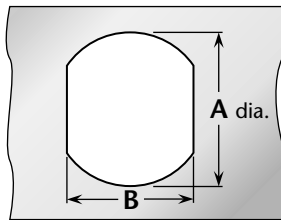
Figure	A	B	C	D
92	.223	.481	.625	.102
92A	.260	.481	.625	.102
95	.640	1.015	1.30	.125

## Panel Cutouts (Bulkhead mounted connectors)



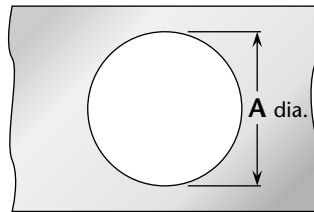
### D-Hole

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

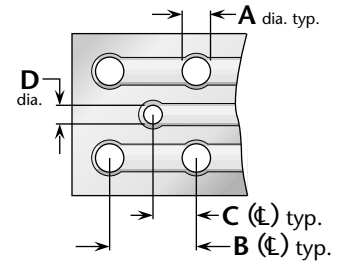
Figure	A	B
69	.755	.692
72	.630	.536
75	.380	.341
84	.319	.278



### Round Hole

Figure	A
82	.255
89	.380

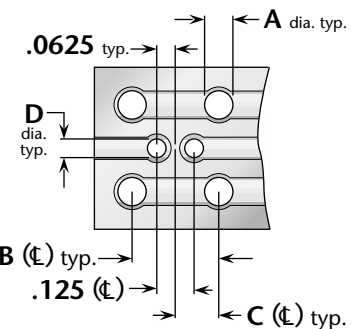
## P.C. Board Drilling



(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

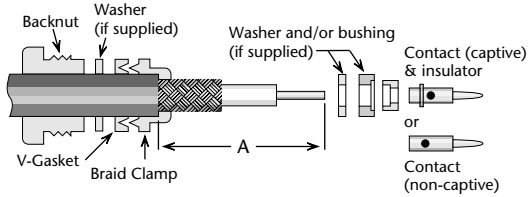
Delta Cable Groups		
Group	Cables	
1	1A	RG-5, 5A, 5B, 21, 21A; M17/73, /162
	1B	RG-6, 6A; M17/2
	1C	RG-143, 143A, 212, 222; M17/73, /112, /162
2	2A	RG-8, 8A, 213; M17/74
	2B	RG-11, 11A; M17/6
3	3A	RG-9, 9A, 9B, 214; M17/75
	3B	RG-13A, 216; M17/77
	3C	RG-225; M17/127
4	RG-393; M17/127	
5	RG-58, 58A, 58C, 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
	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	M17/54	8A
RG-115A	19	M17/60	6A
RG-118A	20	M17/73	1A
RG-122	8A	M17/74	2A
RG-126	21	M17/75	3A
RG-141, 141A	5	M17/77	3B
RG-142, 142A	6A	M17/78	16
RG-142B	6B	M17/84	6A
RG-143, 143A	1C	M17/93	11
RG-174	9A	M17/95	8B
RG-174DS	10	M17/97	7A
RG-178, 178A, B	11	M17/112	1C
RG-179A, 179B	9B	M17/127	3C
RG-180, 180A, B	8B	M17/128	6A
RG-187, 187A	9B	M17/129	12
RG-188, 188A	9A	M17/130	13
RG-195	8B	M17/133	14
RG-196, 196A	11	M17/137	8B
RG-210	7A	M17/152	10
RG-212	1C	M17/162	1A
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		

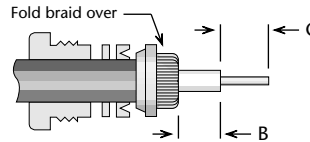
Note: MIL-PRF-39012 QPL connectors have cable groups defined by the MIL specification, not the Delta cable groups shown here. See page 185 for M39012 cable groups.

## Assembly Procedure A

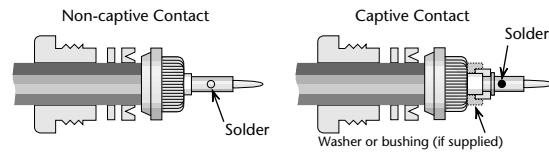
- 1)** Trim cable jacket to dimension A. Slide backnut, washer, V-gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.



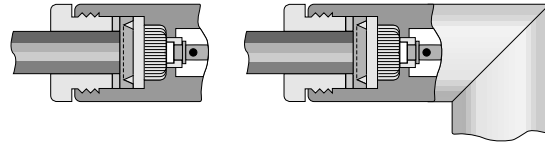
- 2)** Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with step of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.



- 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.

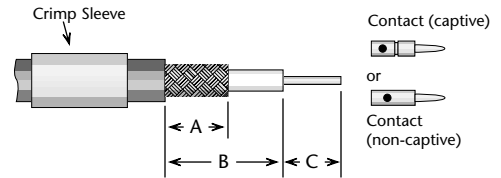


### Trim Codes For Assembly Procedure A

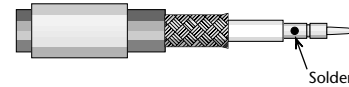
Code	A	B	C	Code	A	B	C
A/01	.375 (3/8)	.047 (3/64)	.203 (13/64)	A/20	.375 (3/8)	.047 (3/64)	.172 (11/64)
A/02	.375 (3/8)	.109 (7/64)	.203 (13/64)	A/21	.500 (1/2)	.313 (5/16)	.172 (11/64)
A/03	.438 (7/16)	.250 (1/4)	.188 (3/16)	A/22	.375 (3/8)	.188 (3/16)	.141 (9/64)
A/04	.281 (9/32)	.047 (3/64)	.125 (1/8)	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

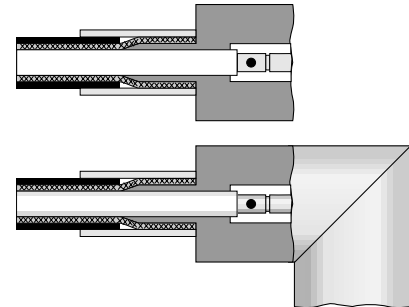
- 1)** Trim cable per chart. Slide crimp sleeve back onto cable.



- 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.



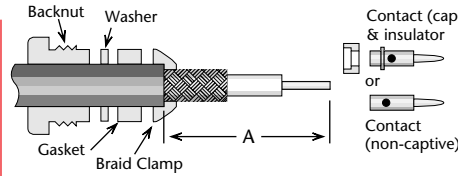
Trim excess braid wires even with shoulder of body. Slide crimp sleeve forward until flush with body and crimp (see page 211 for hex die sizes).

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.

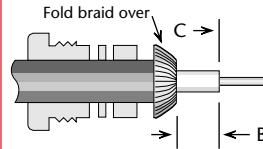
### Trim Codes For Assembly Procedure B

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	.236	.280	.140
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

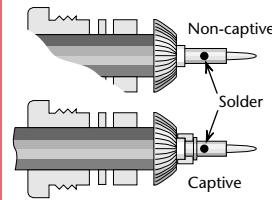
## Assembly Procedure C



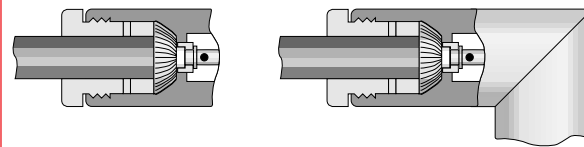
**1)** Trim cable jacket to dimension A. Slide backnut, washer, gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.



**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.

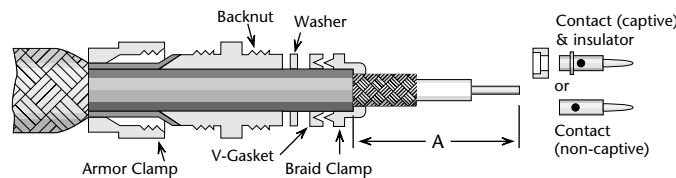


**4)** Insert prepared cable and hardware into body and tighten backnut. For right angle connectors with access cap, solder cable center conductor to slot in contact and tighten access cap.

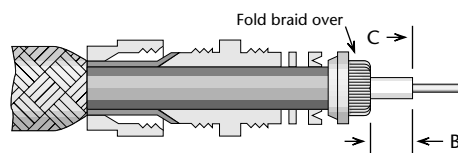
### Trim Codes

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)

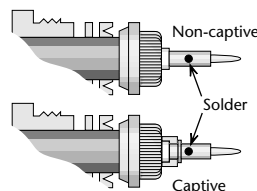
## Assembly Procedure D



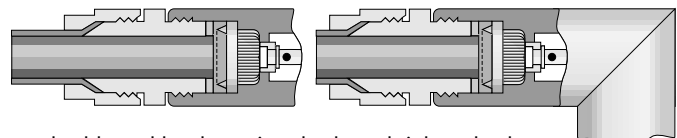
**1)** Slide armor clamp over cable. Push armor back to expose cable end. Slide backnut, washer (if supplied), gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp. Trim cable jacket to dimension A.



**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.



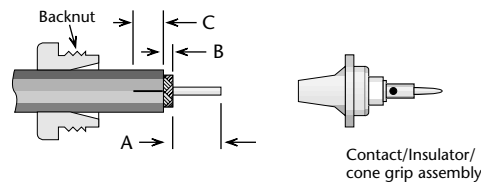
**4)** Insert prepared cable and hardware into body and tighten backnut. Trim armor to fit between armor clamp and braid clamp. Tighten armor clamp.

### Trim Codes

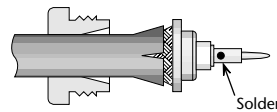
Code	A	B	C
D/01	.375 (3/8)	.047 (3/64)	.250 (1/4)
D/02	.500 (1/2)	.188 (3/16)	.219 (7/32)
D/03	.344 (11/32)	.047 (3/64)	.219 (7/32)
D/04	.313 (5/16)	.047 (3/64)	.172 (11/64)
D/05	.625 (5/8)	.281 (9/32)	.250 (1/4)
D/06	.313 (5/16)	.062 (1/16)	.109 (7/64)

## Assembly Procedure E

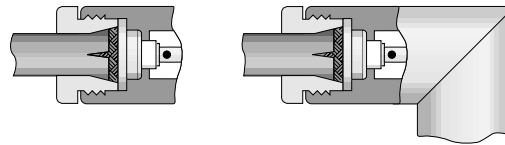
Trim Codes			
Code	A	B	C
E/01	.250 (1/4)	.141 (9/64)	.313 (5/16)
E/02	.219 (7/32)	.063 (1/16)	.250 (1/4)
E/03	.250 (1/4)	.031 (1/32)	.250 (1/4)



- 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.



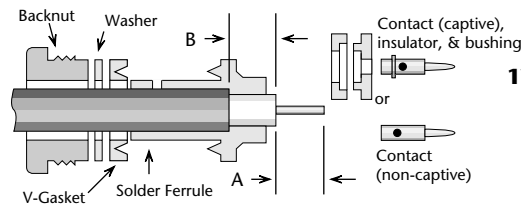
- 2) Slide cone/insulator/contact assembly under braid until braid is flush with shoulder. Solder contact to center conductor.



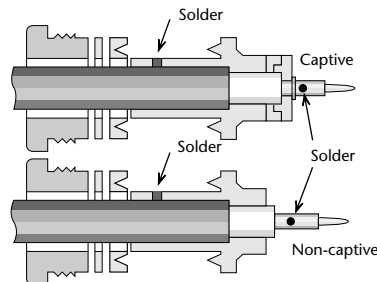
- 3) Insert prepared cable and hardware into body; tighten assembly by holding nut stationary and turning body.

## Assembly Procedure F

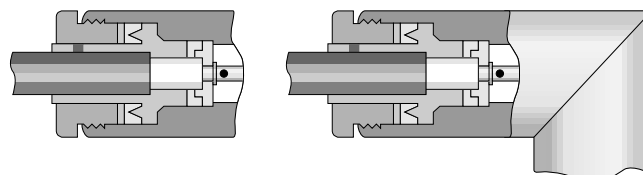
Trim Codes		
Code	A	B
F/01	.250 (1/4)	.219 (7/32)
F/02	.250 (1/4)	.172 (11/64)
F/03	.188 (3/16)	.188 (3/16)
F/04	.109 (7/64)	.265 (17/64)
F/05	.156 (5/32)	.250 (1/4)
F/06	.219 (7/32)	.250 (1/4)
F/07	.156 (5/32)	.172 (11/64)
F/08	.109 (7/64)	.219 (7/32)



- 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.



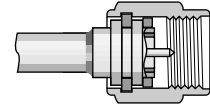
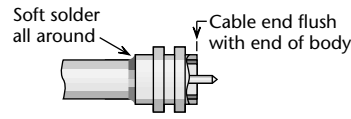
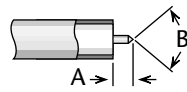
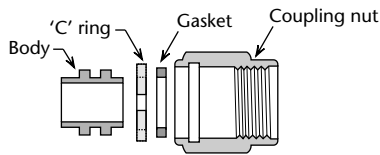
- 2) Solder ferrule to cable jacket as shown. Retrim cable dielectric to proper length if it has extruded from soldering heat. Slide bushing and rear insulator over cable dielectric if captive contact. Solder contact onto center conductor; back of contact flush with trimmed end of cable dielectric.



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



## Assembly Procedure G



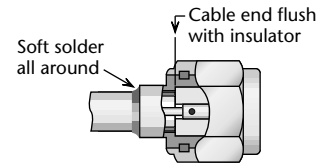
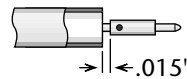
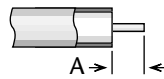
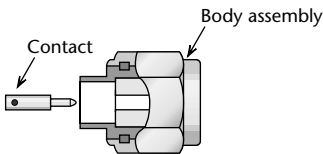
Trim Codes		
Code	A	B
G/01	.090	70-90°

**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.

## Assembly Procedure H



Trim Codes	
Code	A
H/01	.090
H/02	.060
H/03	.115
H/04	.150

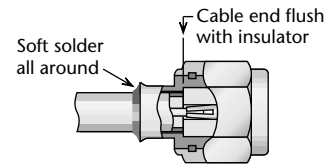
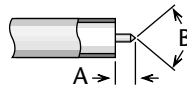
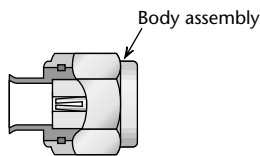
**1) Trim cable as shown.**  
Remove any burrs from jacket and center conductor.

**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.

## Assembly Procedure I



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

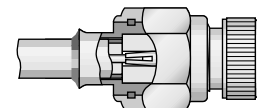
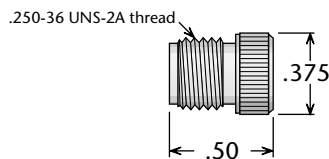
**1) Trim cable as shown.**  
Remove any burrs from jacket and center conductor.

**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.

## Cable Positioner

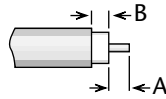
For .085" Cable: P/N <b>63-10072-2</b>
For .141" Cable: P/N <b>63-10072-1</b>



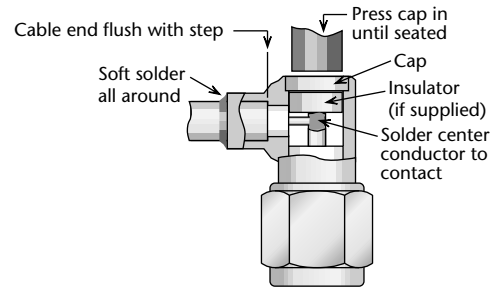
Using this positioner in the final step of assembly procedure H or I (for plugs only) will ensure that the contact and insulator are retained in the proper position to meet MIL-C-39012 requirements. The positioner should be screwed finger-tight into the mating end of the connector (as shown at right)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

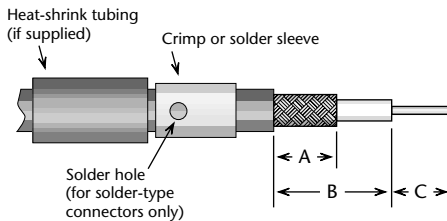


**1)** Trim cable as shown. Remove any burrs from jacket and center conductor.

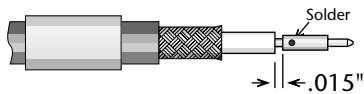


**2)** Soft solder cable jacket to body, making sure that end of cable is flush with step in body. Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.

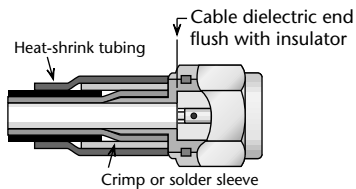
## Assembly Procedure K



**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.

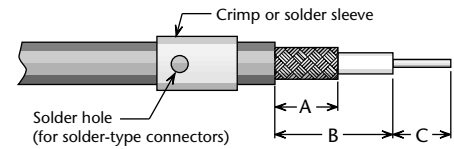
Trim Codes							
Code	A	B	C	Code	A	B	C
K/01	.250	.270	.110	K/07	.220	.290	.135
K/02	.200	.270	.140	K/08	.420	.620	.090
K/03	.225	.290	.110	K/09	.090	.135	.160
K/04	.225	.330	.110	K/10	.250	.415	.115
K/05	.250	.330	.110	K/11	.250	.400	.150
K/06	.250	.315	.095	K/12	.282	.390	.140

## Assembly Procedure L

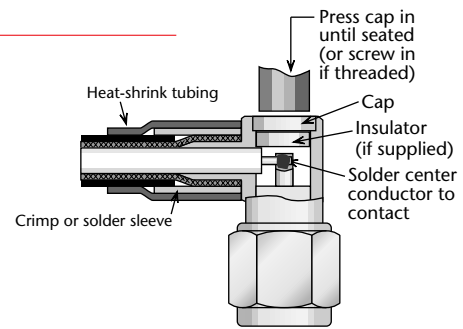
### Trim Codes

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.

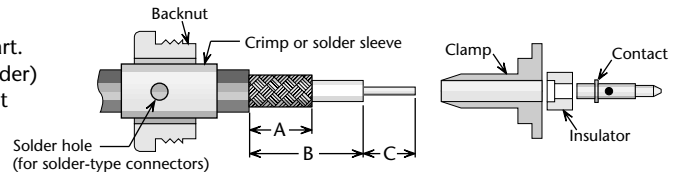


## Assembly Procedure M

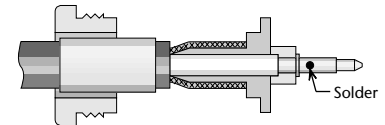
### Cable Trim Codes

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

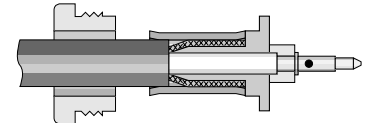
- 1)** Trim cable per chart. Slide crimp (or solder) sleeve and backnut onto cable.



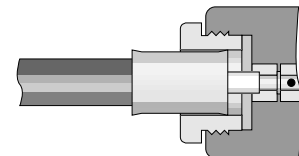
- 2)** Flare cut end of braid slightly by rotating dielectric. Insert cable into rear of clamp, with all braid wires on outside of crimp tail. Slide insulator over cable dielectric until it is flush with front of clamp, and cable insulation bottoms inside insulator. Slide contact onto center conductor,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



Delta P/N	Page	Delta P/N	Page	Delta P/N	Page
10-10676-01-AG	170	1004-019-N005	16	1011-036-N070	20
10-10677-01-AG	170	1004-021-N000	15	1011-036-N071	20
10-10678-01-AG	170	1004-021-N001	15	1011-037-N075	21
10-10679-01-AG	170	1004-025-N003	15	1011-038-N070	20
10-10680-01-AG	170	1004-029-N005	16	1011-038-N071	20
10-10681-01-AG	170	1004-031-N003	15	1011-038-N075	21
10-10682-01-AG	170	1004-036-N000	15	1011-043-N075	21
10-10683-01-AG	170	1004-037-N005	16	1011-100-N075	21
10-10684-01-AG	170	1004-038-N005	16	1013-000-F181	22
10-10685-01-AG	170	1004-043-N000	15	1013-000-N090	22
10-10686-01-AG	170	1004-043-N005	16	1013-000-N100	22
10-10688-01-AG	170	1004-100-N005	16	1013-000-N180	22
1001-001-N000-1	13	1005-014-N000	15	1013-000-N330	22
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1001-015-N005-3	14	1005-029-N000	15	1015-000-N090	23
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1001-019-N005	14	1007-015-N000	16	1016-004-N511	18
1001-021-N001	13	1007-017-N000-3	16	1016-015-N591	18
1001-025-N003	13	1007-019-N000-1	16	1016-015-N595	19
1001-029-N001	13	1008-004-N000	17	1016-018-N595	19
1001-029-N005-1	14	1008-015-N001	17	1016-019-N595	19
1001-031-N003	13	1008-015-N005	17	1016-021-N591	18
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1001-037-N005	14	1008-021-N001	17	1016-031-N593	19
1001-038-N000	13	1008-025-N003	17	1016-036-N590	18
1001-038-N005	14	1008-029-N005	17	1016-036-N591	18
1001-043-N000	13	1008-031-N003	17	1016-037-N595	19
1001-043-N001	13	1008-036-N000	17	1016-038-N590	18
1001-043-N005	14	1008-036-N001	17	1016-038-N591	18
1001-100-N005	14	1008-037-N005	17	1016-038-N595-2	19
1001-132-N000	13	1008-038-N000	17	1016-043-N595	19
1003-005-N000	14	1008-038-N005-2	17	1016-100-N595-2	19
1003-013-N000	14	1008-043-N005	17	1017-014-N570	18
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1003-017-N00E-2	14	1010-017-N000-1	17	1019-020-N590	19
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1004-015-N005	16	1011-029-N075	21	1029-000-N000-3	30
1004-018-N005	16	1011-031-N073	20	1031-000-N000-4	28



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1034-000-N000.....	30	1103-017-N001.....	69	1111-031-A091-1.....	78
1038-000-N000-2.....	30	1103-018-N001.....	69	1111-031-A333-4.....	78
1049-000-N000.....	30	1103-020-N000.....	69	1111-031-N333-1.....	78
1051-000-N000.....	28	1103-020-N001.....	69	1111-036-N330.....	77
1051-000-N00A-2.....	28	1103-070-N000.....	69	1111-036-N331.....	77
1051-000-N00A-5.....	28	1103-079-N000.....	69	1111-037-N335-1.....	77
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1057-000-N000.....	26	1105-015-N001.....	71	1113-000-N181.....	79
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UG-1094A/U	24		
UG-1095B/U	77		



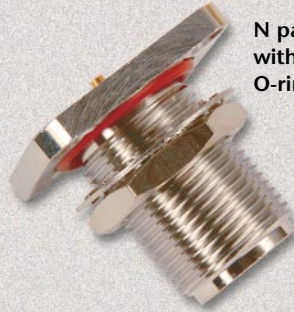


Although this catalog shows a good representation of the scope of our product lines and capabilities, it cannot include all of the special-purpose RF connectors we have developed and manufactured over the years in response to our customers' specific requirements. We hope that this sampling of our unique designs will give you a better idea of our capability to design exactly the connector you need for your project. Our engineering staff welcomes your inquiries for special connector configurations of any series or specifications.

SMA PressMount jack receptacle with right-angle post contact



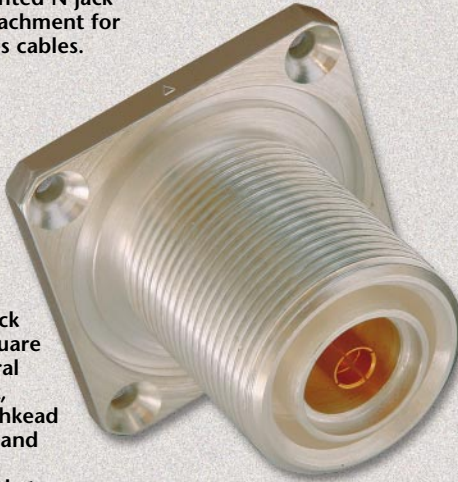
N panel jack receptacle with bulkhead mounting, O-ring, and post contact.



N right angle push-on plug with three-hole flange and crimp cable attachment. Mates with standard type N jack.



Bulkhead-mounted N jack with crimp attachment for six RG-58 series cables.



7/16 panel jack with 1.75" square flange, integral outer contact, extended bulkhead mount body, and provision for mounting gasket.



SMA jack receptacle with threaded mounting, mounting gasket, and post contact.



Type N jack with round flange for antenna mounting; solder post provided for secondary ground signal connection.



BMC (high-frequency slide-on mating) adapters to SMA jacks. One side of mating pair float mounted for use in rack and panel applications.



N PressMount jack, with mounting gasket, direct-solder type for semi-rigid cable.



Straight and right angle slide-on panel mounted BNC plugs, clamp and crimp type cable attachment—mate with standard BNC jacks.



BMA edge mount PCB plug receptacle with bulkhead mount.



SMA bulkhead cable jack, crimp type, with 45-degree cable entry.

## Definitions

### Mating Ends and Body Styles

**Plug:** The connector in a mating pair which has the *active* mating mechanism (rotating coupling nut, spring lock, etc.).

**Jack:** The connector in a mating pair which has the *passive* mating mechanism (bayonet studs, grooves for spring locks, external threads, etc.).

**Receptacle:** A connector which is attached to a bulkhead, panel, or component housing and *does not* accept coaxial cable.

**Dummy Receptacle:** An empty receptacle body (no contact or insulator) used to secure a plug when the plug is not in use.

**Resistive Termination (dummy load):** A connector incorporating a resistor between the center contact and the outer body; used to simulate a load within a circuit.

### Mounting Styles

**Bulkhead mount:** Threaded body for insertion through a single hole in a panel; secured by hex nut.

**Panel mount:** Square or rectangular flange, with mounting hole to secure flange to panel with screws, or with nuts and bolts.

**PressMount:** Round knurled body for mounting by pressing into a round hole in panel.

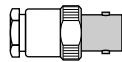
**Note:** "PLUG" or "JACK" should always be used to define mating end, not contact gender—some series have female contacts in plugs and male contacts in jacks as the standard configuration.

## Cable Connector Configuration Examples

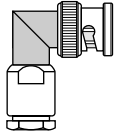
### Mating Ends and Body Styles



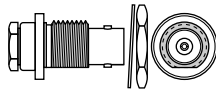
Straight cable plug



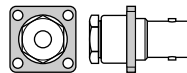
Straight cable jack



Right angle cable plug



Bulkhead mount cable jack



Panel mount cable jack

### Cable Attachment Methods:

Refer to these assembly procedures for details of the specified cable attachment method.

*Flexible Cables:*

Crimp: See Assembly Procedure B.

Heli-Grip: See Assembly Procedure E.

MIL clamp: See Assembly Procedure A.

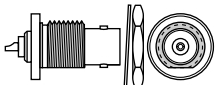
*Semi-Rigid Cables:*

Direct solder: See Assembly Procedure H.

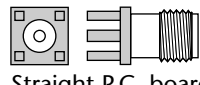
Solder-clamp: See Assembly Procedure F.

## Receptacle Configuration Examples

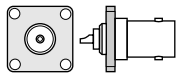
### Mounting Styles



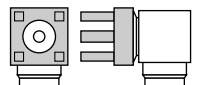
Bulkhead mount jack receptacle



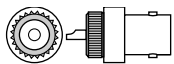
Straight P.C. board jack receptacle



Panel mount jack receptacle

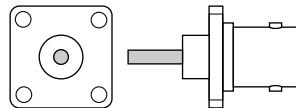


Right angle P.C. board jack receptacle

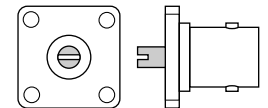


PressMount jack receptacle

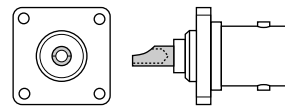
### Contact Termination Styles



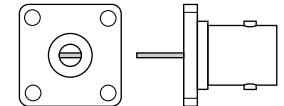
Post contact  
(shown with extended insulator)



Slotted contact  
(shown with flush insulator)

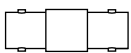


Solder pot contact  
(shown with extended insulator)

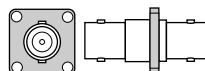


Tab contact  
(shown with flush insulator)

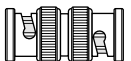
## Adapter Configuration Examples



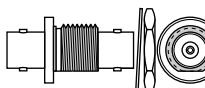
Straight jack-jack adapter



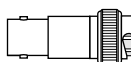
Straight jack-jack panel mount adapter



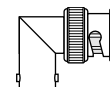
Straight plug-plug adapter



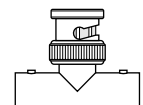
Straight jack-jack bulkhead mount adapter



Straight jack-plug adapter



Right angle jack-plug adapter



Tee adapter, jack-plug-jack



For your convenience, you can fill in the form fields below and print this page (or print the page and type or print the information), and FAX to Delta at (978) 922-6430. Please include any other pertinent information (drawing, other requirements, etc.).

Date:  Response required by (date):

## 1 Customer Information:

Name:  Phone:  FAX:   
 Company:  Specification/drawing #   
 Address:  Program/product reference:   
 e-mail:  → (Go to Block 2 or 3 or 4)

## 2 Cross-Reference from Competitor's Part:

Exact match required  Functional equivalent OK

Manufacturer:  P/N  (Go to Block 6)

## 3 Standard (or Modified Version of) Delta Catalog Connector:

Delta P/N:

with these modifications:  (Go to Block 6)

## 4 New Connector:

Series:  7/16  BNC  C  HN  MHV  N  SC  SMA  SMB  SMC  TNC  Other:

### Cable Connector:

Style:  Straight plug  Right angle plug  Straight jack  Right angle jack  Bulkhead jack, mounting figure   
 Panel jack, mounting figure   Other body style:

Cable group or type:  Cable attachment:  Crimp  Heli-Grip  MIL clamp  Direct solder  Solder-clamp

Contact captivation:  Captive  Non-captive Contact attachment:  Solder  Crimp (Go to Block 5)

### Receptacle:

Configuration:  Jack  Plug  Straight  Right angle  Panel, mounting figure   PressMount  P.C. board

Bulkhead, mounting figure   Mounting nut in front of panel  Mounting nut behind panel

Other configuration or mounting style:

Contact captivation:  Non-captive  Captive; captivation method:  Mechanical  Epoxy  No preference

Contact termination:  Post  Slotted  Solder pot  Tab  Other:  (Go to Block 5)

### Adapter Within Series:

Configuration:  Straight  Right angle  Tee

Mating ends: Left:  Jack  Plug Middle (tee adapters only):  Jack  Plug Right:  Jack  Plug

Bulkhead mount, mounting figure   Panel mount, mounting figure  (Go to Block 5)

### Adapter Between Series:

Configuration:  Straight  Right angle Left end series   Jack  Plug Right end series:   Jack  Plug

Bulkhead mount, mounting figure   Panel mount, mounting figure  (Go to Block 5)

## 5 Plating and Other Requirements:

Operating frequency:

Body plating:  Gold  Silver  Nickel  Albaloy  Passivated  Other:

Contact outer plating:  Gold  Silver Contact underplate:  Nickel  Copper  No preference

Special electrical / mechanical requirements:

## 6 Delivery Requirements:

Quantity to quote:  Delivery needed by:  Estimated annual usage:

Other information:

# About Delta Electronics

## Manufacturing Corporation

ISO9001:2008 Certified

From our early New England roots to our current global manufacturing presence, we have consistently grown with, and adapted to, the ever-changing requirements of the coaxial connector market. Beginning as a small manufacturer of UHF-frequency connectors, our growth in product lines and manufacturing capability now positions us as a premier connector supplier, with one of the broadest ranges of products in the industry.

Along with our product-line expansion, we recognized the need to keep pace with innovations such as Lean Manufacturing, precision CNC turning centers, and sophisticated CAD/CAM and HFSS design-modeling software, all geared toward providing our customers the highest-quality products available, with quick delivery and competitive prices.

As the connector market expanded in scope worldwide, we responded by developing a global presence to better serve the needs of our customers, both domestic and international.

Our wholly-owned subsidiary in Nanjing, China provides unmatched capability to meet customer requirements, particularly for low-cost, high-volume connector types.

In recognition of our customers' need to streamline their processes, we have launched our "Value Added" services, providing finished cable assemblies and integrated connectorized components that help our customers optimize their production and eliminate overhead.

Another "Value-Added" service is our new, fully-automated electroplating facility, incorporating robotic handling and computerized process controls and testing, increasing our capability to perform contract plating of a wide variety of component parts with the same quality and consistency featured on our connectors.

Call us for all your coaxial connector needs—we make over 70 different series to match your requirements exactly, including:

- 1.0/2.3 • 7/16 • Adapters Between Series\* • BMA • BMMA • BNC\*
- BNC Push-on • C • Cable assemblies • E-Line Brass SMA • GHV
- GR874 • HN • LC-LT • MC-Card • MCX • MMCX • MHV • N\* • QDS
- QDL • QMA • SC • SM • SMA\* • SMA 26.5 GHz • SMA 27 GHz
- SMB • SMC • SMD • SMK (2.92 MM) • SMP • SSMC • TNC\*
- TPS • Triaxial BNC, C, N, TNC • Twinax BNC, HN, TNC
- Twinax HV • Twinax 3/4-20 • 75Ω BNC, TNC
- 70Ω N • UHF

\*M39012/M55339 QPL available.



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Tel: +86 25 85436296 • Fax: +86 25 85436297  
Room 209, Changjiang Science & Technology  
Luxiying 97# • Nanjing 210037, China

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## Warranty

We warrant our parts to be free from defects in materials and workmanship for one year from date of purchase. During that time, we will repair or replace (at our option) any parts found to be defective.

This warranty does not apply to parts which have been modified, used in conditions exceeding Delta or military specifications, or disassembled. We will not, under any circumstances, be responsible for consequential or incidental damages or installation costs.

No other warranties apply, and no other liability may be assumed or extended by representatives or distributors.

## Returns

Returns will be accepted only with a Return Authorization number issued by Delta, and are subject to inspection and acceptance upon arrival. Restocking charges will be determined prior to issuance of Return Authorization.

All claims for shortages must be made within 30 days of receipt by customer.

## Ordering Information

Orders are subject to the terms and conditions on our order acknowledgement, which may only be modified by written agreement prior to sale. Order changes, cancellation, or termination will be accepted only with written approval from Delta Electronics Manufacturing.

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Beverly, MA 01915  
FSCM/CAGE 00795

Catalog # FC-CD 6.3 (7/09)