



# RF Coaxial Connectors

CD CATALOG 2000

[Click here for Navigation Guide](#)

[Click here for Table of Contents](#)

[Click here for Index by P/N](#)



(978) 927-1060 • FAX (978) 922-6430 • [www.DeltaRF.com](http://www.DeltaRF.com)  
P.O. Box 53 • 416 Cabot St. • Beverly, MA 01915

We have configured this CD version of our catalog to take advantage of Acrobat navigation shortcuts (links). However, these links are not visible on the pages—making them visible would compromise the page’s readability.

- 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

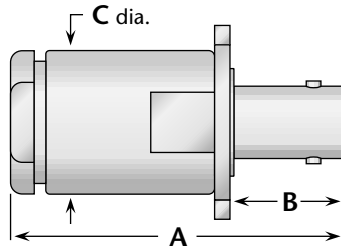
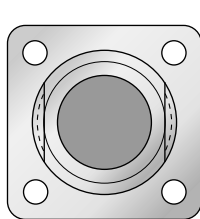


Figure 1

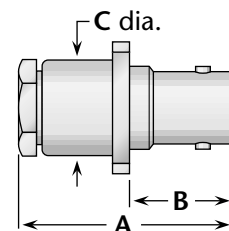
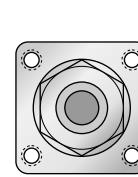


Figure 2

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 information on alternate body plating.

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.

## Design Features

Examples of how our *Customer-Driven Design* can help you build your products more efficiently, quickly, and cost-effectively. . . . . 4

### BNC series

Miniature, economical connectors with bayonet-type mating . . . . . 9

### 75Ω BNC series

For matched-impedance applications. . . . . 28

### C series

Medium-size connectors with bayonet-type mating and good power handling (includes high-voltage versions). . . . . 31

### G874 series

Hermaphroditic connectors with good electrical performance; ideal for test equipment . . . . . 37

### GHV series

Large, high-voltage connectors with threaded mating. . . . . 41

### HN series

Medium-size connectors with threaded mating and good power handling. . . . . 42

### LC/LT series

Large, high-voltage connectors with threaded mating. . . . . 48

### MHV series

Miniature, high-voltage connectors with bayonet mating (similar to BNC). . . . . 51

### N series

Medium-size, versatile, general-purpose connectors with threaded mating . . . . . 55

### 70Ω N series

For matched-impedance applications. . . . . 77

### QDS series

Medium-size connectors with positive-locking, quick-connect and quick-disconnect mating. . . . . 80

### MiniQDS series

Miniature connectors with positive-locking, quick-connect and disconnect mating (similar in size to BNC and TNC). . . . . 85

### SC series

Medium-size connectors with threaded mating and good power handling (includes high-voltage versions). . . . . 86

### SMA series

Subminiature, high-frequency connectors with threaded mating and stainless steel bodies . . . . . 90

### SMB and SMC series

Subminiature, economical connectors with snap-on or threaded mating . . . . . 110

### TNC series

Miniature connectors, similar in size to BNC, but with threaded mating for increased performance . . . . . 116

### Polarized TNC series

Meet FCC regulations . . . . . 132

### TPS series

Subminiature connectors with triple-bayonet mating to prevent rocking when mated. . . . . 133

### TRB series

Triaxial version of BNC connectors. . . . . 136

### TW34 series

Medium-size connectors with threaded mating for twinaxial cables. . . . . 138

### TWBNC series

Twinaxial version of BNC connectors . . . . . 141

### UHF series

Low-frequency connectors with threaded mating. . . . . 143

### 7/16 series

Medium-size, versatile connectors with metric threaded coupling and good power handling . . . . . 144

**Between-Series Adapters** . . . . . 154

**Mounting Figures** . . . . . 162

**Cable Groups** . . . . . 163

**Cable Assembly Instructions** . . . . . 164

**Index by Part Number** . . . . . 171

**Special-Purpose Connectors**  
Unique designs solve difficult problems . . . 195

**Technical Information**  
Guide to connector configurations and terminology. . . . . 196

**Request for Quotation Form**  
Fill in your requirements, print, and fax to us for a quick response . . . . . 197

**About Delta**. . . . . 198

**Ordering and Warranty** . . . . . 199

## 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 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.

## Design Features

Plating options .....	4
Polarized TNC connectors .....	4
Panel receptacles with common flange sizes .....	5
Type N receptacles with one-piece bodies.....	5
PressMount receptacles .....	6
HeliGrip connectors for flexible cable.....	7
One-Step connectors for semi-rigid cable.....	8
Coupling nut options for N, SC, TNC, and 7/16 series plugs .....	8

## Plating Options for Economy and Performance

(Albaloy or nickel—available for all connector series except SMA)

Silver plating has long been standard on RF connectors with brass bodies, 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.

SMA connectors with stainless-steel bodies are available with gold plating or passivated finish.

## Polarized TNC Connectors Prevent Mismatching

(See page 132 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 125.

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



## Common Flange Sizes Simplify Your Production

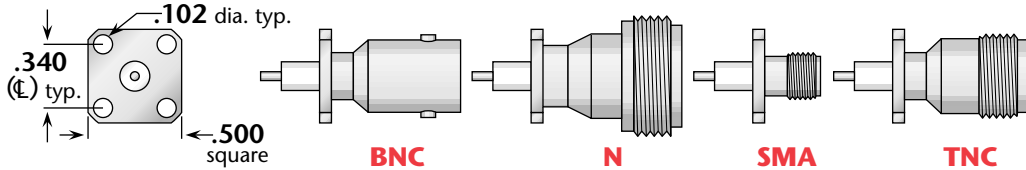
(Available on BNC, N, SMA, TNC, and 7/16 series connectors as noted in product pages)

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.

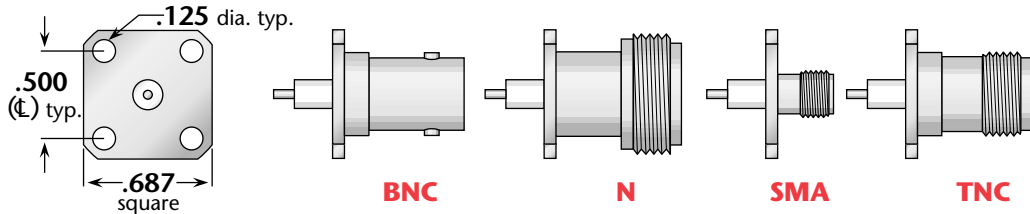
That's why we offer a wide range of connectors in different series with common flange sizes and contact/insulator configurations. Now you can streamline your production process and shorten your delivery cycle—just predrill your components with one mounting hole pattern, and ship them with the connectors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

### Flange Sizes and Available Interfaces

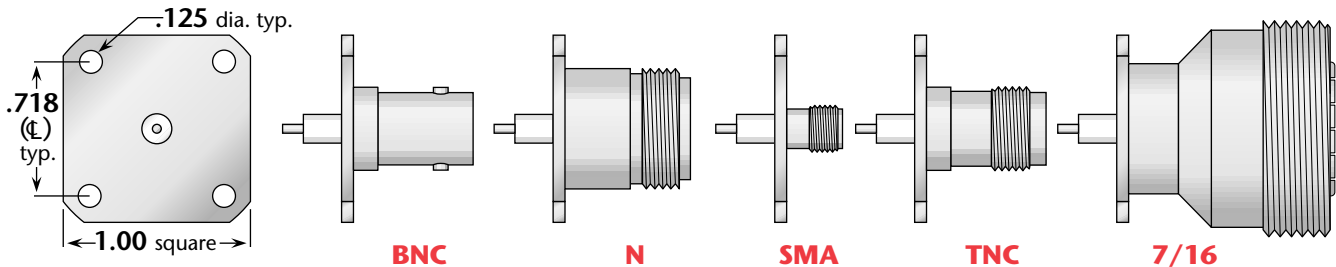
**1/2" square flange** (Delta mounting figure 05)—standard flange size for SMA



**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.

### N Panel Receptacles With One-Piece Bodies

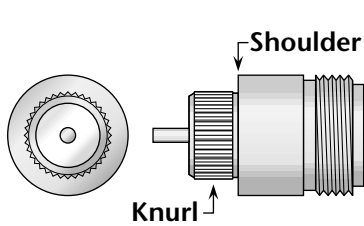
(Available for most type N 4-hole flange receptacles—contact factory for exact types)



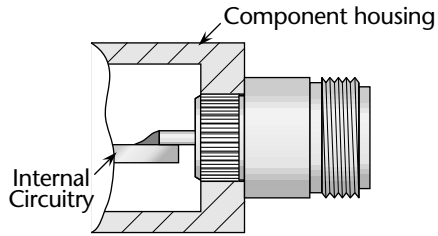
Our in-house machining capability now includes production of type N flange receptacles with one-piece bodies, replacing the old machined body/stamped flange method. With no unsightly solder joints, these connectors have enhanced appearance and strength compared with two-piece designs. The machined flanges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

**Delta PressMount Receptacles**

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



**Connector design**

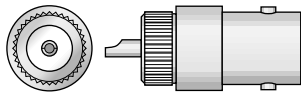


**As mounted on component**

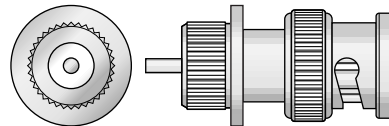
Delta PressMount receptacles eliminate the need for complicated mounting hole patterns and mounting hardware. They are simply pressed into a single through hole, and can be used in component housings as small as the outer diameter of the connector. An integral shoulder provides a positive depth stop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

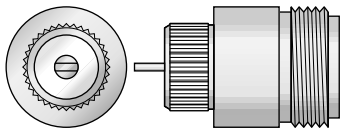
**Standard PressMount Receptacles**



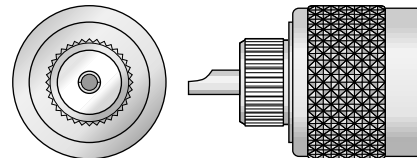
**BNC jack**  
(Solder pot or post contact—page 24)



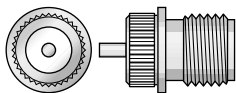
**BNC plug**  
(Post contact—page 24)



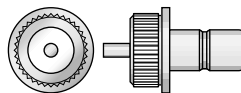
**N jack**  
(Solder pot, tab, or post contact—page 73)



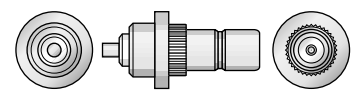
**N plug**  
(Solder pot, tab, or post contact—page 73)



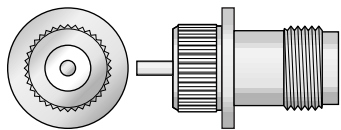
**SMA jack**  
(Solder pot, tab, or post contact—page 102)



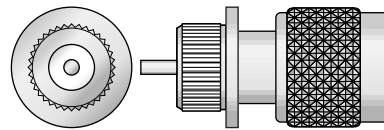
**SMB jack**  
(Post contact—page 113)



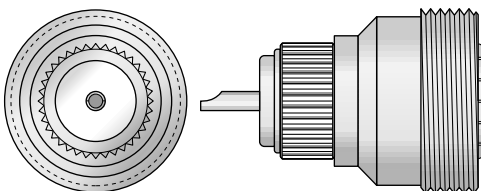
**SMB jack (rear mount)**  
(Post contact—page 113)



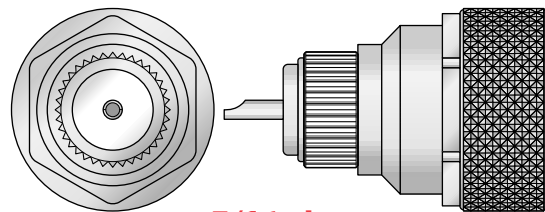
**TNC jack**  
(Solder pot or post contact—page 127)



**TNC plug**  
(Post contact—page 127)



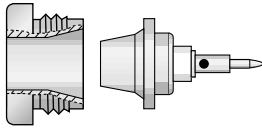
**7/16 jack**  
(Solder pot or post contact—page 149)



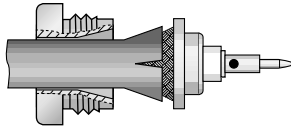
**7/16 plug**  
(Post contact—page 151)

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

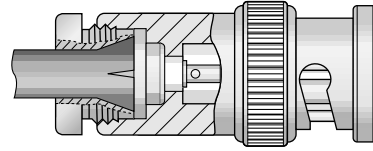
(Available for BNC, N, and TNC connector series as noted in product pages)



Backnut; cone/contact/  
insulator subassembly



Cable assembled to  
hardware subassembly



(Proportions altered to illustrate detail)  
As assembled in connector

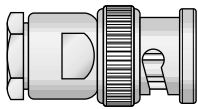
With their reduced parts count and rapid assembly, Delta's Heli-Grip connectors offer you significant time savings in your cable assembly operation, without the need for dedicated crimp tools.

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.

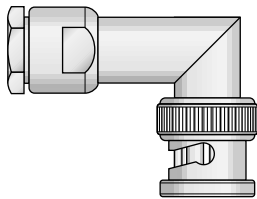
The assembled connectors have cable retention strength greater than the force required to tear the cable braid.

## Standard Heli-Grip Configurations

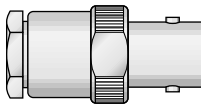
### BNC series



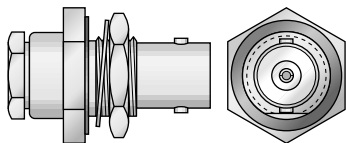
Straight plug—page 11



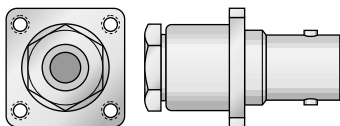
Right angle plug—page 13



Straight jack—page 14

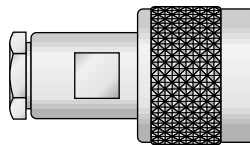


Bulkhead jack—page 16

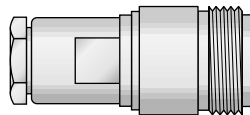


Panel jack—page 18

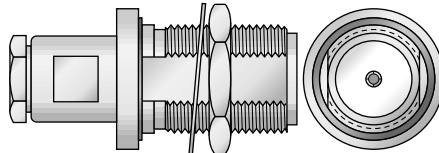
### N series



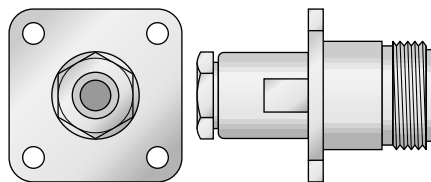
Straight plug—page 57



Straight jack—page 61

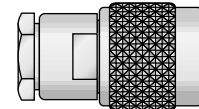


Bulkhead jack—page 63

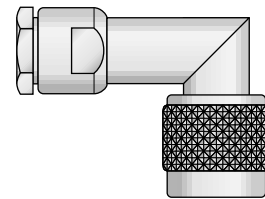


Panel jack—page 65

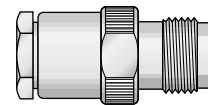
### TNC series



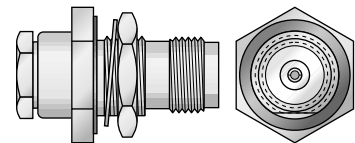
Straight plug—page 118



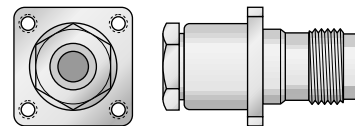
Right angle plug—page 120



Straight jack—page 121



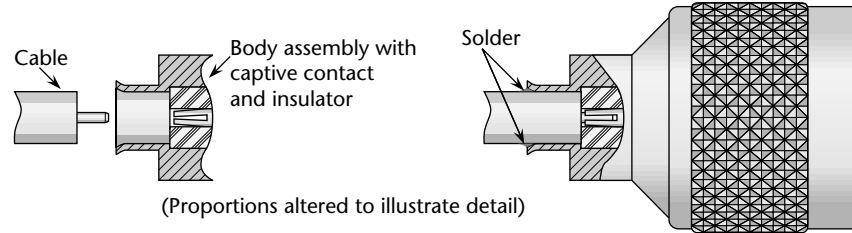
Bulkhead jack—page 122



Panel jack—page 123

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

(Available for N and SMA connector series as noted in product pages)

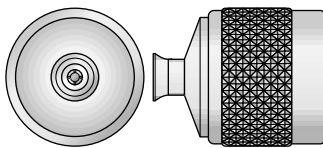


Delta One-Step connectors for semi-rigid cable have captivated contacts and insulators preassembled in the body assembly. With no loose parts to handle, assembly is as simple as trimming the cable (and chamfering the cable center conductor), inserting the cable into the body assembly, and soldering the cable jacket to the connector body.

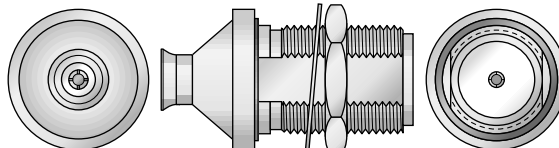
The internal design of the body assembly automatically maintains the proper gap distance between the center contact and the cable dielectric, ensuring the best electrical performance and eliminating the shimming operation required by connectors with non-captive contacts.

**Standard One-Step Configurations**

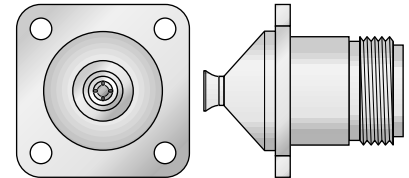
**N series**



Straight plug—page 58

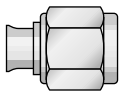


Bulkhead jack—page 64

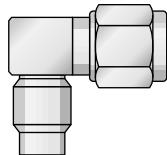


Panel jack—page 66

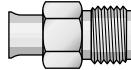
**SMA series**



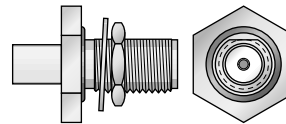
Straight plug—page 91



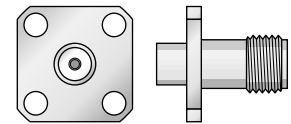
Right angle plug—page 91



Straight jack—page 93



Bulkhead jack—page 93



Panel jack—page 93

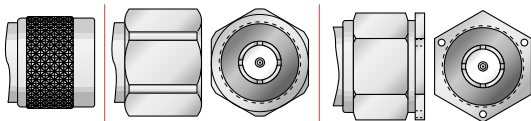
**Coupling Nut Options**

(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.

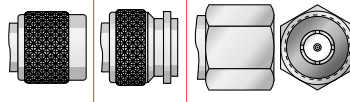
Note: Delta's standard coupling nut design for 7/16 connectors features wrench flats as well as a knurled surface for hand-tightening, but 7/16 connectors can also be supplied with full hex coupling nuts.

**N series**



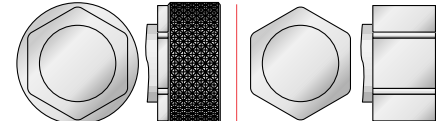
Standard (left), hex (middle), hex with safety-wire holes (right)

**TNC series**



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

**7/16 series**



Standard (left), full hex (right)



## General Description

Delta 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. M39012 QPL BNC connectors and M55339 QPL BNC adapters are also included in this section. 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 154.

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:

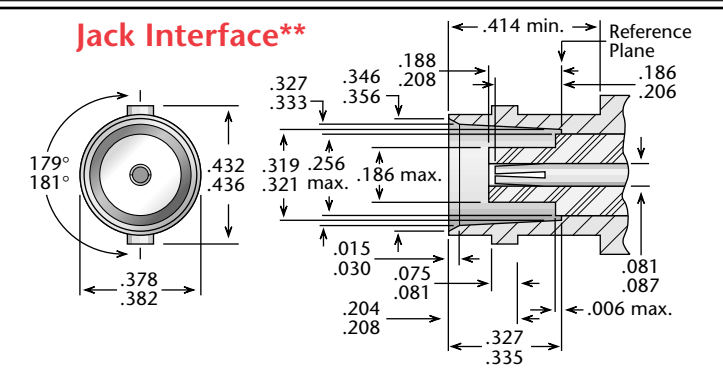
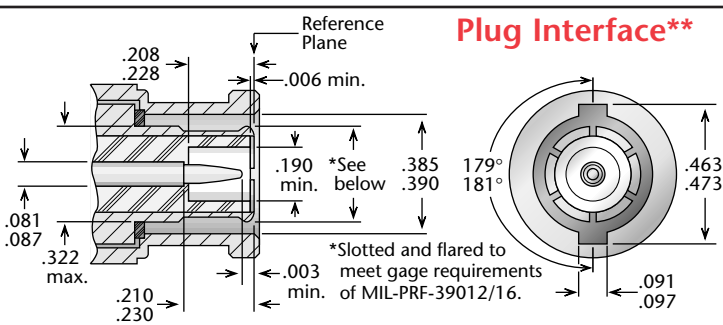
- *Heli-Grip* cable connectors for fast, reliable assembly to flexible cable without special tooling.
- *PressMount* receptacles (page 24) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- Panel receptacles with flange sizes to match 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 22).
- 75Ω impedance BNC connectors (see page 28) 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 .....	10	Bulkhead Jack Receptacles .....	21
Right Angle Cable Plugs .....	12	Bulkhead Plug Receptacles.....	22
Straight Cable Jacks .....	14	Printed-Circuit Board Receptacles .....	23
Bulkhead Cable Jacks .....	15	Stripline Receptacles .....	23
Panel Cable Jacks .....	17	PressMount Receptacles.....	24
Panel Jack Receptacles (square flange) .....	19	Resistive Terminations .....	25
Right Angle Panel Jack Receptacles .....	20	Dust Caps.....	25
Panel Plug Receptacles.....	20	In-Series Adapters .....	26

## 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-D-1710.  
**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.

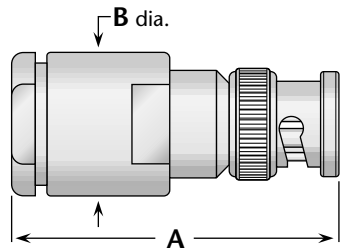
**Other Metal Parts:** Brass per ASTM-B-16, plated:  
 Silver per QQ-S-365, or  
 Nickel per QQ-N-290.

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.

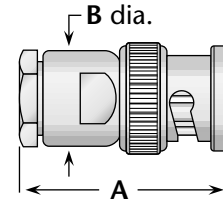
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

## Straight Plug—Military Clamp for Flexible Cable



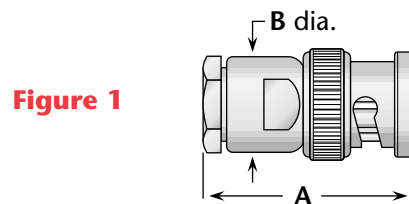
**Figure 1**



**Figure 2**

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
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
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



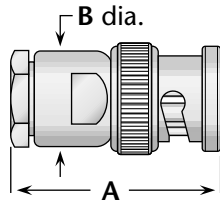
**Figure 1**

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.

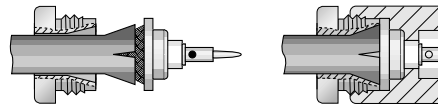
(C) in contact plating column indicates captive contact.

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



**Figure 1**

### Heli-Grip® Cable Attachment

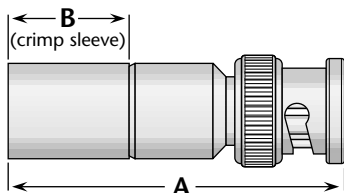


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

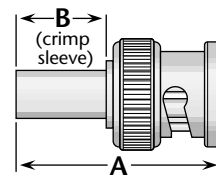
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
§5, 6§	1	1.06	.50	Nickel	Silver (C)	1001-018-N005	E/03
RG-223	1	1.06	.50	Nickel	Silver (C)	1001-015-N005-3	E/03
7	1	1.06	.50	Nickel	Silver (C)	1001-019-N005	E/03
8A	1	1.06	.50	Nickel	Silver (C)	1001-029-N005-1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

§Except RG-223/U.

## Straight Plug—Crimp Type for Flexible Cable



**Figure 1**



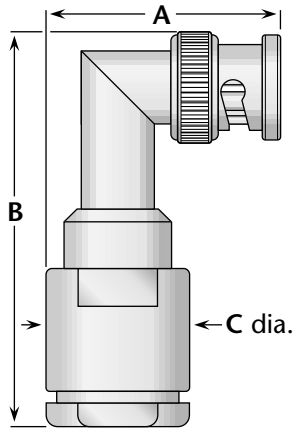
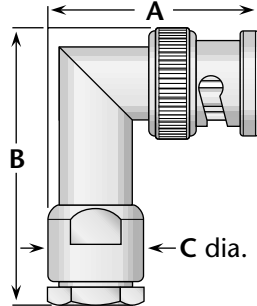
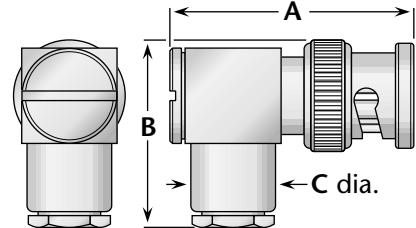
**Figure 2**

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.

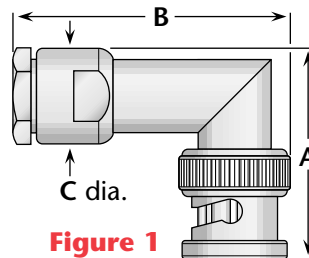
(C) in contact plating column indicates captive contact. • \*\*\*Contact factory for cable assembly instructions.

## 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

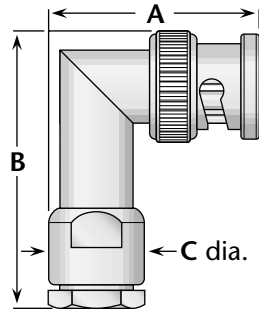

**Figure 1**

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
13	2	1.09	1.61	.50	Nickel*	Silver	1004-031-N003	F/08
14	2	1.09	1.61	.50	Nickel*	Silver	1004-025-N003	F/07

\* Solder ferrule is gold plated.

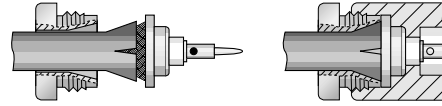
(C) in contact plating column indicates captive contact.

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



**Figure 1**

### Heli-Grip® Cable Attachment

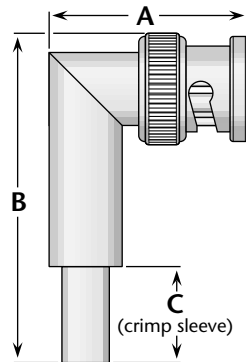


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5, 6 <sup>s</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>s</sup>Except RG-223/U.

## Right Angle Plug—Crimp Type for Flexible Cable

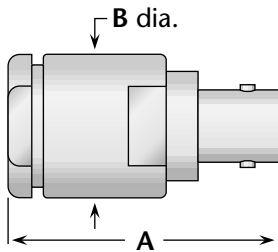


**Figure 1**

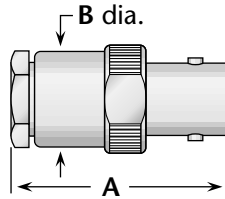
Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5	1	1.03	1.71	.50	Nickel	Gold (C)	1007-017-N000-3	B/02
6	1	1.03	1.71	.50	Nickel	Silver	1007-015-N000	B/02
7	1	1.03	1.71	.50	Nickel	Gold	1007-019-N000-1	B/02

(C) in contact plating column indicates captive contact.

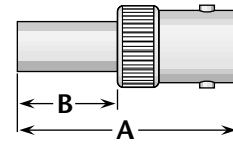
## Straight Jacks—For Flexible and Semi-Rigid Cable



**Figure 1**

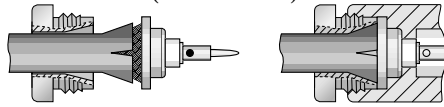


**Figure 2**



**Figure 3**

### 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		
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

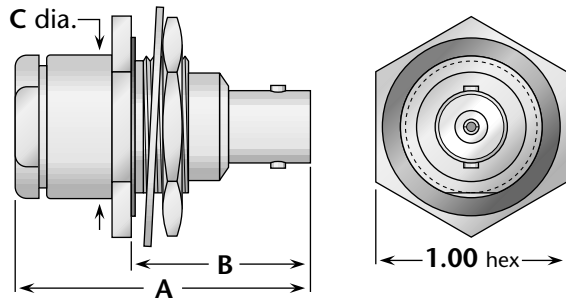
13	2	1.16	.50	Nickel*	Silver	1008-031-N003	F/08
14	2	1.16	.50	Nickel*	Silver	1008-025-N003	F/07

<sup>§</sup>Except RG-223/U.

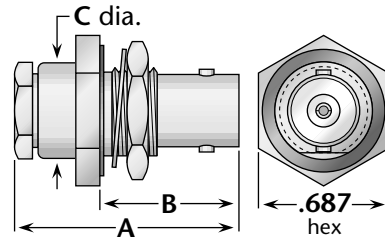
\*Solder ferrule is gold plated.

(C) in contact plating column indicates captive contact. • \*\*Indicates crimp center contact. • \*\*\*Contact factory for cable assembly instructions.

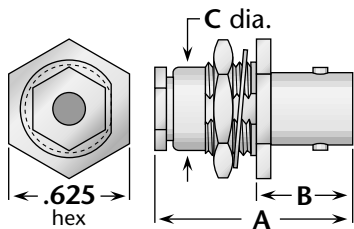
## Bulkhead Jacks—Military Clamp for Flexible Cable



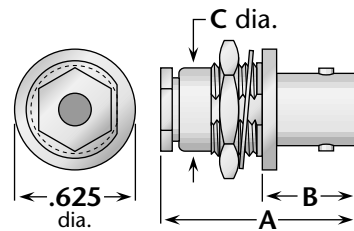
**Figure 1**  
(Rear mount)



**Figure 2**  
(Rear mount)



**Figure 3**  
(Front mount)

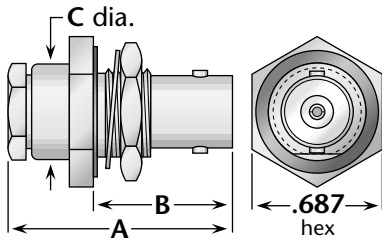


**Figure 4**  
(Front mount)

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/18
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

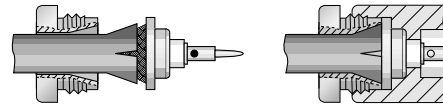
(C) in contact plating column indicates captive contact.

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



**Figure 1**  
(Rear mount)

### Heli-Grip® Cable Attachment



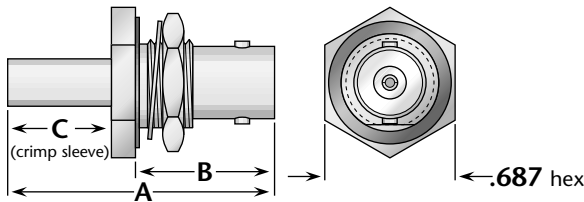
These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
5, 6 <sup>s</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

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

## Bulkhead Jack—Crimp Type for Flexible Cable

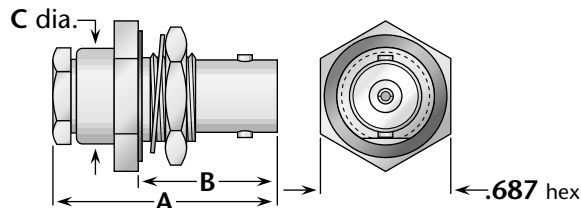
**Figure 1**  
(Rear mount)



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)



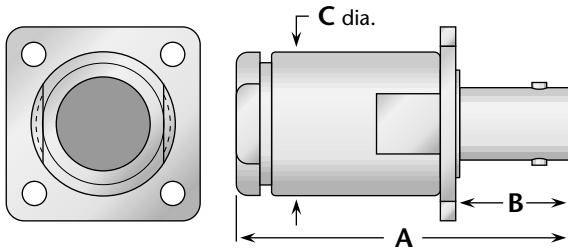
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
13	1	1.16	.81	.50	59	.24	Nickel*	Silver	1016-031-N593	F/08
14	1	1.16	.81	.50	59	.24	Nickel*	Silver	1016-025-N593	F/07

\* Solder ferrule is gold plated.

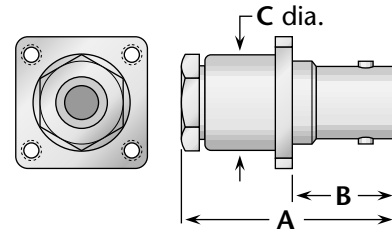
(C) in contact plating column indicates captive contact.



## Panel Jack—Military Clamp for Flexible Cable



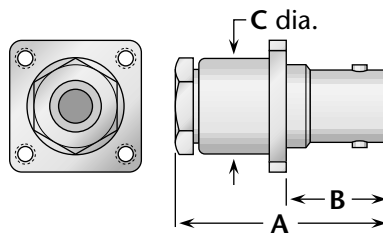
**Figure 1**



**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/18
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



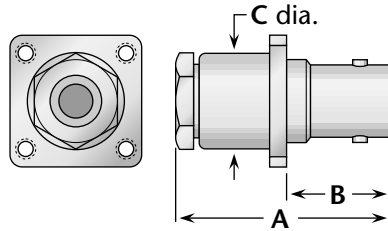
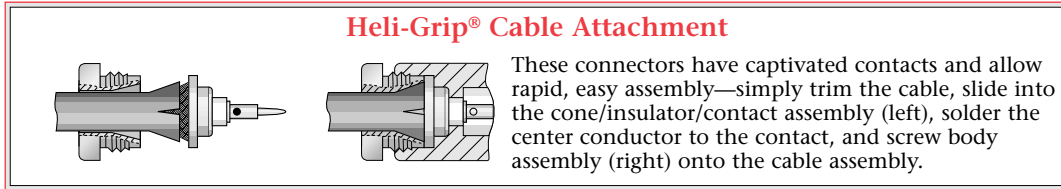
**Figure 1**

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.

(C) in contact plating column indicates captive contact.

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

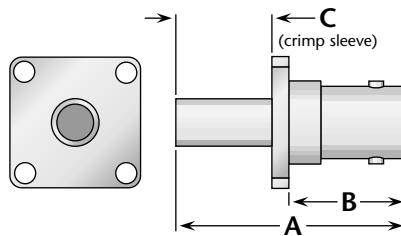


**Figure 1**

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

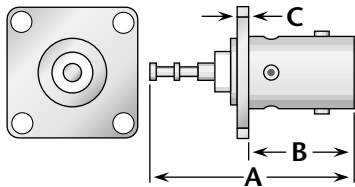


**Figure 1**

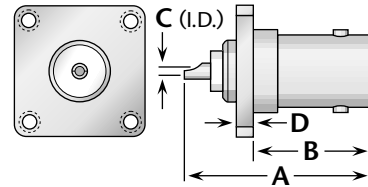
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
5	1	1.22	.63	.50	09	Nickel	Gold (C)	1055-017-N091	B/12
6	1	1.22	.63	.50	09	Nickel	Gold (C)	1055-015-N091	B/12
7	1	1.22	.63	.50	09	Nickel	Gold (C)	1055-019-N091	B/12

(C) in contact plating column indicates captive contact.

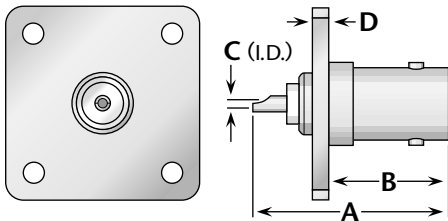
## Panel Jack Receptacles—Square Flange



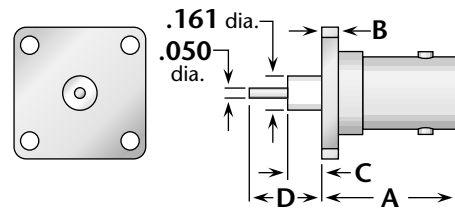
**Figure 1**  
(Turret contact)



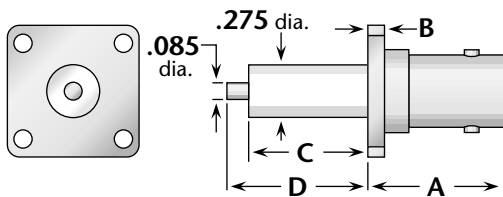
**Figure 2**  
(Solder pot contact)



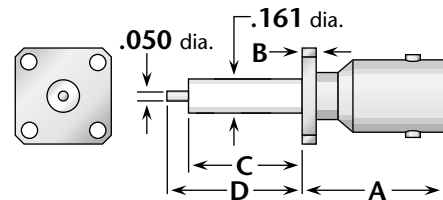
**Figure 3**  
(Solder pot contact, 1" square flange,  
interchangeable with type N standard flange size)



**Figure 4**  
(Post contact)



**Figure 5**  
(Post contact)

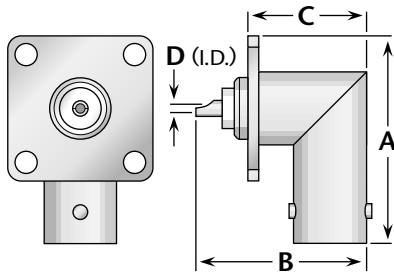


**Figure 6**  
(Post contact, 1/2" square flange,  
interchangeable with SMA standard flange size)

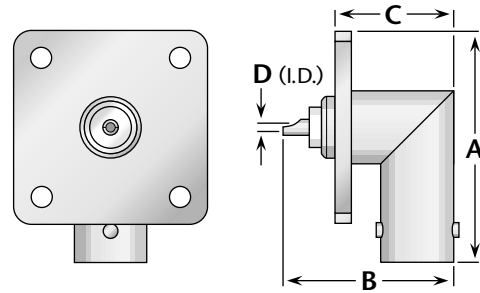
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.55	.050	—	18	Nickel	Silver (C)	UG-185/U
2	1.06	.63	.062	.090	07	Nickel	Silver (C)	UG-290A/U
2	1.06	.63	.043	.090	12	Nickel	Silver (C)	UG-447/U
2	1.06	.63	.062	.090	07	Silver	Gold (C)	M39012/22-0001
2	1.06	.63	.062	.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 4 for alternate body plating information.

## Right Angle Panel Jack Receptacle—Square Flange



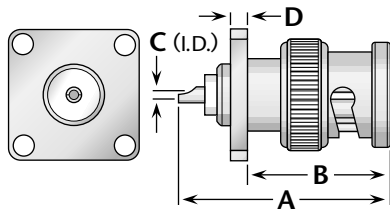
**Figure 1**  
(Solder pot contact)



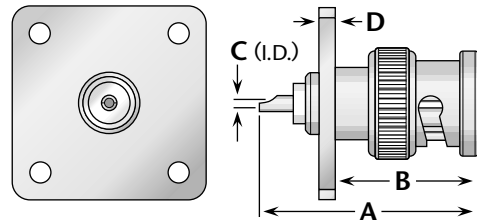
**Figure 2**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

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



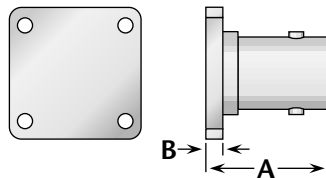
**Figure 1**  
(Solder pot contact, 3/4" square flange)



**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

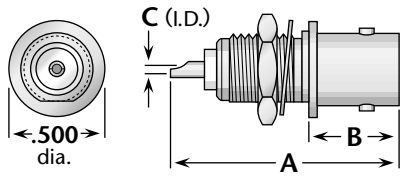
## Dummy Receptacle



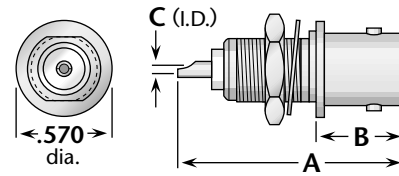
Dimensions		Mounting Figure	Plating		Delta P/N
A	B		Body	Contact	
.75	.090	09	Nickel	—	1063-000-N090

(C) in contact plating column indicates captive contact.

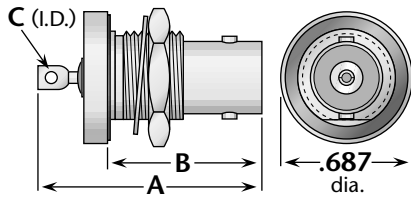
## Bulkhead Jack Receptacles



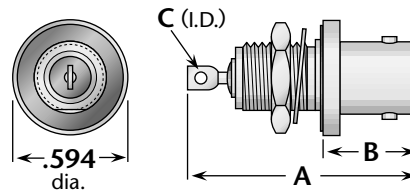
**Figure 1**  
(Front mount)



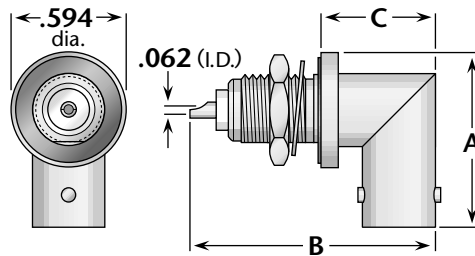
**Figure 2**  
(Front mount, pressurized [non-hermetic], with mounting gasket)



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



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

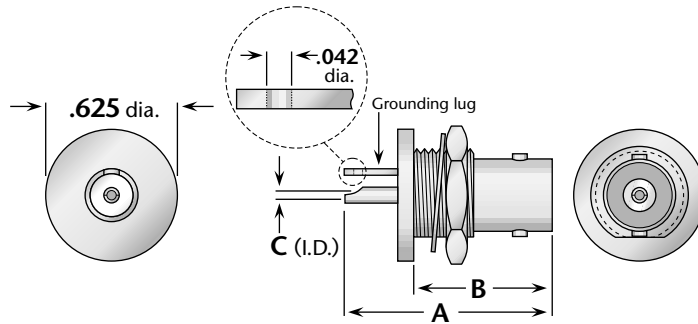


**Figure 5**  
(Right angle, solder pot contact)

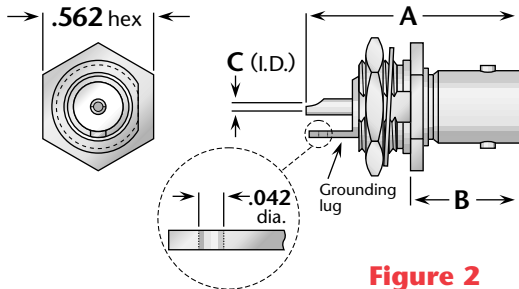
Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.06	.49	.062	.13	62	Nickel	Silver (C)	UG-625B/U
2	1.28	.60	.052	.19	75	Nickel	Silver (C)	UG-657/U
2	1.28	.60	.052	.19	75	Nickel	Silver (C)	UG-657A/U
1	1.06	.47	.062	.13	65	Nickel	Silver (C)	UG-1094/U
1	1.19	.47	.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	63	Nickel	Silver (C)	UG-912/U
4	1.33	.52	.062	.34	63	Nickel	Silver (C)	UG-912A/U
4	1.20	.52	.062	.26	63	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.

**Bulkhead Jack Receptacles with Solder Lug**

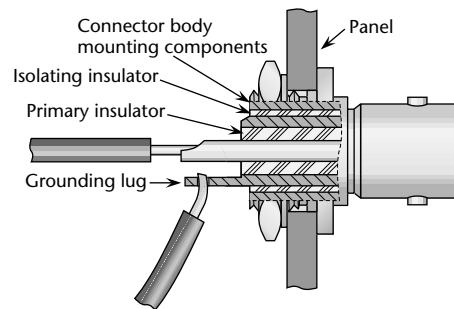


**Figure 1**  
(Standard grounding)



**Figure 2**  
(Isolated ground)

**Isolated-Ground Receptacles**



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	.72	.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)

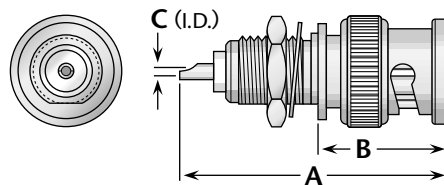


Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.25	.69	.062	.16	65	Nickel	Silver (C)	1024-000-N651

(C) in contact plating column indicates captive contact.

## Receptacles for Printed Circuit Boards

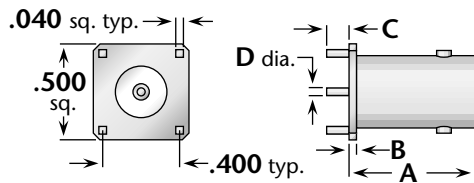
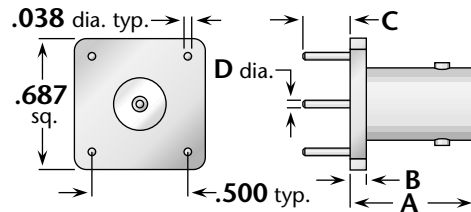
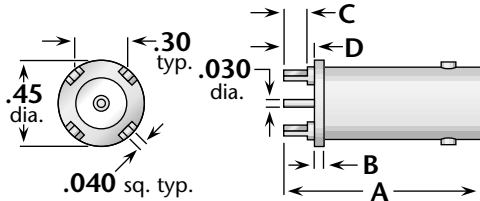
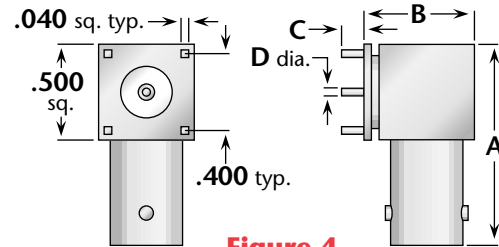
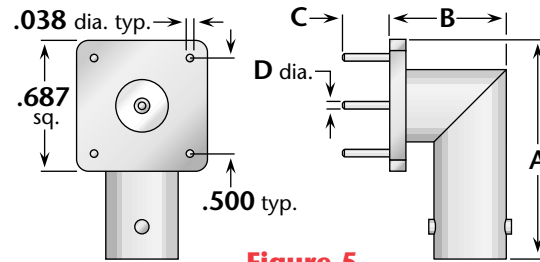

**Figure 1**

**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	1.27	.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

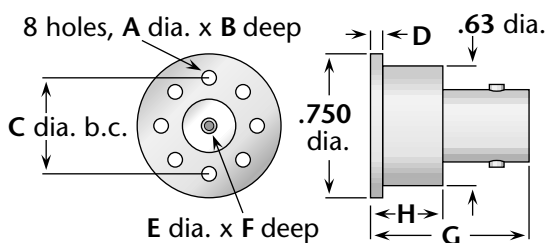
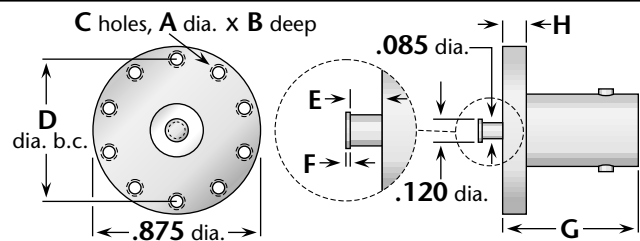
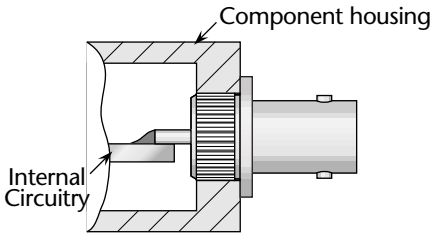

**Figure 1**

**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.

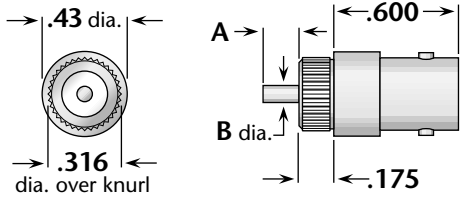
**PressMount Receptacles**

**Delta PressMount Receptacles**

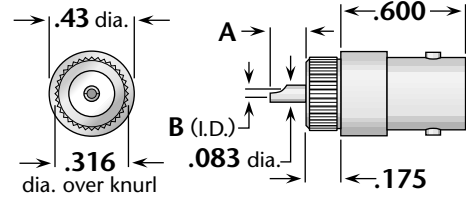


These connectors eliminate the need for complicated mounting hole patterns and mounting hardware. They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength far greater than normal mating and unmating forces. An integral shoulder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

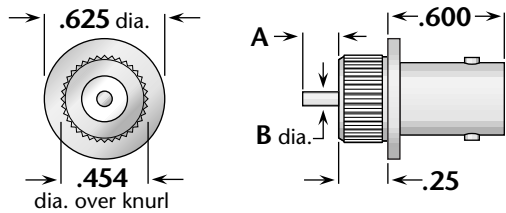
PressMounts are available for a wide variety of Delta connector series, and can be used in packages as small as the outer diameter of the connector body.



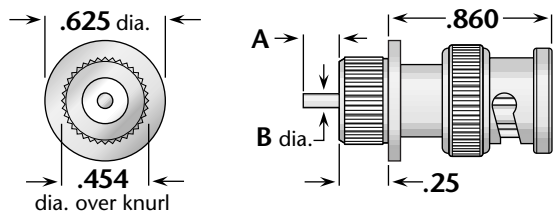
**Figure 1**  
(Post contact)



**Figure 2**  
(Solder pot contact)



**Figure 3**  
(Post contact)



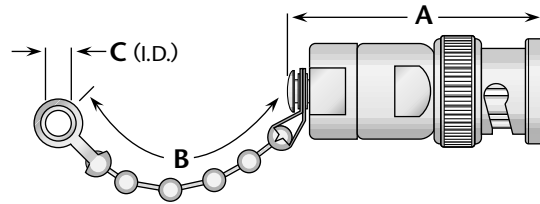
**Figure 4**  
(Plug type, post contact)

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.

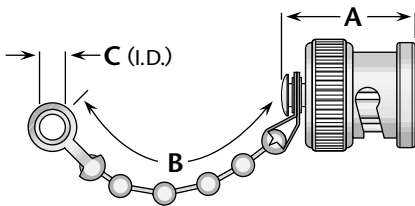


## Resistive Termination (Plug Type)

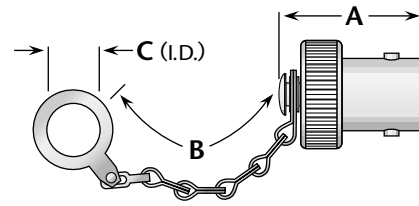


Resistor	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
51Ω ±5%, 1/2 Watt	1.25	3.50	.144		Nickel	Gold (C)	MX-554/U
51Ω ±5%, 1/2 Watt	1.41	3.50	.144		Nickel	Silver (C)	MX-554A/U
51Ω ±5%, 1/2 Watt	1.14	—	—	No chain	Nickel	Gold (C)	1031-000-N00A-3
51Ω ±5%, 1 Watt	1.50	4.50	.130		Nickel	Silver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

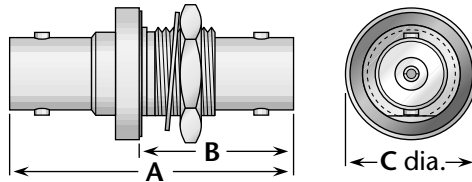


**Figure 2**  
(Shown with safety chain)

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 4 for alternate body plating information.  
Caps and terminations are available with other chain styles and/or resistances.

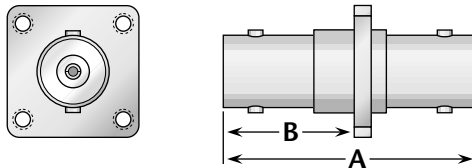
## Bulkhead Jack-Jack Adapter (Connects two plugs)



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

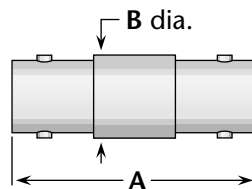
\* Hermetically sealed, with mounting gasket.

## 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

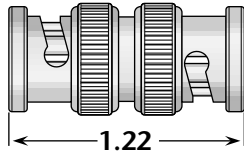
## Straight Jack-Jack Adapter (Connects two plugs)



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

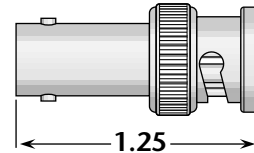
(C) in contact plating column indicates captive contact.

## 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

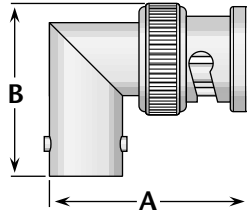
## Straight Plug-Jack Adapter (Connects one jack and one plug)



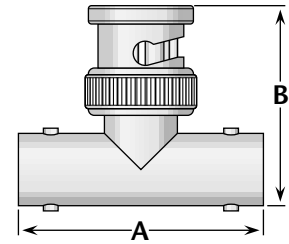
Plating		Delta P/N
Body	Contact	
Nickel	Gold (C)	1034-000-N000

## Right Angle and Tee Adapters

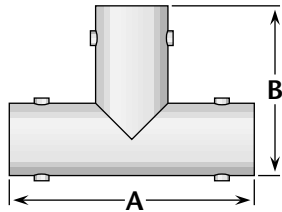
**Figure 1**  
(Right angle plug-jack;  
connects one plug  
and one jack)



**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)

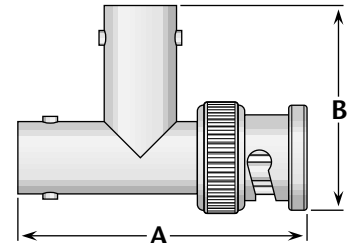


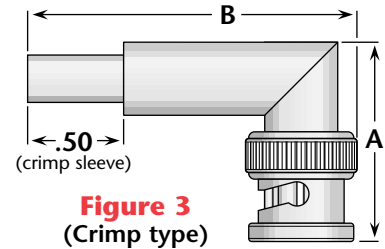
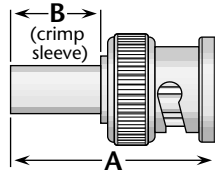
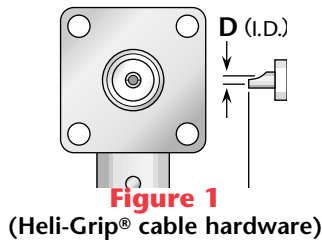
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.06	.88	Nickel	Silver (C)	UG-306A/U
1	1.06	.88	Nickel	Silver (C)	UG-306B/U
1	1.06	.88	Silver	Gold (C)	M55339/14-00306
1	1.06	.88	Nickel	Gold (C)	1029-000-N000-3
2	1.28	1.03	Nickel	Silver (C)	UG-274A/U
2	1.28	1.03	Nickel	Silver (C)	UG-274B/U
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	1.58	.92	Nickel	Silver (C)	1049-000-N000
4	1.58	.92	Silver	Gold (C)	M55339/17-00001

(C) in contact plating column indicates captive contact.

## BNC75 Configurations

Straight Cable Plugs .....	28	Panel Plug Receptacles.....	29
Right Angle Cable Plugs .....	28	Printed-Circuit Board Receptacles .....	29
Bulkhead Cable Jacks .....	28	Bulkhead Jack Receptacles .....	30
Panel Jack Receptacles (square flange) .....	29	In-Series Adapters .....	30

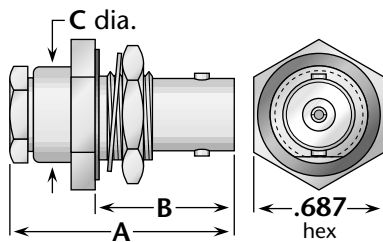
## Straight and Right Angle Plugs for Flexible Cable



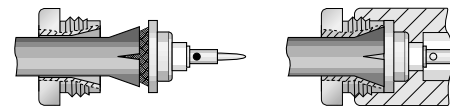
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
7	1	1.06	.50	Nickel	Silver (C)	7501-019-N005	E/03
7	2	1.09	.50	Nickel	Gold	7503-020-N000-2	B/19
7	2	1.05	.41	Nickel	Gold (C)	7503-020-N001	B/26
7	3	1.03	1.71	Nickel	Gold	7507-019-N000	B/02
9	1	1.06	.50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

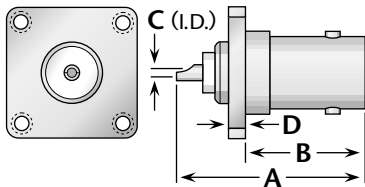


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

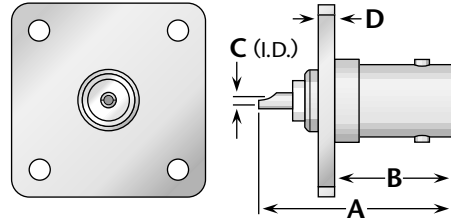
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C			Body	Contact		
7	1	1.16	.81	.50	59	.24	Nickel	Gold (C)	7516-019-N595	E/03
9	1	1.16	.81	.50	59	.24	Nickel	Gold (C)	7516-037-N595	E/03

(C) in contact plating column indicates captive contact.

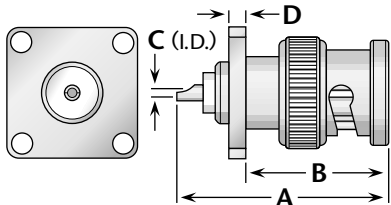
## Panel Jack and Plug Receptacles—Square Flange



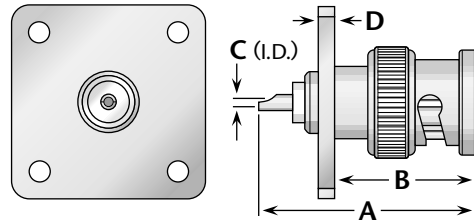
**Figure 1**  
(Solder pot contact, 1<sup>1</sup>/<sub>16</sub>" square flange)



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



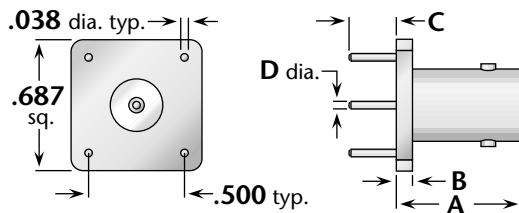
**Figure 3**  
(Solder pot contact, 3/4" square flange)



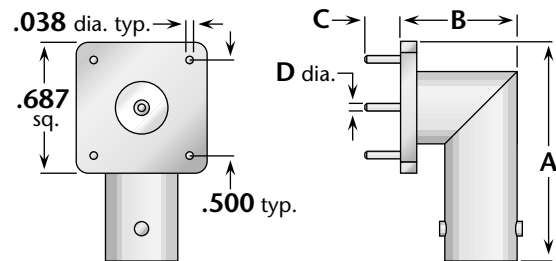
**Figure 4**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

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**

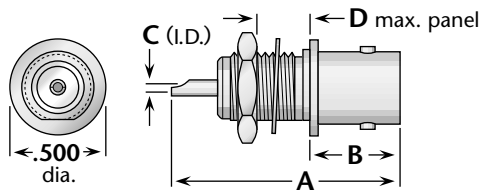


**Figure 2**

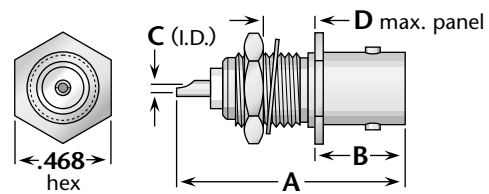
Figure	Dimensions				Max. Board Thickness	Mounting Figure	Plating		Delta P/N
	A	B	C	D			Body	Contact	
1	.65	.085	.250	.038	.125	PCB02	Nickel	Gold (C)	7567-000-N13P-1
2	1.34	.52	.125	.038	.063	PCB02	Nickel	Silver (C)	7569-000-N13P

(C) in contact plating column indicates captive contact.

## Bulkhead Jack Receptacle



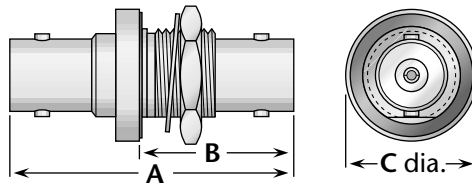
**Figure 1**  
(D-hole mounting)



**Figure 2**  
(Round hole mounting)

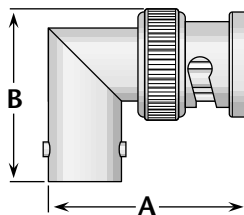
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.57	.030	.13	65	Nickel	Gold (C)	7520-000-N651-1
2	1.06	.47	.030	.13	89	Nickel	Gold (C)	7521-000-N621-2

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

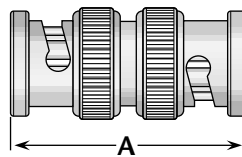


Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.28	.80	.625	.16	59	Nickel	Silver (C)	7526-000-N591*
1.28	.80	.625	.16	59	Nickel	Silver (C)	7526-000-N591-1

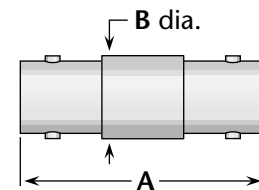
## Straight and Right Angle Adapters



**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. • \*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 154.

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.

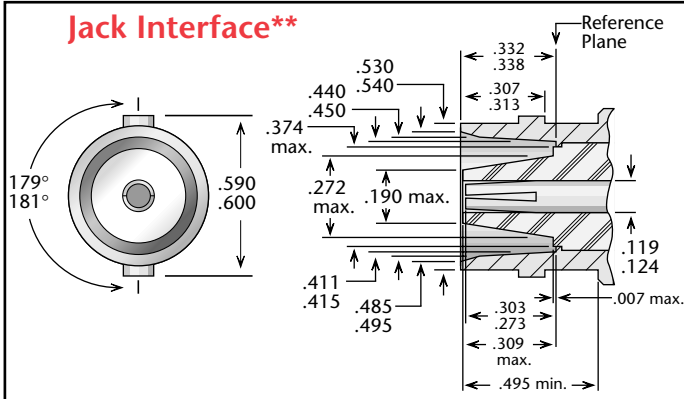
Our C series product line is still growing, so please call if you don't see what you need.

## C Configurations

Straight Cable Plugs .....	32	Dummy Receptacles .....	34
Right Angle Cable Plugs .....	32	Panel Plug Receptacles.....	35
Straight Cable Jacks .....	33	Bulkhead Jack Receptacles .....	35
Bulkhead Cable Jacks .....	33	Dust Caps.....	36
Panel Cable Jacks .....	34	In-Series Adapters .....	36
Panel Jack Receptacles (square flange) .....	34		

## 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-D-1710.  
**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.

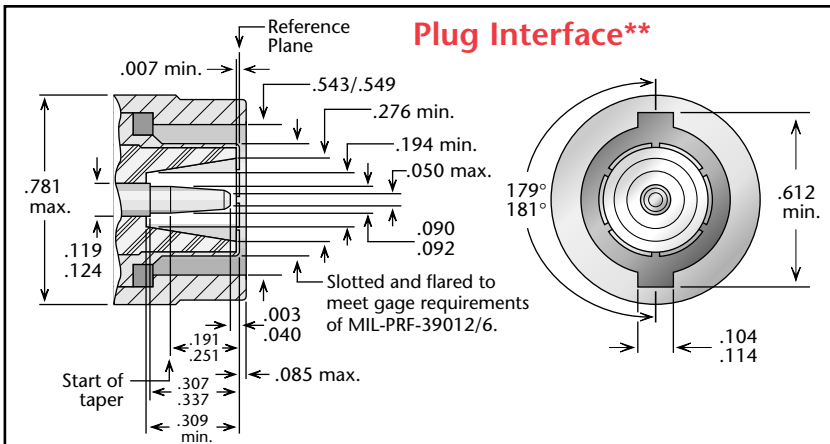
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.

**Other Metal Parts:** Brass per ASTM-B-16, 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.

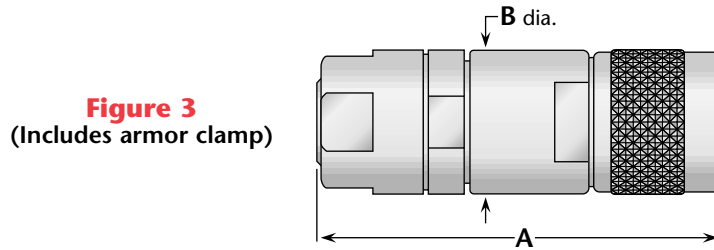
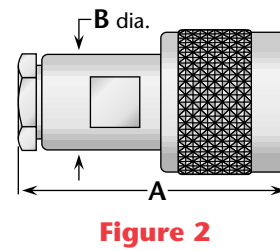
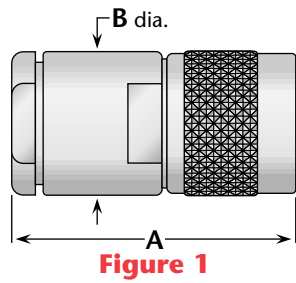
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

### Plug Interface\*\*



\*\*Some proportions altered to illustrate detail.

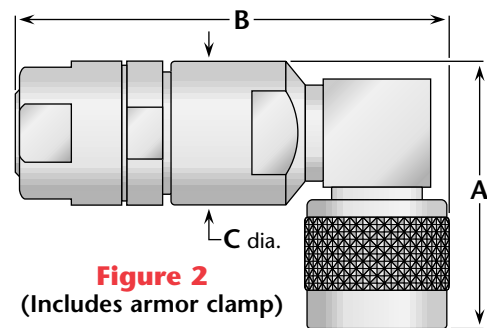
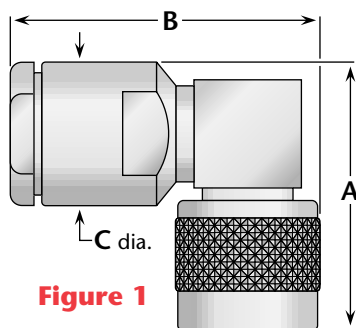
## Straight Plug—Military Clamp for Flexible Cable



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

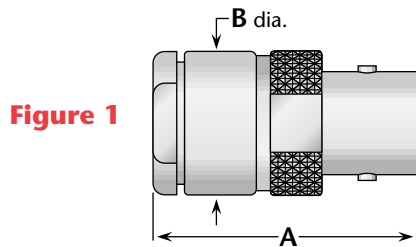


Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
2, 3	1	1.35	1.62	.75	Nickel	Gold	UG-710B/U	A/07
2, 3	1	1.35	1.62	.75	Nickel	Silver (C)	1404-004-N001	A/01
15	2	1.35	2.31	.75	Nickel	Silver	UG-945B/U	D/01
16	1	1.41	1.78	.88	Nickel	Silver	1404-007-N000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

(C) in contact plating column indicates captive contact.

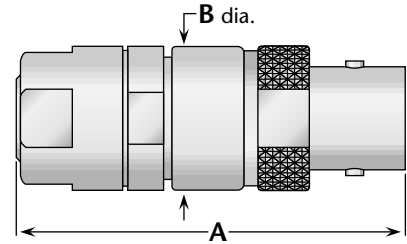


## Straight Jack—Military Clamp for Flexible Cable



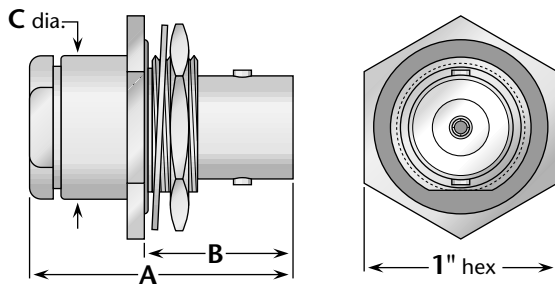
**Figure 1**

**Figure 2**  
(Includes armor clamp)

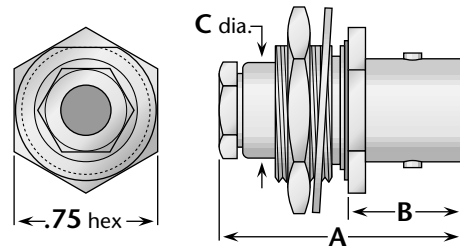


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.41	.75	Nickel	Silver	UG-633A/U	A/20
2, 3	1	1.41	.75	Nickel	Silver	UG-572A/U	A/20
2, 3	1	1.41	.75	Nickel	Silver (C)	1408-004-N001	A/01
15	2	2.00	.75	Nickel	Silver	UG-944A/U	D/04

## Bulkhead Jack—Military Clamp for Flexible Cable

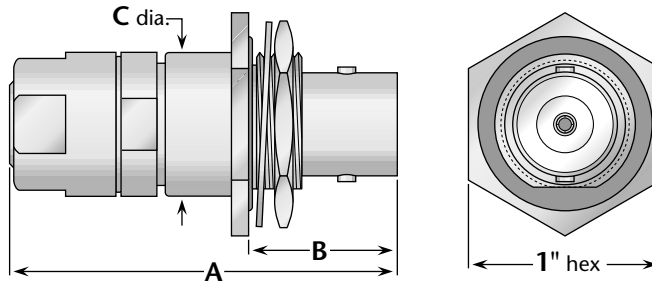


**Figure 1**  
(Rear mount)



**Figure 2**  
(Front mount)

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

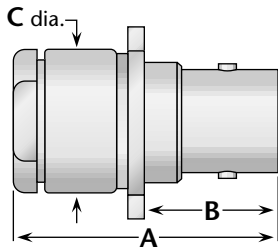


Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C			Body	Contact		
1	1	1.41	.75	.75	51	.125	Nickel	Silver	UG-630A/U	A/20
2, 3	1	1.41	.75	.75	51	.125	Nickel	Silver	UG-570A/U	A/20
2, 3	1	1.72	.75	.75	51	.125	Nickel	Silver	UG-632A/U*	A/21
2, 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

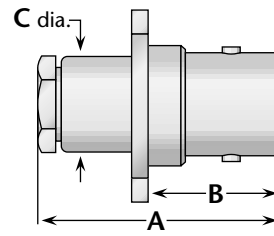
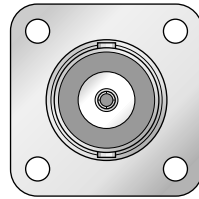
\* High-voltage type.

(C) in contact plating column indicates captive contact.

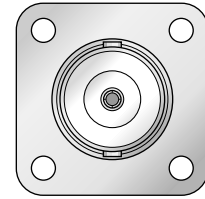
## Panel Jack—Military Clamp for Flexible Cable



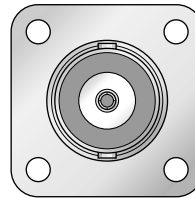
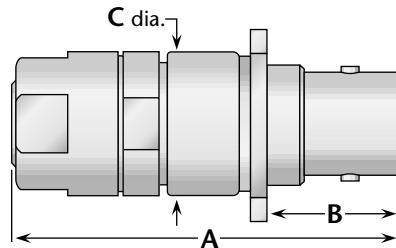
**Figure 1**



**Figure 2**

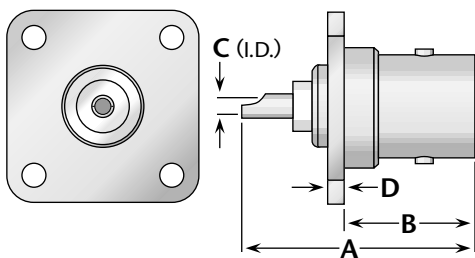


**Figure 3**  
(Includes armor clamp)

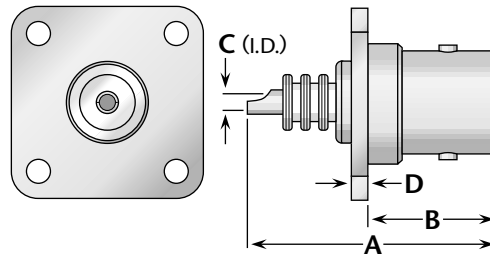


Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
1	1	1.41	.69	.75	26	Nickel	Silver	UG-629A/U	A/20
2, 3	1	1.41	.69	.75	26	Nickel	Silver	UG-571A/U	A/20
2, 3	1	1.41	.69	.75	26	Nickel	Silver (C)	1411-004-N261	A/01
5, 6	2	1.28	.67	.50	26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

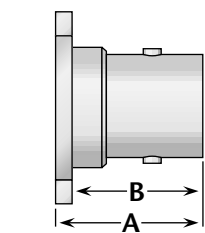
## Panel Jack Receptacle—Square Flange



**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.

(C) in contact plating column indicates captive contact.

**Panel Plug Receptacle—Square Flange**

**Figure 1**  
(Solder pot contact)

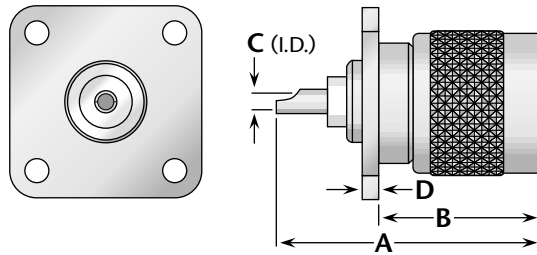
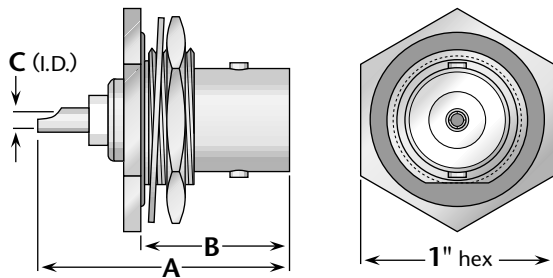
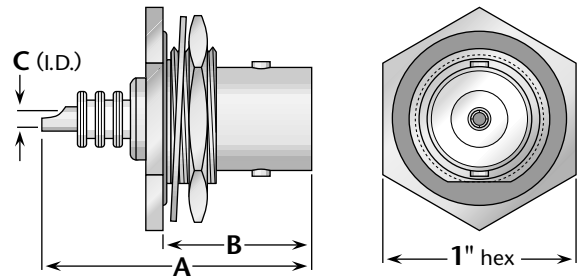


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.09	.83	.106	.080	33	Nickel	Silver (C)	1423-000-N331

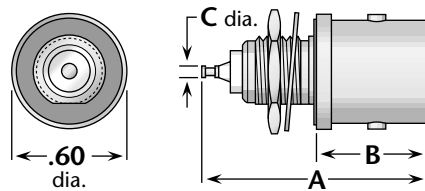
**Bulkhead Jack Receptacles**



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



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



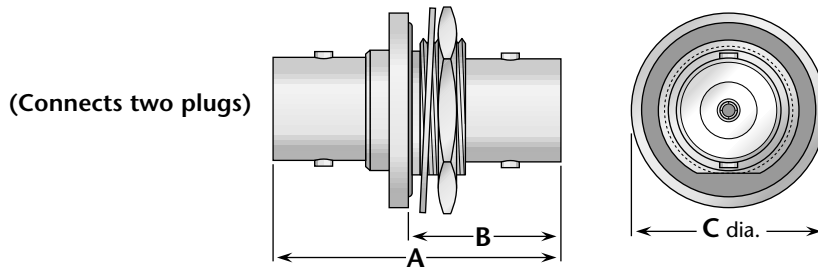
**Figure 3**  
(Front mount, with mounting gasket)

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.

(C) in contact plating column indicates captive contact.

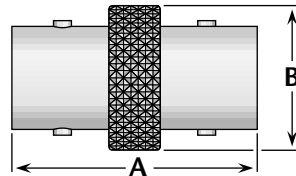
## Bulkhead Jack-Jack Adapter



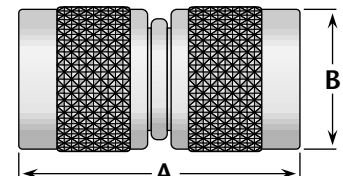
Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.50	.855	1.00	.200	51	Nickel	Silver (C)	UG-1138A/U*
1.50	.855	1.00	.200	51	Nickel	Silver (C)	1426-000-N511

## Straight, Right Angle, and Tee Adapters

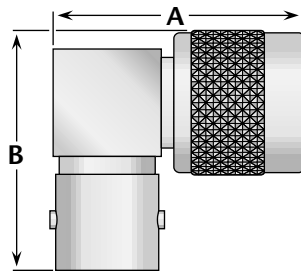
**Figure 1**  
(Straight jack-jack;  
connects two plugs)



**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)

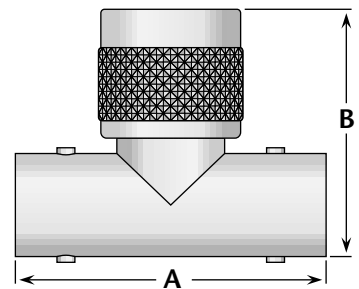
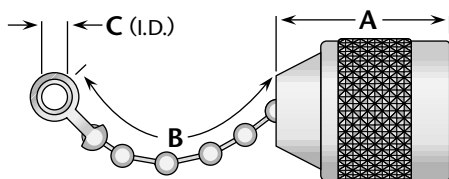


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.28	.75	Nickel	Silver (C)	UG-643/U
2	1.45	.75	Nickel	Silver (C)	UG-642A/U
3	1.25	1.16	Nickel	Silver (C)	UG-567A/U
4	1.52	1.28	Nickel	Silver (C)	UG-566A/U

## Dust Caps

**Figure 1**



**Figure 2**

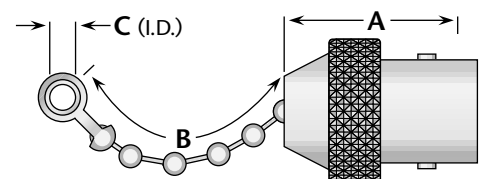


Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.91	2.50	.144	Bead chain	Nickel	—	MX-1142A/U
2	.89	3.50	.144	Bead chain	Nickel	—	MX-1143A/U

\*Hermetically sealed. • (C) in contact plating column indicates captive contact.

## 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.

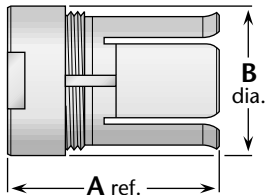
### Materials/Finishes:

**Insulators:** Teflon per ASTM-D-1710.  
**Contacts:** Beryllium Copper per ASTM-B-196.  
**Contact Plating:** Interface ends: Nickel per QQ-N-290; solder ends: Silver per

QQ-S-365 or Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per 2-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM-B-16, Nickel plated per QQ-N-290.

## Interface Kit

**Figure 1**  
(Non-locking)



**Figure 2**  
(Locking)

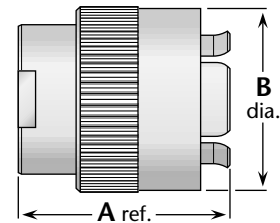
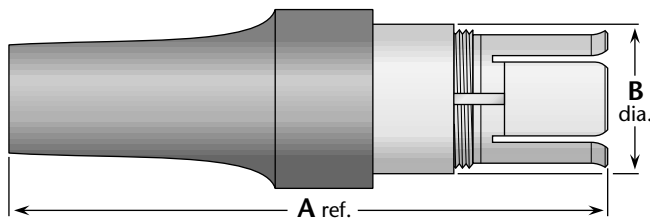
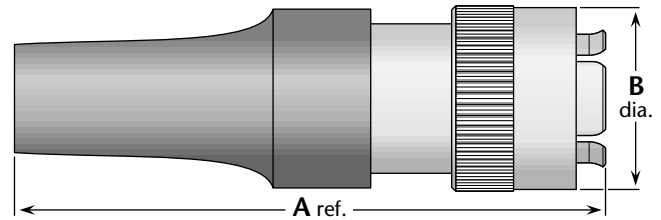


Figure	Dimensions		Plating	Delta P/N
	A	B		
1	1.09	.81	See specifications	2801-000-N000-1
2	1.12	.99	See specifications	2801-000-N000

## Cable Connector—Crimp Type for Flexible Cable



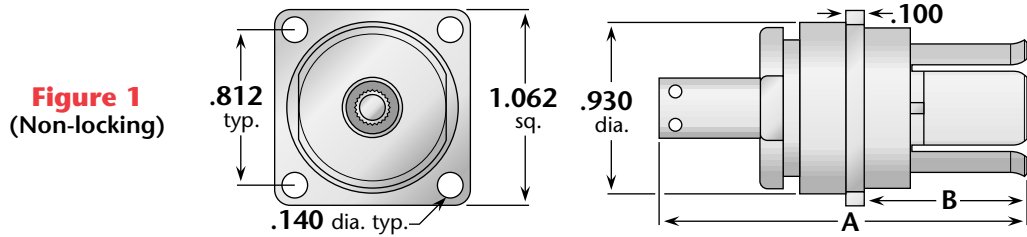
**Figure 1**  
(Non-locking)



**Figure 2**  
(Locking)

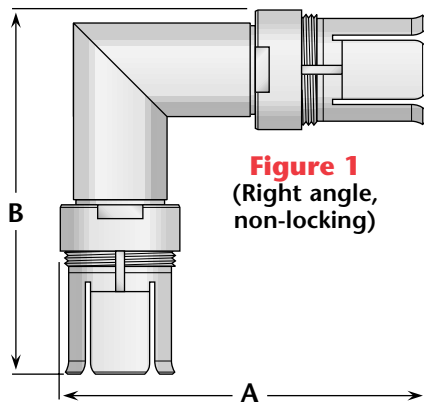
Cable Group	Figure	Dimensions		Plating	Delta P/N	Assembly Procedure/ Trim Code
		A	B			
2, 3	1	3.27	.81	See specifications	2802-002-F001-1	Contact Factory
2, 3	2	3.27	.99	See specifications	2802-002-F001	Contact Factory
5, 6	1	3.27	.81	See specifications	2802-012-N001-1	Contact Factory
5, 6	2	3.27	.99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

## Panel Mounted Connector—Crimp Type for Flexible Cable

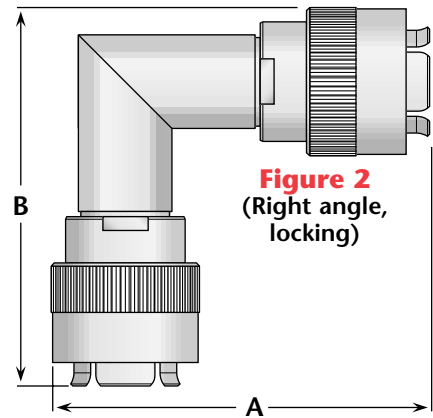


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2	1	1.80	.90	Nickel	Nickel/Silver	2811-002-N911	Contact Factory
3	1	1.80	.90	Nickel	Nickel/Silver	2811-004-N911	Contact Factory
5	1	1.86	.90	Nickel	Nickel/Silver	2811-017-N911	Contact Factory
6	1	2.10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

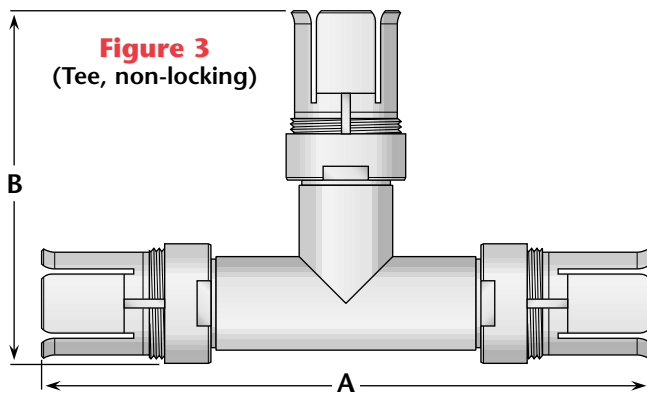
## Adapters Within Series



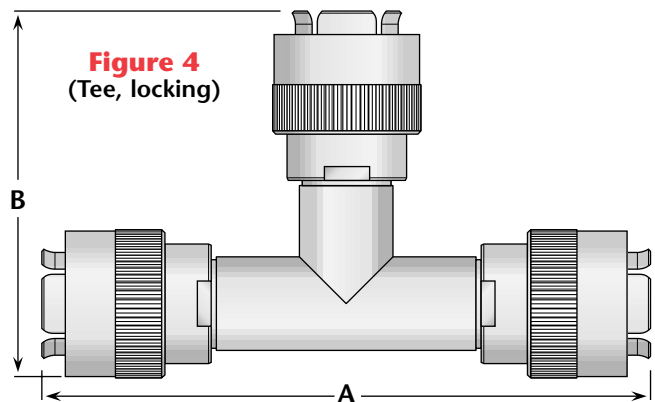
**Figure 1**  
(Right angle,  
non-locking)



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



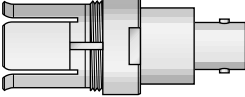
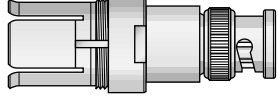
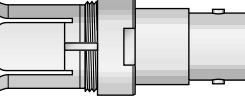
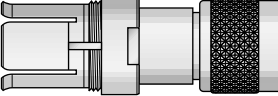
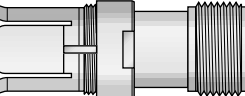
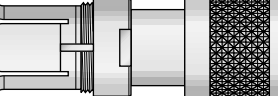
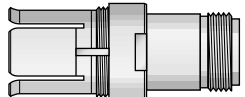
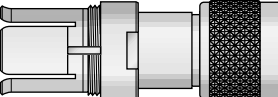
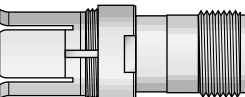
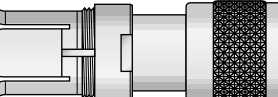
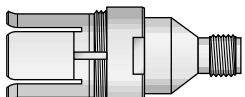
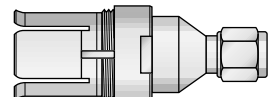
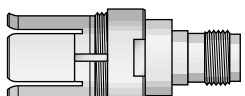
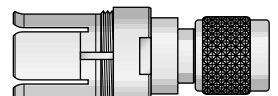
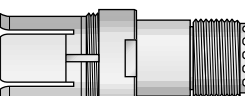
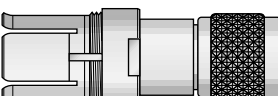
**Figure 3**  
(Tee, non-locking)



**Figure 4**  
(Tee, locking)

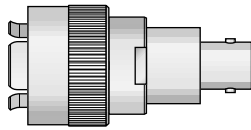
Figure	Dimensions		Plating	Delta P/N
	A	B		
1	2.06	2.06	See specifications	2835-000-N000-1
2	2.15	2.15	See specifications	2835-000-N000
3	3.38	2.09	See specifications	2838-000-N000-1
4	3.38	2.19	See specifications	2838-000-N000

## 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:

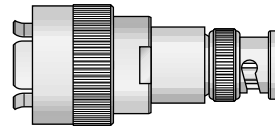
### BNC Jack



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

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

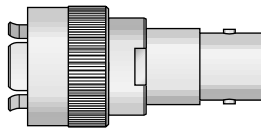
### BNC Plug



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

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

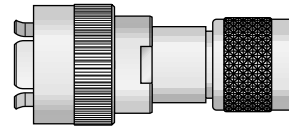
### C Jack



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

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

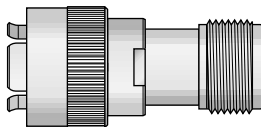
### C Plug



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

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

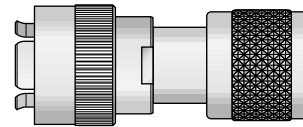
### HN Jack



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

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

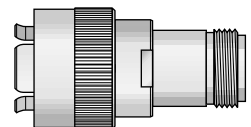
### HN Plug



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

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

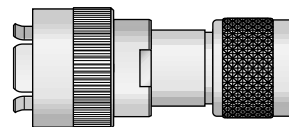
### N Jack



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

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

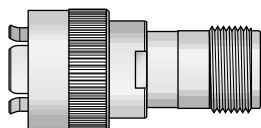
### N Plug



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

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

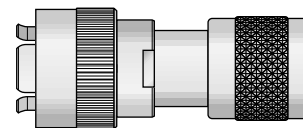
### SC Jack



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

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

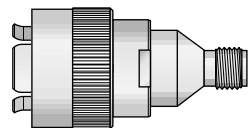
### SC Plug



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

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

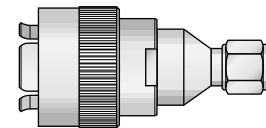
### SMA Jack



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

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

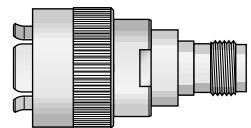
### SMA Plug



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

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

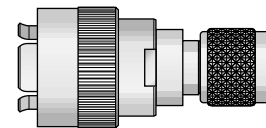
### TNC Jack



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

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

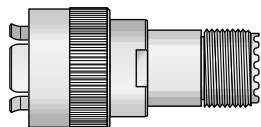
### TNC Plug



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

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

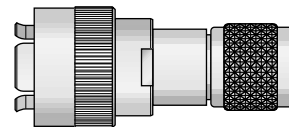
### UHF Jack



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

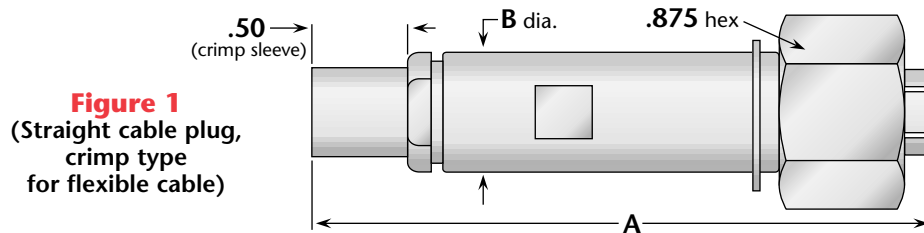
### Electrical:

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

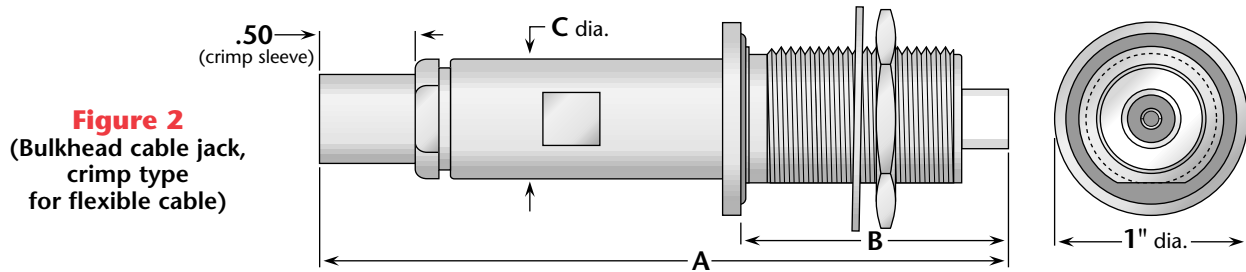
### Materials/Finishes:

**Insulators:** Teflon per ASTM-D-1710.  
**Male Contacts:** Brass per ASTM-B-16.  
**Female Contacts:** Beryllium Copper per ASTM-B-196.  
**Contact Plating:** Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per 2-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM-B-16, Silver plated per QQ-S-365.

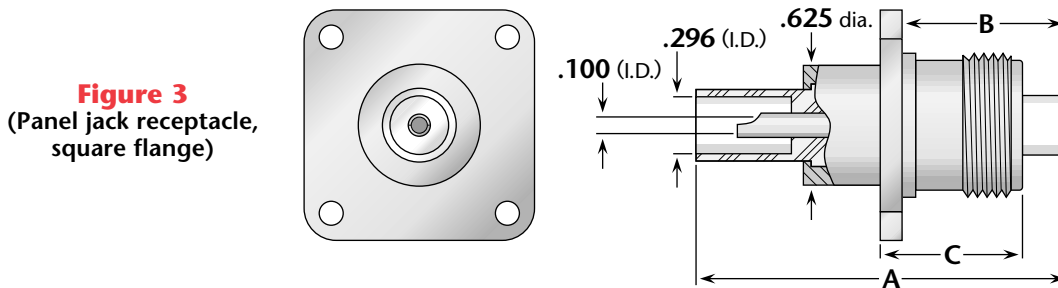
## GHV Connectors



**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	1	3.63	1.66	.625	51	.75	Silver	Gold	1516-002-A510	***
3	1	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	—

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## 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 154.

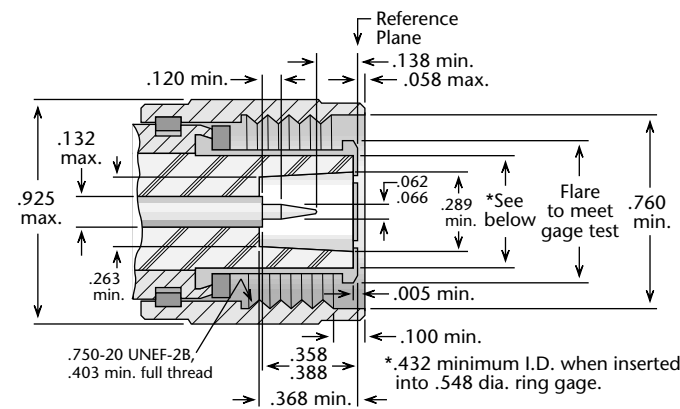
Our HN series product line is still growing, so please call if you don't see what you need.

## HN Configurations

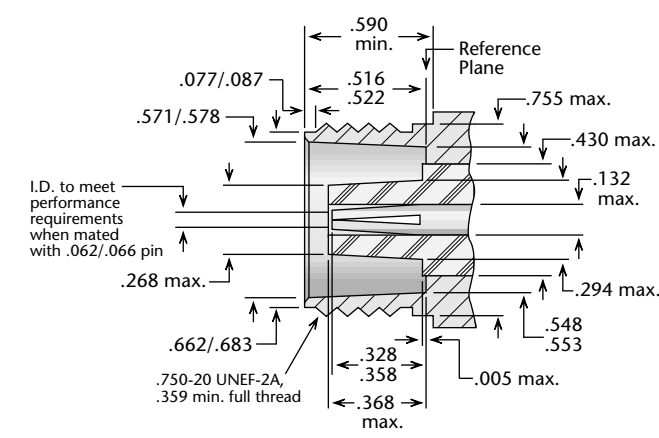
Straight Cable Plugs .....	43	Panel Plug Receptacles.....	45
Right Angle Cable Plugs .....	43	Bulkhead Jack Receptacles .....	45
Straight Cable Jacks .....	44	Dummy Receptacles .....	45
Panel Cable Jacks .....	44	Dust Caps.....	45
Panel Jack Receptacles (square flange) .....	45	In-Series Adapters .....	46

## 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-D-1710, or Rexolite per MIL-P-77.

**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.

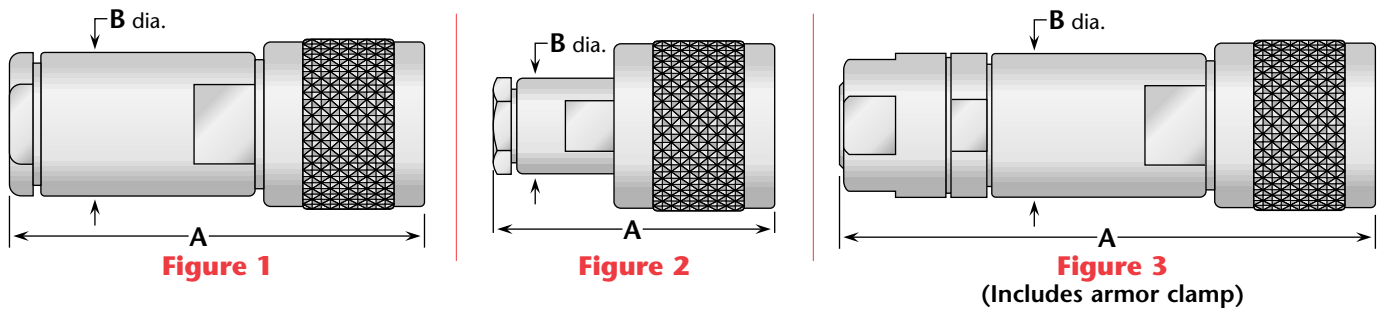
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.

**Other Metal Parts:** Brass per ASTM-B-16, 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.

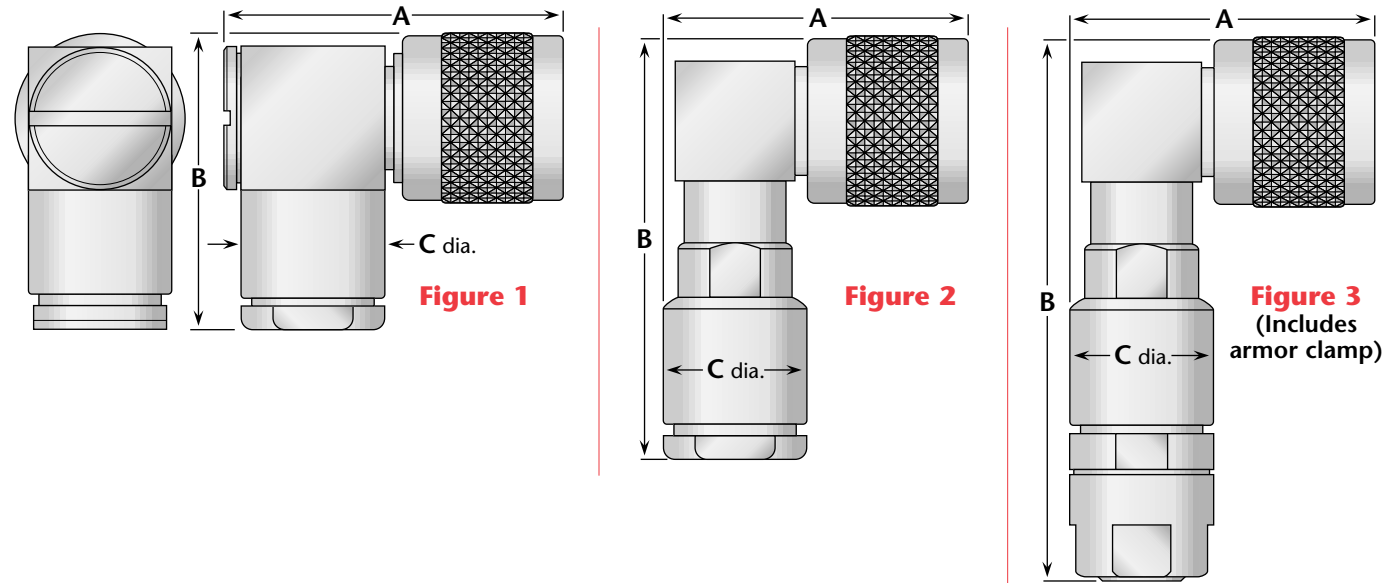
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

## 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

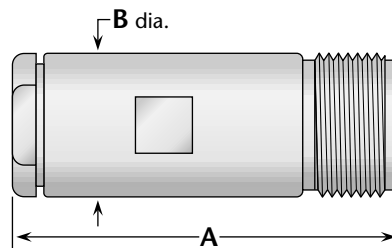
## Right Angle Plug—Military Clamp for Flexible Cable



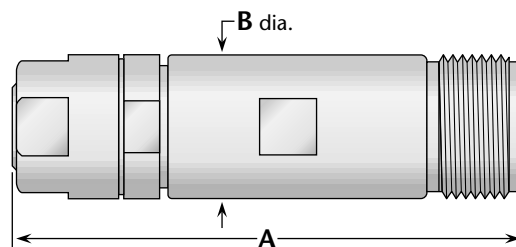
Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
2, 3	1	1.73	1.63	.75	Nickel	Silver (C)	1605-004-N001-2	A/29
2, 3	2	1.53	2.25	.69	Nickel	Silver (C)	1604-004-N001	***
2, 3	2	1.56	2.48	.75	Nickel	Silver	1604-005-N000	A/27
4	2	1.56	2.48	.75	Nickel	Silver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

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## Straight Jack—Military Clamp for Flexible Cable



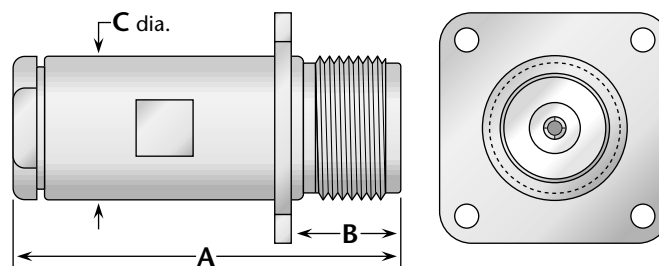
**Figure 1**



**Figure 2**  
(Includes armor clamp)

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
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

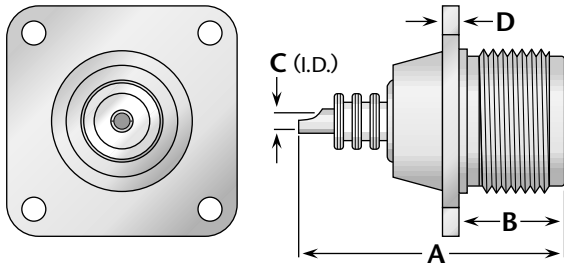


**Figure 1**

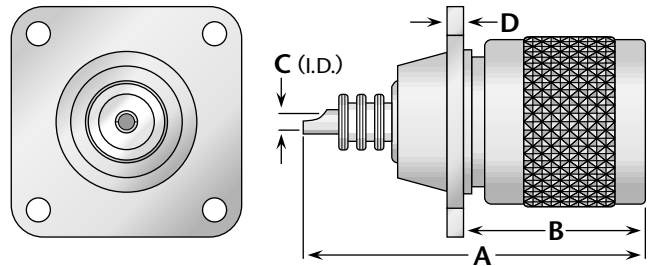
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
2, 3	1	2.53	.59	.69	40	Nickel	Silver	UG-61B/U	***
2, 3	1	2.03	.59	.75	40	Nickel	Silver	UG-61E/U	A/26
2, 3	1	2.03	.59	.75	36	Nickel	Silver	UG-427C/U	A/26

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

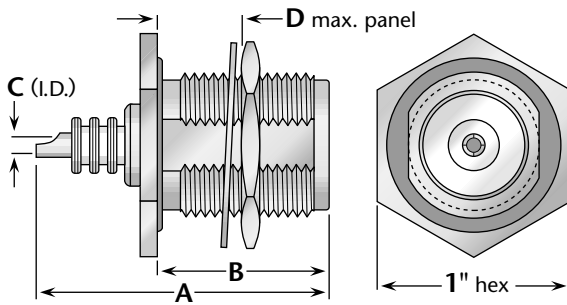
## Panel and Bulkhead Receptacles



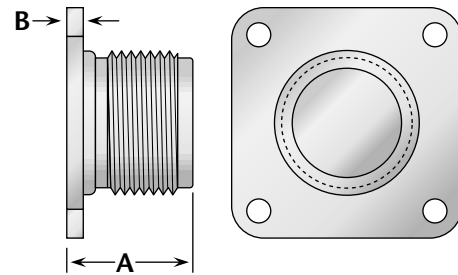
**Figure 1**  
(Panel jack receptacle)



**Figure 2**  
(Panel plug receptacle)



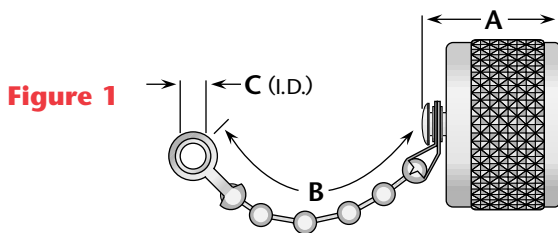
**Figure 3**  
(Bulkhead jack receptacle)



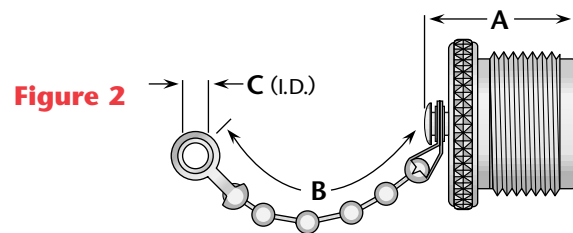
**Figure 4**  
(Dummy receptacle)

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

## Dust Caps



**Figure 1**

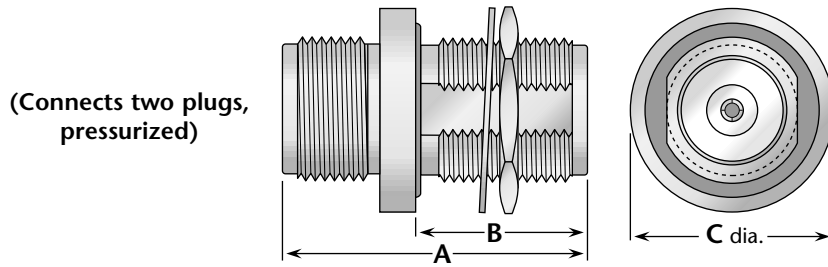


**Figure 2**

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

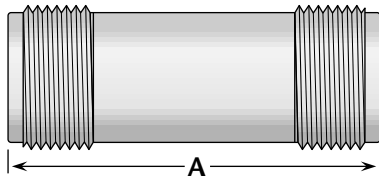
(C) in contact plating column indicates captive contact. • Dust caps available with other chain styles and lengths.

## Bulkhead Jack-Jack Adapter

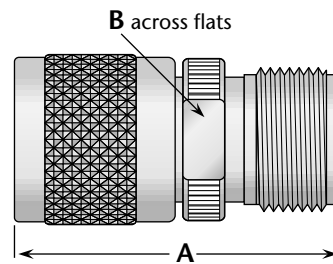


Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.94	1.06	1.06	.25	69	Nickel	Silver (C)	UG-1019A/U

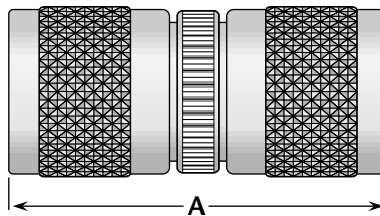
## Straight Adapters



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



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

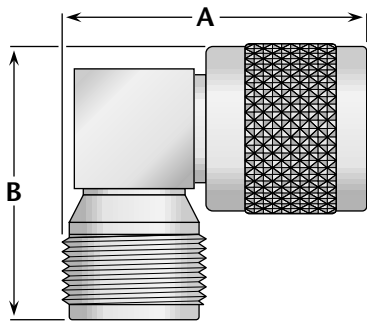


**Figure 3**  
(Straight plug-plug;  
connects two jacks)

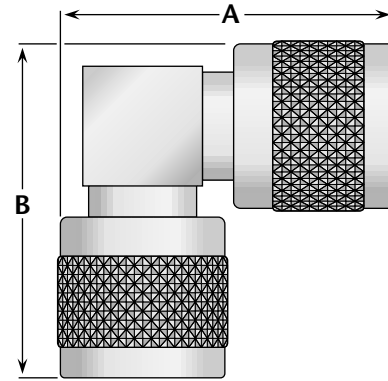
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	2.00	—	Nickel	Silver (C)	1628-000-N000
2	1.63	.75	Nickel	Silver (C)	1634-000-N001
3	1.94	—	Nickel	Silver (C)	1627-000-N000

(C) in contact plating column indicates captive contact.

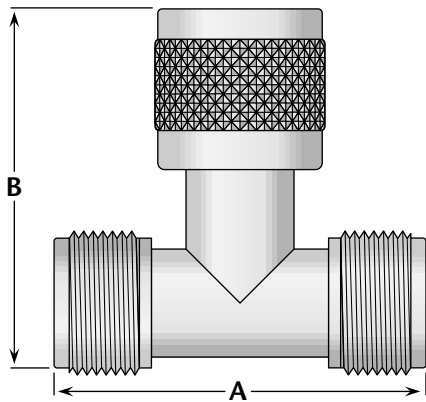
**Right Angle and Tee Adapters**



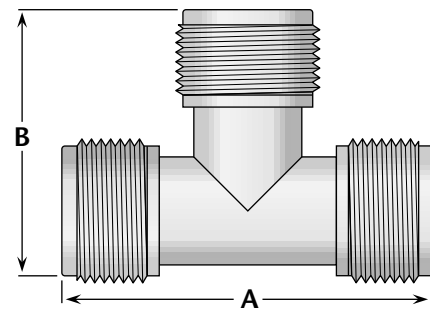
**Figure 1**  
(Right angle jack-plug; connects one plug and one jack)



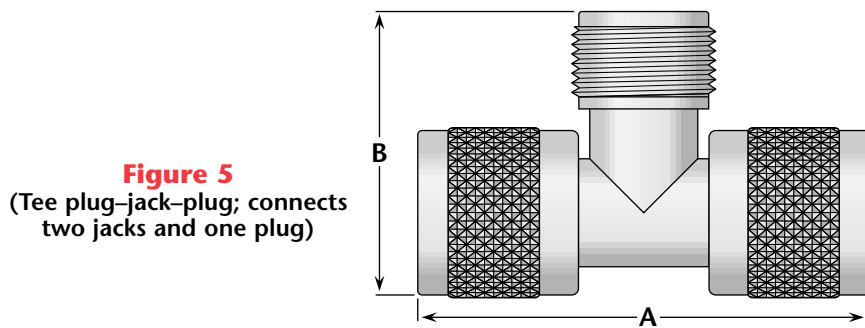
**Figure 2**  
(Right angle plug-plug; connects two jacks)



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



**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.

## General Description

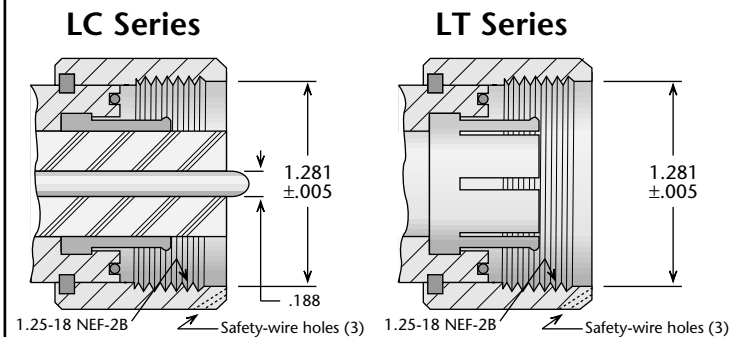
Delta LC and LT series connectors (which are similar in size, but not intermateable), are large, high-voltage, 50Ω impedance connectors with 1¼–18 threaded mating. They are best suited for use with cables with diameters from .73" to 1.2", such as RG-17 and 117/U, and RG-18 and 118/U. Because of the variety 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.....	49
Panel Jack Receptacles (square flange) .....	49
In-Series Adapters .....	50

## 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-D-1710, or rexolite per MIL-P-77.  
**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.

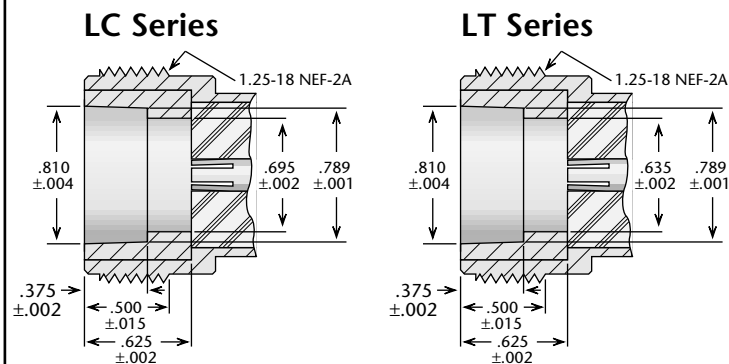
### Other

**Metal Parts:** Brass per ASTM-B-16, 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.

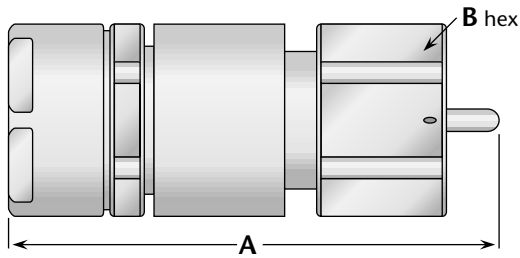
### Jack Interface\*\*



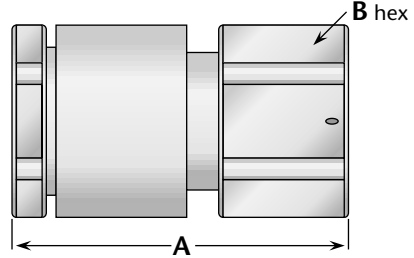
\*\*Some proportions altered to illustrate detail.



## Straight Plug—for Flexible Cable



**Figure 1**  
(LC series)

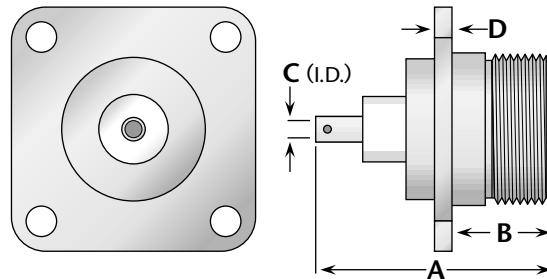


**Figure 2**  
(LT series; uses cable center conductor as contact)

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, Rexolite insulator)

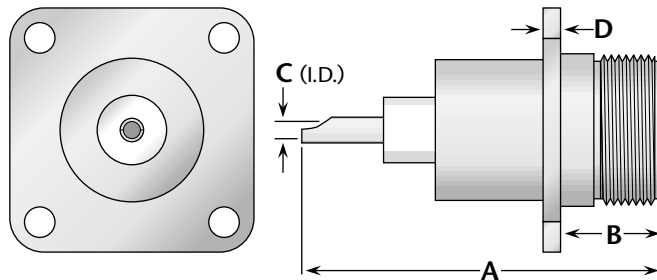
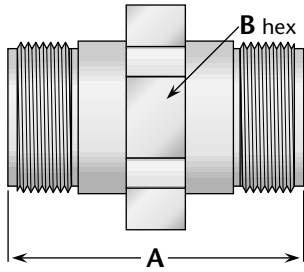


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	2.25	1.13	.187	.125	45	Nickel	Silver (C)	UG-352/U
2	3.06	.88	.203	.125	45	Nickel	Silver (C)	UG-352B/U

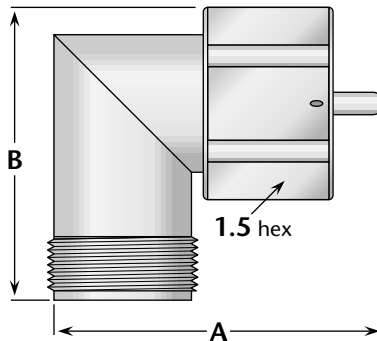
\*\*\*Contact factory for cable assembly instructions.  
(C) in contact plating column indicates captive contact.

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

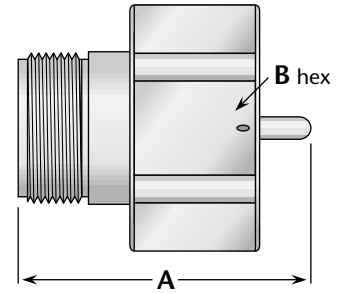
## LC Series Adapters



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



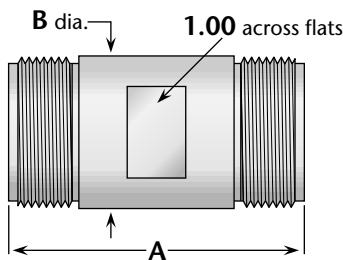
**Figure 2**  
(Right angle plug-jack;  
connects one plug and one jack)



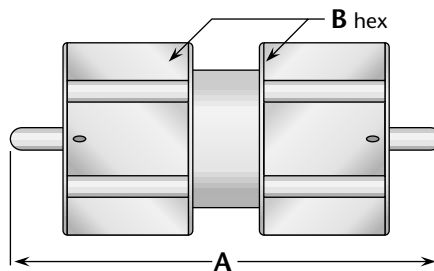
**Figure 3**  
(Straight LC jack-large LC plug;  
connects one LC plug  
and one large LC jack)

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

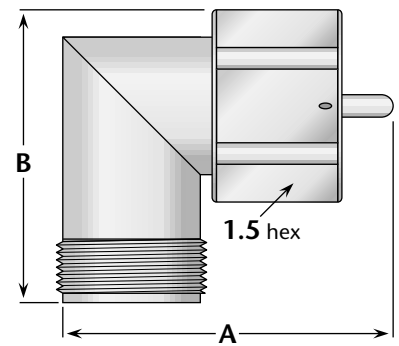
## LT Series Adapters



**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.

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

## 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

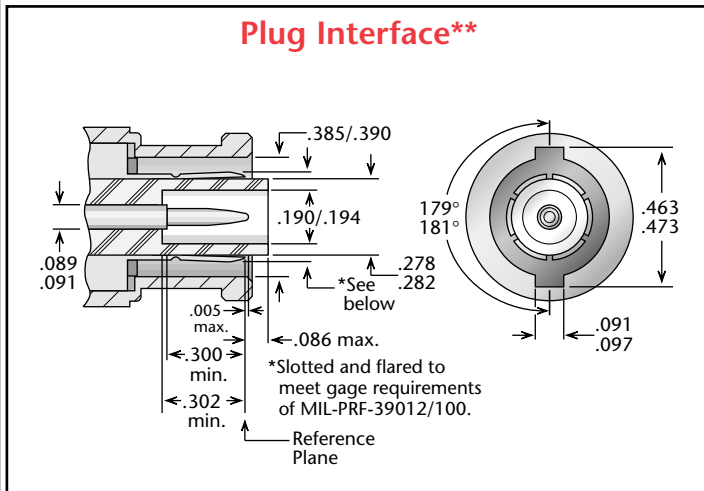
Straight Cable Plugs.....	52
Right Angle Cable Plugs.....	52
Straight Cable Jacks.....	53
Bulkhead Cable Jacks.....	53
Panel Cable Jacks.....	53
Panel Jack Receptacles (square flange).....	54
Bulkhead Jack Receptacles.....	54

### Polarized mating

Straight Cable Plugs.....	52
Bulkhead Cable Jacks.....	53
Panel Cable Jacks.....	53
Panel Jack Receptacles (square flange).....	54
Bulkhead Jack Receptacles.....	54

## 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:

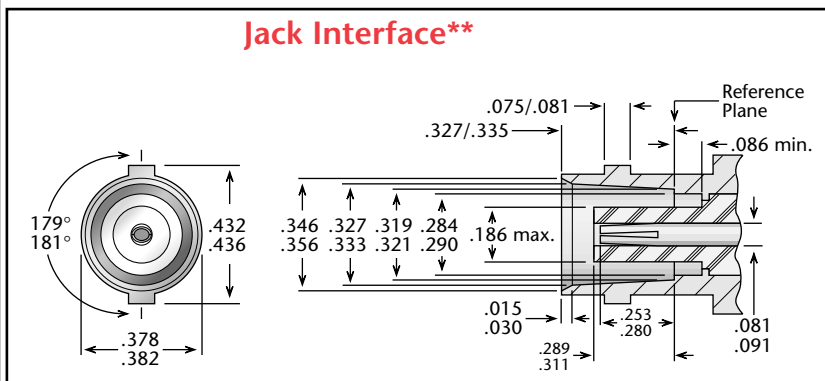
**Insulators:** Teflon per ASTM-D-1710.  
**Male Contacts:** Brass per ASTM-B-16.  
**Female Contacts:** Beryllium Copper per ASTM-B-196.

**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-B-16, plated:  
 Silver per QQ-S-365, or  
 Nickel per QQ-N-290.

### Jack Interface\*\*

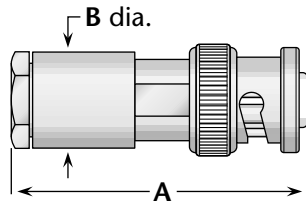


All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-3643, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

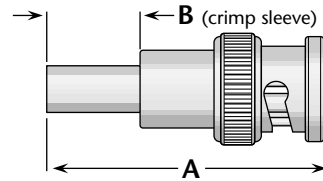
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

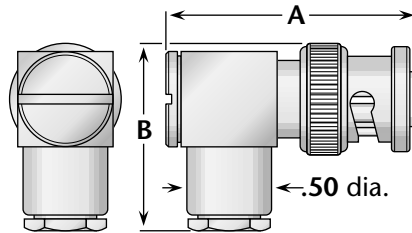
## Straight and Right Angle Plugs for Flexible Cable—Standard Mating



**Figure 1**  
(Clamp type)



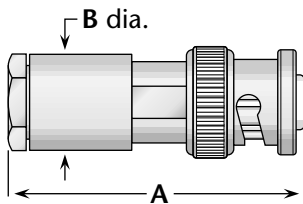
**Figure 2**  
(Crimp type)



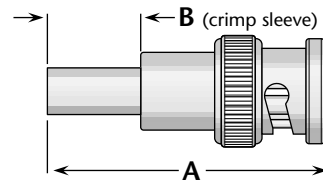
**Figure 3**  
(Clamp type)

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)

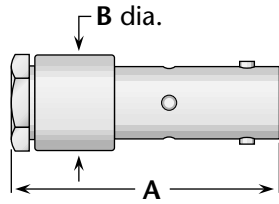


**Figure 2**  
(Crimp type)

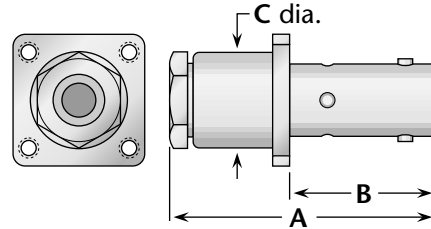
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
5, 6	1	1.56	.50	Nickel	Silver	1701-015-N002	A/30
8A	1	1.56	.50	Nickel	Silver	1701-029-N002	A/30
5	2	1.44	.50	Nickel	Silver	1703-017-N002	B/25
7	2	1.44	.50	Nickel	Silver	1703-020-N002	B/25

(C) in contact plating column indicates captive contact.

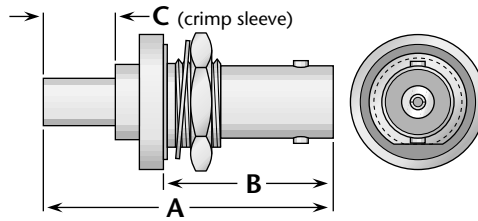
## Cable Jacks for Flexible Cable—Standard Mating



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



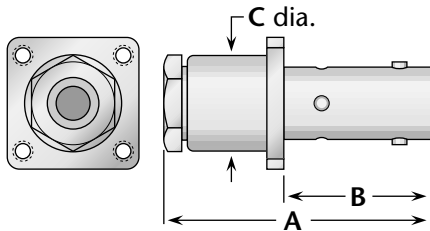
**Figure 2**  
(Panel jack, clamp type)



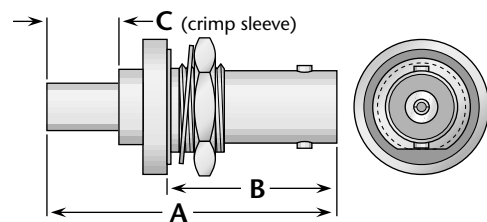
**Figure 3**  
(Bulkhead jack, crimp type)

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)

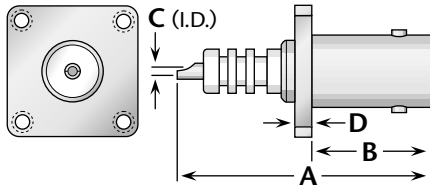


**Figure 2**  
(Bulkhead jack, crimp type)

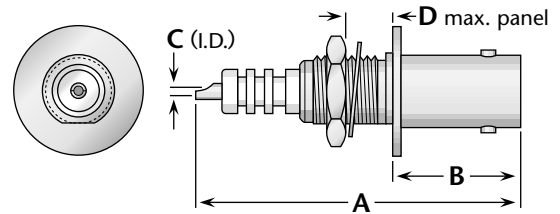
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
5, 6	1	1.50	.78	.50	07	—	Nickel	Silver	1711-014-N072	A/31
5	2	1.88	1.08	.50	59	.20	Nickel	Silver	1719-017-N592	B/24
7	2	1.88	1.08	.50	59	.20	Nickel	Silver	1719-021-N592	B/24

(C) in contact plating column indicates captive contact.

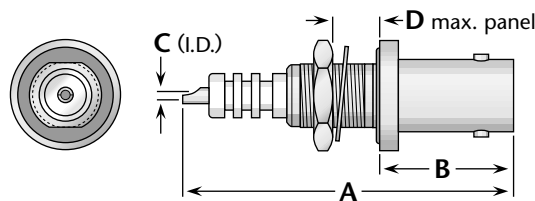
## Bulkhead and Panel Receptacles—Standard Mating



**Figure 1**  
(Panel jack receptacle)



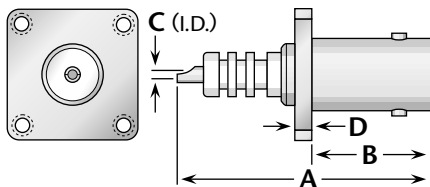
**Figure 2**  
(Bulkhead jack receptacle, front mount, no mounting gasket)



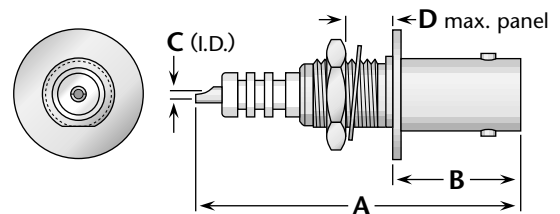
**Figure 3**  
(Bulkhead jack receptacle, front mount, with mounting gasket)

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.

## 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". M39012 QPL N connectors and M55339 QPL N adapters are also included in this section. 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 154.

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 73) 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 77) 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 .....	56	Dummy Receptacles .....	70
Right Angle Cable Plugs .....	59	Right Angle Panel Jack Receptacles .....	70
Tee Cable Plugs .....	60	Panel Plug Receptacles.....	71
Straight Cable Jacks .....	60	Bulkhead Jack Receptacles .....	72
Bulkhead Cable Jacks .....	62	Stripline Receptacles .....	72
Tee Bulkhead Cable Jacks.....	63	PressMount Receptacles.....	73
Panel Cable Jacks .....	65	Resistive Terminations .....	74
Panel Jack Receptacles (square flange) .....	67	Dust Caps.....	74
Panel Jack Receptacles (round flange).....	67	In-Series Adapters .....	75

## 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-D-1710.  
**Male Contacts:** Brass per ASTM-B-16.  
**Female Contacts:** Beryllium Copper per ASTM-B-196.

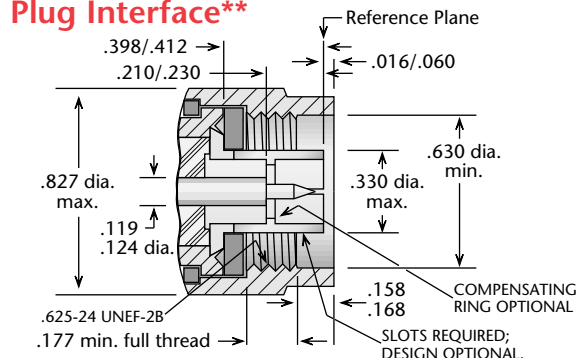
**Contact Plating:** Silver per QQ-S-365, or  
 Gold per MIL-G-45204.

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

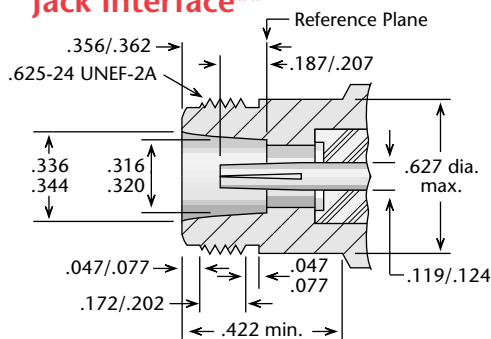
**Other Metal Parts:** Brass per ASTM-B-16, plated:  
 Silver per QQ-S-365, or  
 Nickel per QQ-N-290.

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\*\*



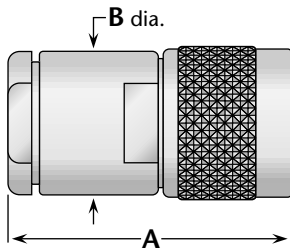
### Jack Interface\*\*



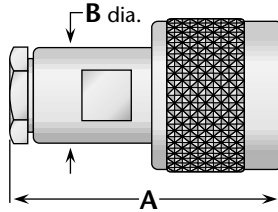
\*\*Some proportions altered to illustrate detail.

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

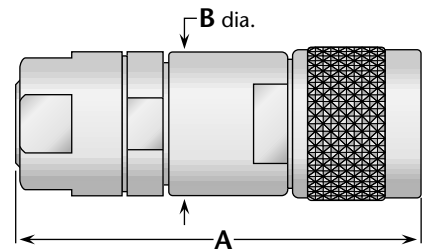
## Straight Plug—Military Clamp for Flexible Cable



**Figure 1**



**Figure 2**

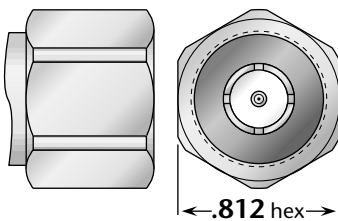


**Figure 3**  
(Includes armor clamp)

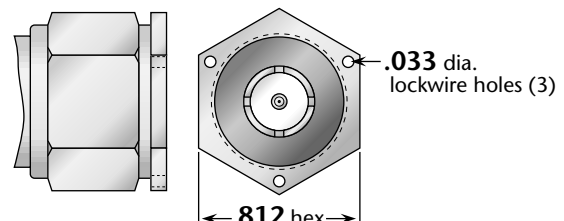
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.50	.75	Nickel	Silver	UG-18E/U	A/01
1	1	1.50	.75	Nickel	Silver (C)	1101-001-N001	A/01
2, 3	1	1.80	.68	Nickel	Silver	UG-21B/U	C/01
2, 3	1	1.50	.75	Nickel	Gold	UG-21D/U	A/01
2, 3	1	1.50	.75	Nickel	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



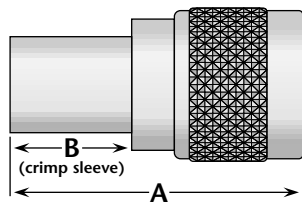
13/16" hex coupling nut with lockwire holes

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.

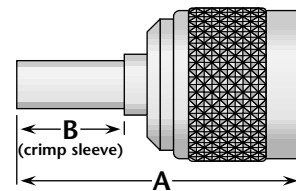
(C) in contact plating column indicates captive contact.



## Straight Plug—Crimp Type for Flexible Cable



**Figure 1**

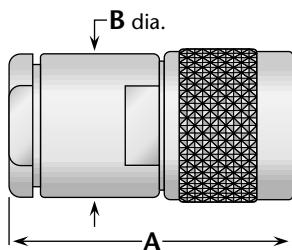


**Figure 2**

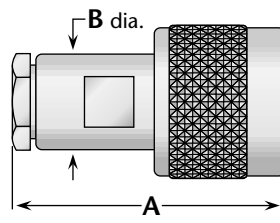
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2	1	1.51	.63	Nickel	Silver	1103-002-N000	B/01
2	1	1.55	.63	Nickel	Gold (C)	1103-002-N001-9	B/03
2	1	1.55	.60	Silver	Gold (C)	M39012/01B0007*	B/03
2B	1	1.55	.63	Nickel	Silver	1103-070-N000	B/01
3A, 4	1	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
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

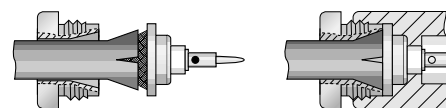


**Figure 1**



**Figure 2**

### Heli-Grip® Cable Attachment



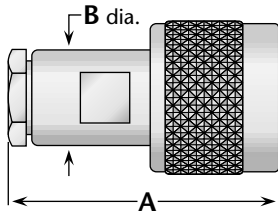
These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.50	.75	Nickel	Gold (C)	1101-004-N005	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

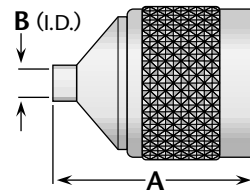
§Except RG-223/U.

(C) in contact plating column indicates captive contact.

**Straight Plug—For Semi-Rigid Cable**

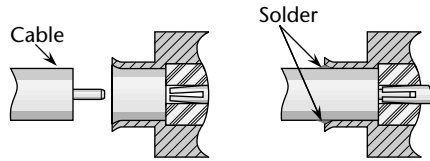


**Figure 1**  
(Solder-clamp; gold-plated ferrule, nickel-plated body)

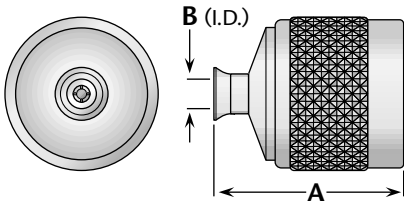


**Figure 2**  
(Direct solder; gold-plated body, nickel<sup>(1)</sup> or passivated<sup>(2)</sup> coupling nut)

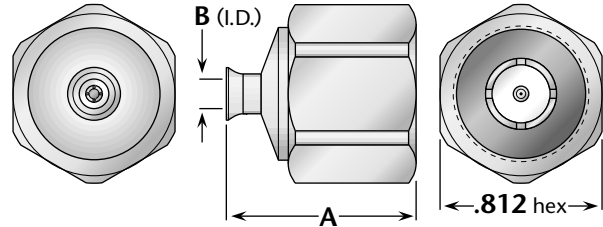
**Delta One-Step Cable Attachment for Semi-Rigid Cable**



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)

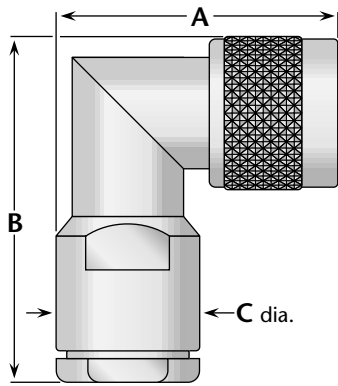
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
12	1	1.50	.50	Nickel	Silver	1101-050-N000	F/03
12	2	.96	.254	Mixed <sup>(1)</sup>	Silver	1101-050-N003	***
12	4	1.44	.254	Silver	Gold (C)	1101-050-A003-7	I/01
13	1	1.41	.50	Nickel	Silver	1101-031-N003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

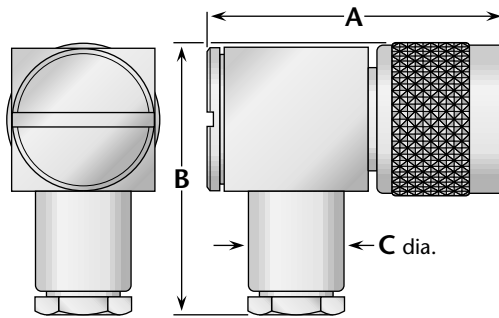
<sup>(2)</sup> Stainless steel body and coupling nut.

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

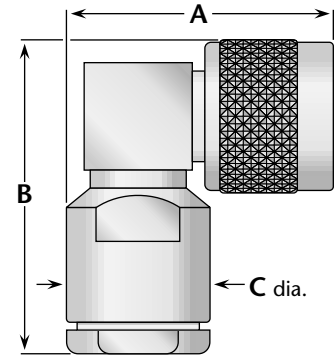
## Right Angle Plug—Military Clamp for Flexible Cable



**Figure 1**  
(Mitered body)



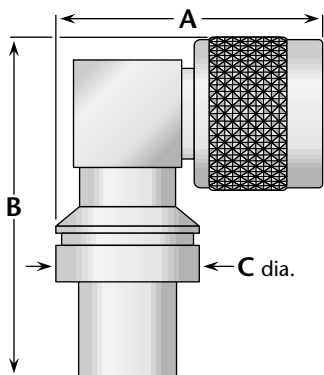
**Figure 2**  
(Cube body with access cap)



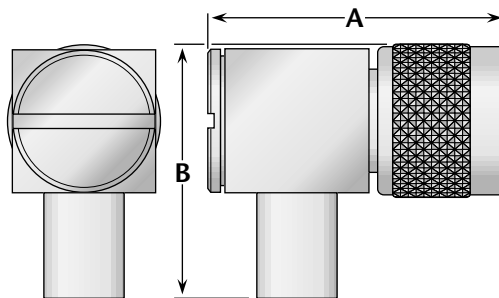
**Figure 3**  
(Cube body)

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

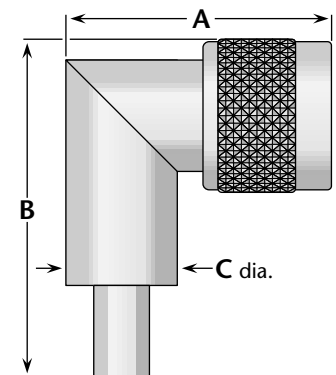
## Right Angle Plug—Crimp Type for Flexible Cable



**Figure 1**  
(Cube body)



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

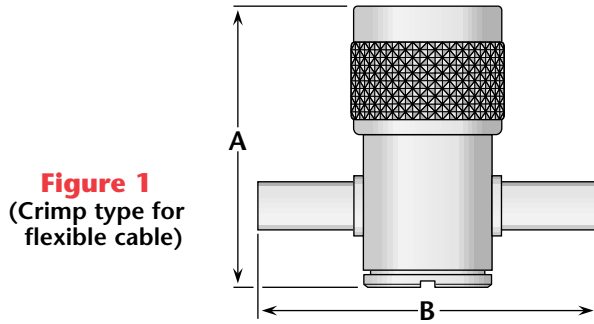


**Figure 3**  
(Mitered body)

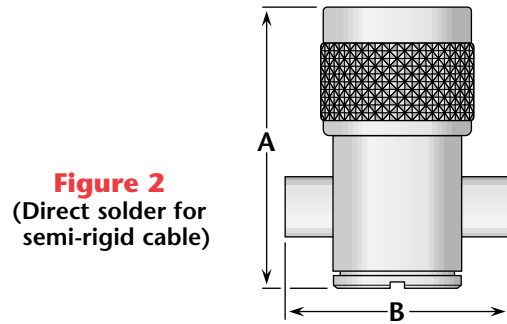
Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
2	1	1.39	1.77	.75	Nickel	Silver	1107-002-N000	B/07
2	2	1.39	1.25	—	Nickel	Silver (C)	1107-002-N000-1	B/09
3	1	1.39	1.77	.75	Nickel	Silver	1107-005-N000	B/07
2	3	1.41	2.30	.687	Nickel	Gold (C)	1107-002-N001-2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

(C) in contact plating column indicates captive contact.

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



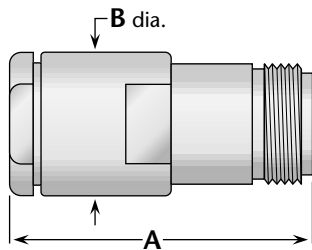
**Figure 1**  
(Crimp type for flexible cable)



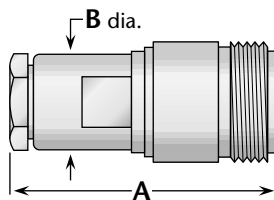
**Figure 2**  
(Direct solder for semi-rigid cable)

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	***

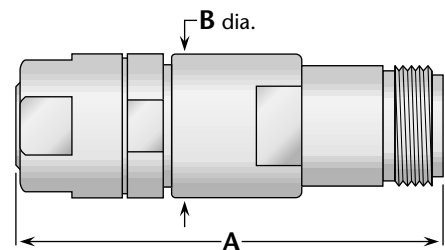
## Straight Jack—Military Clamp for Flexible Cable



**Figure 1**



**Figure 2**



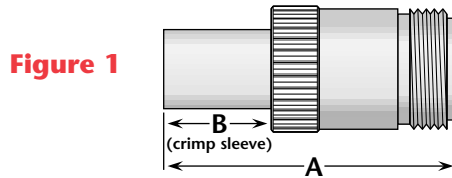
**Figure 3**  
(Includes armor clamp)

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.

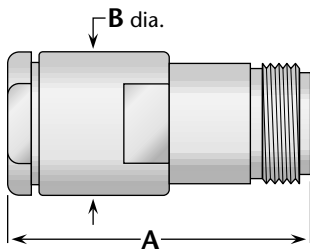
\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## Straight Jack—Crimp Type for Flexible Cable

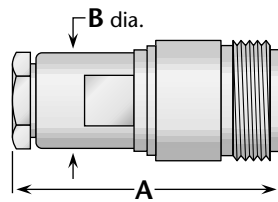


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2	1	1.64	.60	Silver	Gold (C)	M39012/02B0008	B/10
2	1	1.47	.50	Nickel	Gold	1110-002-N000	B/10
2	1	1.60	.63	Nickel	Gold (C)	1110-002-N001	B/11
3	1	1.64	.60	Silver	Gold (C)	M39012/02B0009	B/10
3	1	1.64	.60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

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

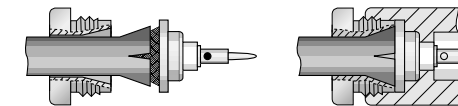


**Figure 1**



**Figure 2**

**Heli-Grip® Cable Attachment**

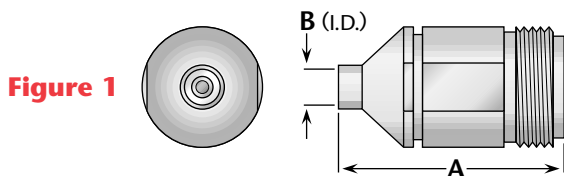


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

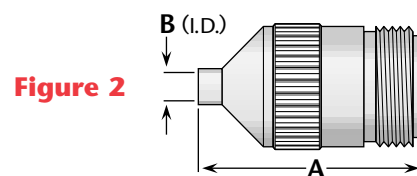
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.63	.75	Nickel	Gold (C)	1108-004-N005-2	E/01
5, 6 <sup>§</sup>	2	1.41	.50	Nickel	Gold (C)	1108-018-N005-2	E/02
RG-223	2	1.41	.50	Nickel	Gold (C)	1108-015-N005	E/02
7	2	1.41	.50	Nickel	Gold (C)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

## Straight Jack—For Semi-Rigid Cable



**Figure 1**

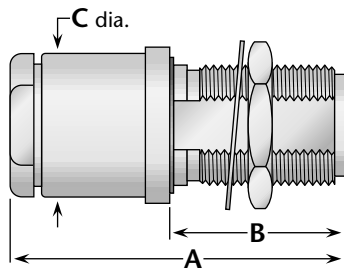


**Figure 2**

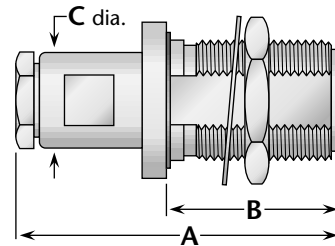
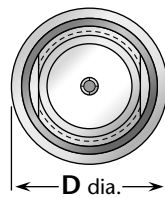
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
12	1	1.07	.254	Silver	Gold	1108-050-A003-3	***
13	2	1.00	.143	Silver	Gold	1108-031-A003	***

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

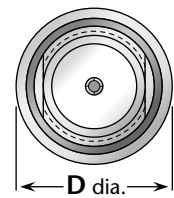
## Bulkhead Jack—Military Clamp for Flexible Cable



**Figure 1**  
(Rear mount)

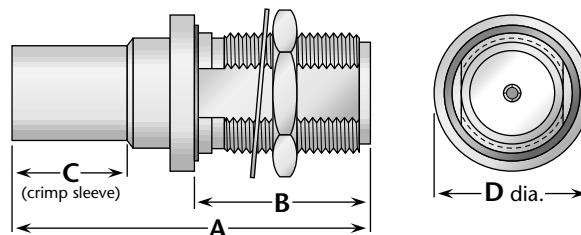


**Figure 2**  
(Rear mount)



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

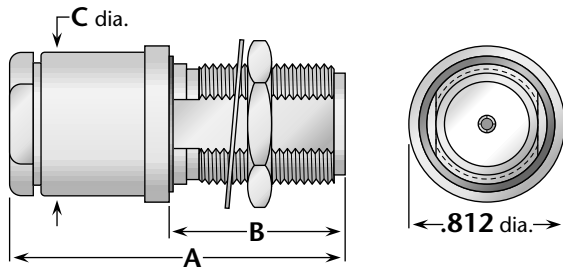


**Figure 1**  
(Rear mount)

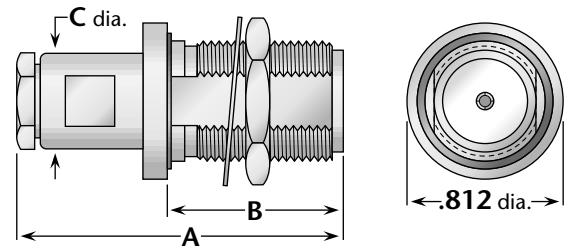
Cable Group	Fig.	Dimensions				Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C	D			Body	Contact		
2	1	1.84	.92	.60	.875	72	.25	Silver	Gold (C)	M39012/03B0004	B/03
3	1	1.84	.92	.60	.875	72	.25	Silver	Gold (C)	M39012/03B0005	B/03
3	1	1.84	.92	.60	.875	72	.25	Silver	Gold (C)	M39012/03-0501	B/03
6	1	1.74	.95	.50	.875	72	.25	Nickel	Gold (C)	1119-013-N721	B/13
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

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

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

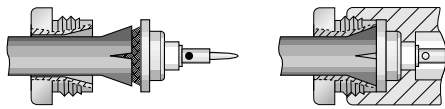


**Figure 1**



**Figure 2**

### Heli-Grip® Cable Attachment

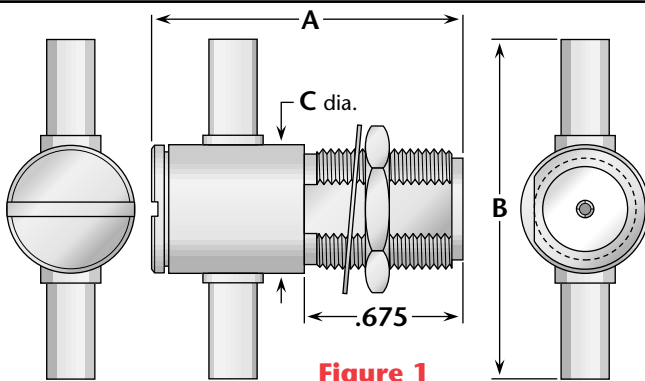


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

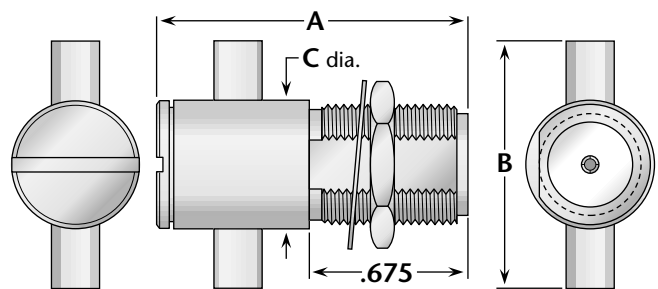
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
2, 3	1	1.84	.92	.75	72	.25	Nickel	Gold (C)	1116-004-N725	E/01
5, 6 <sup>§</sup>	2	1.69	.92	.50	72	.25	Nickel	Gold (C)	1116-015-N725	E/03
RG-223	2	1.69	.92	.50	72	.25	Nickel	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)

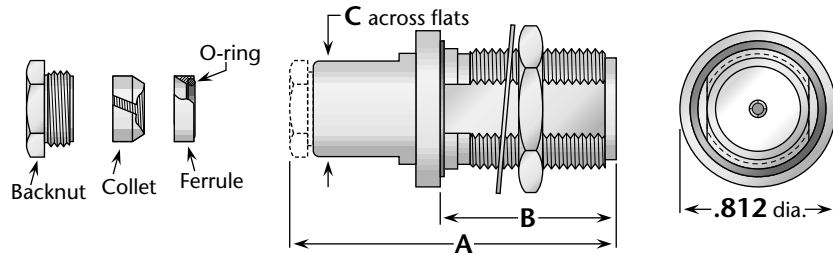


**Figure 2**  
(Direct solder for semi-rigid cable)

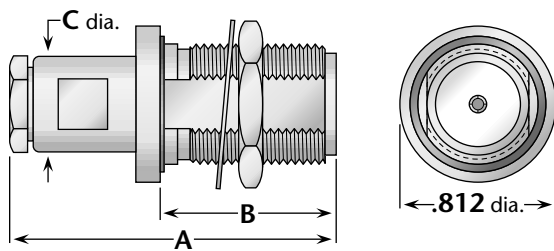
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
2	1	1.40	2.00	.75	55	.10	Silver	Silver (C)	1185-002-A551	B/16
3	1	1.40	2.00	.75	55	.10	Silver	Silver (C)	1185-004-A551	B/16
6	1	1.38	1.89	.75	55	.10	Silver	Silver (C)	1185-013-A551	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	***

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

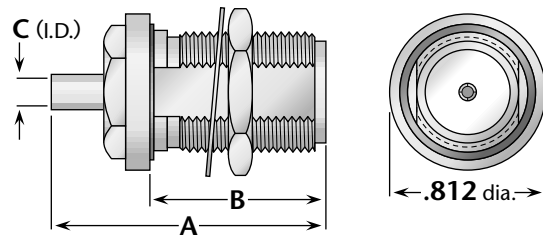
**Bulkhead Jack—For Semi-Rigid Cable**



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

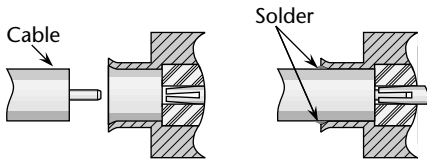


**Figure 2**  
(Solder-clamp; gold-plated ferrule, nickel-plated body)

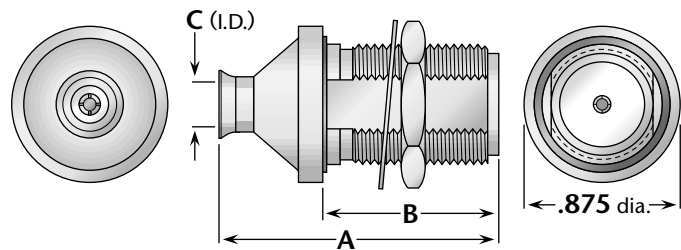


**Figure 3**  
(Direct solder)

**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.



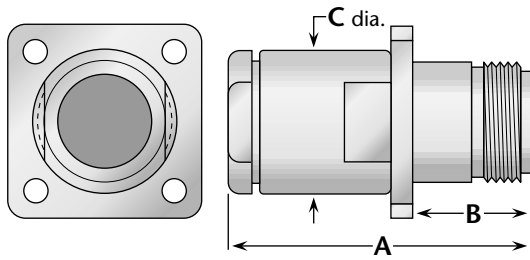
**Figure 4**  
(One-Step cable attachment)

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	Silver	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

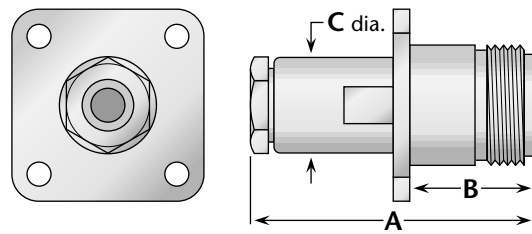
\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.



## Panel Jack—For Flexible Cable

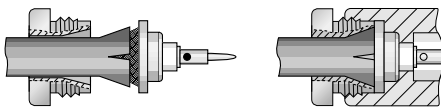


**Figure 1**



**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

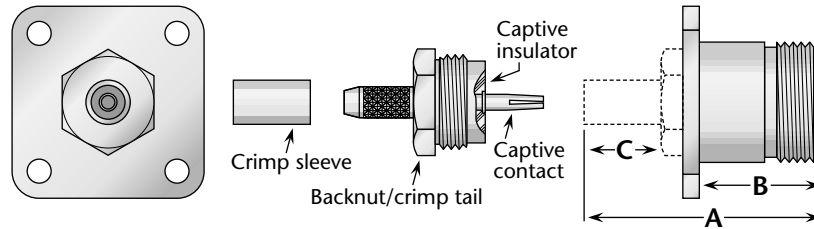
### Heli-Grip for Flexible Cable

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	.92	.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.

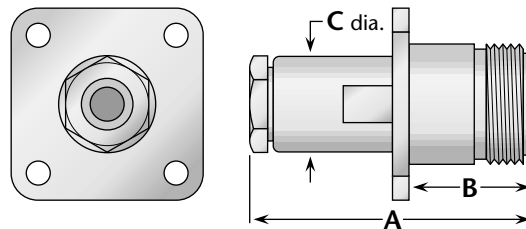
(C) in contact plating column indicates captive contact.

## Panel Jack—Crimp Type for Flexible Cable

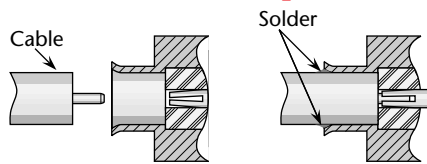
**Figure 1**


Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
5	1	1.19	.595	.50	33	Nickel	Silver (C)	1155-017-N331	***
6	1	1.19	.595	.50	33	Nickel	Silver (C)	1155-013-N331	***
9	1	1.16	.595	.38	33	Nickel	Silver (C)	1155-037-N331	***

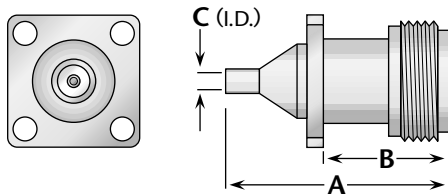
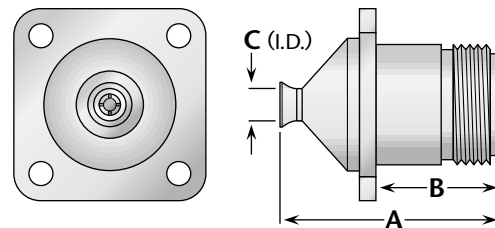
## Panel Jack—For Semi-Rigid Cable

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


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



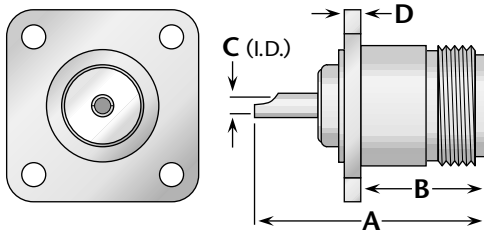
Delta "One-Step" connectors feature captivated contacts and insulators to allow rapid, easy assembly to semi-rigid cable—simply trim the cable jacket and dielectric flush, chamfer the center conductor, insert into the connector, and solder the jacket to the connector body.


**Figure 2**

**Figure 3**

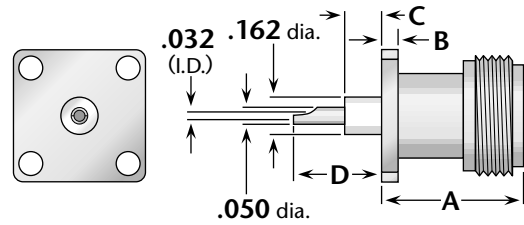
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
13	1	1.41	.66	.50	33	Nickel	Gold	1111-031-N333-1	F/05
13	2	1.11	.66	.143	09	Silver	Gold (C)	1111-031-A091-1	I/01
13	3	1.07	.64	.143	33	Silver	Gold (C)	1111-031-A333-4	I/01
14	1	1.41	.66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

(C) in contact plating column indicates captive contact.

**Panel Jack Receptacle—Solder Pot Contact**

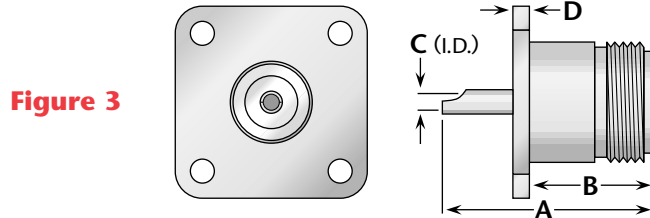


**Figure 1**



**Figure 2**

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

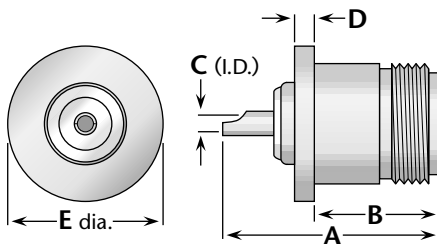


**Figure 3**

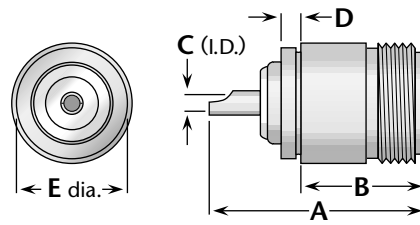
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.13	.66	.100	.080	33	Nickel	Silver (C)	UG-58A/U
1	1.13	.66	.100	.080	33	Silver	Gold (C)	M39012/04-0002
1	1.13	.66	.100	.080	18	Nickel	Silver (C)	1113-000-N181
1	1.13	.66	.100	.080	32A	Nickel	Silver (C)	1113-000-N321-2
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**

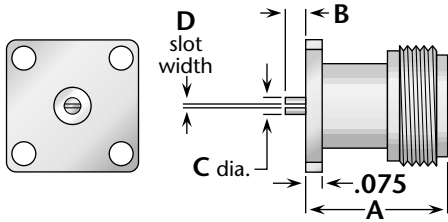


**Figure 2**

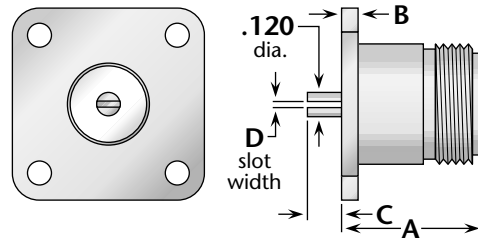
Figure	Dimensions					Plating		Delta P/N
	A	B	C	D	E	Body	Contact	
1	1.25	.66	.100	.175	1.50	Nickel	Silver (C)	1113-000-N911-2
1	1.25	.66	.100	.125	1.25	Nickel	Gold (C)	1113-000-N911-5
2	1.13	.66	.100	.11	.575	Nickel	Silver (C)	1120-000-N831

(C) in contact plating column indicates captive contact.

## Panel Jack Receptacle—Slotted Contact



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

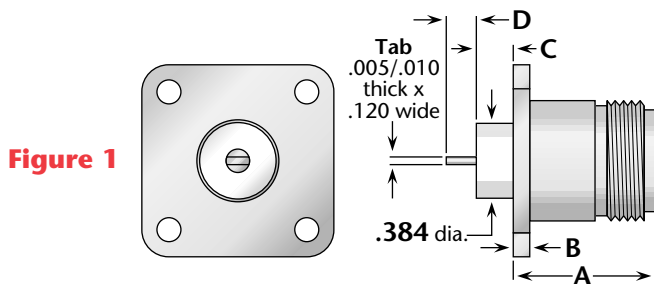


**Figure 2**

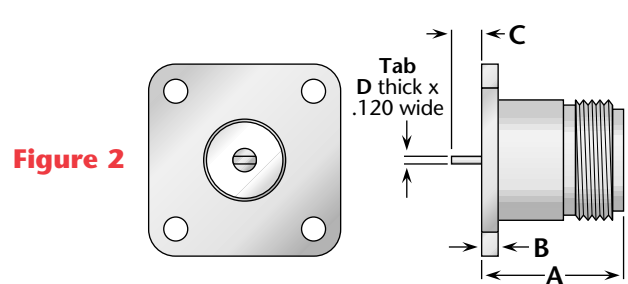
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	.735	.050	.086	.012/.017	09	Nickel	Gold (C)*	1143-000-N091-2
1	.735	.050	.086	.036	09	Nickel	Gold (C)*	1143-000-N091-3
1	.735	.050	.086	.007/.012	09	Nickel	Gold (C)*	1143-000-N091-4
1	.735	.050	.050	.012/.017	09	Nickel	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**  
(11/16" square flange, interchangeable with BNC and TNC standard flange size)

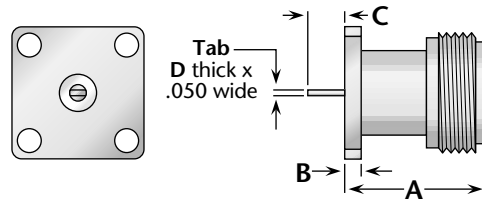
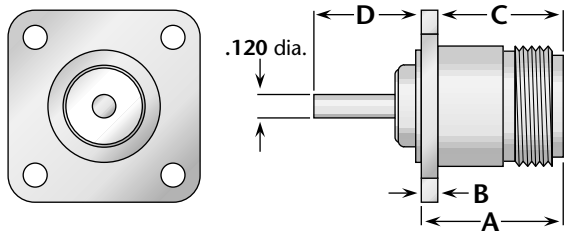


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	.736	.080	.195	.35	33	Nickel	Gold (C)*	1143-000-N330-12
2	.736	.080	.100	.005/.008	33	Silver	Gold (C)*	1158-000-A331-12
3	.735	.075	.050	.004/.006	09	Silver	Gold (C)*	1158-000-A091-23

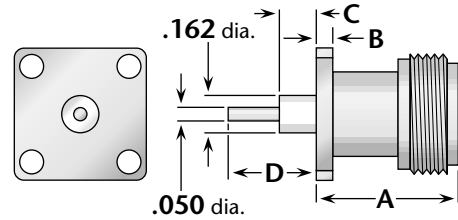
\*Epoxy-captivated contact.

(C) in contact plating column indicates captive contact.

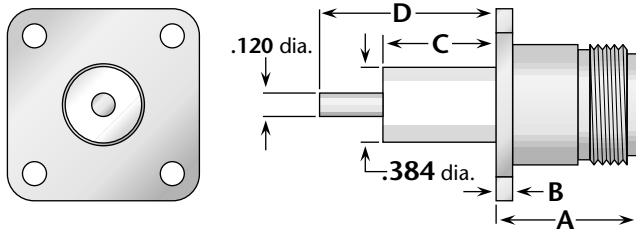
**Panel Jack Receptacle—Post Contact**



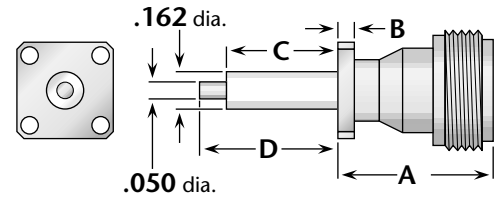
**Figure 1**



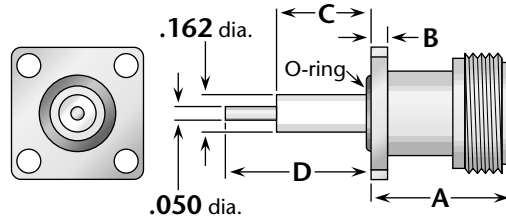
**Figure 2**  
(<sup>11</sup>/<sub>16</sub>" square flange, interchangeable with BNC and TNC standard flange size)



**Figure 3**



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



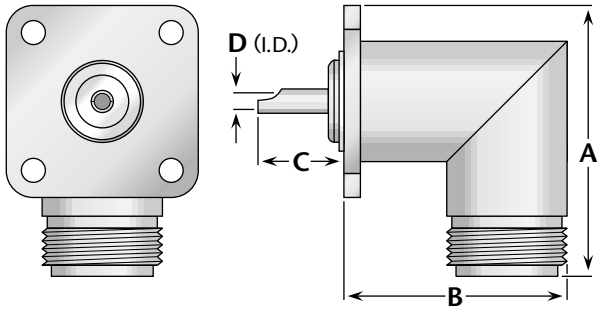
**Figure 5**  
(O-ring seal on flange, <sup>11</sup>/<sub>16</sub>" square flange, interchangeable with BNC and TNC standard flange size)

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

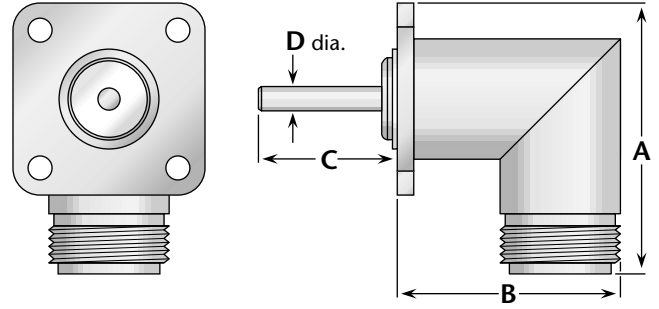
\*Epoxy-captivated contact.

(C) in contact plating column indicates captive contact.

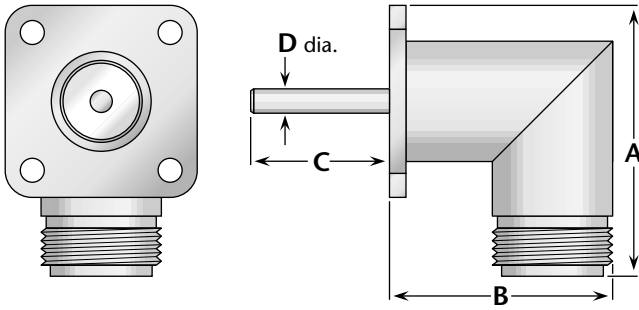
## Right Angle Panel Jack Receptacle



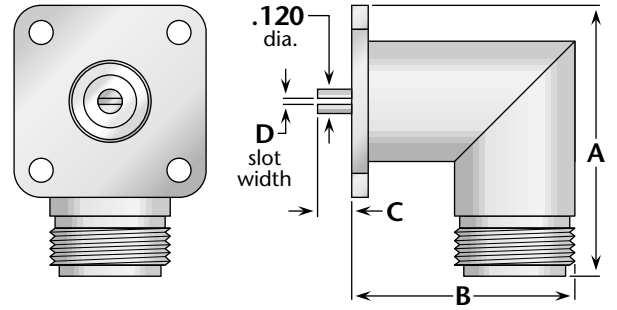
**Figure 1**



**Figure 2**



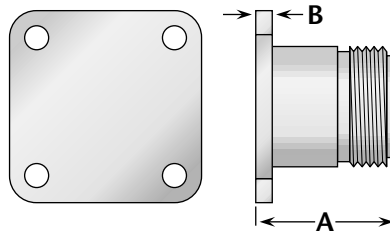
**Figure 3**



**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

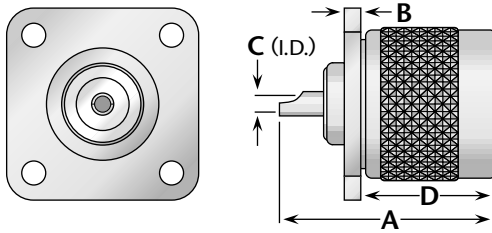


Dimensions		Mounting Figure	Plating		Delta P/N
A	B		Body	Contact	
.740	.080	33	Nickel	—	1163-000-N330

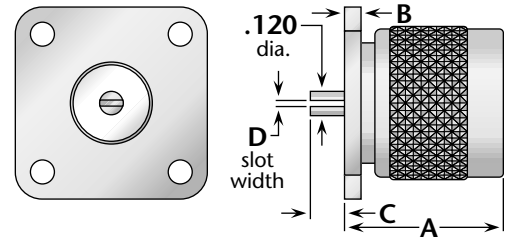
(C) in contact plating column indicates captive contact.

**Panel Plug Receptacles**

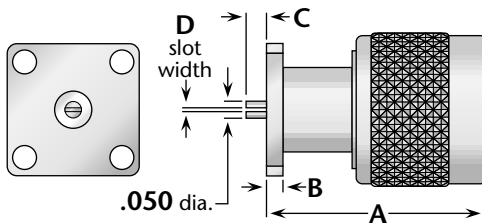
**Figure 1**  
(Solder pot contact)



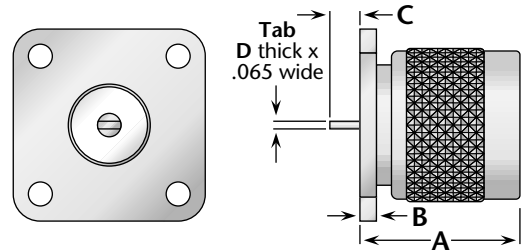
**Figure 2**  
(Slotted contact)



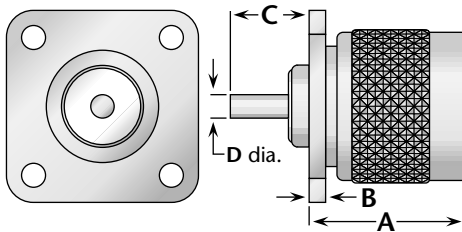
**Figure 3**  
(Slotted contact)



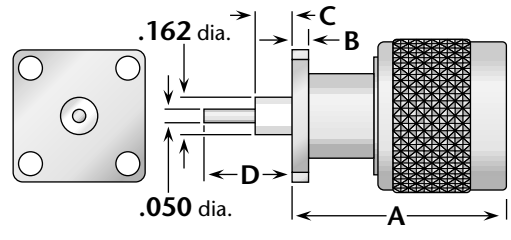
**Figure 4**  
(Tab contact)



**Figure 5**  
(Post contact)



**Figure 6**  
(Post contact)



**Figure 7**  
(Post contact)

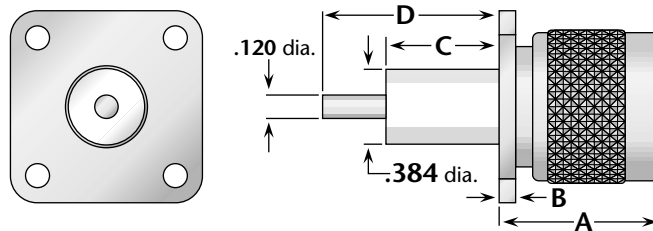
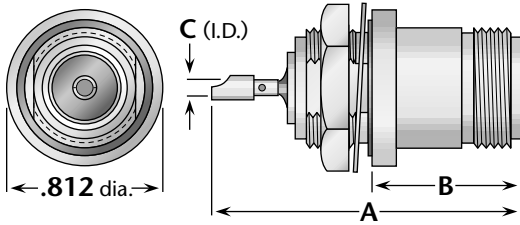


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.10	.080	.101	.72	33	Nickel	Silver (C)	1123-000-N330
1	1.10	.080	.101	.72	33	Nickel	Gold (C)	1123-000-N330-4
2	.78	.080	.050	.012/.017	33	Nickel	Gold (C)	1159-000-N330-1
2	.81	.080	.050	.012/.017	33	Nickel	Gold (C)	1159-000-N330-13
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

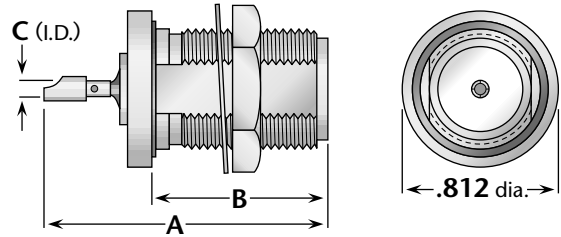
\*Epoxy-captivated contact.

(C) in contact plating column indicates captive contact.

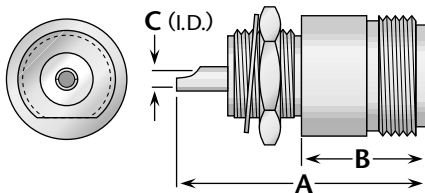
## Bulkhead Jack Receptacles


**Figure 1**

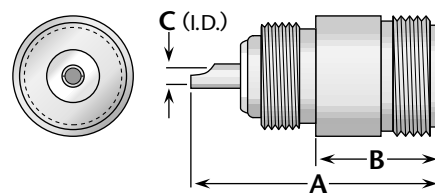
(Front mount, hermetically sealed, with mounting gasket)


**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	1.25	.562	.099	.100	**	Nickel	Silver (C)	1120-000-N591

## Stripline Receptacles

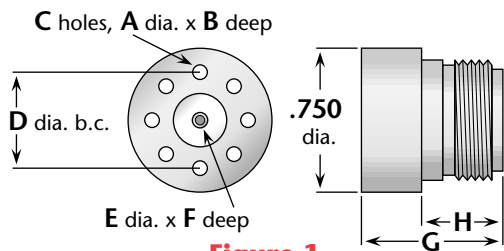
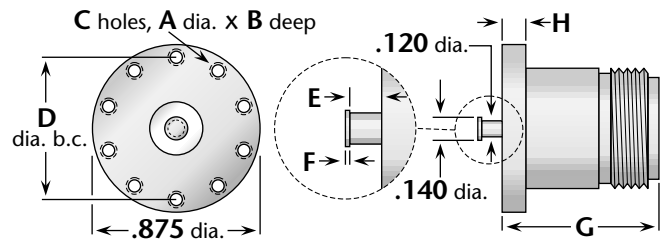

**Figure 1**

**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.

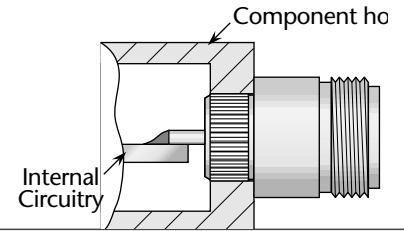


## Delta PressMount Receptacles

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

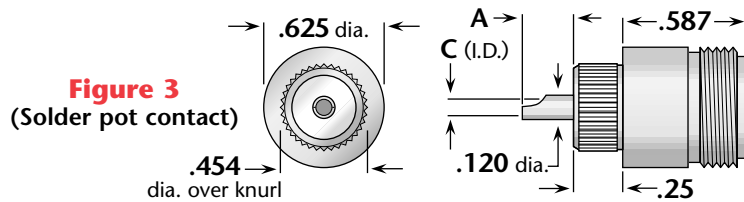
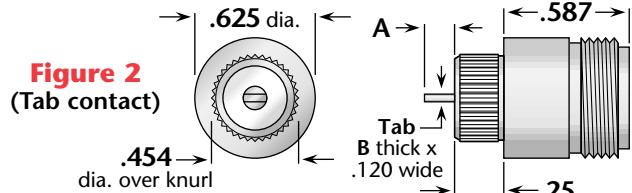
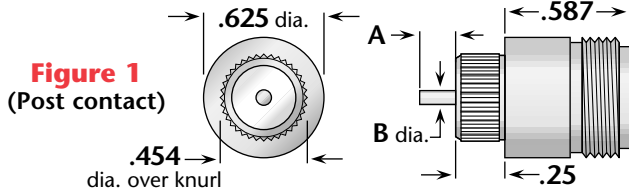


Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.110	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1120-000-N911-2
2	.100	.005/.008	.200	.450 ±.001 dia.	Nickel	Gold (C)	1120-000-N911-3
3	.285	.100	.200	.450 ±.001 dia.	Nickel	Gold (C)	1120-000-N911-4

### PressMount Receptacles—Plug Type

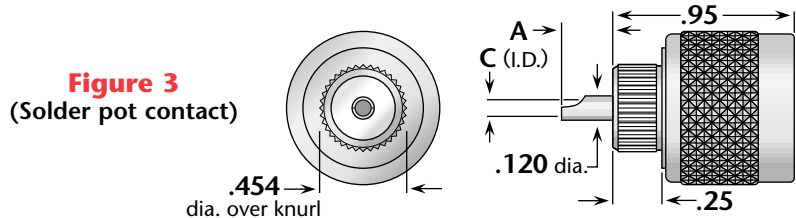
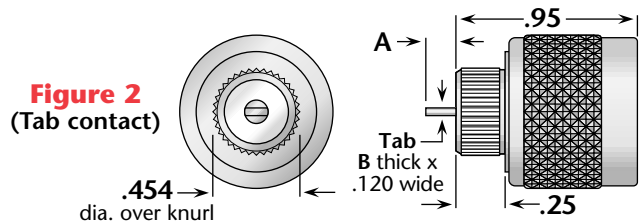
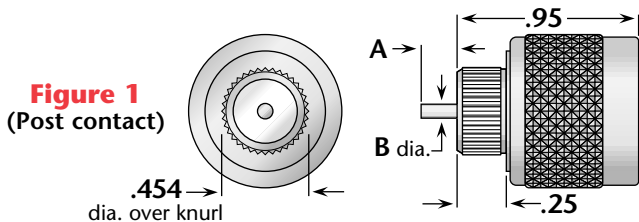
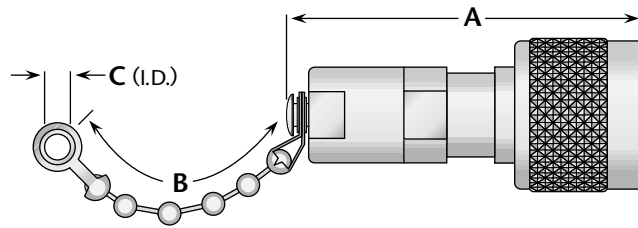


Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.110	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1124-000-N911-1
2	.100	.005/.008	.200	.450 ±.001 dia.	Nickel	Gold (C)	1124-000-N911-2
3	.285	.100	.200	.450 ±.001 dia.	Nickel	Gold (C)	1124-000-N911

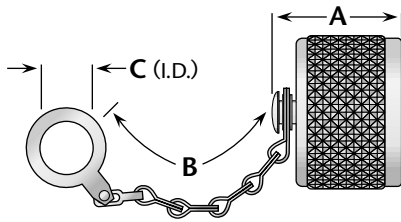
(C) in contact plating column indicates captive contact.

## Resistive Termination (Plug Type)

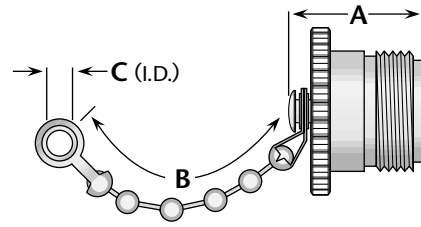


Resistor	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
50Ω ±1%, 1 Watt	1.78	—	—	No chain	Nickel	Silver (C)	1151-000-N000-3
50Ω ±1%, 1 Watt	1.87	5.00	.144		Nickel	Gold (C)	1151-000-N000-10
51Ω ±5%, 1/2 Watt	1.61	3.50	.144		Nickel	Silver (C)	1131-000-N000
51Ω ±5%, 1/2 Watt	1.67	—	—	No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

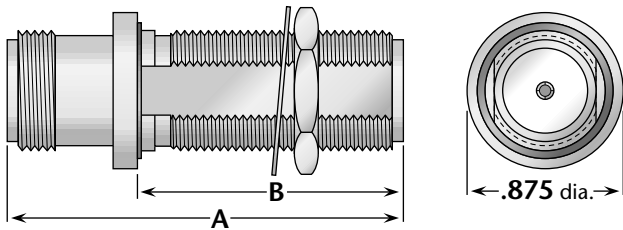


**Figure 2**  
(Shown with bead chain)

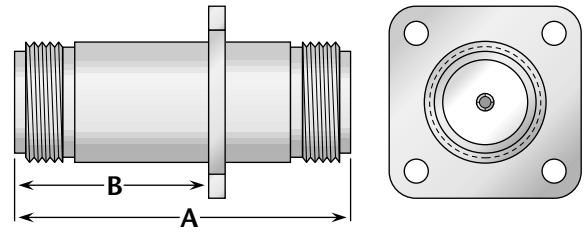
Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.56	2.25	.144	Bead chain	Nickel	—	MX-913/U
1	.56	2.25	.144	Bead chain	Silver	—	M39012/25-0011
1	.56	3.75	.635	Safety chain	Silver	—	M39012/25-0012
1	.84	2.50	.170	Bead chain / shorting type	Nickel	Silver (C)	1132-000-N00C-2
2	.72	3.50	.500	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.  
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)

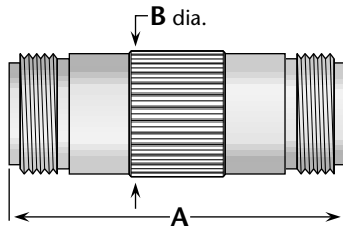


**Figure 2**  
(Panel mount)

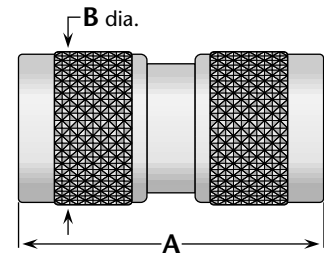
Figure	Dimensions		Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	1.54	.863	.25	72	Nickel	Silver (C)	UG-30D/U
1	1.54	.863	.25	72	Nickel	Silver (C)	UG-30E/U
1	1.54	.863	.25	72	Silver	Gold (C)	M55339/04-00030
1	2.06	1.375	.75	72	Nickel	Silver (C)	1126-000-N728
2	1.75	1.00	—	33	Nickel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

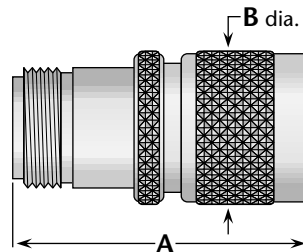
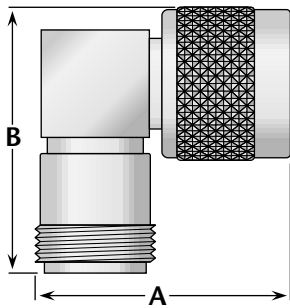


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.75	.66	Nickel	Silver (C)	UG-29B/U
1	1.75	.66	Silver	Gold (C)	M55339/07-00029
2	1.59	.78	Nickel	Silver (C)	UG-57B/U
2	1.59	.78	Silver	Gold (C)	M55339/05-00057*
3	1.56	.78	Nickel	Silver (C)	1134-000-N000

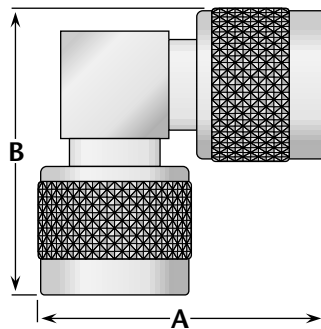
\* Lockwire holes in coupling nut.

(C) in contact plating column indicates captive contact.

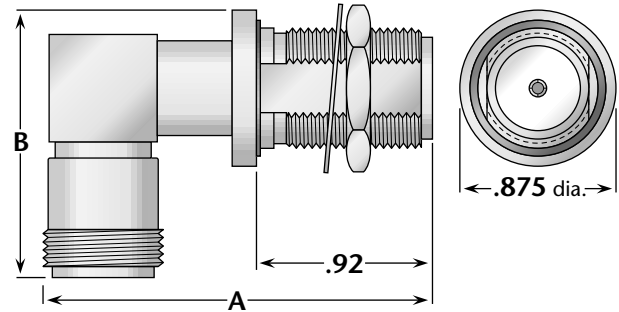
## Right Angle Adapters



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



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

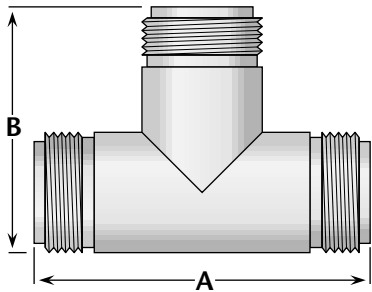


**Figure 3**  
(Bulkhead mounted right angle jack-jack;  
connects two plugs)

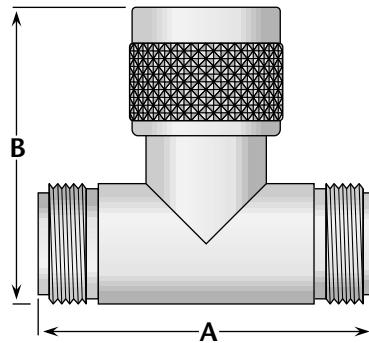
Figure	Dimensions		Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	1.30	1.38	—	—	Nickel	Silver (C)	UG-27C/U
1	1.38	1.30	—	—	Nickel	Gold (C)	UG-27D/U
1	1.38	1.30	—	—	Silver	Gold (C)	M55339/03-00027*
2	1.39	1.39	—	—	Nickel	Silver (C)	1137-000-N000
3	2.13	1.36	.25	72	Nickel	Gold (C)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

\* Lockwire holes in coupling nut.

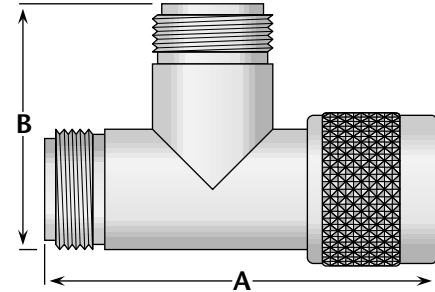
## Tee Adapters



**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)

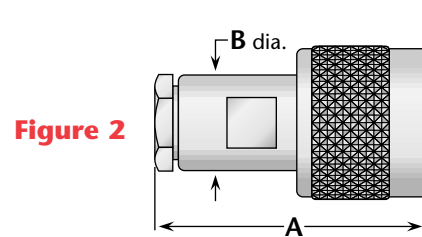
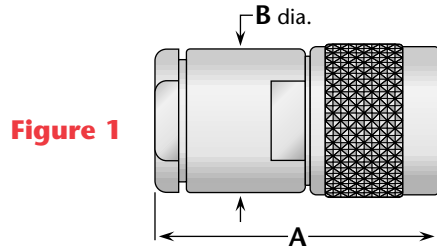
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.75	1.22	Nickel	Silver (C)	UG-28A/U
1	1.75	1.22	Silver	Gold (C)	M55339/06-00028
2	1.75	1.47	Nickel	Silver (C)	UG-107B/U
3	2.03	1.22	Nickel	Gold (C)	1149-000-N001-1

(C) in contact plating column indicates captive contact.

## N70 Configurations

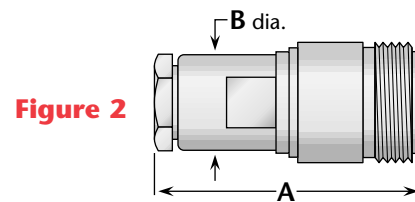
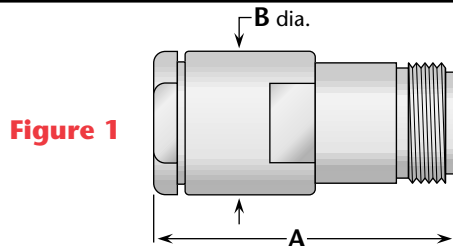
Straight Cable Plugs .....	77	Right Angle Panel Jack Receptacles .....	78
Straight Cable Jacks .....	77	Panel Plug Receptacles.....	78
Bulkhead Cable Jacks .....	77	Bulkhead Jack Receptacles .....	78
Panel Jack Receptacles (square flange) .....	78	In-Series Adapters .....	79

### Straight Plug—Military Clamp for Flexible Cable



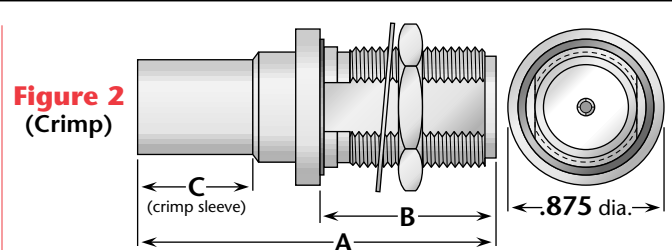
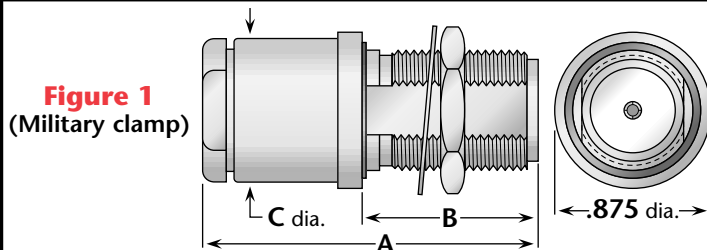
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2B, 3B	1	1.80	.69	Nickel	Silver	UG-94A/U	C/01
7	2	1.38	.50	Nickel	Silver	1801-021-N000	A/02

### 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

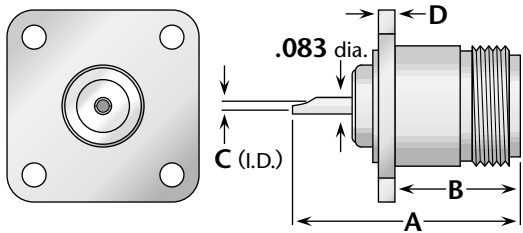
### Bulkhead Jacks—for Flexible Cable



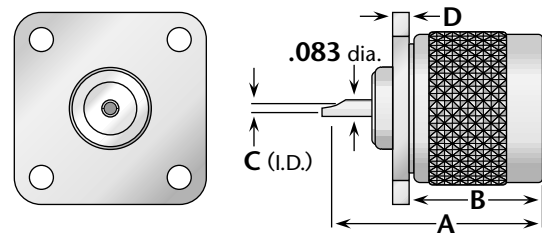
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C			Body	Contact		
2B, 3B	1	1.84	.92	.69	72	.25	Nickel	Gold	1816-003-N720	C/08
7	1	1.47	.92	.50	72	.25	Nickel	Silver (C)	1816-021-N721	A/14
2B, 3B	2	1.84	.92	.60	72	.25	Nickel	Gold	1819-003-N720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

(C) in contact plating column indicates captive contact.

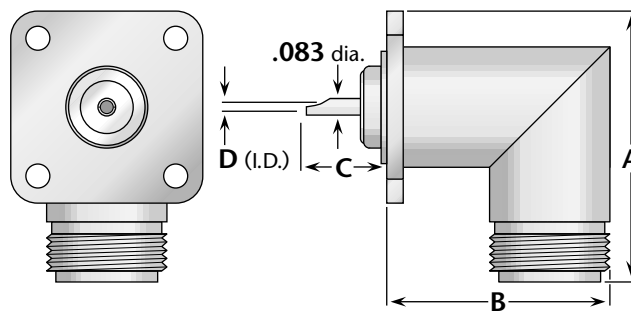
## Panel Receptacle—Solder Pot Contact



**Figure 1**  
(Straight jack receptacle)



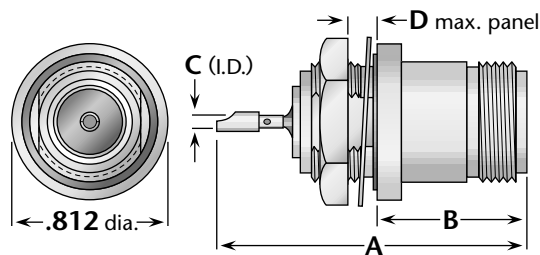
**Figure 2**  
(Straight plug receptacle)



**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



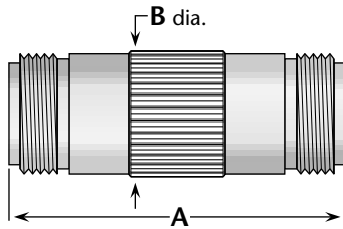
**Figure 1**  
(Front mount, hermetically sealed)

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

(C) in contact plating column indicates captive contact.

## Straight Adapters

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



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

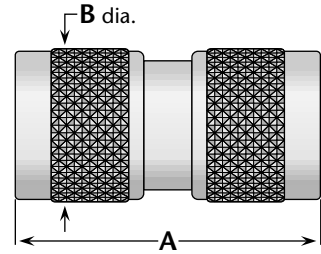
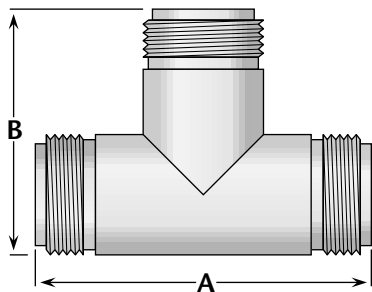
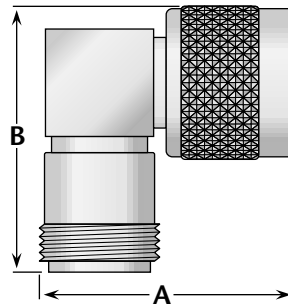


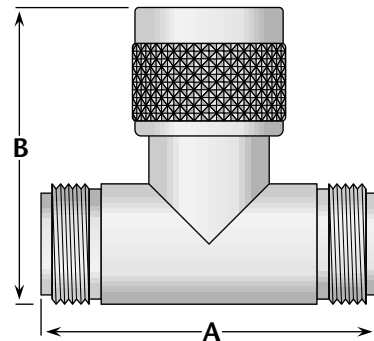
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.75	.66	Nickel	Gold (C)	1828-000-N000
2	1.59	.78	Nickel	Gold (C)	1827-000-N000

## 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.

## 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:

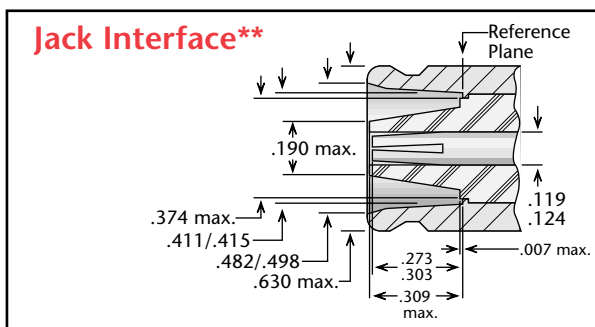
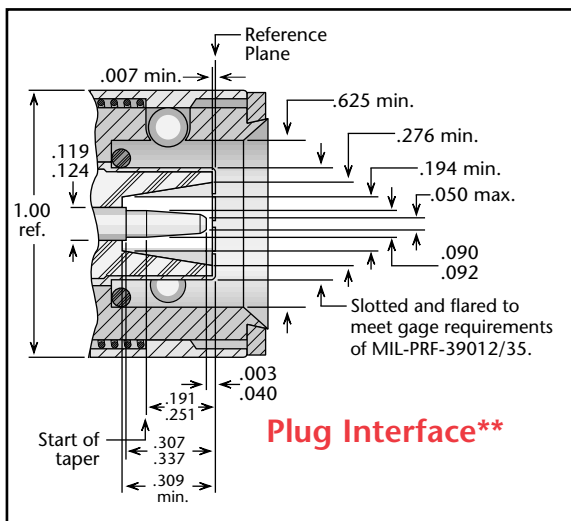
- Standard Albaloy body plating (see page 4 for details), which has the same low intermodulation distortion as silver plating, with the durability of nickel plating. Note: QDS connectors with UG designations have silver-plated bodies to conform to military specifications, but are available with Albaloy 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 85).
- 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 .....	81	Panel Jack Receptacles (square flange) .....	83
Right Angle Cable Plugs .....	81	Bulkhead Jack Receptacles .....	83
Bulkhead Cable Jacks .....	82	Resistive Terminations .....	84
Panel Cable Jacks .....	82	Between-Series Adapters .....	84

## 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-D-1710.

**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.

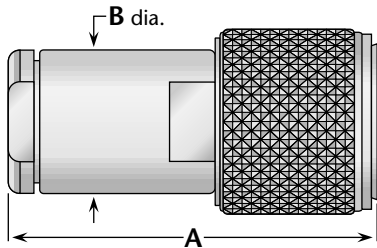
**Other Metal Parts:** Brass per ASTM-B-16, plated:  
Albaloy (contact factory  
for specifications), or  
Silver per QQ-S-365, or  
Nickel per QQ-N-290.

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.

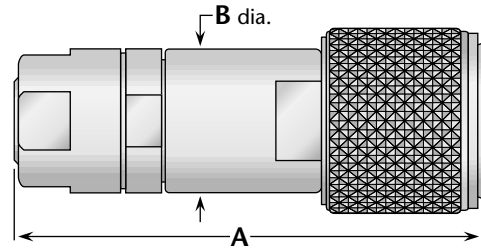
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.



## Straight Plug—Military Clamp for Flexible Cable



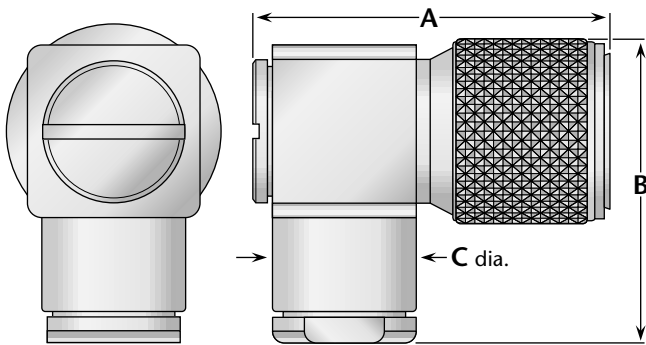
**Figure 1**



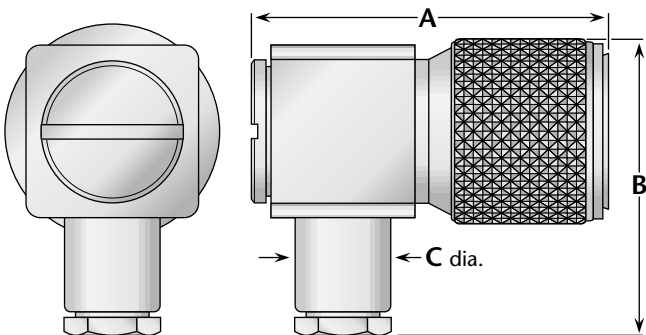
**Figure 2**  
(Includes armor clamp)

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

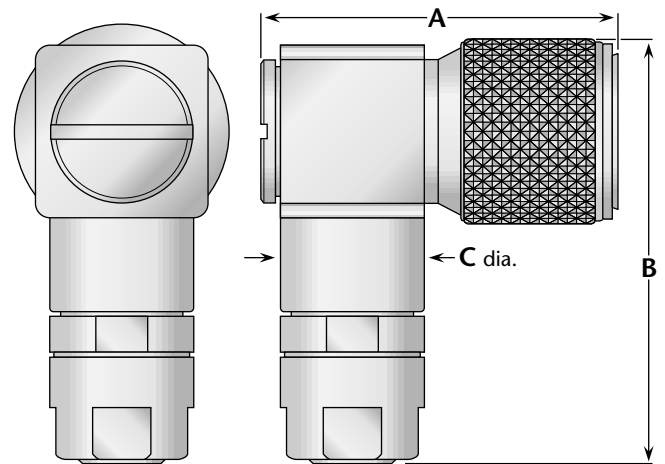
## Right Angle Plug—Military Clamp for Flexible Cable



**Figure 1**



**Figure 2**

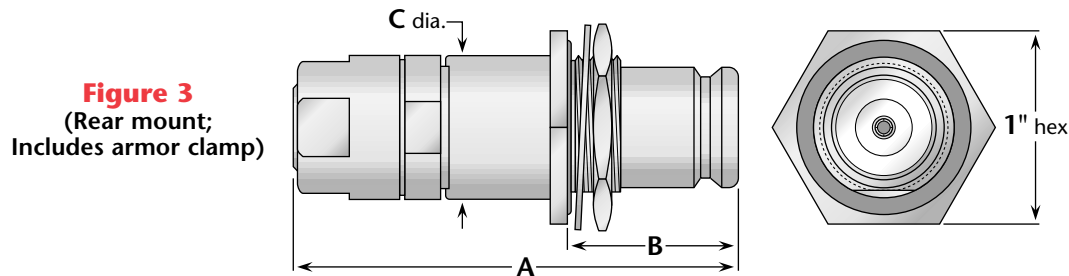
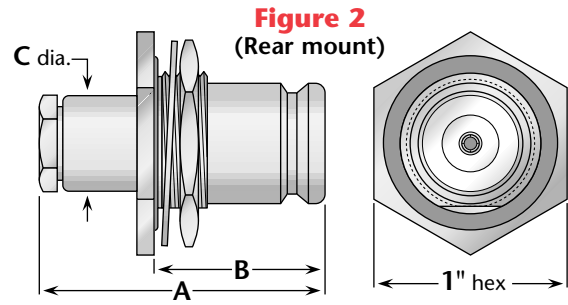
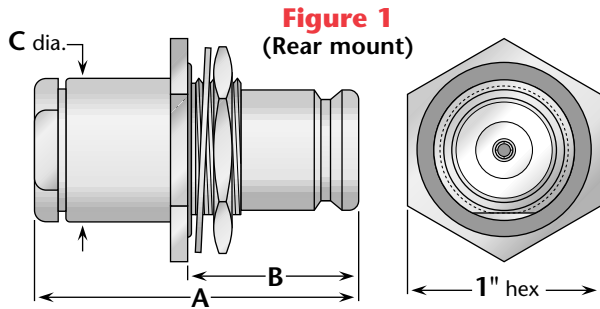


**Figure 3**  
(Includes armor clamp)

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	***

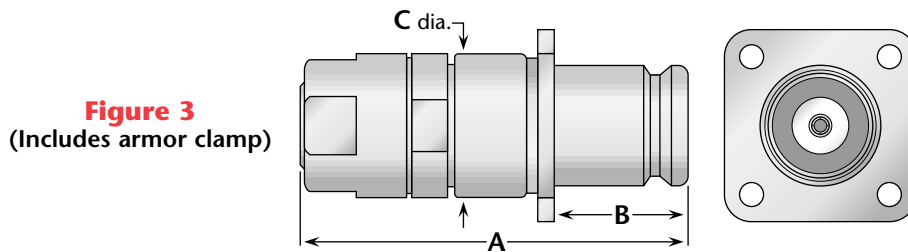
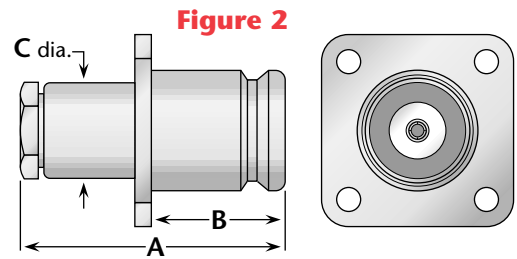
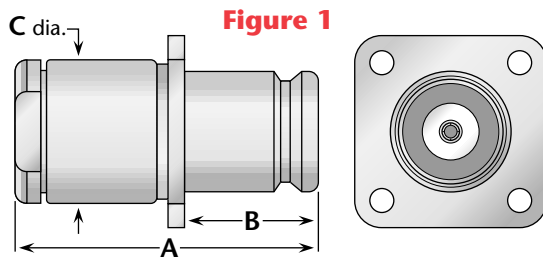
\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## 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

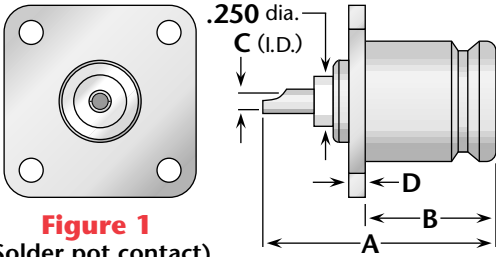
## Panel Jack—Military Clamp for Flexible Cable



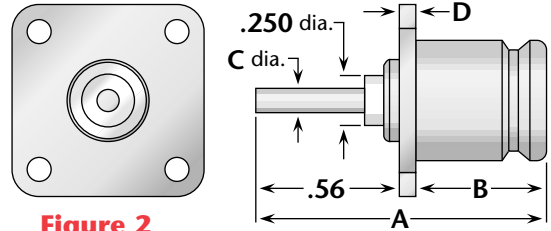
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
2, 3	1	1.66	.69	.75	33	.200	Albaloy	Gold (C)	3811-004-Q331	A/01
5, 6	2	1.60	.69	.50	33	.200	Albaloy	Gold (C)	3811-015-Q331	A/25
15	3	2.00	.69	.75	33	.200	Silver	Silver	UG-972B/U	D/04

(C) in contact plating column indicates captive contact.

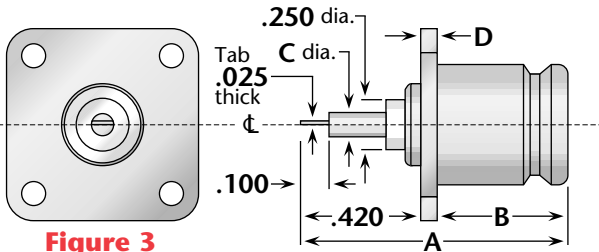
## Panel Jack Receptacle—Square Flange



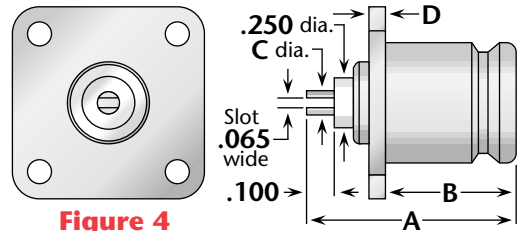
**Figure 1**  
(Solder pot contact)



**Figure 2**  
(Post contact)



**Figure 3**  
(Tab contact)



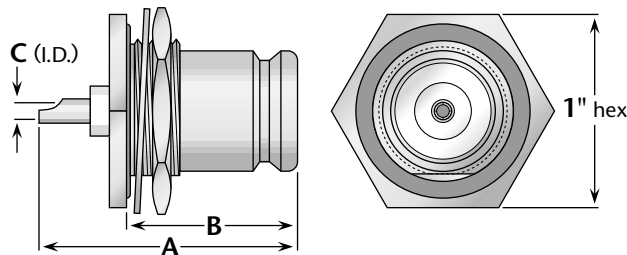
**Figure 4**  
(Slotted contact)

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)

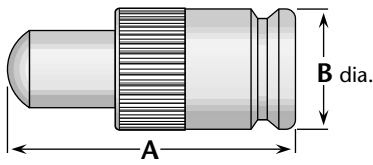


Also available with post, slotted, or tab contact

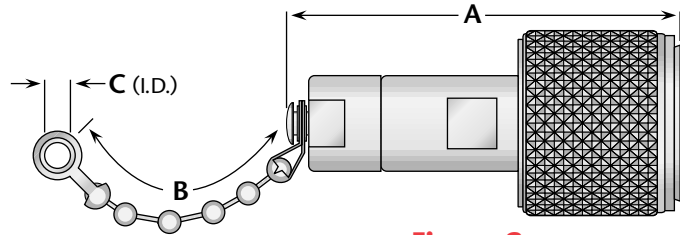
Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.08	.75	.106	.125	51	Silver	Silver (C)	UG-1111/U
1	1.08	.75	.106	.125	51	Albaloy	Gold (C)	3816-000-Q511-2

(C) in contact plating column indicates captive contact.

**Resistive Terminations**



**Figure 1**  
(Jack type)

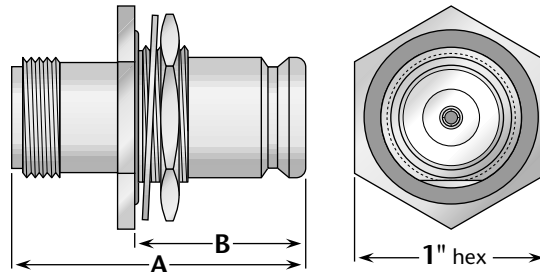


**Figure 2**  
(Plug type)

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

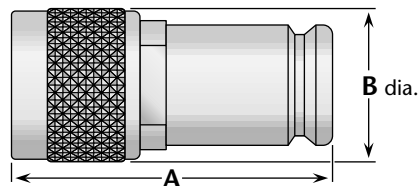
**Adapters Between Series**

**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)

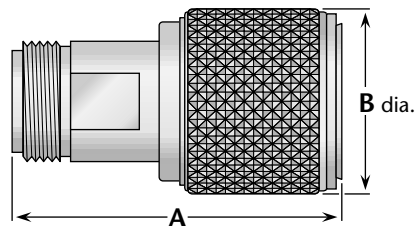


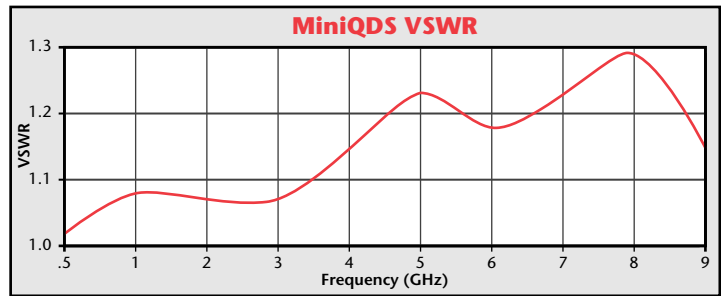
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.52	.865	Albaloy	Gold (C)	2226-000-Q511-1
2	1.38	.78	Albaloy	Gold (C)	2234-000-Q001-131
3	1.67	1.00	Silver	Silver (C)	UG-1144/U

(C) in contact plating column indicates captive contact.

## General Description

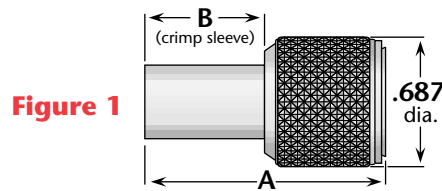
Delta MiniQDS connectors feature the same positive-locking, push-on mating as QDS series connectors, but in a miniature size equivalent to BNC and TNC connectors. Along with the convenience of quick-connect and quick-disconnect mating, they exhibit good VSWR to 9 GHz.

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

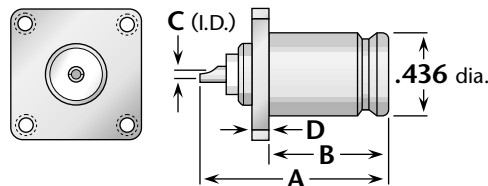


Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	Body	Contact		
6	1	1.05	.50	Albaloy*	Gold	4203-015-Q000	B/23

\* 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)

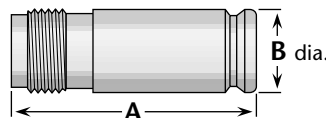


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.28	.436	Albaloy	Gold (C)	2234-000-Q001-136

(C) in contact plating column indicates captive contact.

**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 154.

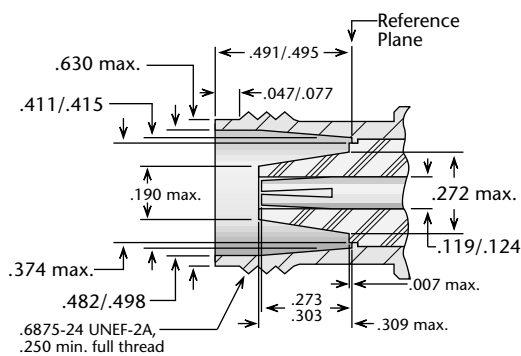
As with all other Delta connector series, we welcome your specifications for special configurations.

**SC Configurations**

Straight Cable Plugs.....	87
Right Angle Cable Plugs.....	87
Panel Jack Receptacles (square flange) .....	88
Panel Plug Receptacles.....	88
Dummy Receptacles .....	88
Dust Caps .....	88
In-Series Adapters .....	89

**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.

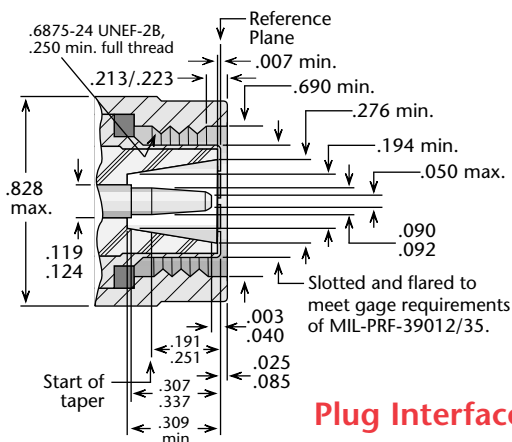
**Materials/Finishes:**

**Insulators:** Teflon per ASTM-D-1710.  
**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-B-16, 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.

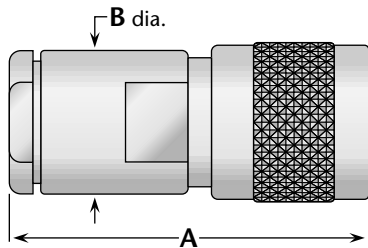
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

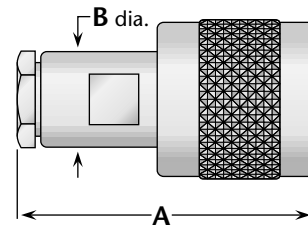


**Plug Interface\*\***

## Straight Plug—Military Clamp for Flexible Cable



**Figure 1**

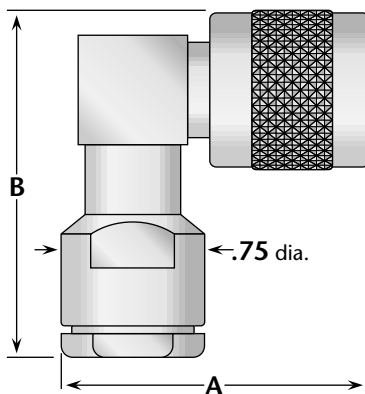


**Figure 2**

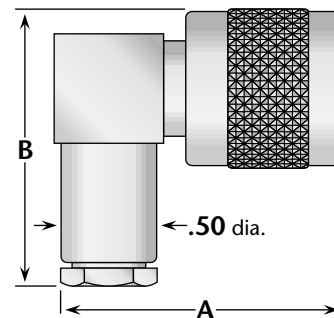
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
2, 3	1	1.47	.75	Nickel	Silver	1901-004-N000-1	A/01
2, 3	1	1.78	.75	Nickel	Silver	1901-004-N000*	A/21
2, 3	1	1.78	.75	Nickel	Silver (C)	1901-004-N001*	A/28
5, 6	2	1.53	.50	Nickel	Silver	1901-015-N000	A/17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



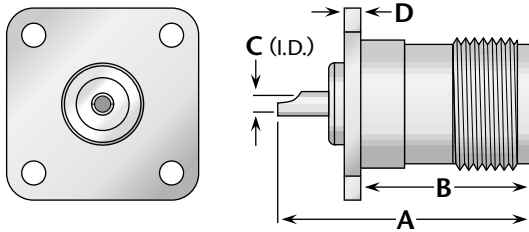
**Figure 2**

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

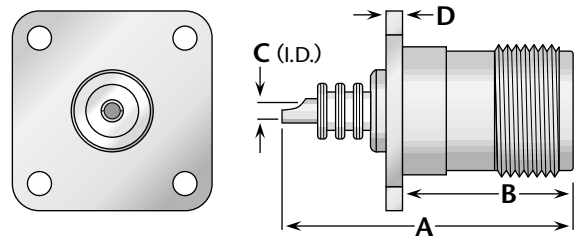
\* High voltage type.

(C) in contact plating column indicates captive contact.

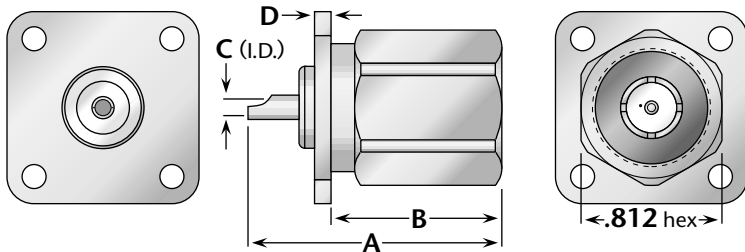
## Panel Receptacle—Solder Pot Contact



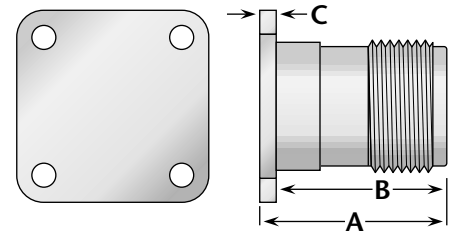
**Figure 1**  
(Panel jack receptacle)



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



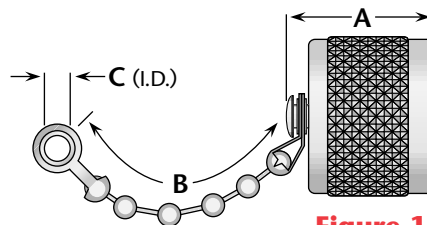
**Figure 3**  
(Panel plug receptacle)



**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



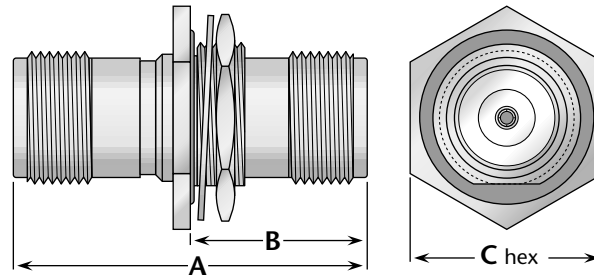
**Figure 1**

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

(C) in contact plating column indicates captive contact.



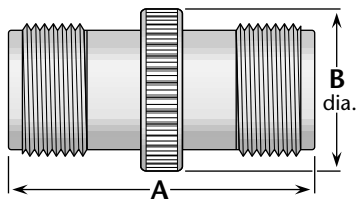
## Bulkhead Jack-Jack Adapter



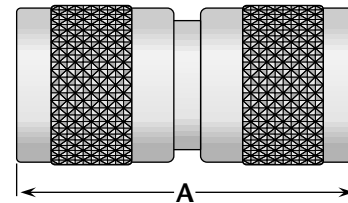
(Connects two plugs, hermetically sealed)

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

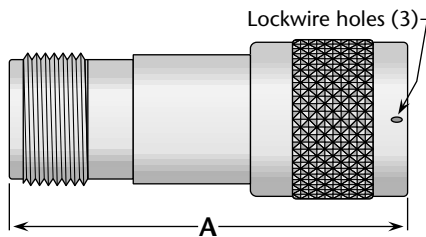
## Straight and Right Angle Adapters



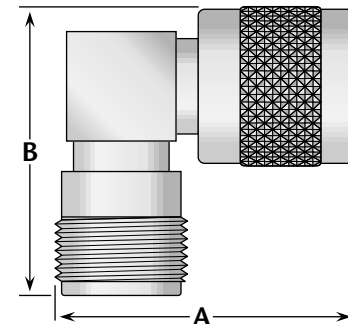
**Figure 1**  
(Straight jack-jack;  
connects two plugs)



**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.

## General Description

Delta SMA connectors are subminiature, precision, 50Ω impedance connectors with ¼"-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 154.

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 102) 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.

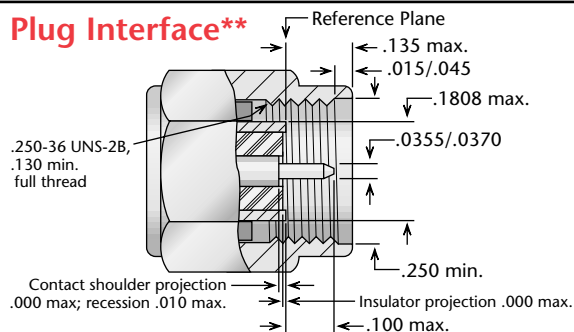
Our SMA series product line is still growing, so please call if you don't see what you need.

## SMA Configurations

Cable Plugs for Semi-Rigid Cable .....	91	Right Angle Panel Jack Receptacles .....	100
Cable Plugs for Flexible Cable .....	92	Bulkhead Jack Receptacles .....	101
Straight Cable Jacks for Semi-Rigid Cable .....	93	Printed-Circuit Board Receptacles .....	101
Bulkhead Cable Jacks for Semi-Rigid Cable .....	93	PressMount Receptacles .....	102
Panel Cable Jacks for Semi-Rigid Cable .....	93	Stripline Receptacles .....	102
Straight Cable Jacks for Flexible Cable .....	94	Panel Plug Receptacles (Solder Pot Contact) .....	103
Bulkhead Cable Jacks for Flexible Cable .....	94	Panel Plug Receptacles (Tab Contact) .....	104
Panel Jack Receptacles (Solder Pot Contact) .....	95	Panel Plug Receptacles (Slotted Contact) .....	105
Panel Jack Receptacles (Tab Contact) .....	96	Panel Plug Receptacles (Post Contact) .....	106
Panel Jack Receptacles (Slotted Contact) .....	97	Dust Caps .....	107
Panel Jack Receptacles (Post Contact) .....	98	In-Series Adapters .....	108
Panel Jack Receptacles (for Microstrip) .....	99		

## 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-D-1710.

**Male Contacts:** Brass per ASTM-B-16, or

Beryllium Copper per ASTM-B-196.

**Female Contacts:** Beryllium Copper per ASTM-B-196.

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

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

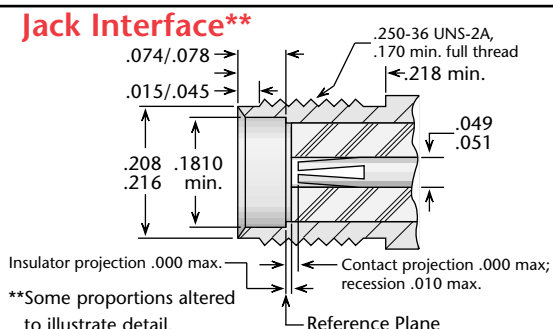
Class II, Grade 50.

**Other Metal Parts:** Stainless steel per ASTM-A-582, plated gold per MIL-G-45204 or passivated to meet corrosion requirements of MIL-PRF-39012; or Brass per ASTM-B-16: plated gold per MIL-G-45204.

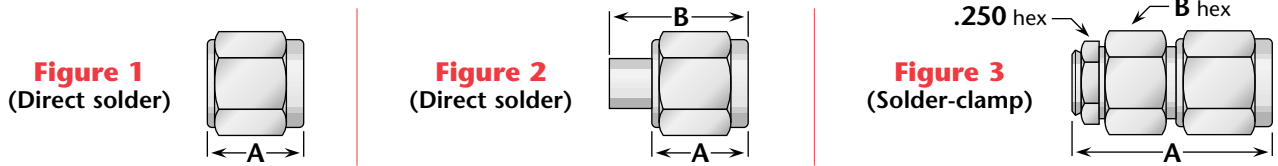
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

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

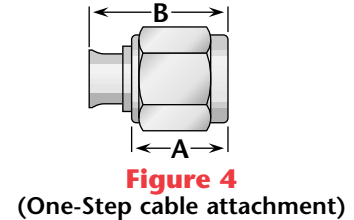
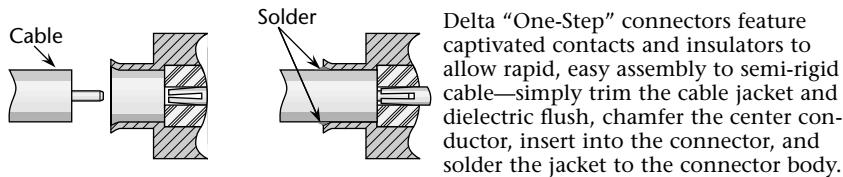
### Jack Interface\*\*



## Straight Plug—For Semi-Rigid Cable



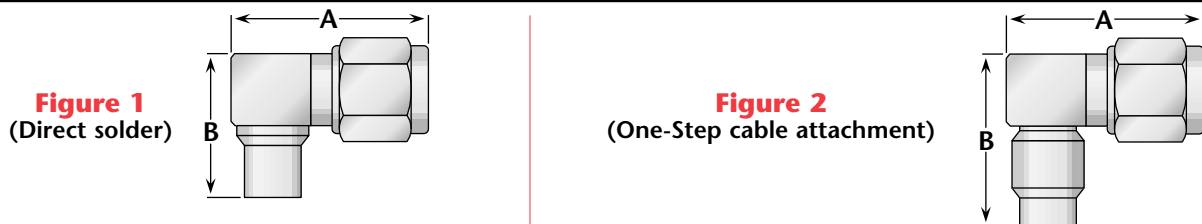
### Delta One-Step Cable Attachment for Semi-Rigid Cable



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



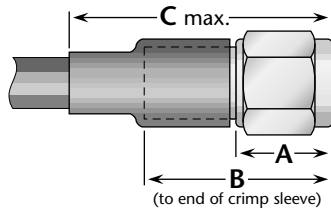
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
13	1	.68	.43	Gold	Gold (C)	1305-031-G003	J/01
13	1	.68	.43	Gold/PCN <sup>(1)</sup>	Gold (C)	1305-031-K003	J/01
13	2	.57	.58	Gold	Gold (C)	1305-031-G003-2	I/01
13	2	.57	.58	Gold/PCN <sup>(1)</sup>	Gold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

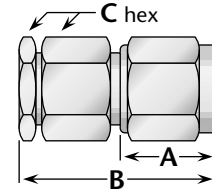
\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## Straight Plug—For Flexible Cable

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



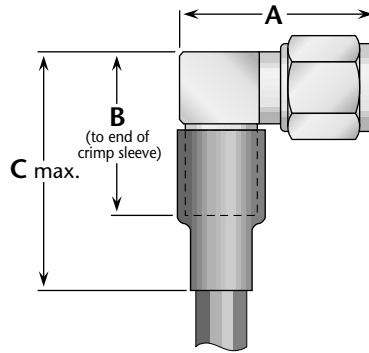
**Figure 2**  
(Clamp type)



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

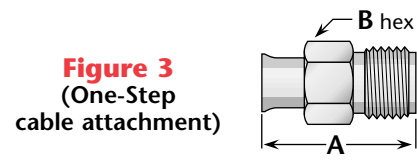
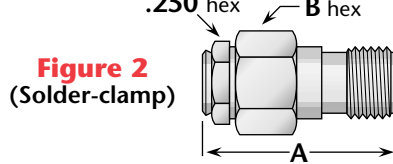
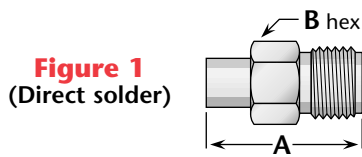
**Figure 1**  
(Crimp type, shown with supplied heat-shrink tubing)



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

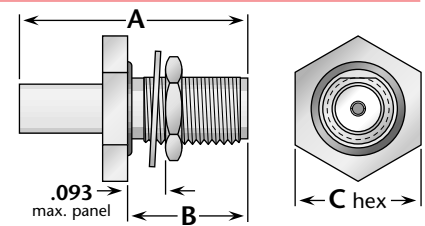
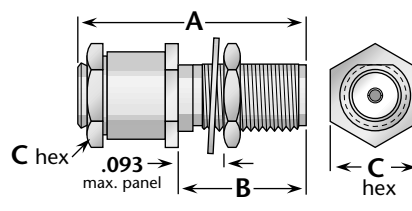
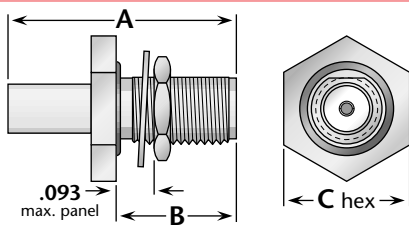
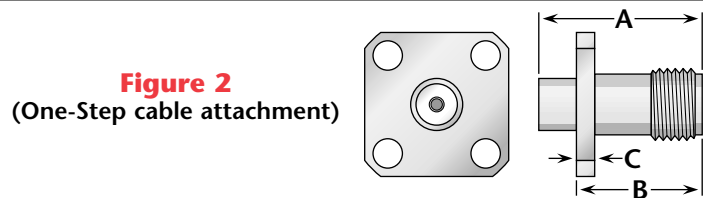
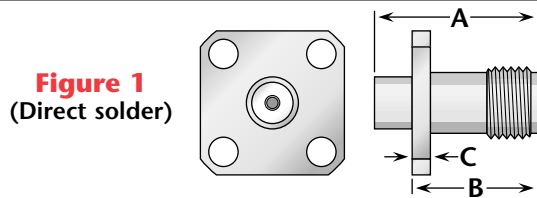
\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## 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

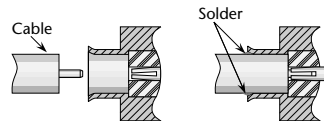


**Figure 3**  
(Direct solder,  
with mounting gasket)

**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

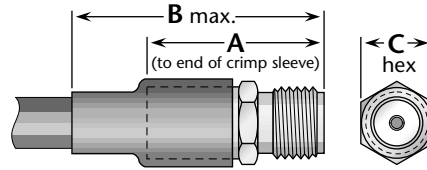


Delta "One-Step" connectors feature captivated contacts and insulators to allow rapid, easy assembly to semi-rigid cable—simply trim the cable jacket and dielectric flush, chamfer the center conductor, insert into the connector, and solder the jacket to the connector body.

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

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

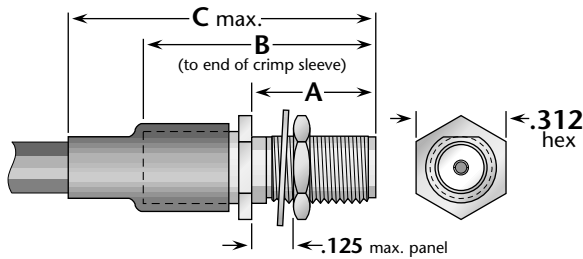
## Straight Jack—For Flexible Cable



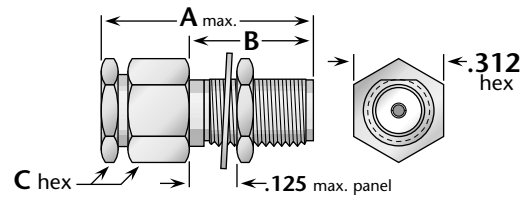
**Figure 1**  
(Crimp type, shown with supplied heat-shrink tubing)

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)

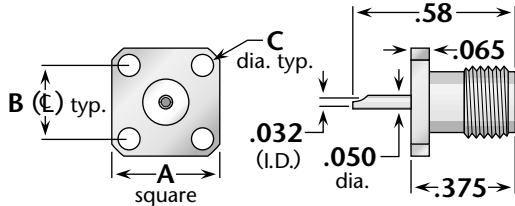


**Figure 2**  
(Clamp type)

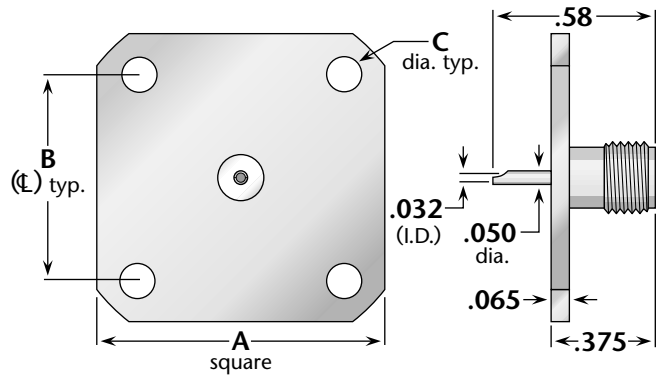
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
5	1	.450	.94	1.25	67	Gold	Gold	1319-017-G670	K/04
5	1	.450	.94	1.25	67	Passivated	Gold	1319-017-K670	K/04
6	1	.450	.94	1.25	67	Gold	Gold	1319-013-G670	K/04
6	1	.450	.94	1.25	67	Passivated	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	***

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

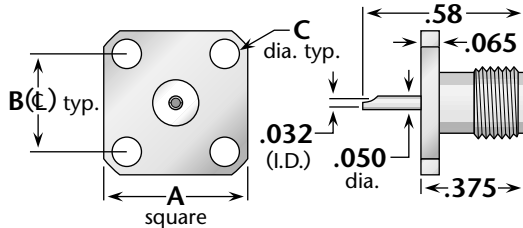
## Panel Jack Receptacle—Solder Pot Contact



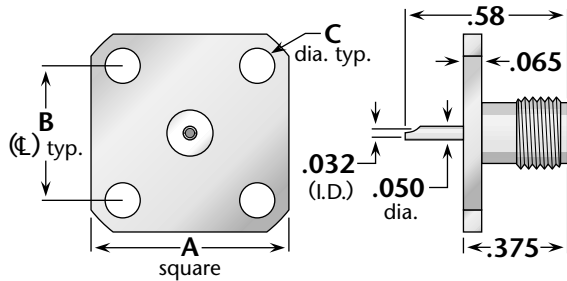
**Figure 1**  
(3/8" square flange)



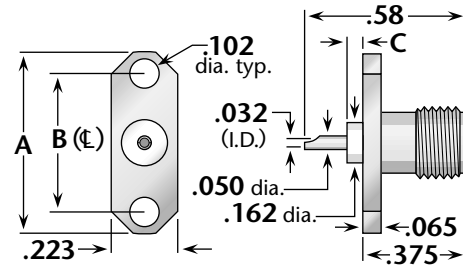
**Figure 4**  
(1" square flange, interchangeable with type N standard flange size)



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



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

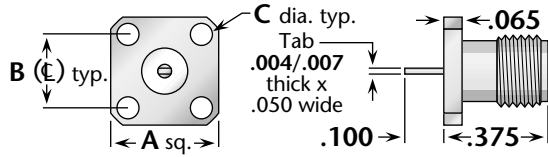


**Figure 5**  
(2-hole flange)

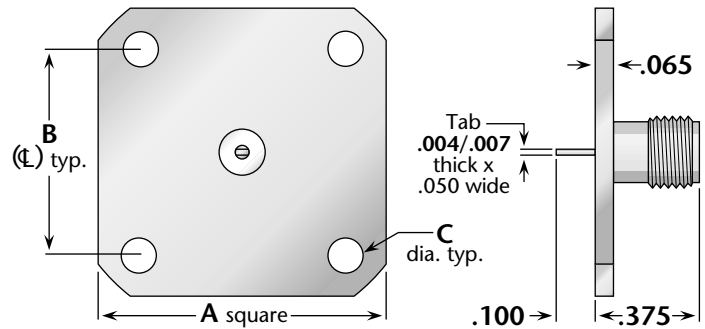
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold (C)	1313-000-G911
1	.375	.250	.067	91	Passivated	Gold (C)	1313-000-K911
2	.500	.340	.102	05	Gold	Gold (C)	1313-000-G051
2	.500	.340	.102	05	Passivated	Gold (C)	1313-000-K051-2
3	.687	.500	.125	09	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

(C) in contact plating column indicates captive contact (epoxy captivated).

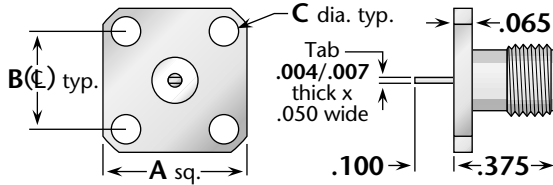
## Panel Jack Receptacle—Tab Contact



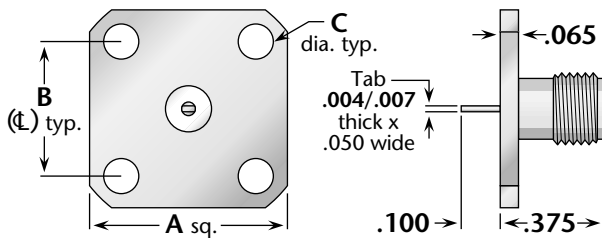
**Figure 1**  
(3/8" square flange)



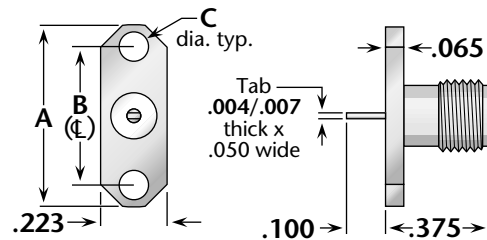
**Figure 4**  
(1" square flange, interchangeable with type N standard flange size)



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



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



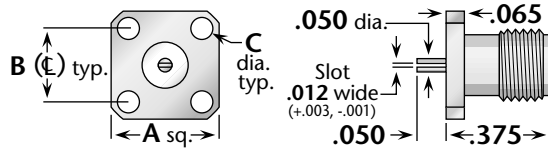
**Figure 5**  
(2-hole flange)

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

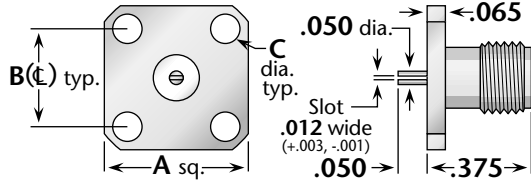
(C) in contact plating column indicates captive contact (epoxy captivated).



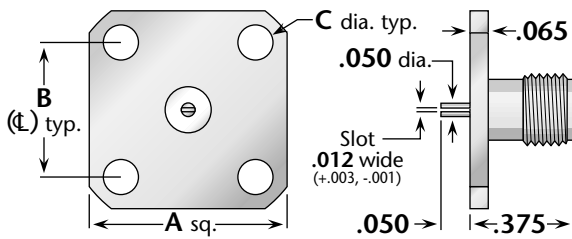
## Panel Jack Receptacle—Slotted Contact



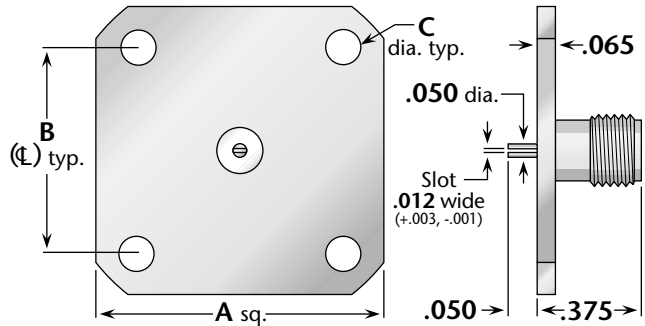
**Figure 1**  
(3/8" square flange)



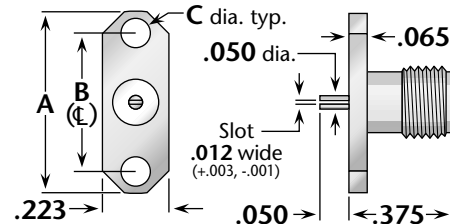
**Figure 2**  
(1/2" square flange, SMA standard flange size)



**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)

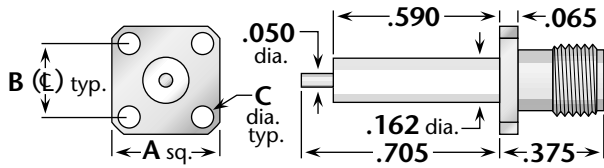
### Other Standard Slot Widths

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

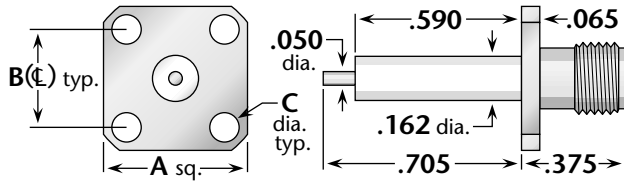
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1343-000-G910-3
1	.375	.250	.067	91	Passivated	Gold	1343-000-K910-3
1	.375	.250	.067	91	Gold	Gold (C)	1343-000-G911-6
1	.375	.250	.067	91	Passivated	Gold (C)	1343-000-K911-6
2	.500	.340	.102	05	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

(C) in contact plating column indicates captive contact (epoxy captivated).

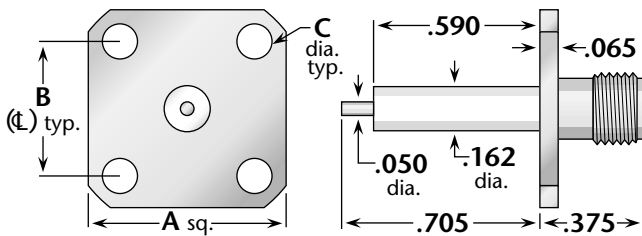
## Panel Jack Receptacle—Post Contact



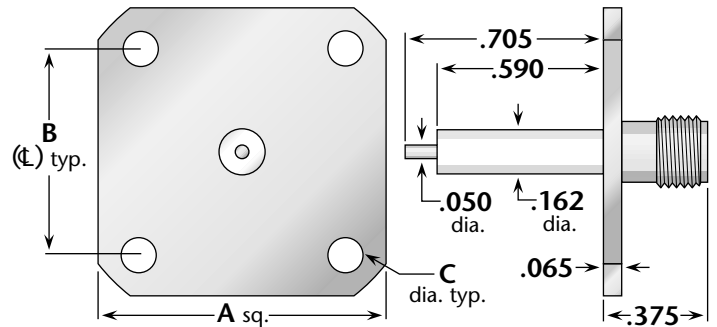
**Figure 1**  
(3/8" square flange)



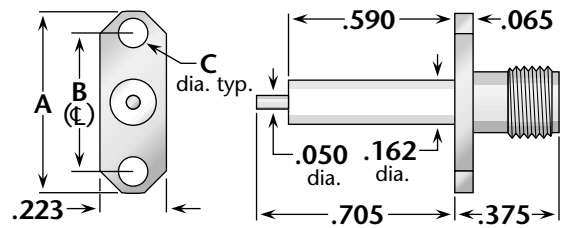
**Figure 2**  
(1/2" square flange, SMA standard flange size)



**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)

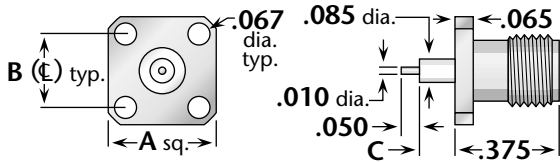


**Figure 5**  
(2-hole flange)

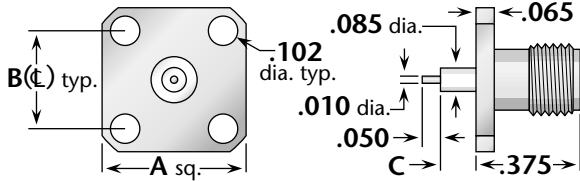
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1358-000-G910-3
1	.375	.250	.067	91	Passivated	Gold	1358-000-K910-3
1	.375	.250	.067	91	Gold	Gold (C)	1358-000-G911-61
1	.375	.250	.067	91	Passivated	Gold (C)	1358-000-K911-61
2	.500	.340	.102	05	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

(C) in contact plating column indicates captive contact (epoxy captivated).

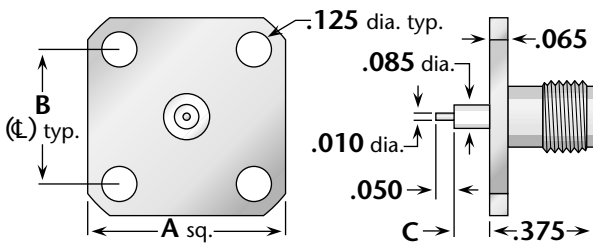
## Panel Jack Receptacle—Post Contact (For Microstrip)



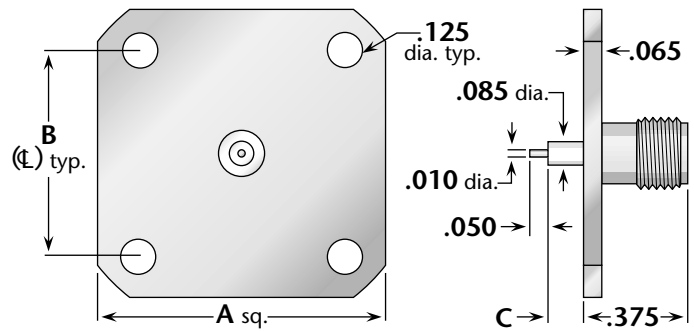
**Figure 1**  
(3/8" square flange)



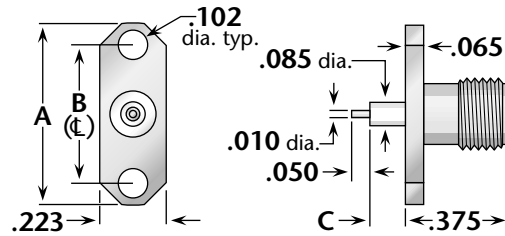
**Figure 2**  
(1/2" square flange, SMA standard flange size)



**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)

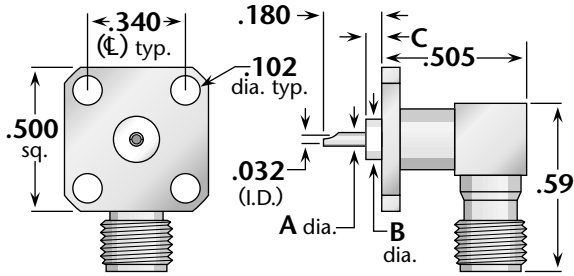


**Figure 5**  
(2-hole flange)

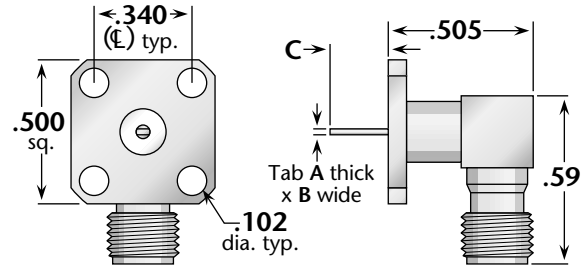
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.057	91	Gold	Gold (C)	1358-000-G911-14
1	.375	.250	.057	91	Passivated	Gold (C)	1358-000-K911-14
1	.375	.250	.125	91	Gold	Gold (C)	1358-000-G911-85
1	.375	.250	.125	91	Passivated	Gold (C)	1358-000-K911-85
2	.500	.340	.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

(C) in contact plating column indicates captive contact (epoxy captivated).

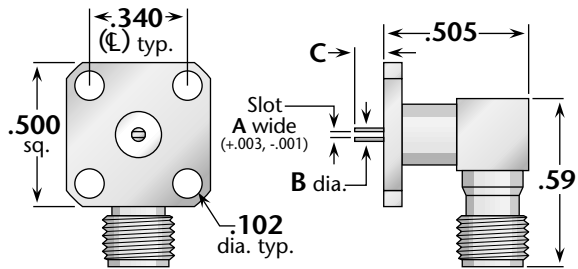
## Right Angle Panel Jack Receptacle



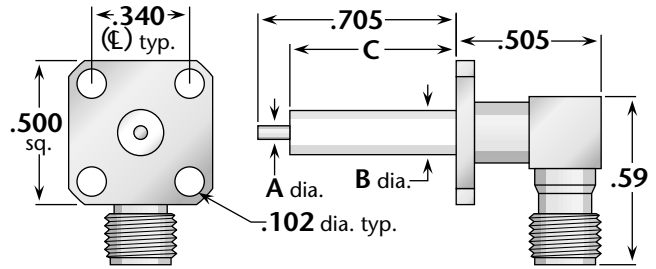
**Figure 1**  
(Solder pot contact)



**Figure 2**  
(Tab contact)



**Figure 3**  
(Slotted contact)

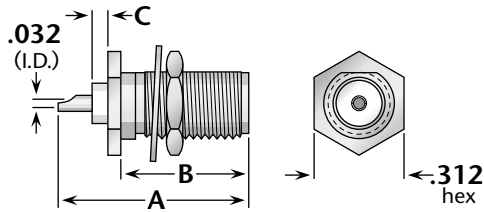


**Figure 4**  
(Post contact)

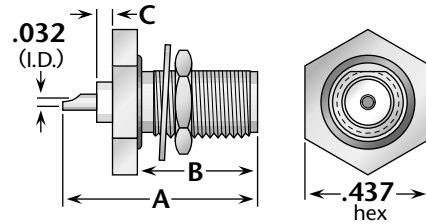
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.050	.162	.062	05	Gold	Gold (C)	1315-000-G050
1	.050	.162	.062	05	Passivated	Gold (C)	1315-000-K050
2	.004/.007	.050	.100	05	Gold	Gold (C)	1364-000-G051-15
2	.004/.007	.050	.100	05	Passivated	Gold (C)	1364-000-K051-15
3	.012	.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

(C) in contact plating column indicates captive contact (epoxy captivated).

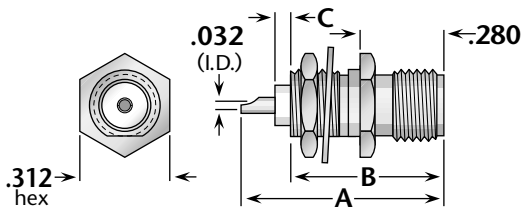
## Bulkhead Jack Receptacles


**Figure 1**

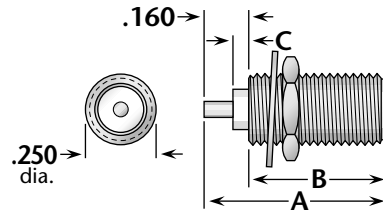
(Rear mount, solder pot contact, no mounting gasket)


**Figure 2**

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


**Figure 3**

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


**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

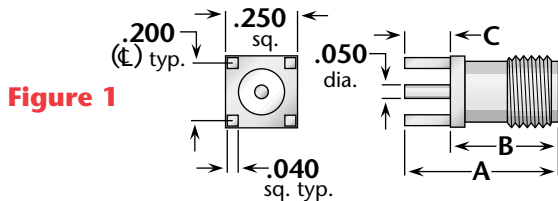
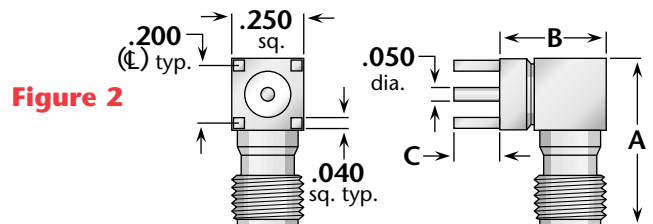
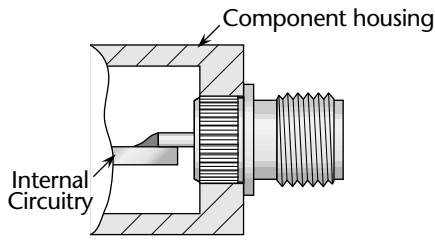

**Figure 1**

**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

(C) in contact plating column indicates captive contact (epoxy captivated).

**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.

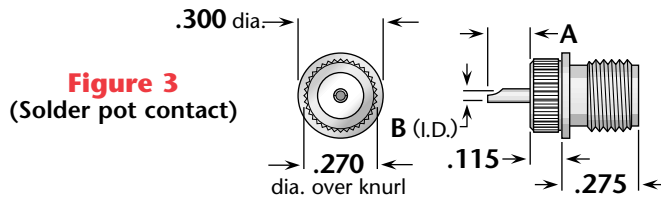
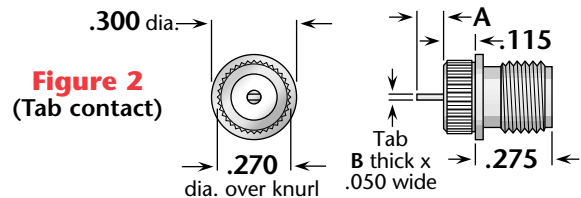
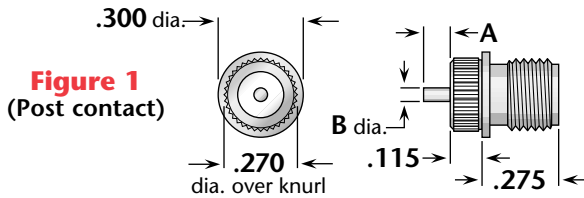


Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.062	.050	.100	.267 ±.001 dia.	Passivated	Gold (C)	1320-000-K911-2
2	.100	.005/.008	.100	.267 ±.001 dia.	Passivated	Gold (C)	1320-000-K911-3
3	.200	.032	.100	.267 ±.001 dia.	Passivated	Gold (C)	1320-000-K911-4

**Stripline Receptacle**

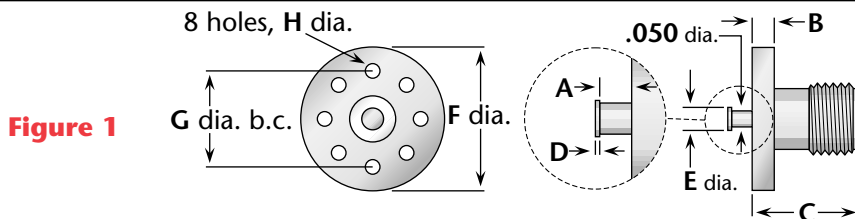
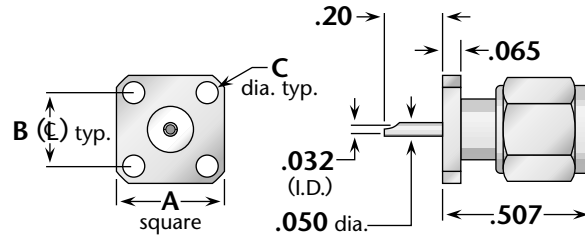


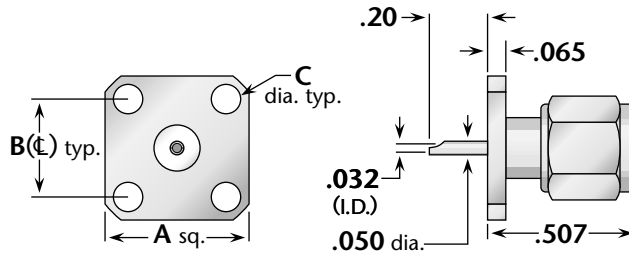
Figure	Dimensions								Plating		Delta P/N
	A	B	C	D	E	F	G	H	Body	Contact	
1	.031	.085	.375	.010	.072	.562	.438	#2-56	Gold	Gold	1357-000-G000-12
1	.031	.085	.375	.010	.072	.562	.438	#2-56	Passivated	Gold	1357-000-K000-12
1	.063	.085	.375	.010	.072	.562	.438	#2-56	Gold	Gold	1357-000-G000-2
1	.063	.085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

(C) in contact plating column indicates captive contact (epoxy captivated).

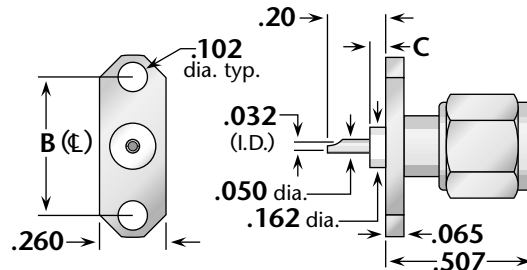
## Panel Plug Receptacle—Solder Pot Contact



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



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

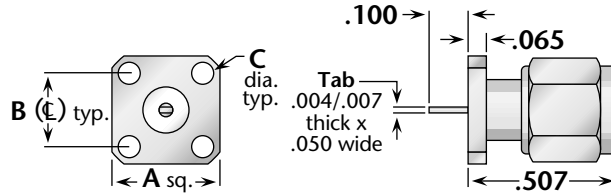


**Figure 3**  
(2-hole flange)

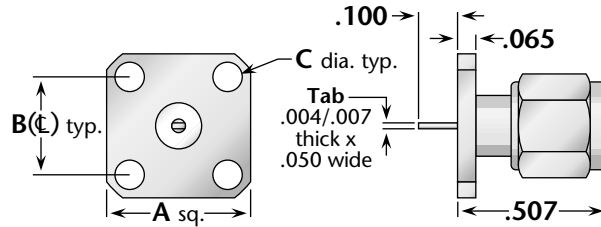
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold (C)	1359-000-G911-13
1	.375	.250	.067	91	Passivated	Gold (C)	1359-000-K911-13
2	.500	.340	.102	05	Gold	Gold (C)	1359-000-G051-10
2	.500	.340	.102	05	Passivated	Gold (C)	1359-000-K051-10
3	.625	.481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

(C) in contact plating column indicates captive contact (epoxy captivated).

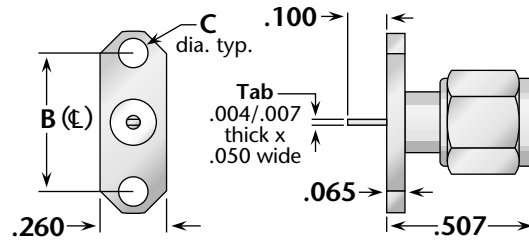
## Panel Plug Receptacle—Tab Contact



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



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



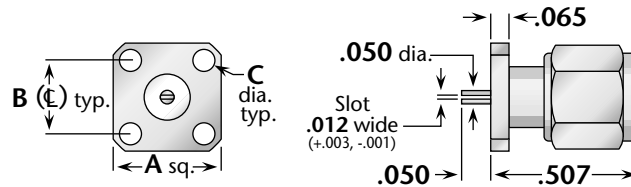
**Figure 3**  
(2-hole flange)

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

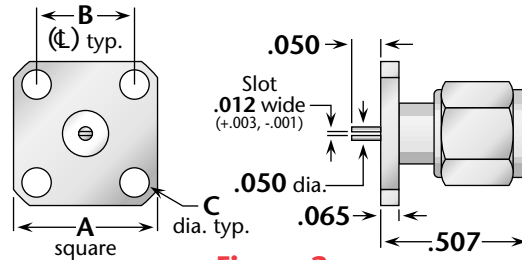
(C) in contact plating column indicates captive contact (epoxy captivated).



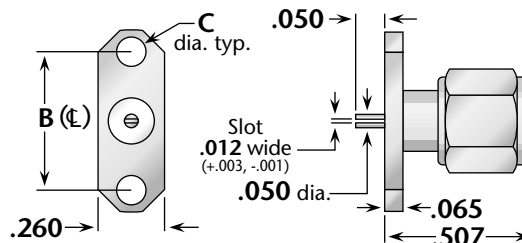
## Panel Plug Receptacle—Slotted Contact



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



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



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

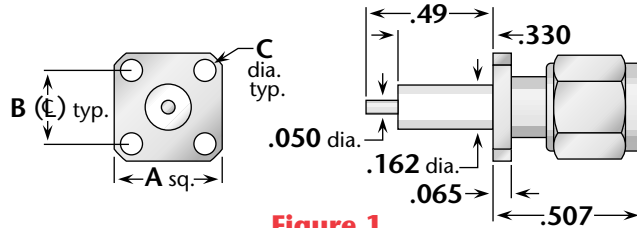
### Other Standard Slot Widths

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

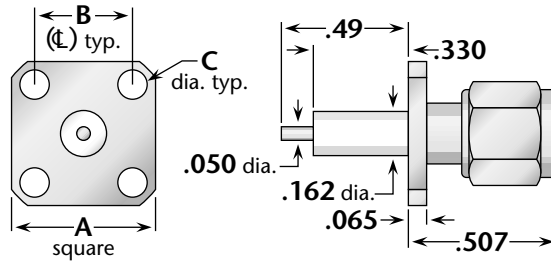
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1359-000-G910-4
1	.375	.250	.067	91	Passivated	Gold	1359-000-K910-4
1	.375	.250	.067	91	Gold	Gold (C)	1359-000-G911-23
1	.375	.250	.067	91	Passivated	Gold (C)	1359-000-K911-23
2	.500	.340	.102	05	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

(C) in contact plating column indicates captive contact (epoxy captivated).

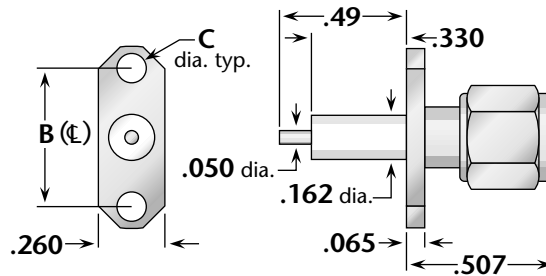
## Panel Plug Receptacle—Post Contact



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



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

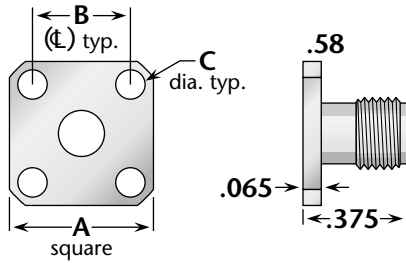


**Figure 3**  
(2-hole flange)

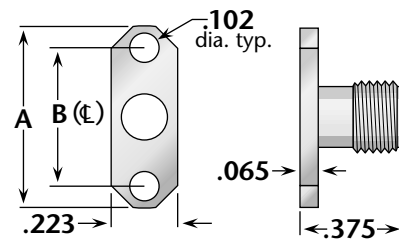
Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.375	.250	.067	91	Gold	Gold	1359-000-G910-3
1	.375	.250	.067	91	Passivated	Gold	1359-000-K910-3
1	.375	.250	.067	91	Gold	Gold (C)	1359-000-G911-15
1	.375	.250	.067	91	Passivated	Gold (C)	1359-000-K911-15
2	.500	.340	.102	05	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

(C) in contact plating column indicates captive contact (epoxy captivated).

## Dummy Receptacle



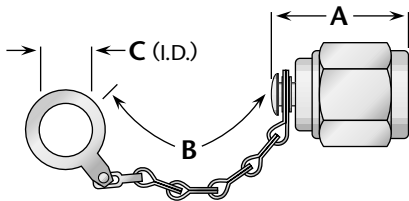
**Figure 1**  
(1/2" square flange)



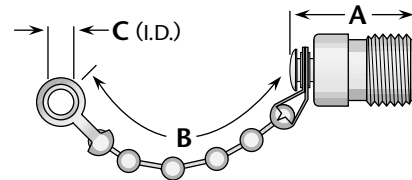
**Figure 2**  
(2-hole flange)

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)

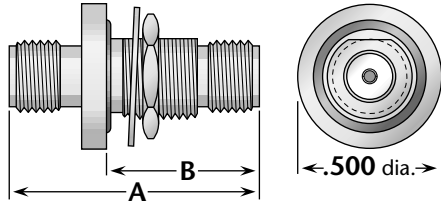


**Figure 2**  
(Shown with bead chain)

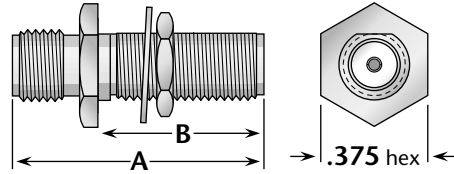
Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.50	2.25	.144	Bead chain	Gold	—	1332-000-G000
1	.50	2.25	.144	Bead chain	Passivated	—	1332-000-K000
1	.275	—	—	No chain	Passivated	—	1332-000-K00A-1
1	.50	3.25	.281	Safety chain	Passivated	—	1332-000-K00B
1	.330	—	—	No chain / shorting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

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)

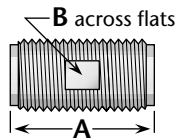


**Figure 2**  
(Non-hermetic, no mounting gasket)

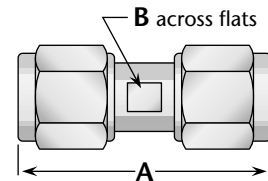
Figure	Dimensions		Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B			Body	Contact	
1	.875	.555	.190	66	Gold	Gold (C)	1326-000-G678
2	.875	.575	.250	67	Gold	Gold (C)	1326-000-G821
2	.875	.575	.250	67	Passivated	Gold (C)	1326-000-K821-1

## 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)

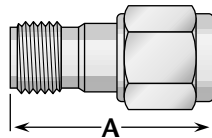
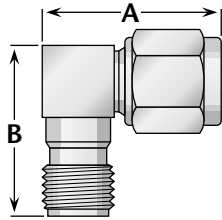


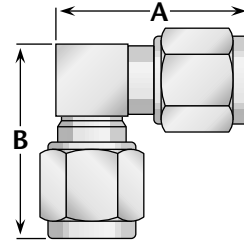
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	.500	.218	Gold	Gold (C)	1328-000-G000
1	.500	.218	Passivated	Gold (C)	1328-000-K000-1
2	.875	.218	Gold	Gold (C)	1327-000-G000
2	.875	.218	Passivated	Gold (C)	1327-000-K000-2
3	.72	—	Gold	Gold (C)	1334-000-G000
3	.72	—	Passivated	Gold (C)	1334-000-K000

(C) in contact plating column indicates captive contact (epoxy captivated).

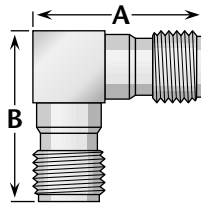
## Right Angle and Tee Adapters



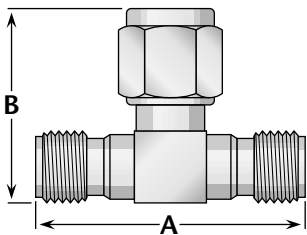
**Figure 1**  
(Right angle plug-jack;  
connects one plug and one jack)



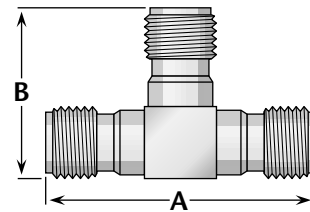
**Figure 2**  
(Right angle plug-plug;  
connects two jacks)



**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 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 114) 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 154.

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:

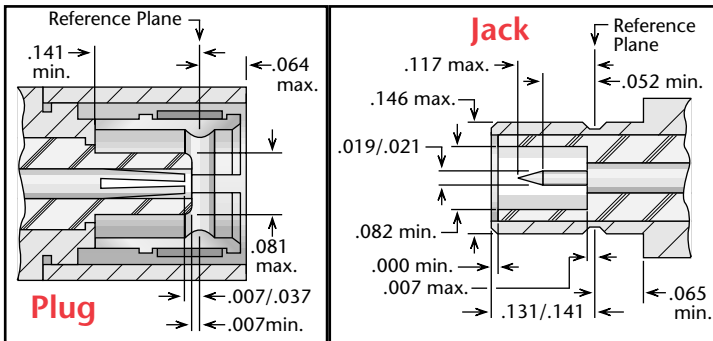
- SMB *PressMount* receptacles (page 111) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- SMB and SMC panel receptacles with flange sizes to match the same hole pattern as standard SMA connectors, letting you drill one hole pattern 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	SMC Configurations
Straight Cable Plugs .....111	Straight Cable Plugs .....114
Right Angle Cable Plugs.....111	Right Angle Cable Plugs.....114
Bulkhead Cable Jacks .....111	Bulkhead Cable Jacks .....114
Bulkhead Jack Receptacles.....112	Bulkhead Jack Receptacles.....115
Panel Jack Receptacles (square flange).....112	Panel Jack Receptacles (square flange) .....115
PressMount receptacles .....113	Printed-Circuit Board Receptacles .....115
Printed-Circuit Board Receptacles .....113	

## 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-D-1710.

**Male Contacts:** Brass per ASTM-B-16.

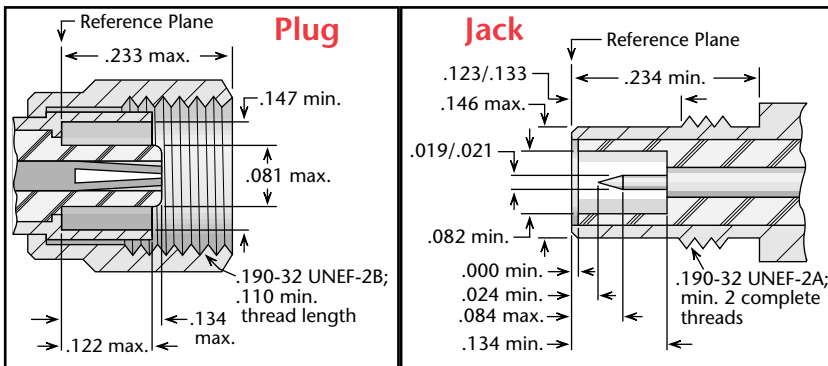
**Female Contacts:** Beryllium Copper per ASTM-B-196.

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

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

**Other Metal Parts:** Brass per ASTM-B-16, plated: Gold per MIL-G-45208, or Nickel per QQ-N-290.

### SMC Interfaces\*\*

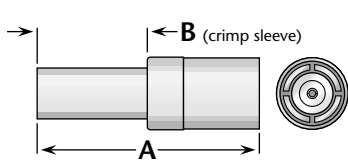


All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-A-55339, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

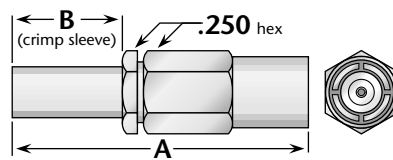
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

\*\*Some proportions altered to illustrate detail.

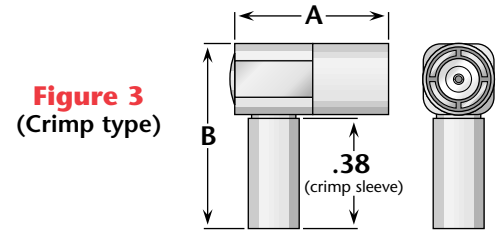
## Straight and Right Angle Plugs—For Flexible Cable



**Figure 1**  
(Crimp type)



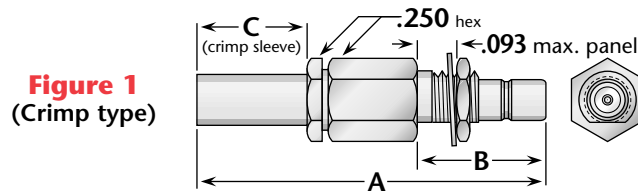
**Figure 2**  
(Crimp type)



**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	B/28
11	1	.80	.38	Nickel	Gold	2403-038-N000-1	B/28
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

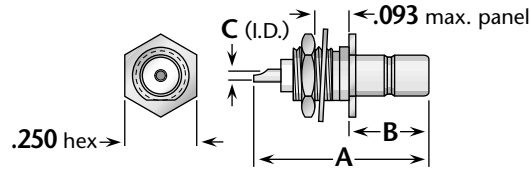


**Figure 1**  
(Crimp type)

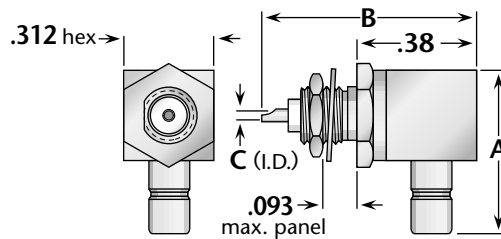
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
9	1	1.17	.426	.38	68	Gold	Gold (C)	2419-037-G681	***
9	1	1.17	.426	.38	68	Nickel	Gold (C)	2419-037-N681	***
10	1	1.17	.426	.38	68	Gold	Gold (C)	2419-100-G681	***
10	1	1.17	.426	.38	68	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	***

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## Bulkhead Jack Receptacles



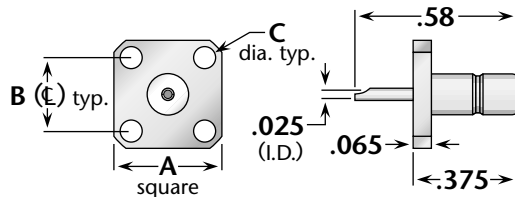
**Figure 1**



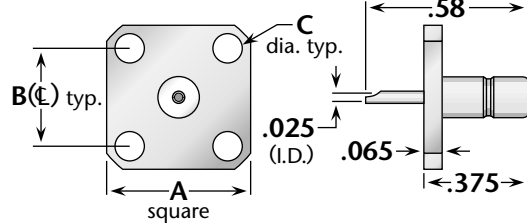
**Figure 2**

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

(C) in contact plating column indicates captive contact.



## Printed-Circuit Board Receptacles

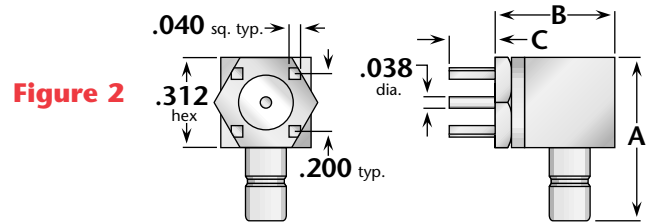
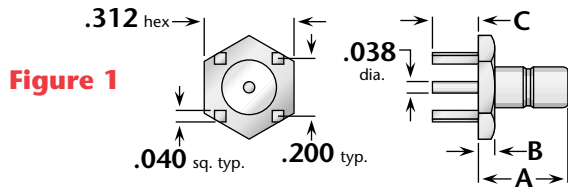
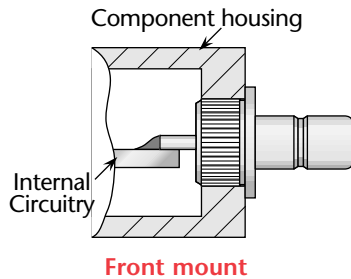


Figure	Dimensions			Max. Board	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	.300	.060	.155	.100	PCB06	Gold	Gold (C)	2468-000-G001
1	.300	.060	.155	.100	PCB06	Nickel	Gold (C)	2468-000-N001
2	.59	.375	.155	.100	PCB06	Gold	Gold (C)	2470-000-G00E
2	.59	.375	.155	.100	PCB06	Nickel	Gold (C)	2470-000-N00E

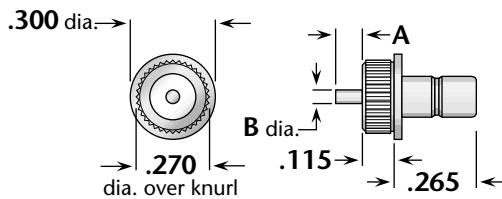
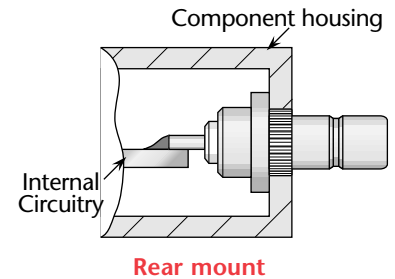
## PressMount Receptacles

### Delta PressMount Receptacles

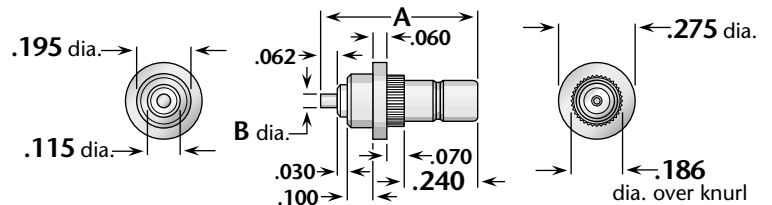


These connectors eliminate the need for complicated mounting hole patterns and mounting hardware. They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength far greater than normal mating and unmating forces. An integral shoulder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

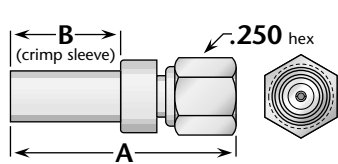


**Figure 2**  
(Post contact, rear mount, brass body)

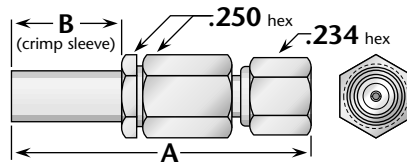
Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.062	.050	.100	.267 ±.001 dia.	Passivated	Gold (C)	2420-000-K911-1
2	.500	.060	.062	.182 ±.001 dia.	Gold	Gold (C)	2421-000-G911

(C) in contact plating column indicates captive contact.

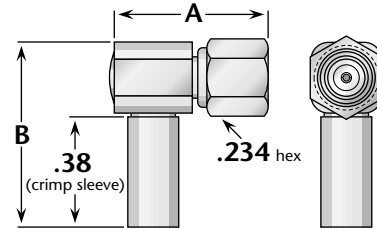
## Straight and Right Angle Plugs—For Flexible Cable



**Figure 1**  
(Crimp type)



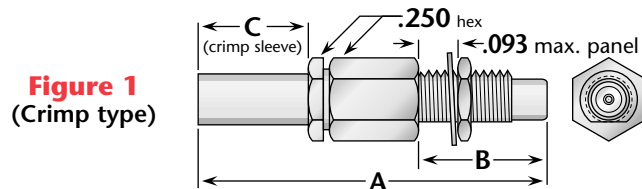
**Figure 2**  
(Crimp type)



**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	***

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## Bulkhead Jack Receptacles

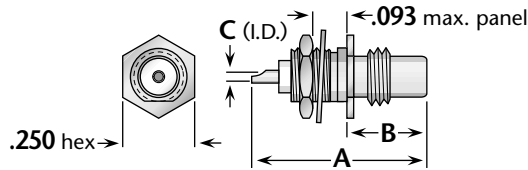
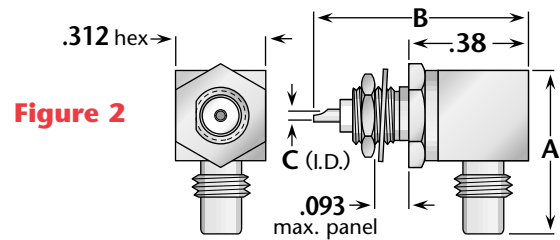

**Figure 1**

**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

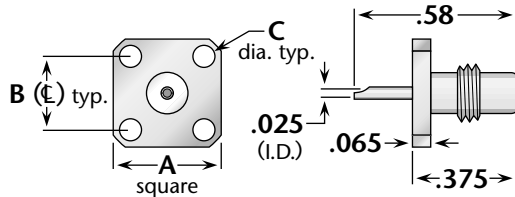
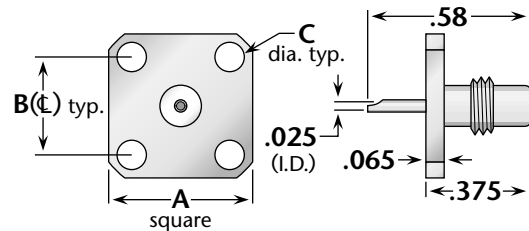

**Figure 1**  
(3/8" square flange)

**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

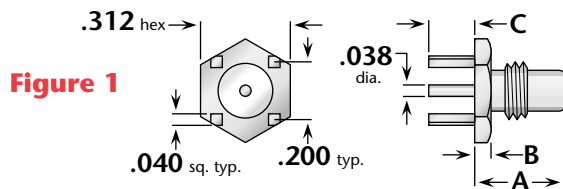
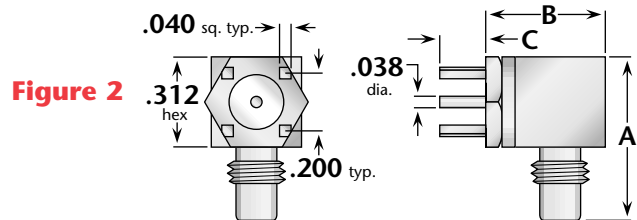

**Figure 1**

**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

(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. 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 154.

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:

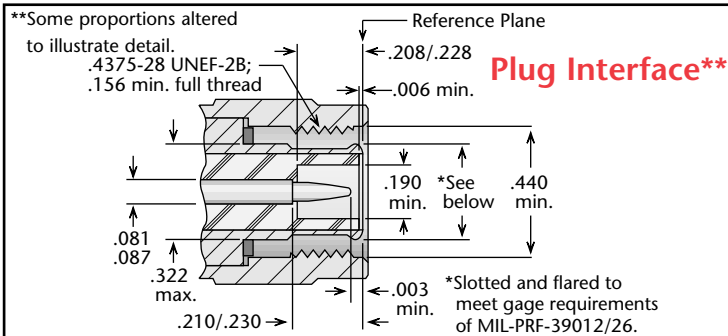
- *Heli-Grip* cable connectors for fast, reliable assembly to flexible cable without special tooling.
- *PressMount* receptacles (page 127) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- Panel receptacles with flange sizes to match 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 130) prevent mismatching and meet FCC Part 15.203 requirements.
- Keying baskets and keyed plugs (page 127) 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 .....	117	Bulkhead Jack Receptacles .....	126
Right Angle Cable Plugs .....	119	PressMount Receptacles.....	127
Straight Cable Jacks .....	121	Stripline Receptacles .....	127
Bulkhead Cable Jacks .....	122	Resistive Terminations .....	128
Panel Cable Jacks .....	123	Dust Caps.....	128
Panel Jack Receptacles (square flange) .....	124	Keying Baskets.....	129
Right Angle Panel Jack Receptacles .....	125	In-Series Adapters .....	130
Panel Plug Receptacles.....	125	Polarized Plugs and Jacks .....	132

## 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:

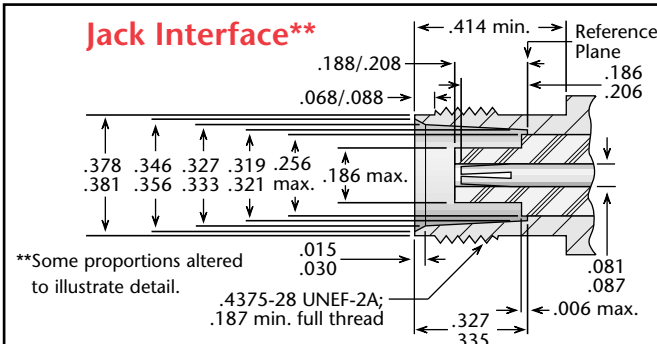
**Insulators:** Teflon per ASTM-D-1710.  
**Male Contacts:** Brass per ASTM-B-16.  
**Female Contacts:** Beryllium Copper per ASTM-B-196.  
**Contact Plating:** Silver per QQ-S-365, or Gold per MIL-G-45204.

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

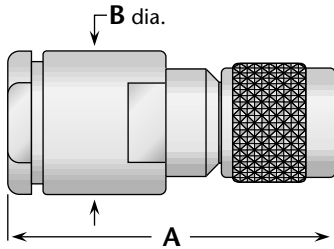
**Other Metal Parts:** Brass per ASTM-B-16, plated: Silver per QQ-S-365, or Nickel per QQ-N-290.

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.

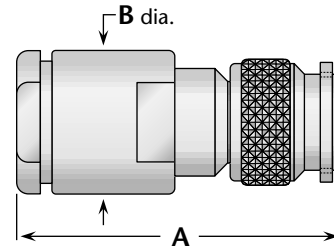
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.



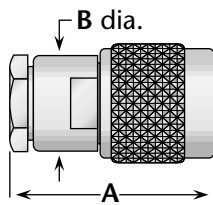
## Straight Plug—Military Clamp for Flexible Cable



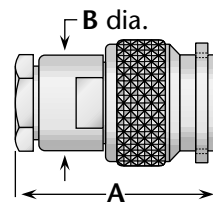
**Figure 1**  
(Standard coupling nut)



**Figure 2**  
(Safety-wire holes in coupling nut)



**Figure 3**  
(Standard coupling nut)

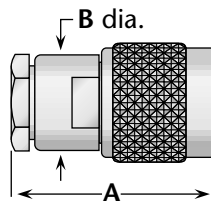
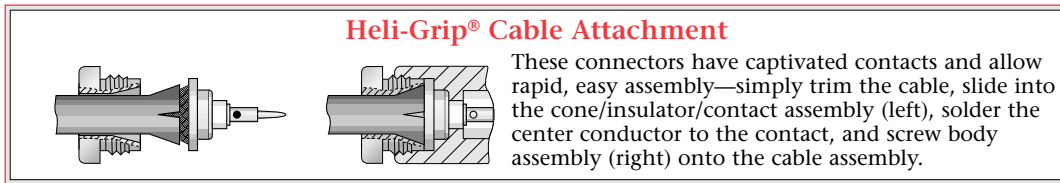


**Figure 4**  
(Safety-wire holes in coupling nut)

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

(C) in contact plating column indicates captive contact.

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

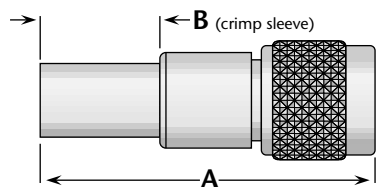


**Figure 1**

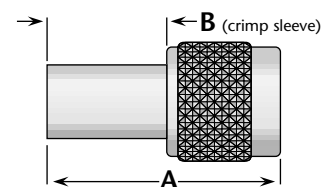
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
5, 6 <sup>§</sup>	1	1.09	.50	Nickel	Silver (C)	1201-018-N005	E/03
RG-223	1	1.09	.50	Nickel	Silver (C)	1201-015-N005	E/03
7	1	1.09	.50	Nickel	Silver (C)	1201-019-N005	E/03
8A	1	1.09	.50	Nickel	Silver (C)	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

<sup>§</sup>Except RG-223/U.

## Straight Plug—Crimp Type for Flexible Cable



**Figure 1**



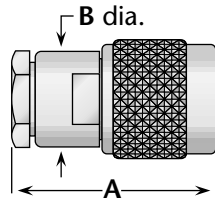
**Figure 2**

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
3A, 4	1	1.75	.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*	***

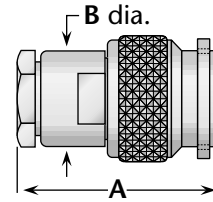
\* Crimp center contact.

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

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



**Figure 1**  
(Standard coupling nut)

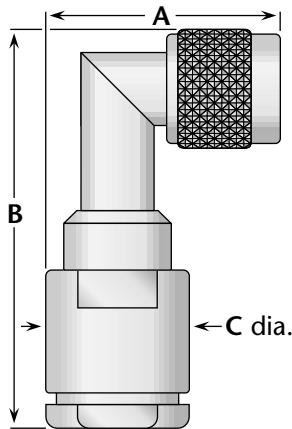


**Figure 2**  
(Safety-wire holes in coupling nut)

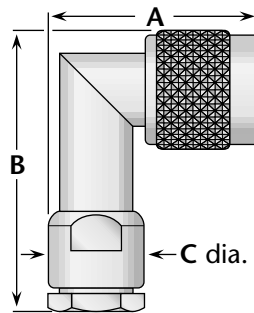
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
13	1	1.09	.50	Nickel*	Gold	1201-031-N003	F/08
13	2	1.09	.50	Nickel*	Gold	1240-031-N003	F/08
14	1	1.09	.50	Nickel*	Gold	1201-025-N003	F/07
14	2	1.09	.50	Nickel*	Gold	1240-025-N003	F/07

\* Solder ferrule is gold plated.

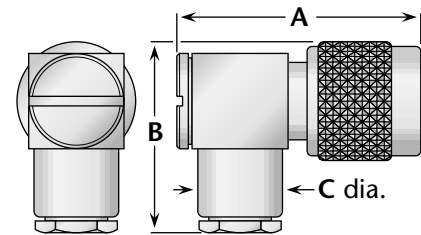
## Right Angle Plug—Military Clamp for Flexible Cable



**Figure 1**



**Figure 2**

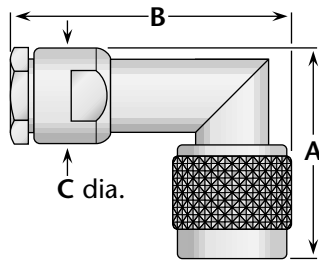


**Figure 3**

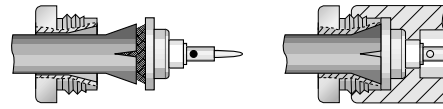
Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
1	1	1.19	1.94	.75	Nickel	Gold	1204-001-N000	A/07
2, 3	1	1.19	1.94	.75	Nickel	Gold	1204-004-N000	A/07
2, 3	1	1.19	1.94	.75	Nickel	Gold (C)	1204-004-N001	A/07
5, 6	2	1.06	1.65	.50	Nickel	Gold	1204-015-N000	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

(C) in contact plating column indicates captive contact.

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

**Figure 1**


### Heli-Grip® Cable Attachment

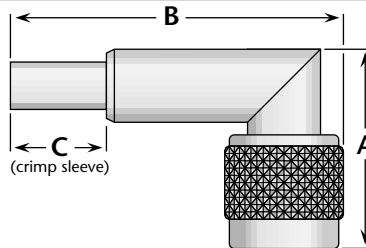


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

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

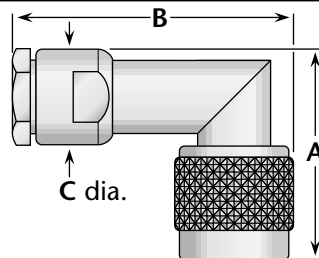
§Except RG-223/U.

## 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**


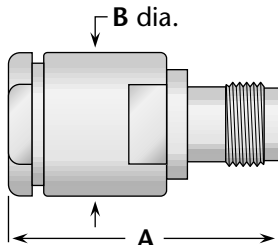
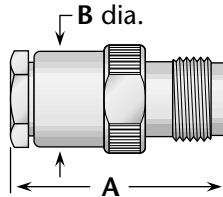
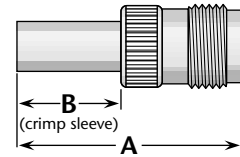
Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
13	1	1.06	1.65	.50	Nickel*	Gold	1204-031-N003	F/08
14	1	1.06	1.65	.50	Nickel*	Gold	1204-025-N003	F/07

\* Solder ferrule is gold plated.

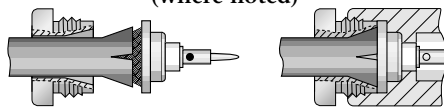
(C) in contact plating column indicates captive contact.



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


**Figure 1**

**Figure 2**

**Figure 3**

### 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

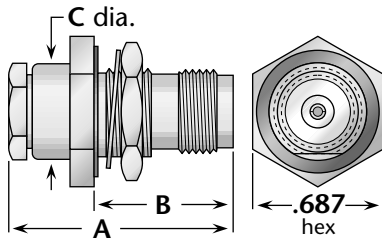
<sup>§</sup>Except RG-223/U.

\*Solder ferrule is gold plated.

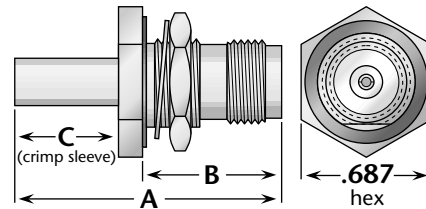
(C) in contact plating column indicates captive contact.

\*\*Indicates crimp center contact. • \*\*\*Contact factory for cable assembly instructions.

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

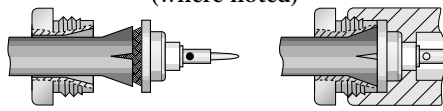


**Figure 1**  
(Rear mount)



**Figure 2**  
(Rear mount)

### 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

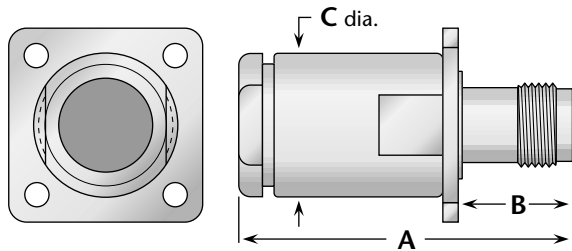
13	1	1.16	.68	.50	59	.11	Nickel*	Gold	1216-031-N593	F/08
14	1	1.16	.68	.50	59	.11	Nickel*	Gold	1216-025-N593	F/07

<sup>§</sup>Except RG-223/U.

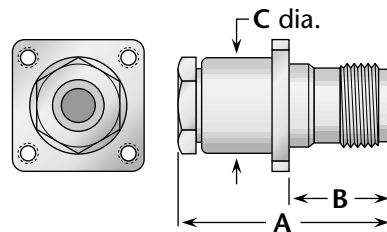
\* Solder ferrule is gold plated.

(C) in contact plating column indicates captive contact.

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

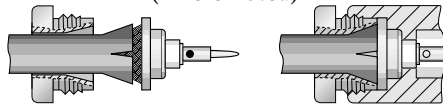


**Figure 1**



**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 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

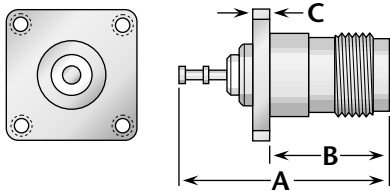
13	1	1.16	.55	.50	07	Nickel*	Gold	1211-031-N073	F/08
14	1	1.16	.55	.50	07	Nickel*	Gold	1211-025-N073	F/07

<sup>§</sup>Except RG-223/U.

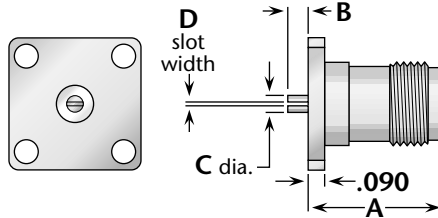
\* Solder ferrule is gold plated.

(C) in contact plating column indicates captive contact.

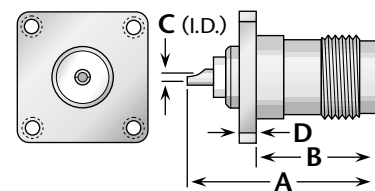
## Panel Jack Receptacles—Square Flange



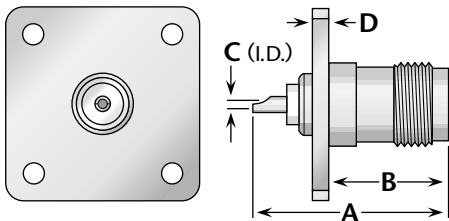
**Figure 1**  
(Turret contact)



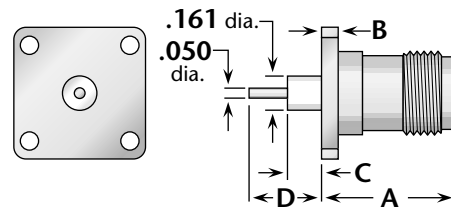
**Figure 2**  
(Slotted contact)



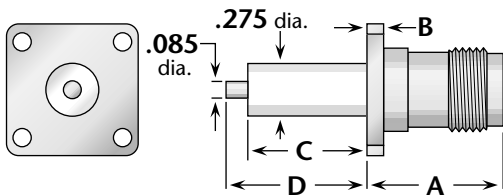
**Figure 3**  
(Solder pot contact)



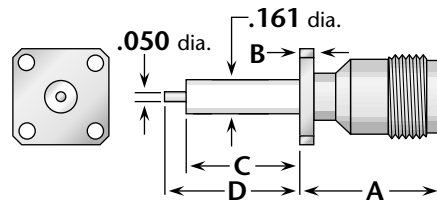
**Figure 4**  
(Solder pot contact, 1" square flange,  
interchangeable with type N standard flange size)



**Figure 5**  
(Post contact)



**Figure 6**  
(Post contact)

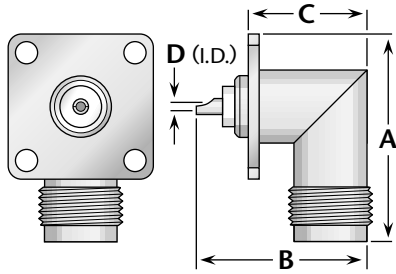


**Figure 7**  
(Post contact, 1/2" square flange,  
interchangeable with SMA standard flange size)

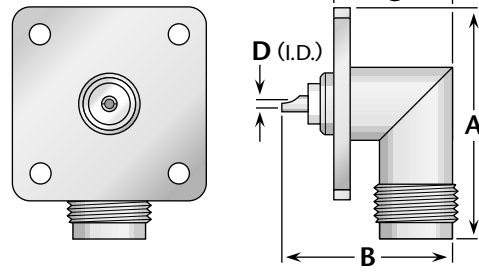
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.63	.090	—	07	Nickel	Silver (C)	1212-000-N070
2	.715	.050	.085	.012/.017	09	Nickel	Gold (C)*	1243-000-F09E-1
2	.715	.050	.085	.036/.040	09	Nickel	Gold (C)*	1243-000-F09E-2
3	1.06	.63	.062	.090	07	Nickel	Gold (C)	1213-000-N071
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	.715	.080	.590	.705	18 <sup>s</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>s</sup>Flange #18 except with .125 dia. mounting holes. • All items are available with other flange sizes and contact configurations.

## Right Angle Panel Jack Receptacle—Square Flange



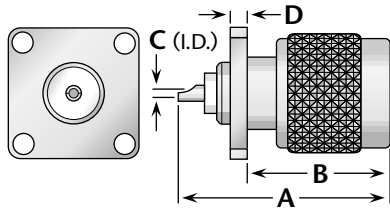
**Figure 1**  
(Solder pot contact)



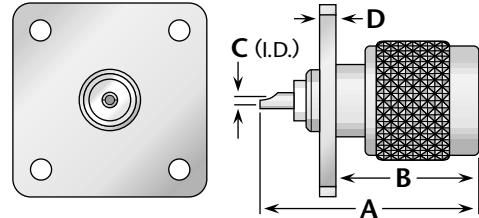
**Figure 2**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

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	1.06	.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)

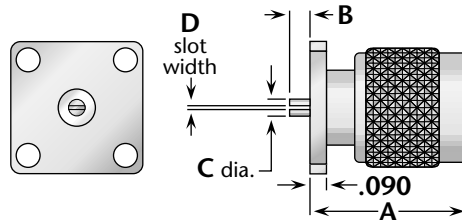
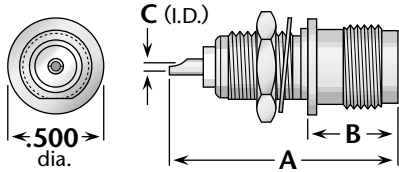


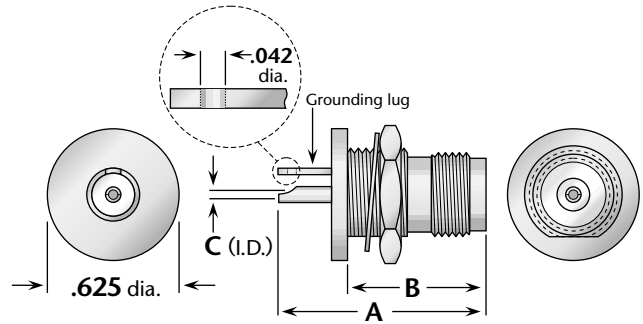
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.16	.72	.062	.090	18	Nickel	Gold (C)	1223-000-N180
2	1.16	.72	.062	.080	33	Nickel	Gold (C)	1223-000-N330
3	.83	.050	.083	.012/.017	09	Nickel	Gold (C)	1259-000-N091-1
3	.83	.050	.083	.030	09	Nickel	Gold (C)	1259-000-N091-2
3	.83	.050	.083	.040	09	Nickel	Gold (C)	1259-000-N091-3

(C) in contact plating column indicates captive contact.

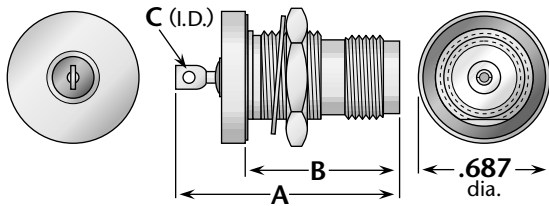
## Bulkhead Jack Receptacles



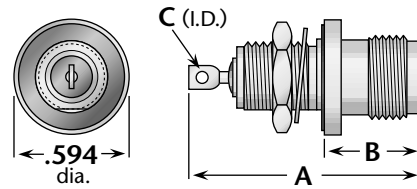
**Figure 1**  
(Front mount)



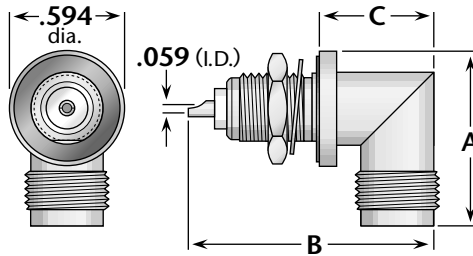
**Figure 2**  
(Rear mount, with grounding lug)



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



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



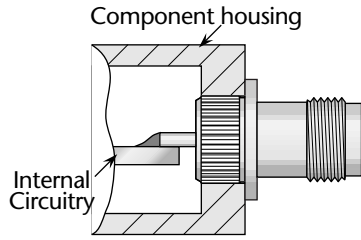
**Figure 5**  
(Right angle, with mounting gasket)

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	.72	.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	63	Nickel	Gold (C)	1220-000-N638
5	.97	1.22	.59	.13	63	Nickel	Gold (C)	1222-000-N630-1
5	.97	1.34	.59	.25	63	Nickel	Gold (C)	1222-000-N630-2

(C) in contact plating column indicates captive contact.

## PressMount Receptacles

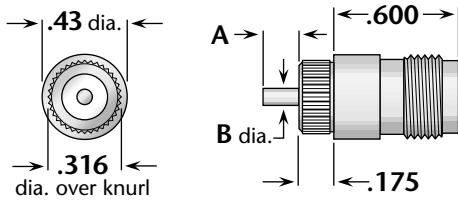
### Delta PressMount Receptacles



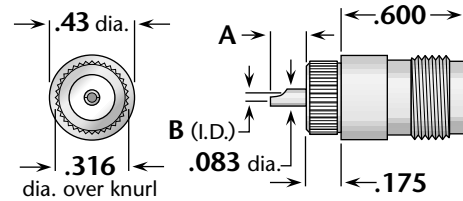
These connectors eliminate the need for complicated mounting hole patterns and mounting hardware.

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.

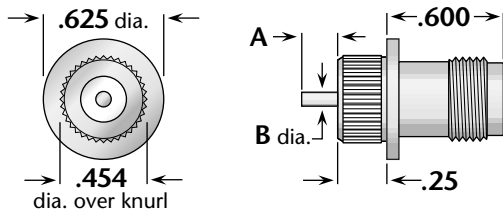
PressMounts are available for a wide variety of Delta connector series, and can be used in packages as small as the outer diameter of the connector body.



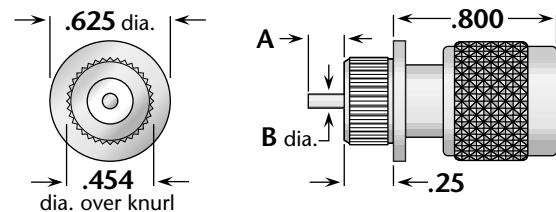
**Figure 1**  
(Post contact)



**Figure 2**  
(Solder pot contact)



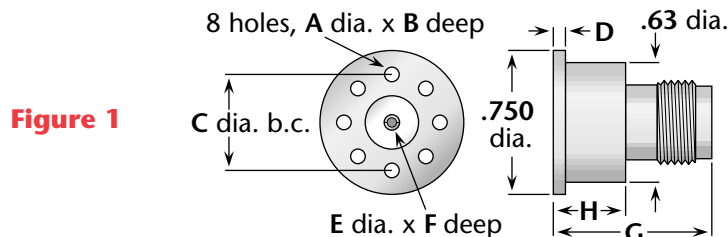
**Figure 3**  
(Post contact)



**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

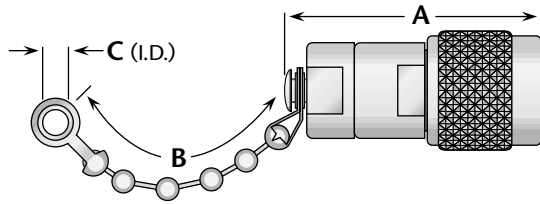


**Figure 1**

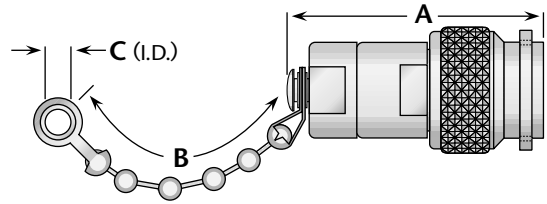
Figure	Dimensions								Plating		Delta P/N
	A	B	C	D	E	F	G	H	Body	Contact	
1	.078	.31	.500	.063	.063	.22	.828	.375	Nickel	Gold (C)	1256-000-N000-2
2	#2-56	.25	.500	.063	.063	.22	.828	.375	Nickel	Gold (C)	1256-000-N000-3

(C) in contact plating column indicates captive contact.

**Resistive Termination (Plug Type)**



**Figure 1**

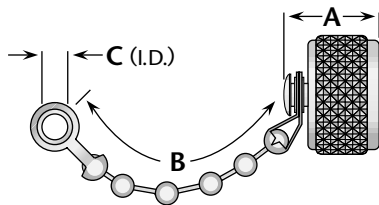


**Figure 2**

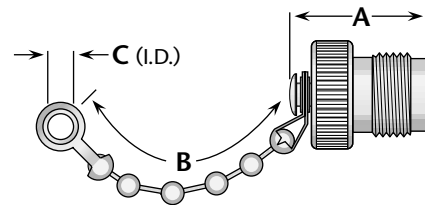
(Safety-wire holes in coupling nut)

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**



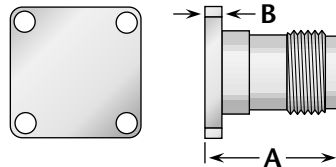
**Figure 1**



**Figure 2**

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.



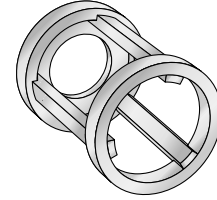
**Keying Baskets—For Polarization of Mated Pairs**

**Multiple Polarizations in a Single Installation**

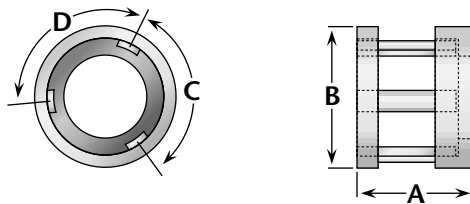
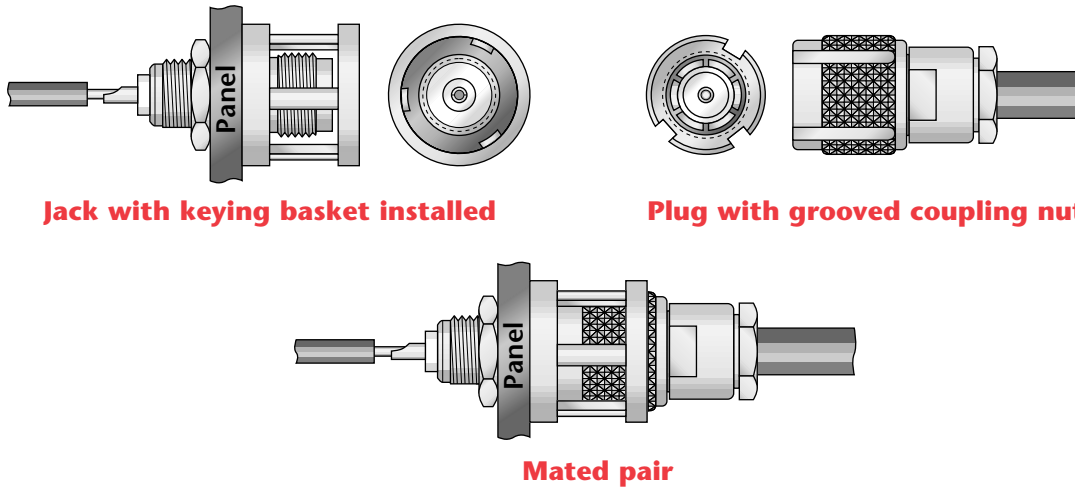
In applications with multiple connector pairs, these keying baskets polarize individual jacks so they can only be mated with plugs that have coupling nuts modified with the correct groove orientation.

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.



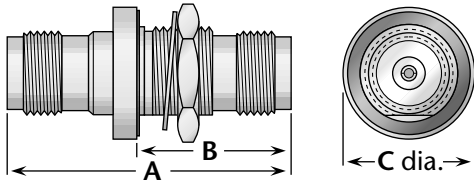
**Application Example**



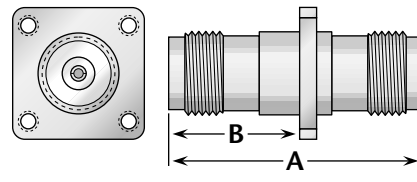
**Figure 1**

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

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



**Figure 1**  
(Bulkhead mount)

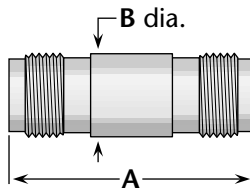


**Figure 2**  
(Panel mount)

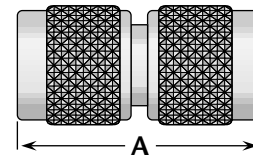
Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.28	.80	.625	.16	59	Nickel	Gold (C)	1226-000-N591-1
1	1.39	.76	.69	.19	59	Nickel	Gold (C)	1226-000-N598-2*
2	1.28	.69	—	—	07	Nickel	Silver (C)	1225-000-N070-1

\* Hermetically sealed, with mounting gasket.

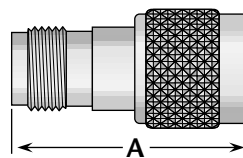
## Straight Adapters



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



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

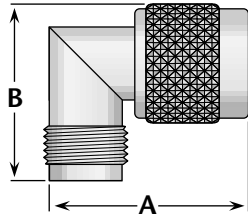


**Figure 3**  
(Straight jack-plug;  
connects one plug and one jack)

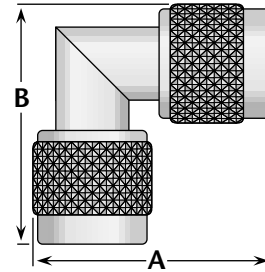
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.28	.44	Nickel	Silver (C)	1228-000-N000
2	1.25	—	Nickel	Gold (C)	1227-000-N000
3	1.22	—	Nickel	Gold (C)	1234-000-N000

(C) in contact plating column indicates captive contact.

**Right Angle Adapters**



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

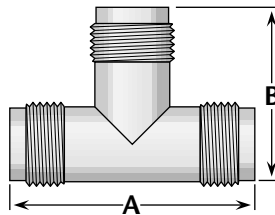


**Figure 2**  
(Right angle plug-plug;  
connects two jacks)

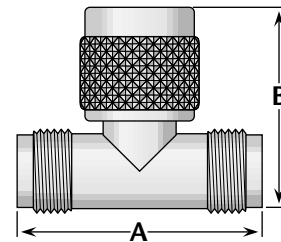
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.03	.95	Nickel	Gold (C)	1229-000-N000
2	1.25	1.25	Nickel	Gold (C)	1241-000-N000

**Tee Adapters**

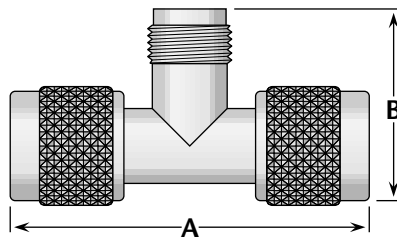
**Figure 1**  
(Tee jack-jack-jack;  
connects three jacks)



**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)

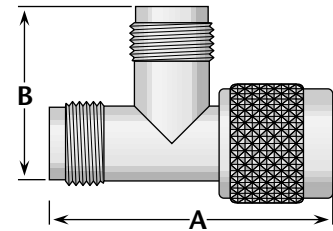
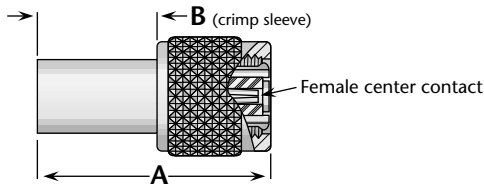


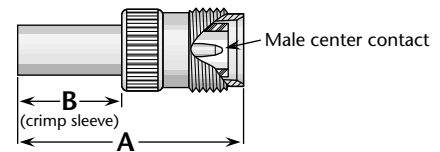
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.28	.88	Nickel	Gold (C)	1238-000-N000
2	1.28	1.03	Nickel	Gold (C)	1230-000-N000
3	1.88	.95	Nickel	Gold (C)	1242-000-N000
4	1.48	1.06	Nickel	Silver (C)	1249-000-N000

(C) in contact plating column indicates captive contact.

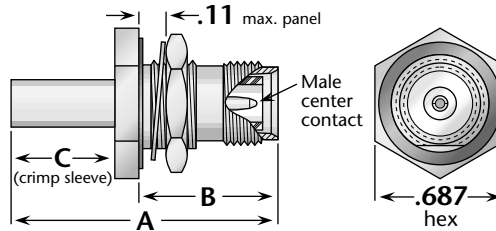
## Cable Plugs and Jacks



**Figure 1**  
(Crimp type plug)



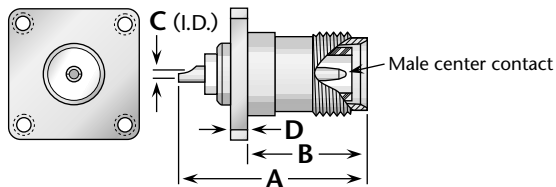
**Figure 2**  
(Crimp type jack)



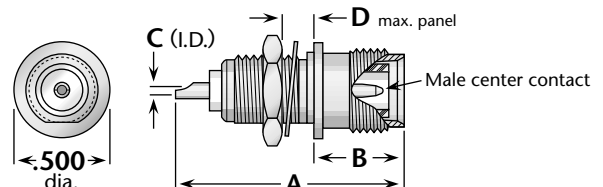
**Figure 3**  
(Crimp type bulkhead jack)

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	1.16	.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

(C) in contact plating column indicates captive contact.

## 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.

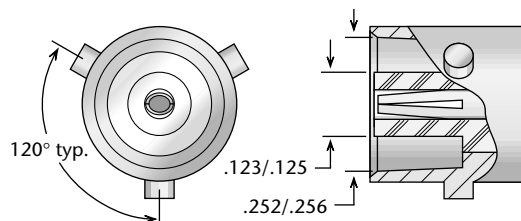
As with all other Delta connector series, we welcome your specifications for special configurations.

## TPS Configurations

Straight Cable Plugs .....	134
Right Angle Cable Plugs .....	134
Straight Cable Jacks .....	134
Bulkhead Cable Jacks .....	134
Panel Jack Receptacles (square flange) .....	135
Bulkhead Jack Receptacles .....	135
Right Angle Bulkhead Jack Receptacles .....	135
Dummy Receptacles .....	135
In-Series Adapters .....	135

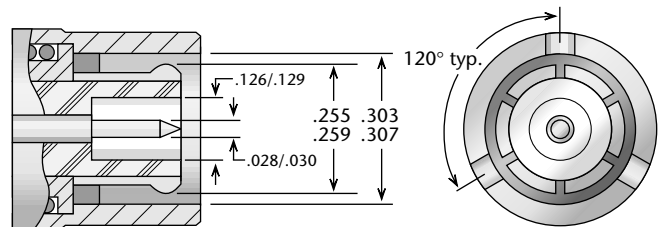
## TPS Specifications\*

### Jack Interface\*\*



\*\*Some proportions altered to illustrate detail.

### Plug Interface\*\*



#### 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.

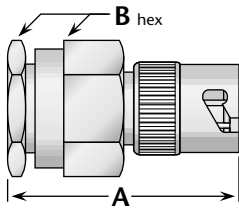
#### Materials/Finishes:

**Insulators:** Teflon per ASTM-D-1710.  
**Male Contacts:** Brass per ASTM-B-16.  
**Female Contacts:** Beryllium Copper per ASTM-B-196.  
**Contact Plating:** Gold per MIL-G-45204.  
**Gaskets:** Silicone rubber per ZZ-R-765, Class II, Grade 50.  
**Other Metal Parts:** Brass per ASTM-B-16, plated Gold per MIL-G-45204.

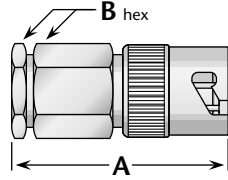
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-55235, or other applicable MIL specifications.

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

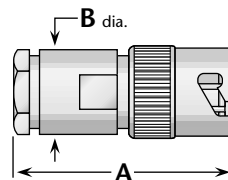
## Straight and Right Angle Plugs—For Flexible Cable



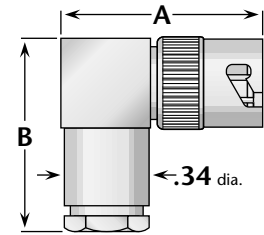
**Figure 1**  
(Wedge clamp)



**Figure 2**  
(Wedge clamp)



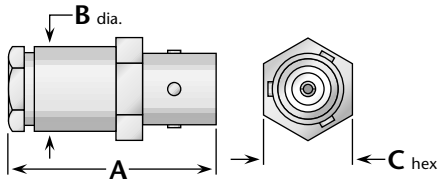
**Figure 3**  
(Military clamp)



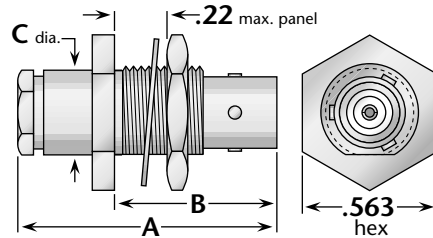
**Figure 4**  
(Military clamp)

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	A/34
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	A/33
9	4	.91	.73	Gold	Gold (C)	4404-036-G000	A/34

## Straight and Bulkhead Jacks—For Flexible Cable



**Figure 1**  
(Military clamp)

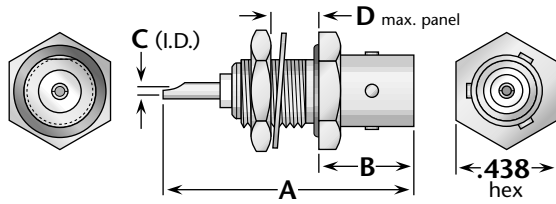


**Figure 2**  
(Rear mount, wedge clamp)

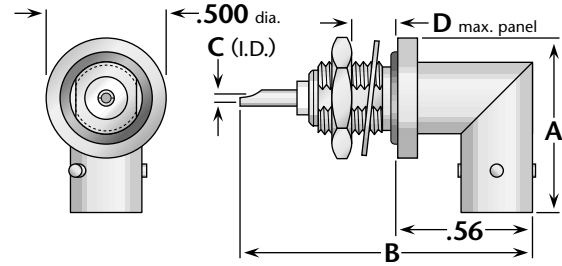
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C		Body	Contact		
5, 6	1	.88	.34	.375	—	Gold	Gold	4408-013-G000	A/33
5, 6	2	1.05	.68	.41	62	Gold	Gold	UG-1413/U	***
7	1	.88	.34	.375	—	Gold	Gold	4408-019-G000	A/33
7	2	1.05	.68	.41	62	Gold	Gold	4416-019-G620	***
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	***

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

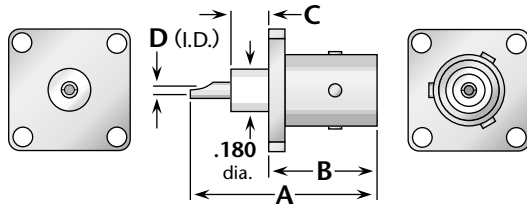
## Bulkhead and Panel Receptacles



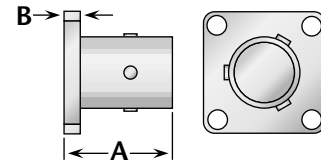
**Figure 1**  
(Bulkhead jack, front mount, with mounting gasket)



**Figure 2**  
(Right angle bulkhead jack, front mount, with mounting gasket)



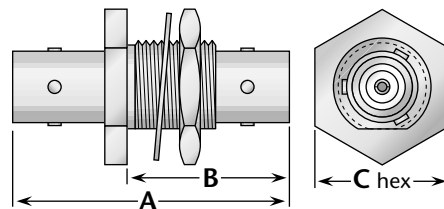
**Figure 3**  
(Panel mount jack)



**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

(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.

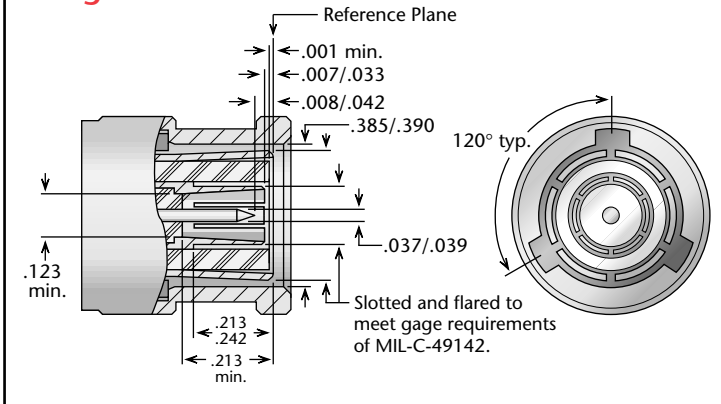
As with all other Delta connector series, we welcome your specifications for special configurations.

## TRB Configurations

Straight Cable Plugs .....	137
Bulkhead Cable Jacks .....	137
Panel Jack Receptacles (square flange) .....	137
Bulkhead Jack Receptacles .....	137

## TRB Specifications\*

### Plug Interface\*\*



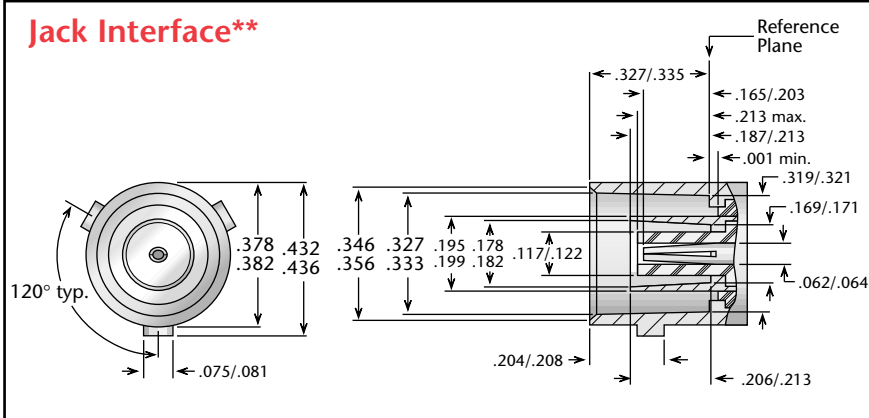
### Electrical:

**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-D-1710.  
**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-B-16, plated: Silver per QQ-S-365, or Nickel per QQ-N-290.

### Jack Interface\*\*



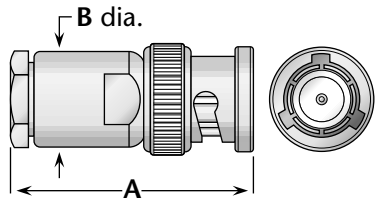
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-49142, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

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

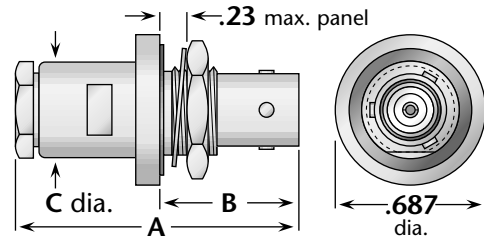
\*\*Some proportions altered to illustrate detail.



## Cable Connectors



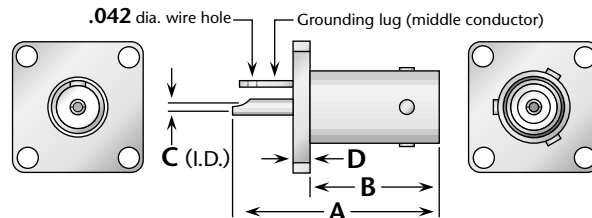
**Figure 1**  
(Straight plug, wedge-clamp hardware)



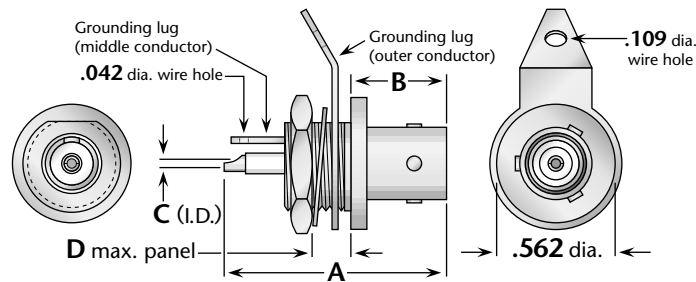
**Figure 2**  
(Bulkhead jack, wedge-clamp hardware)

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.  
 \*\*\*Contact factory for cable assembly instructions. • (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.

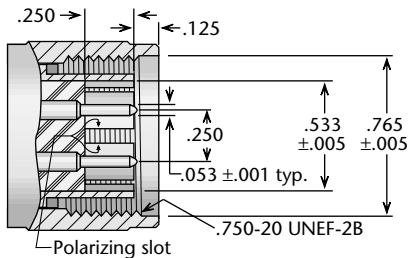
Delta TW34 connectors are designed and manufactured to meet the requirements of MIL-C-3655.

## TW34 Configurations

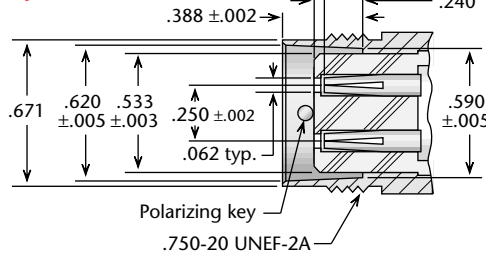
Cable Plugs.....	138	Panel Jack Receptacles (square flange) .....	140
Cable Jacks .....	139	In-Series Adapters .....	140
Bulkhead Jack Receptacles .....	139		

## TW34 Specifications\*

### 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.

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 (Optional),  
 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-D-1710.  
**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-B-16, plated:  
 Silver per QQ-S-365, or Nickel per QQ-N-290.

## Straight and Right Angle Plugs—Clamp Type for Flexible Cable

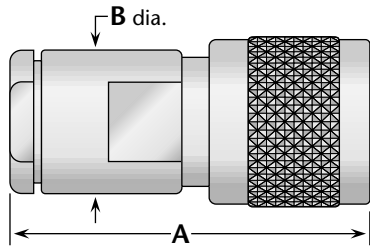


Figure 1

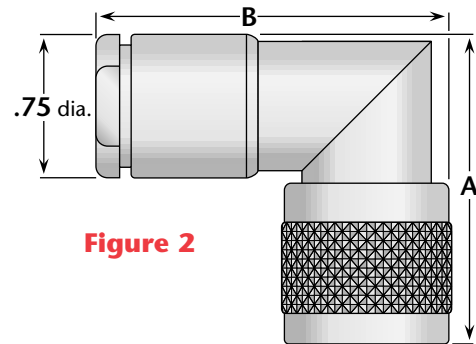
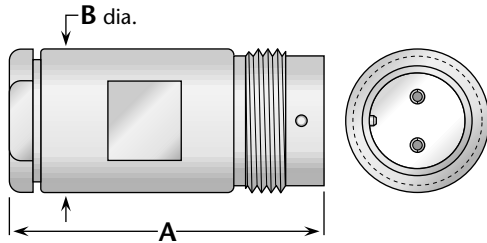


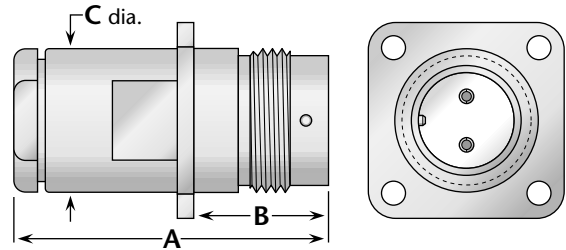
Figure 2

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	Contact Factory
28	1	1.88	.75	Nickel	Silver	UG-421B/U	Contact Factory
28	2	1.56	1.88	Nickel	Silver	2604-070-N000	Contact Factory
29	1	1.88	.75	Nickel	Silver	2601-201-N000	Contact Factory
29	2	1.56	1.88	Nickel	Silver	2604-201-N000	Contact Factory

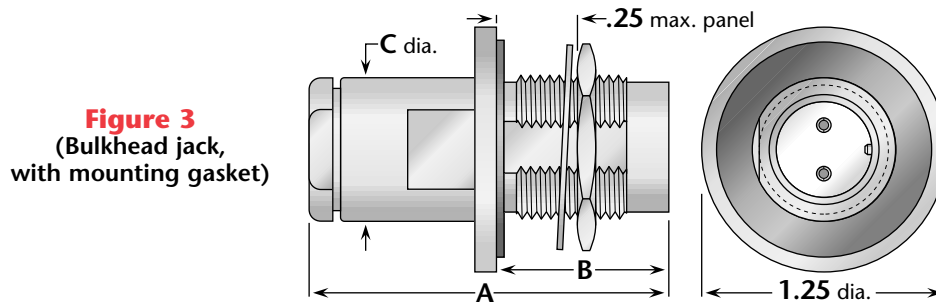
## Cable Jacks



**Figure 1**  
(Straight jack)



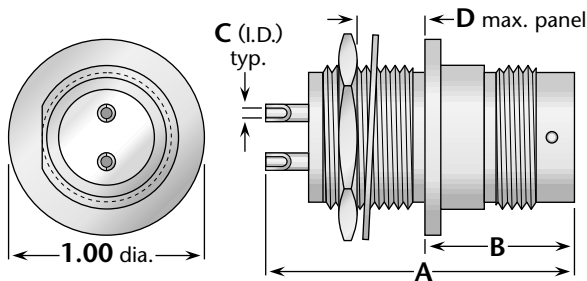
**Figure 2**  
(Panel jack)



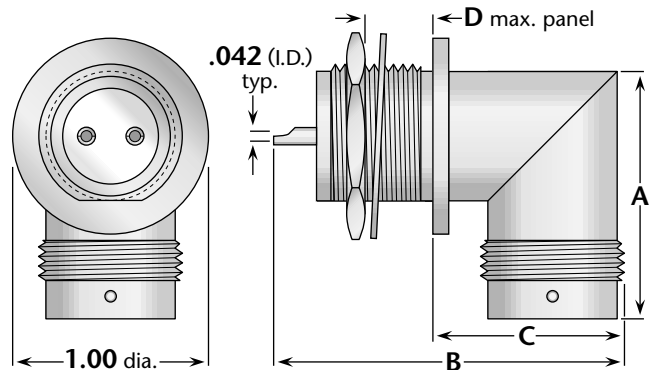
**Figure 3**  
(Bulkhead jack,  
with mounting gasket)

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

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## Panel Jack Receptacle—Solder Pot Contact

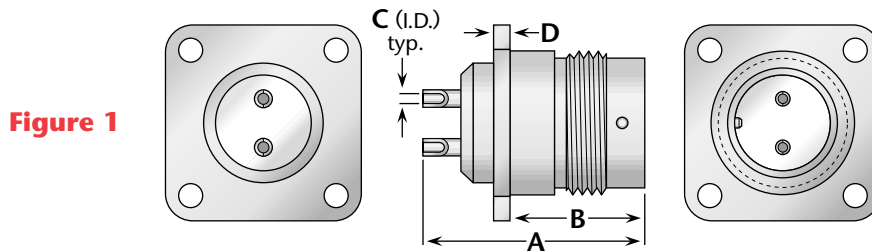
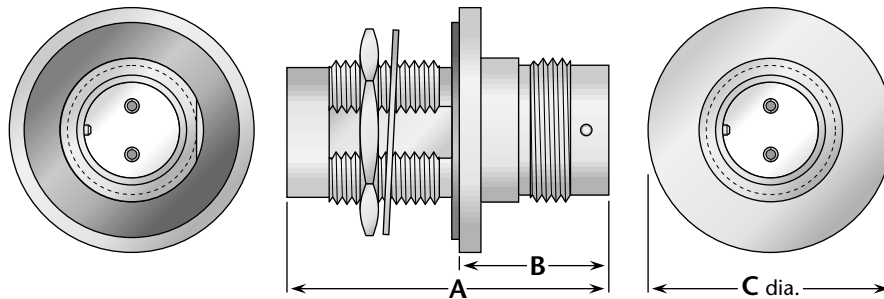


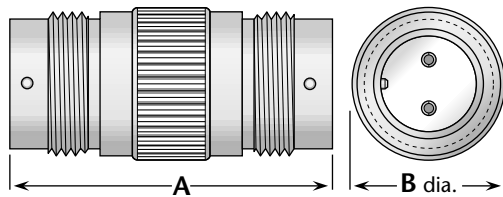
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.18	.71	.059	.080	33	Nickel	Silver (C)	UG-422/U

## 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)

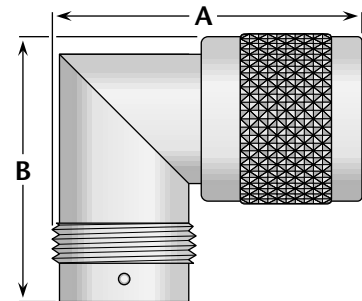


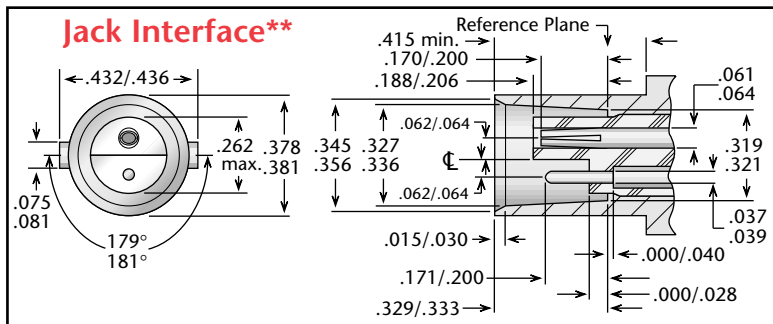
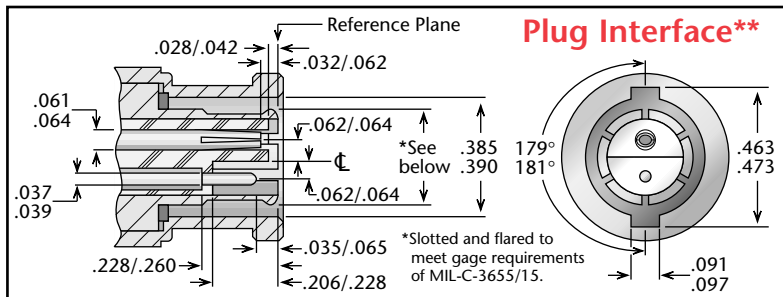
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.67	.75	Nickel	Silver (C)	2626-000-N000
2	1.56	1.38	Nickel	Silver (C)	UG-981/U

(C) in contact plating column indicates captive contact.

## 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. TWBNC connectors 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-D-1710.  
**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-B-16, plated: Silver per QQ-S-365, or Nickel per QQ-N-290.

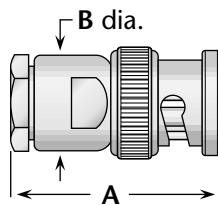
All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-3655, or other applicable MIL specifications, and interfaces are in accordance with MIL-STD-348.

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

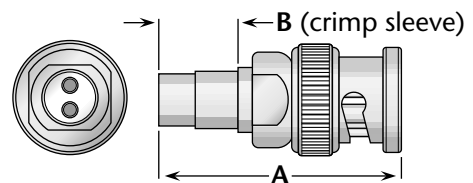
\*\*Some proportions altered to illustrate detail.

## Cable Connectors—For Flexible Cable

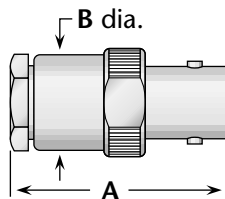
**Figure 1**  
(Cable plug, clamp type)



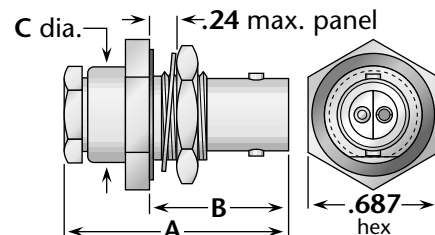
**Figure 2**  
(Cable plug, crimp type)



**Figure 3**  
(Straight jack, clamp type)



**Figure 4**  
(Bulkhead jack, rear mount, clamp type)

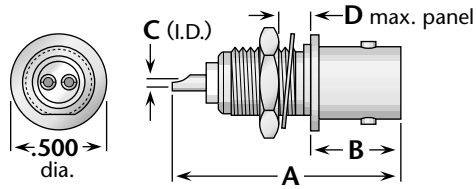


Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
27	1	1.16	.50	—	—	Nickel	Gold (C)	6101-099-N001	***
27	2	1.28	.41	—	—	Nickel	Silver (C)	6102-099-N001	***
27	3	1.13	.50	—	—	Nickel	Gold (C)	6108-099-N001	***
27	4	1.13	.81	.50	59	Nickel	Gold (C)	6116-099-N591	***

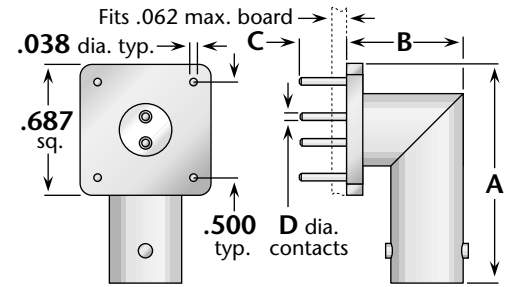
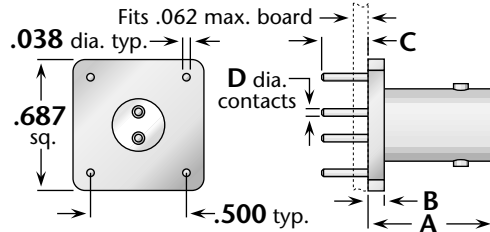
\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## Jack Receptacles

**Figure 1**  
(Bulkhead jack receptacle, front mount, solder pot contacts)



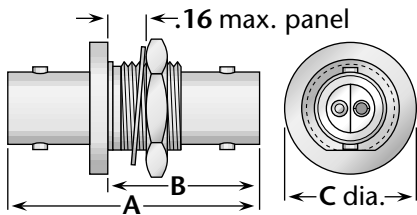
**Figure 2**  
(Straight PCB receptacle)



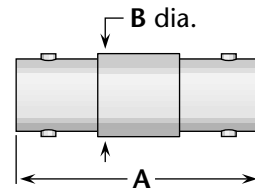
**Figure 3**  
(Right angle PCB receptacle)

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	Silver (C)	6169-000-N13P

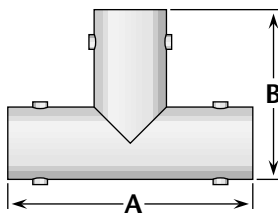
## Adapters



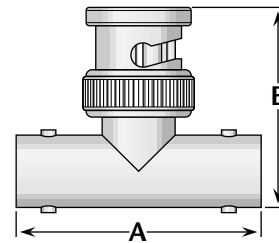
**Figure 1**  
(Straight jack-jack bulkhead adapter; connects two plugs)



**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

(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 154.

### UHF Specifications

**Electrical:**

**Nominal Impedance:** Nonconstant.  
**Frequency Range:** DC–200 MHz, use with caution to 500 MHz.  
**Voltage Rating:** 500 volts RMS.

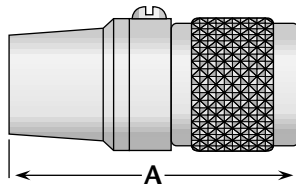
**Materials/Finishes:**

**Insulators:** Teflon per ASTM-D-1710.  
**Male Contacts:** Brass per ASTM-B-16.  
**Female Contacts:** Beryllium Copper per ASTM-B-196.

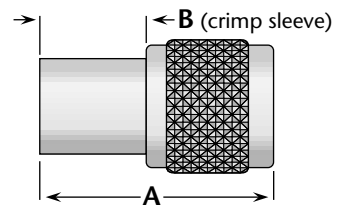
**Contact Plating:** Silver per QQ-S-365.  
**Other Metal Parts:** Brass per ASTM-B-16, plated Silver per QQ-S-365, or Nickel per QQ-N-290.

### Straight Plug—For Flexible Cable

**Figure 1**  
(Compression clamp)



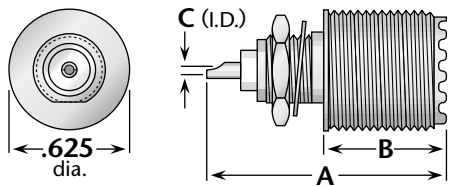
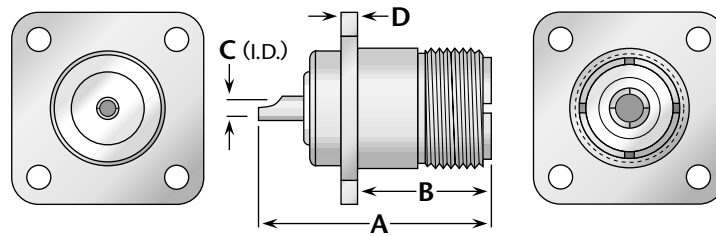
**Figure 2**  
(Crimp type)



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	.50	Nickel	Silver (C)	5003-005-N001	***
5	2	1.44	.63	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 2**  
(Bulkhead jack receptacle, front mount)

**Figure 3**  
(Panel plug receptacle)

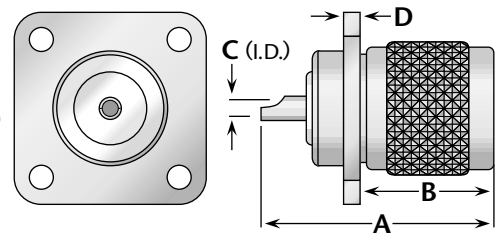


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.18	.70	.100	.080	33	Nickel	Silver (C)	5013-000-N331
2	1.25	.657	.062	.125	65	Nickel	Silver (C)	5020-000-N651
3	1.03	.72	.100	.080	33	Nickel	Silver (C)	5023-000-N331-1

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## 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 148) let you stock various body and cable attachment subassemblies, and assemble them into straight or right angle connectors as needed.
- *PressMount* receptacles (pages 149 and 151) 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 . . . . .	.145	Panel Jack Receptacles (Slotted contact) . . . . .	.150
Right Angle Cable Plugs . . . . .	.145	Panel Jack Receptacles (Post contact) . . . . .	.150
Panel Cable Jacks . . . . .	.146	PressMount Plug Receptacles . . . . .	.151
Bulkhead Cable Jacks . . . . .	.147	Panel Plug Receptacles (Solder pot contact) . . . . .	.151
VersaCom Combination Cable Connectors . . . . .	.148	Panel Plug Receptacles (Threaded contact) . . . . .	.151
PressMount Jack Receptacles . . . . .	.149	Panel Plug Receptacles (Tab contact) . . . . .	.152
Panel Jack Receptacles (Solder pot contact) . . . . .	.149	Panel Plug Receptacles (Slotted contact) . . . . .	.152
Panel Jack Receptacles (Threaded contact) . . . . .	.149	Panel Plug Receptacles (Post contact) . . . . .	.152
Panel Jack Receptacles (Tab contact) . . . . .	.150	Adapters Within and Between Series . . . . .	.153

## 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-D-1710.  
**Male Contacts:** Brass per ASTM-B-16.  
**Female Contacts:** Spring Brass per ASTM-B-16,  
 or phosphor bronze per ASTM-B-139  
**Contact Plating:** Silver per QQ-S-365, or Gold per MIL-G-45204.

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

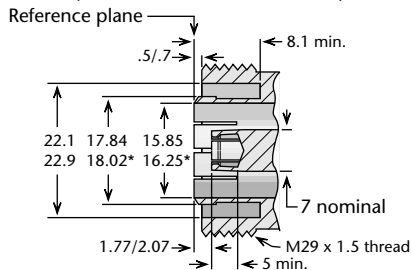
**Other Metal Parts:** Brass per ASTM-B-16,  
 plated Silver per  
 QQ-S-365.

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\*\*

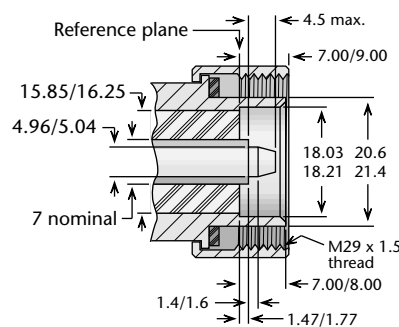
(All dimensions in millimeters.)



\* Dimensions before slotting.  
 Inner and outer contacts slotted and flared to meet performance requirements.

### Plug Interface\*\*

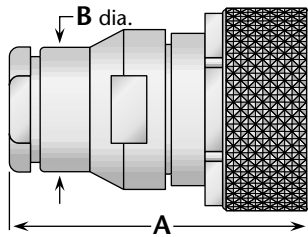
(All dimensions in millimeters.)



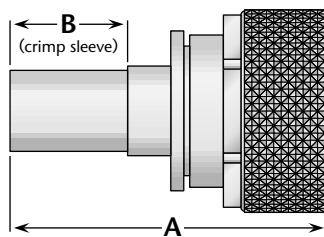
\*\*Some proportions altered to illustrate detail.



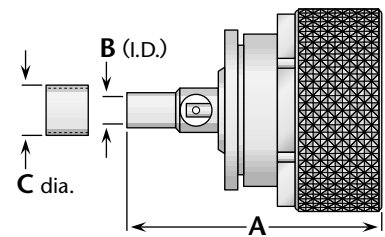
## Straight Plug—For Flexible and Semi-Rigid Cable



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



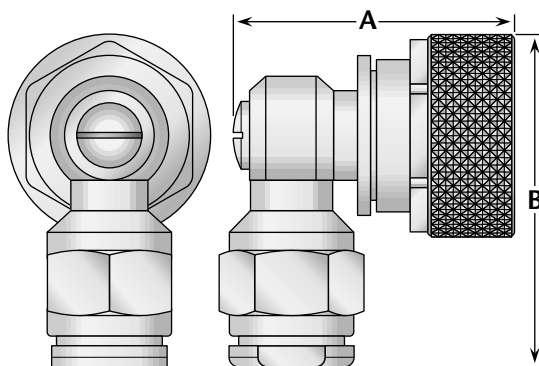
**Figure 2**  
(Crimp type for flexible cable)



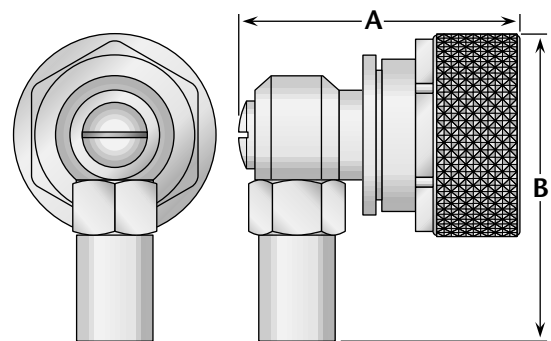
**Figure 3**  
(Solder type for semi-rigid cable)

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)



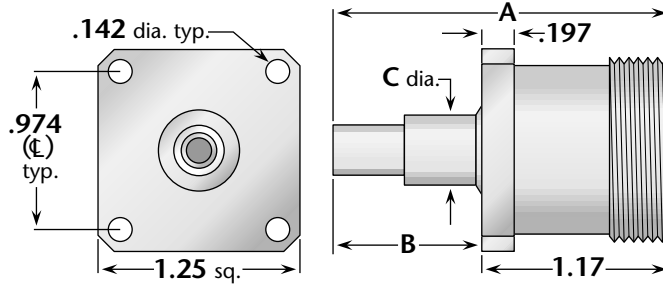
**Figure 2**  
(Crimp type for flexible cable)

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

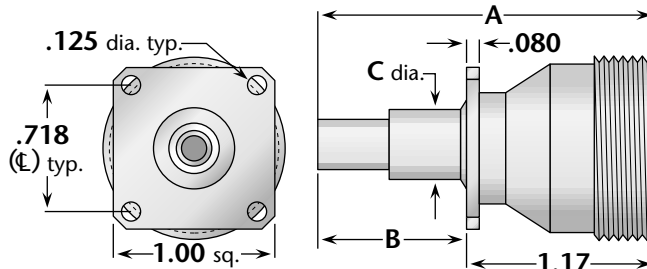
\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## Panel Mounted Jacks—For Flexible and Semi-Rigid Cable

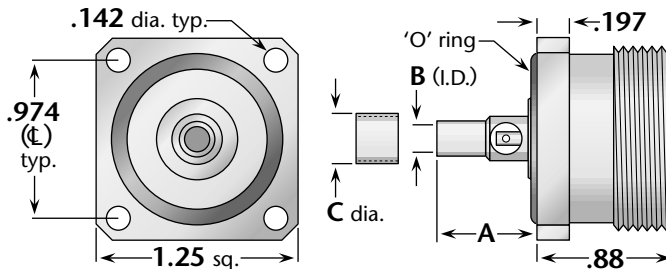
**Figure 1**  
(Crimp type for flexible cable,  
standard flange)



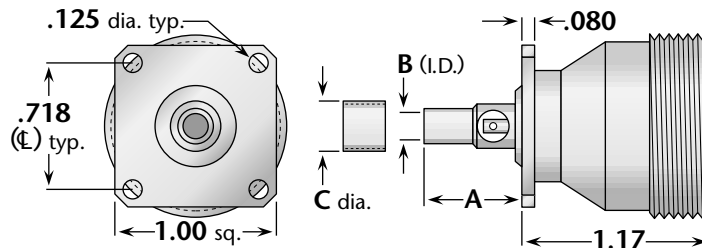
**Figure 2**  
(Crimp type for flexible cable,  
1" square flange; interchangeable  
with type N standard flange)



**Figure 3**  
(Solder type for semi-rigid cable,  
standard flange, with 'O' ring seal)



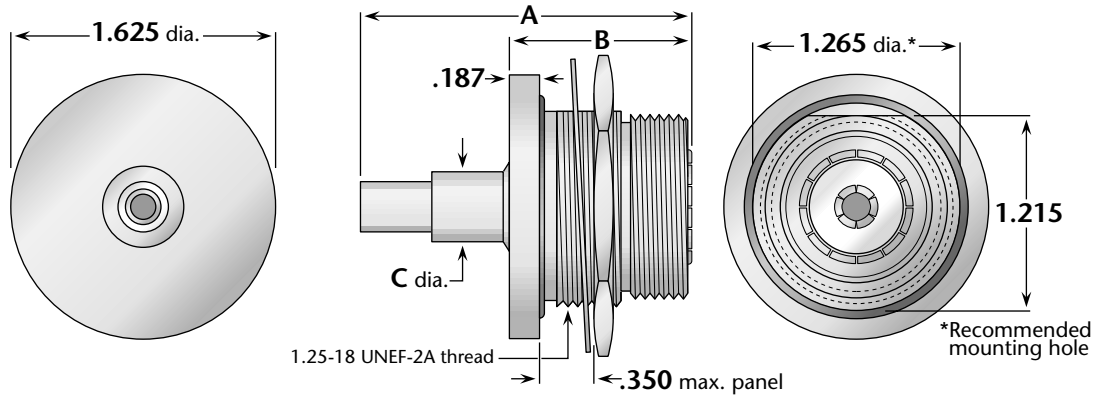
**Figure 4**  
(Solder type for semi-rigid cable,  
1" square flange; interchangeable  
with type N standard flange)



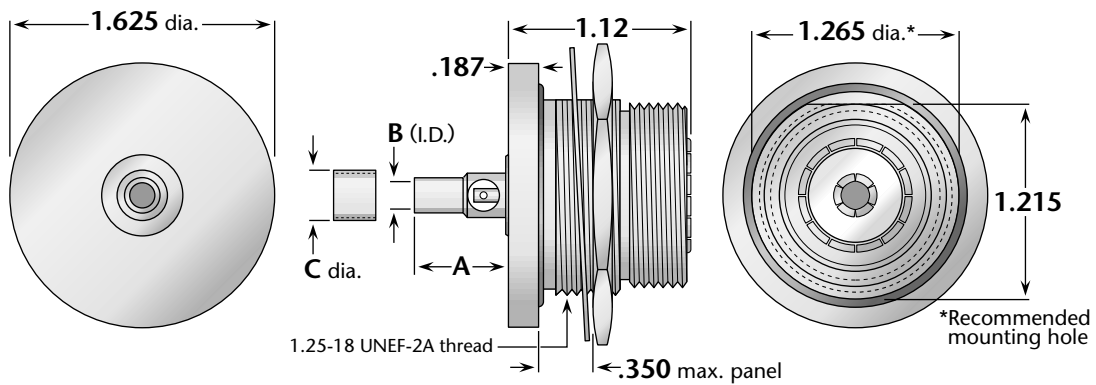
Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
3, 4	1	2.34	1.17	.625	Silver	Silver	9255-005-A911	B/19
6	1	2.21	1.04	.625	Silver	Silver	9255-015-A911	B/19
3, 4	2	2.34	1.17	.625	Silver	Silver	9255-005-A331	B/19
6	2	2.21	1.04	.625	Silver	Silver	9255-015-A331	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	***

(C) in contact plating column indicates captive contact. • \*\*\*Contact factory for cable assembly instructions.  
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)



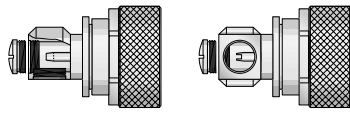
**Figure 2**  
(Solder type for semi-rigid cable)

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	***

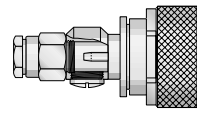
\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## The Delta Versatile Combination Connector System

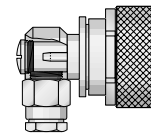
By purchasing VersaCom body assemblies and cable fittings, you can easily assemble straight or right angle connectors as needed—eliminating separate stocks of complete connectors with different body styles and cable attachments



Body assembly (plug type, side and bottom views)

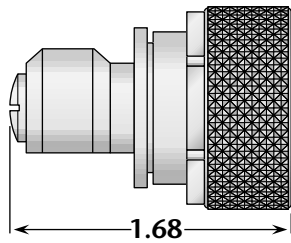


Body assembly and clamp type cable fitting, combined in straight configuration

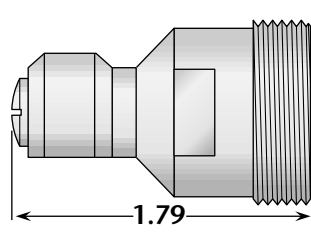


Same parts in right-angle configuration.

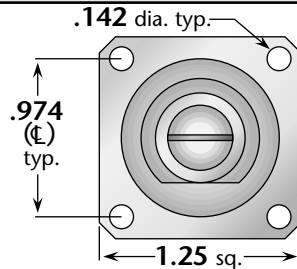
## VersaCom Body Assemblies



**Figure 1**



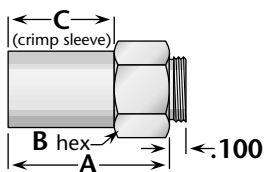
**Figure 2**



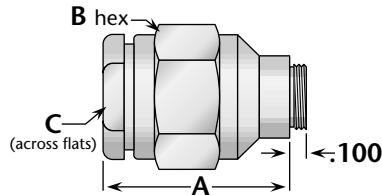
**Figure 3**

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

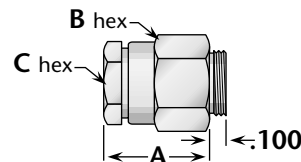
## Cable Fittings for VersaCom Connectors



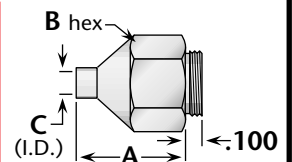
**Figure 1**  
(Crimp type for flexible cable)



**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)

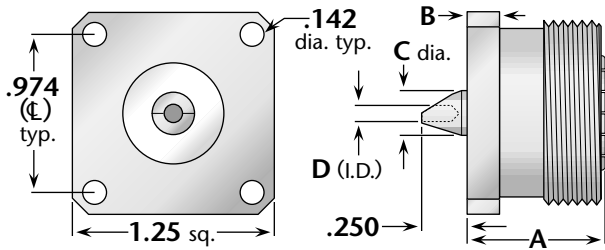


**Figure 4**  
(Direct solder for semi-rigid cable)

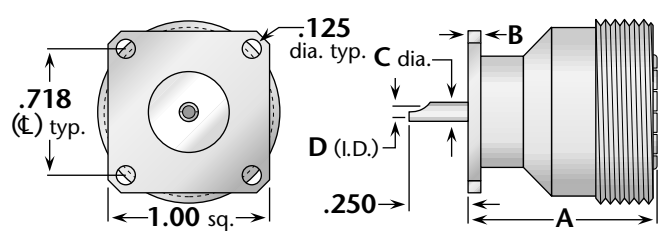
Cable Group	Figure	Dimensions			Plating	Delta P/N	Assembly Procedure/Trim Code
		A	B	C			
2	1	.96	.50	.63	Silver	10-10676-01-AG	B/31
2, 3	2	1.14	.75	.625	Silver	10-10681-01-AG	A/35
3, 4	1	.96	.50	.63	Silver	10-10677-01-AG	B/31
4	2	1.14	.75	.625	Silver	10-10682-01-AG	A/35
5, 6	3	.63	.50	.437	Silver	10-10683-01-AG	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	10-10681-01-AG	***
13	3	.63	.50	.437	Silver	10-10686-01-AG	***
13	4	.63	.50	.143	Silver	10-10688-01-AG	***

\*\*\*Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

## Jack Receptacles—Solder Pot Contact

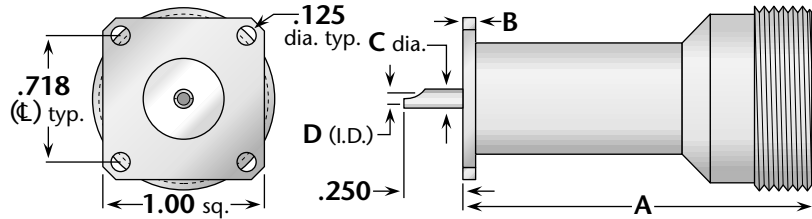


**Figure 1**  
(Standard flange)

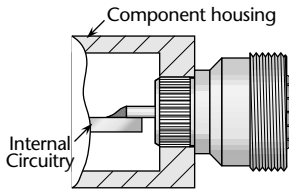


**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)

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

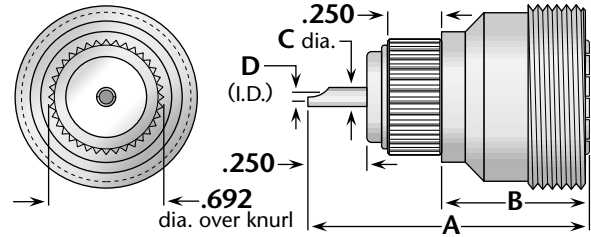


### Delta PressMount Receptacles



These connectors eliminate the need for complicated mounting hole patterns and mounting hardware.

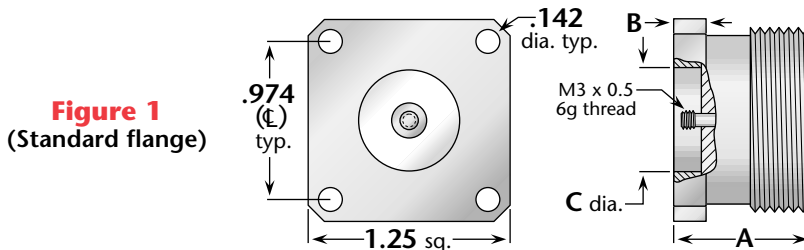
They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength greater than normal mating and unmating forces. An integral shoulder provides a positive stop when mounting.



**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



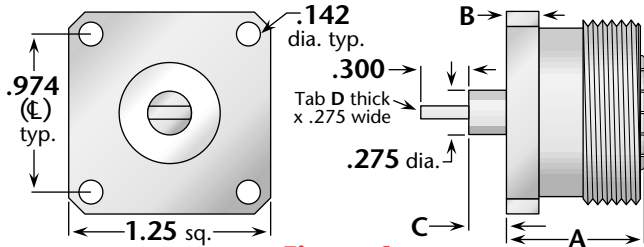
**Figure 1**  
(Standard flange)

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

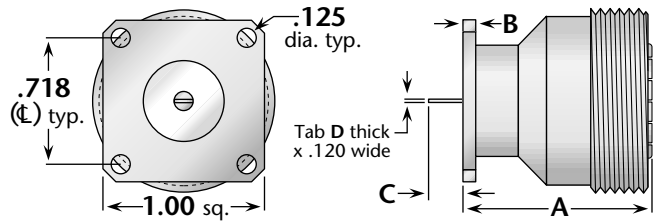
(C) in contact plating column indicates captive contact.

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



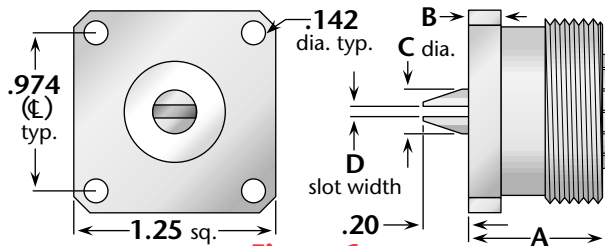
**Figure 1**  
(Standard flange)



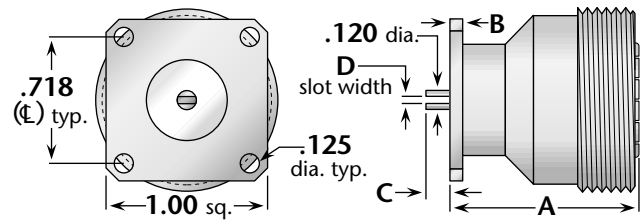
**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)

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)

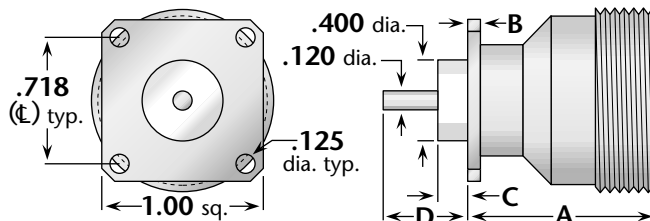
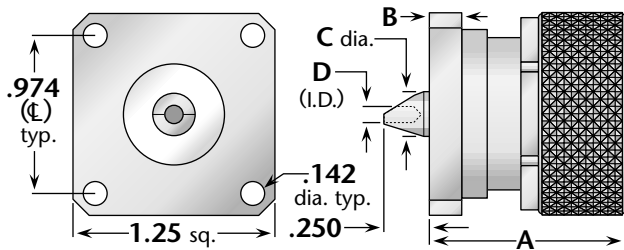


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.17	.080	.325	.500	33	Silver	Silver (C)	9258-000-A331-5
1	1.17	.080	.000	.750	33	Silver	Silver (C)	9258-000-A331-2
1	1.17	.080	.000	.562	33	Silver	Silver (C)	9258-000-A331-3

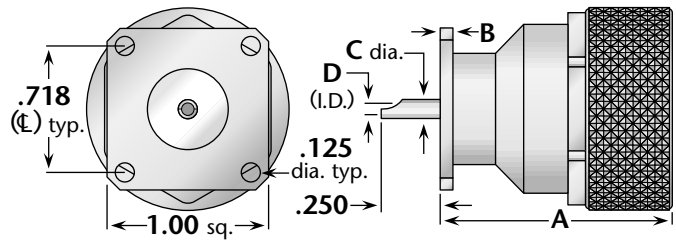
(C) in contact plating column indicates captive contact.

7/16 connectors with 1" square flanges have lower maximum power rating than standard-flange connectors—contact factory for details.

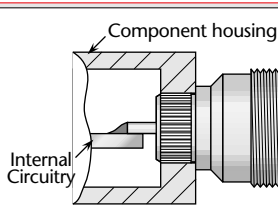
## Plug Receptacles—Solder Pot Contact



**Figure 1**  
(Standard flange)



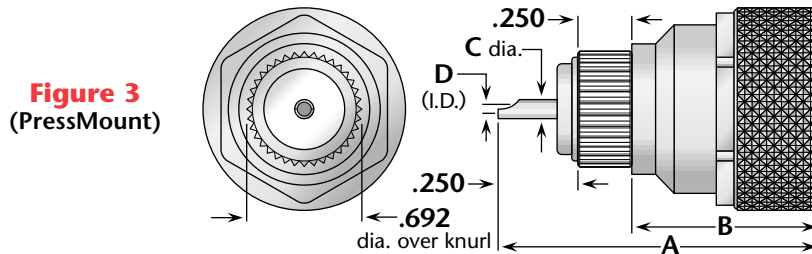
**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)



### Delta PressMount Receptacles

These connectors eliminate the need for complicated mounting hole patterns and mounting hardware.

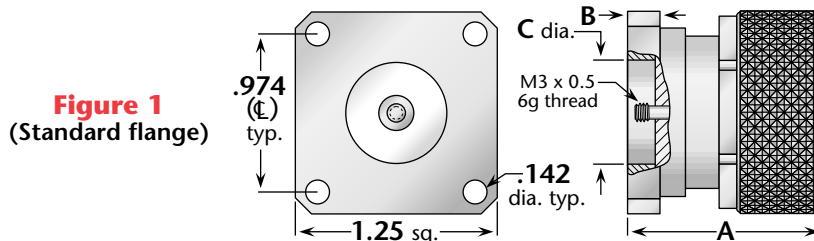
They are simply pressed into a single through hole, and the precisely-engineered knurled mounting section provides retention strength greater than normal mating and unmating forces. An integral shoulder provides a positive stop when mounting.



**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.

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)

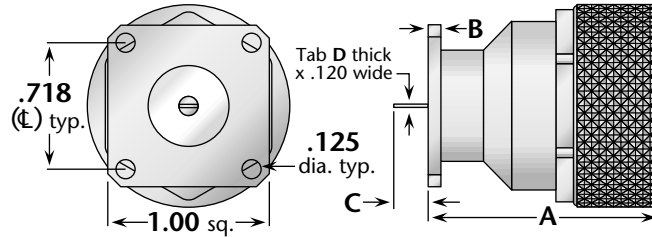
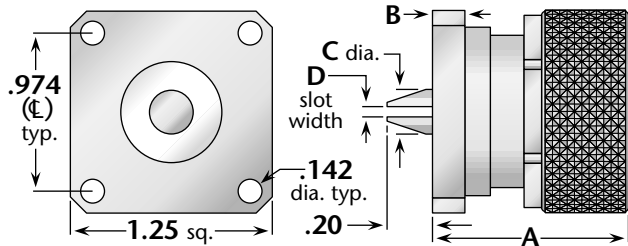
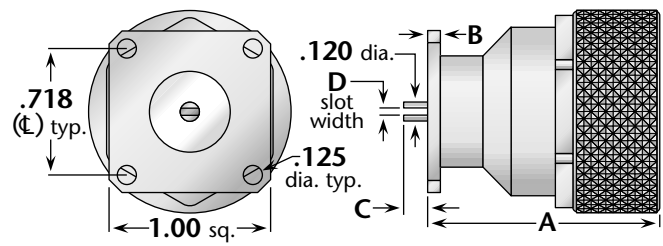


Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.40	.080	.100	.005/.008	33	Silver	Gold (C)	9259-000-A331

## Panel Plug Receptacle—Slotted Contact



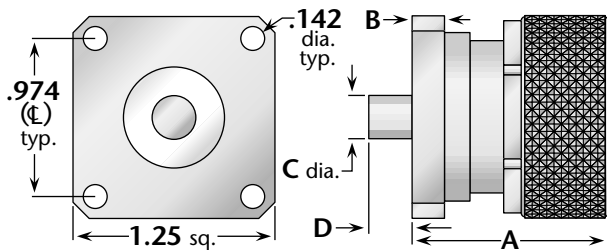
**Figure 1**  
(Standard flange)



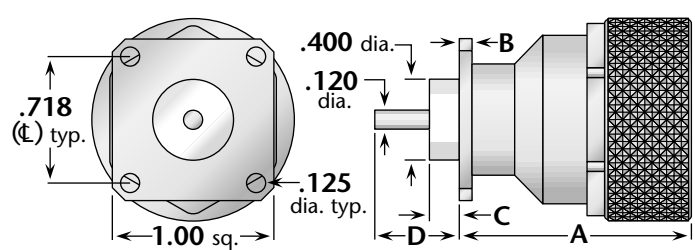
**Figure 2**  
(1" square flange, interchangeable with type N standard flange size)

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)

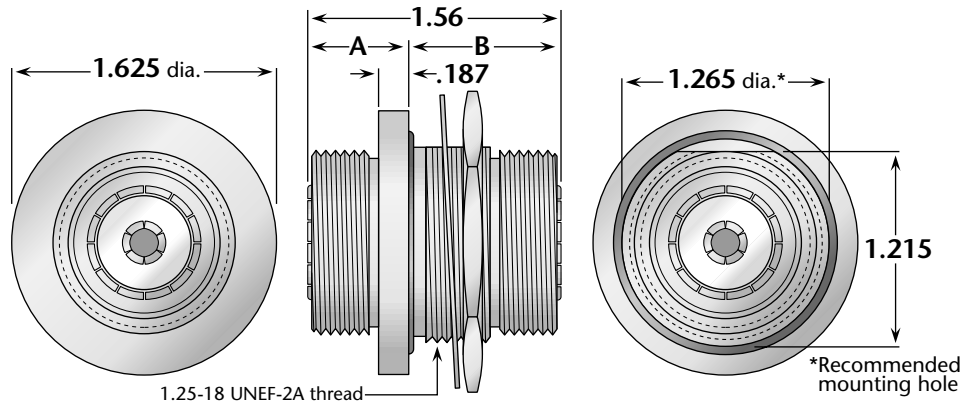
Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.21	.197	.274	.250	See above	Silver	Silver (C)	9259-000-A911-4
2	1.40	.080	.325	.500	33	Silver	Silver (C)	9259-000-A331-7
2	1.40	.080	.000	.562	33	Silver	Gold (C)	9259-000-A331-1

(C) in contact plating column indicates captive contact.

7/16 connectors with 1" square flanges have lower maximum power rating than standard-flange connectors—contact factory for details.



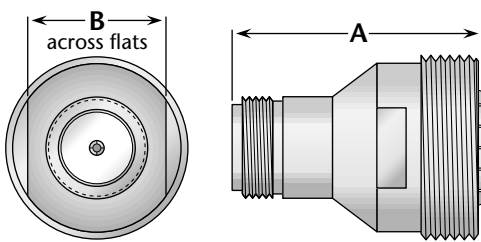
## Bulkhead Mounted Jack-Jack Adapter (Connects two plugs)



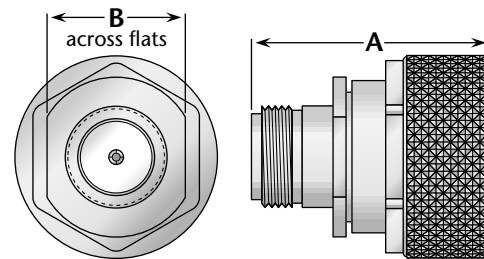
**Figure 1**

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

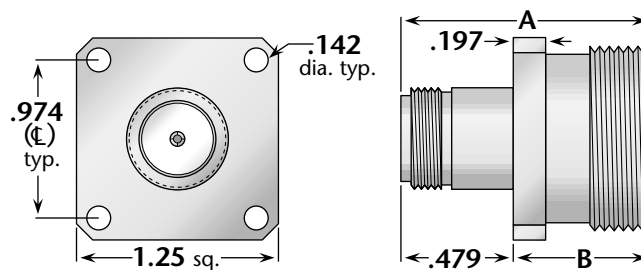
## 7/16 to N Adapters



**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.

## Adapter Finder

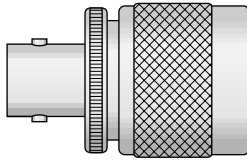
Adapters in this chart and on the following pages are listed in alphabetical order—to find an adapter that connects a TNC plug to a BNC jack, look under “BNC plug to TNC jack.” (Click on a page number to jump to that page.)

Left end:	Right end:	Delta P/N	Page
7/16 Plug	N Jack	2234-000-A001-122	153
7/16 Jack	N Jack	2228-000-A001-29	153
	N Jack	2225-000-A911-9	153
BNC Jack	C Plug	UG-636A/U	155
	HN Plug	UG-309/U	155
	N Jack	2225-000-N331-6	155
	N Jack	UG-606/U	155
	N Jack	M55339/25-00606	155
	N Jack	M55339/01-00001	155
	N Plug	UG-201A/U	155
	N Plug	M55339/20-00201	155
	SC Jack	2228-000-N000-9	155
	SC Plug	2234-000-N001-100	155
	TNC Jack	2234-000-N000-8	155
	TNC Plug	2234-000-N000-6	155
	UHF Plug	UG-273/U	155
	BNC Plug	C Jack	UG-635/U
HN Jack		2234-000-N001-10	156
HN Plug		2234-000-N004-10	156
N Jack		UG-349B/U	156
N Jack		M55339/49-00349	156
N Jack		UG-335A/U	156
N Jack		M55339/24-00335	156
N Plug		UG-1034/U	156
N Plug		M55339/18-01034	156
SC Plug		2227-000-N000-4	156
TNC Jack		2234-000-N000-9	156
TNC Plug		2234-000-N000-7	156
UHF Jack		UG-255A/U	156
C Jack		HN Plug	2234-000-N001-51
	N Plug	UG-564/U	157
	TNC Plug	2234-000-N000-10	157
	UHF Plug	UG-637/U	157
C Plug	HN Jack	UG-703A/U	157
	N Jack	UG-565A/U	157
	TNC Jack	2234-000-N000-11	157

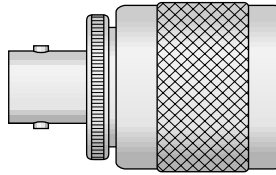
  

Left end:	Right end:	Delta P/N	Page	
G874	Any	see pages	39-40	
HN Jack	N Jack	2228-000-N001-22	158	
	N Jack	2225-000-N401	158	
	N Plug	UG-1108/U	158	
HN Plug	N Jack	2234-000-N001-70	158	
	N Plug	UG-1107/U	158	
	TNC Plug	2234-000-N004-11	158	
LC Jack	N Plug	2234-000-N000-78	158	
N Jack	SC Jack	2228-000-N000-12	159	
	SC Plug	2234-000-N000-55	159	
	SMA Jack	2225-000-N331-5	159	
	SMA Jack	2226-000-N721-1	159	
	SMA Jack	2228-000-N00M-10	159	
	SMA Plug	2234-000-N331-3	159	
	TNC Jack	2225-000-N331-8	159	
	TNC Jack	2228-000-N001-2	159	
	TNC Plug	2234-000-N001-9	159	
	UHF Plug	UG-83B/U	159	
	N Plug	SC Jack	2234-000-N000-65	160
		SC Plug	2227-000-N000-3	160
SMA Plug		2234-000-N00M-39	160	
SMA Jack		2234-000-N001-4	160	
TNC Jack		2234-000-N001-7	160	
TNC Plug		2234-000-N000-12	160	
UHF Jack		UG-146A/U	160	
UHF Plug		2227-000-N000-16	160	
QDS series		Any	See page	84
SMA Jack	SMB Jack	2234-000-N001-78	161	
	SMB Plug	2228-000-N001-15	161	
	SMC Jack	2234-000-N001-121	161	
	SMC Plug	2234-000-N001-77	161	
SMA Plug	TNC Jack	2225-000-K071-2	161	
	SMB Jack	2234-000-N001-82	161	
	SMB Plug	2234-000-N000-69	161	
	SMC Jack	2234-000-N001-120	161	
	SMC Plug	2234-000-N001-81	161	

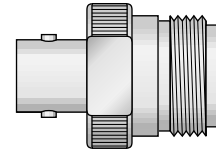
## Adapters—BNC Jack to Other Series



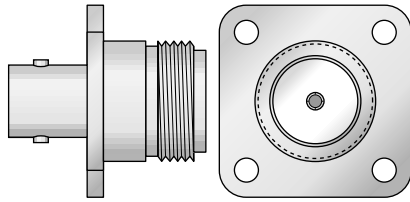
**Figure 1**  
(BNC jack-C plug)



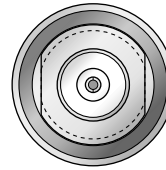
**Figure 2**  
(BNC jack-HN plug)



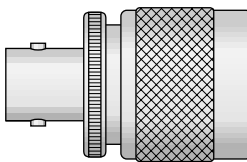
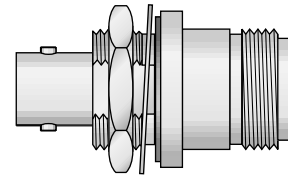
**Figure 3**  
(BNC jack-N jack)



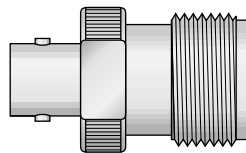
**Figure 4**  
(BNC jack-N jack)



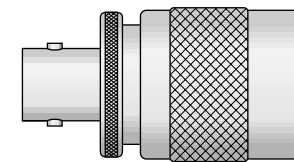
**Figure 5**  
(BNC jack-N jack)



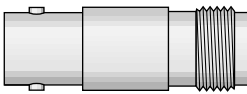
**Figure 6**  
(BNC jack-N plug)



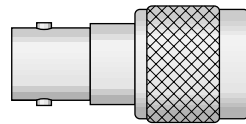
**Figure 7**  
(BNC jack-SC jack)



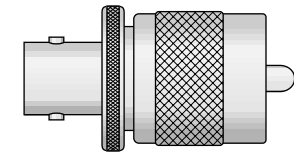
**Figure 8**  
(BNC jack-SC plug)



**Figure 9**  
(BNC jack-TNC jack)



**Figure 10**  
(BNC jack-TNC plug)

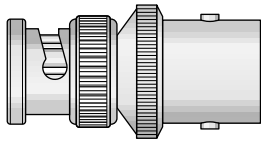


**Figure 11**  
(BNC jack-UHF plug)

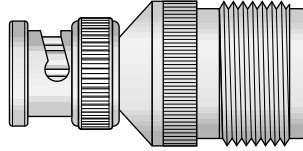
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	BNC jack-C plug	1.23	None	Nickel	Silver (C)	UG-636A/U
2	BNC jack-HN plug	1.50	None	Nickel	Silver (C)	UG-309/U
3	BNC jack-N jack	1.13	None	Silver	Gold (C)	M55339/01-00001
4	BNC jack-N jack	1.39	33	Nickel	Silver (C)	2225-000-N331-6
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

(C) in contact plating column indicates captive contact.

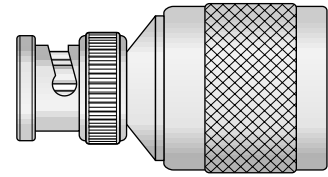
## Adapters—BNC Plug to Other Series



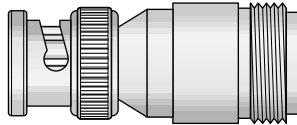
**Figure 1**  
(BNC plug-C jack)



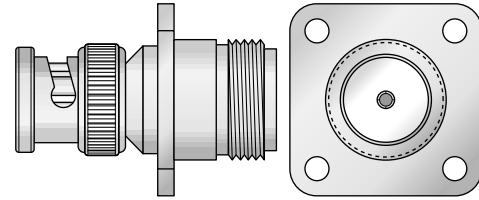
**Figure 2**  
(BNC plug-HN jack)



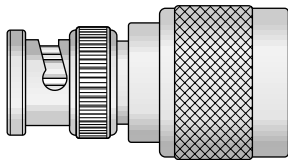
**Figure 3**  
(BNC plug-HN plug)



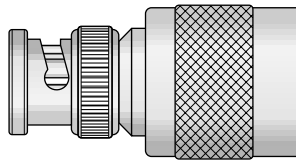
**Figure 4**  
(BNC plug-N jack)



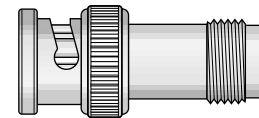
**Figure 5**  
(BNC plug-N jack)



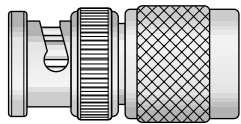
**Figure 6**  
(BNC plug-N plug)



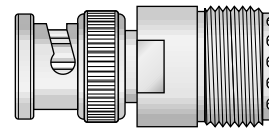
**Figure 7**  
(BNC plug-SC plug)



**Figure 8**  
(BNC plug-TNC jack)



**Figure 9**  
(BNC plug-TNC plug)

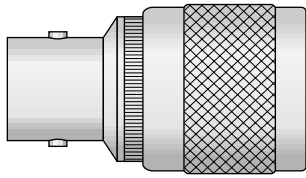


**Figure 10**  
(BNC plug-UHF jack)

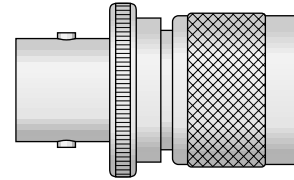
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	BNC plug-C jack	1.27	None	Nickel	Silver (C)	UG-635/U
2	BNC plug-HN jack	1.58	None	Nickel	Silver (C)	2234-000-N001-10
3	BNC plug-HN plug	1.58	None	Nickel	Silver (C)	2234-000-N004-10
4	BNC plug-N jack	1.47	None	Nickel	Silver (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

(C) in contact plating column indicates captive contact.

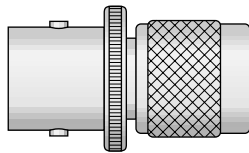
## Adapters—C Jack to Other Series



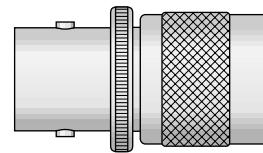
**Figure 1**  
(C jack-HN plug)



**Figure 2**  
(C jack-N plug)



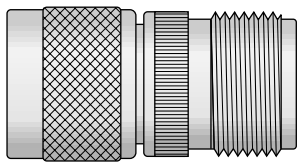
**Figure 3**  
(C jack-TNC plug)



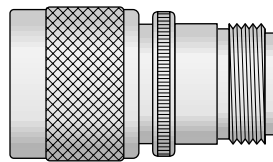
**Figure 4**  
(C jack-UHF plug)

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

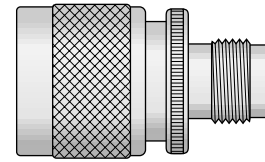
## Adapters—C Plug to Other Series



**Figure 1**  
(C plug-HN jack)



**Figure 2**  
(C plug-N jack)

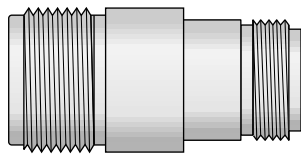


**Figure 3**  
(C plug-TNC jack)

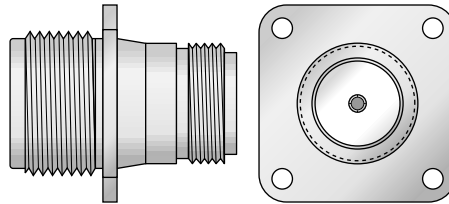
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	C plug-HN jack	1.46	None	Nickel	Silver (C)	UG-703A/U
2	C plug-N jack	1.53	None	Nickel	Silver (C)	UG-565A/U
3	C plug-TNC jack	1.23	None	Nickel	Silver (C)	2234-000-N000-11

(C) in contact plating column indicates captive contact.

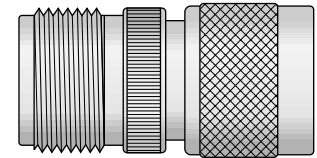
## Adapters—HN Jack to Other Series



**Figure 1**  
(HN jack-N jack)



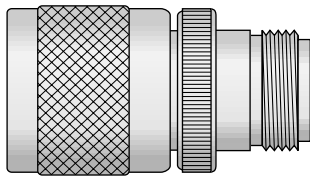
**Figure 2**  
(HN jack-N jack)



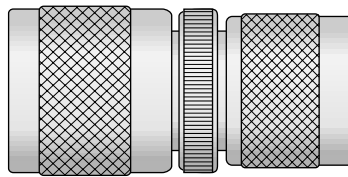
**Figure 3**  
(HN jack-N plug)

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

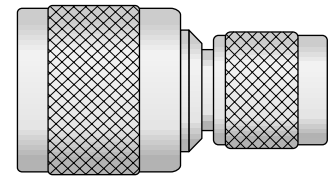
## Adapters—HN Plug to Other Series



**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)

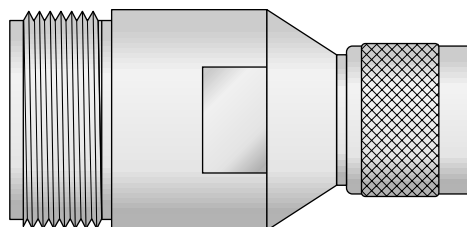
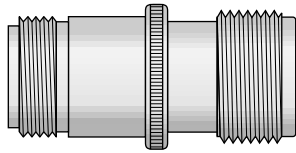


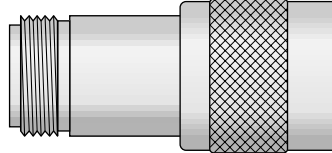
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	LC jack-N plug	2.39	None	Nickel	Silver (C)	2234-000-N000-78

(C) in contact plating column indicates captive contact.

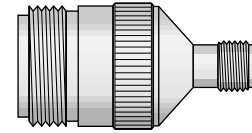
## Adapters—N Jack to Other Series



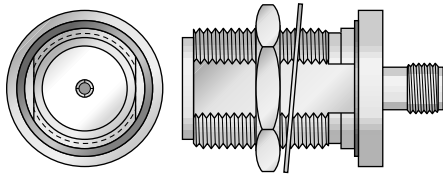
**Figure 1**  
(N jack-SC jack)



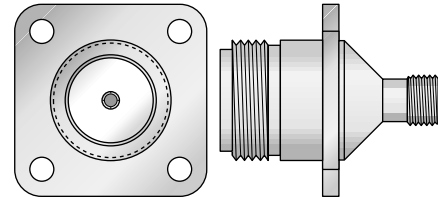
**Figure 2**  
(N jack-SC plug)



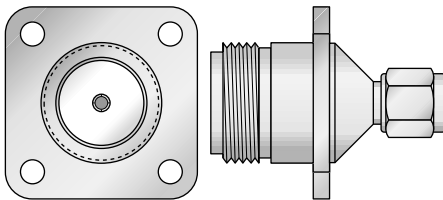
**Figure 3**  
(N jack-SMA jack)



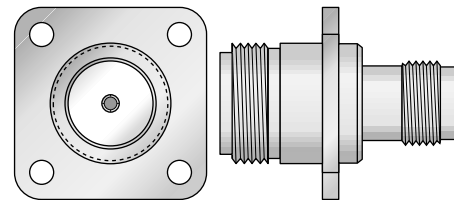
**Figure 4**  
(N jack-SMA jack)



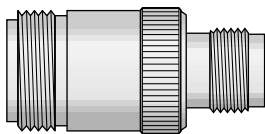
**Figure 5**  
(N jack-SMA jack)



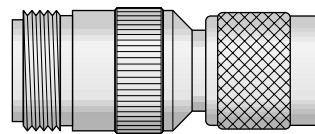
**Figure 6**  
(N jack-SMA plug)



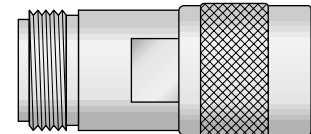
**Figure 7**  
(N jack-TNC jack)



**Figure 8**  
(N jack-TNC jack)



**Figure 9**  
(N jack-TNC plug)

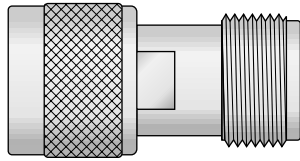


**Figure 10**  
(N jack-UHF plug)

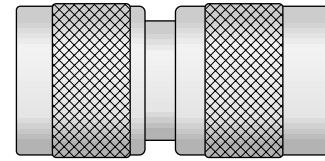
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	N jack-SC jack	1.63	None	Nickel	Silver (C)	2228-000-N000-12
2	N jack-SC plug	1.53	None	Nickel	Silver (C)	2234-000-N000-55
3	N jack-SMA jack	1.24	None	Nickel	Gold (C)	2228-000-N00M-10
4	N jack-SMA jack	1.26	72	Nickel	Gold (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

(C) in contact plating column indicates captive contact.

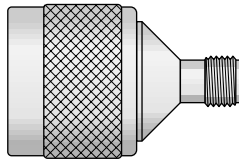
## Adapters—N Plug to Other Series



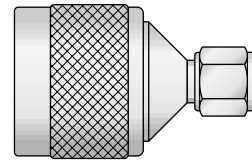
**Figure 1**  
(N plug-SC jack)



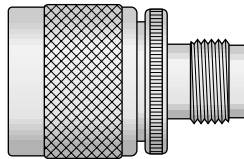
**Figure 2**  
(N plug-SC plug)



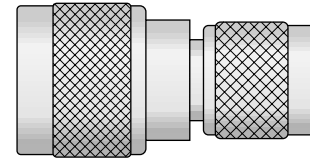
**Figure 3**  
(N plug-SMA jack)



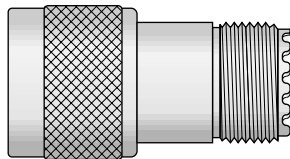
**Figure 4**  
(N plug-SMA plug)



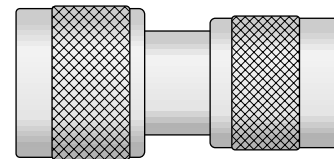
**Figure 5**  
(N plug-TNC jack)



**Figure 6**  
(N plug-TNC plug)



**Figure 7**  
(N plug-UHF jack)



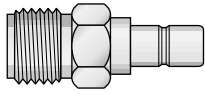
**Figure 8**  
(N plug-UHF plug)

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	Gold (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

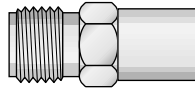
(C) in contact plating column indicates captive contact.



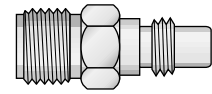
## Adapters—SMA Jack to Other Series



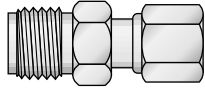
**Figure 1**  
(SMA jack-SMB jack)



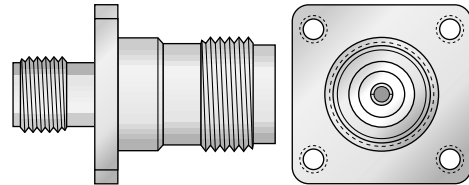
**Figure 2**  
(SMA jack-SMB plug)



**Figure 3**  
(SMA jack-SMC jack)



**Figure 4**  
(SMA jack-SMC plug)

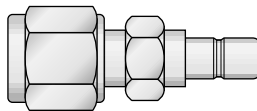


**Figure 5**  
(SMA jack-TNC jack)

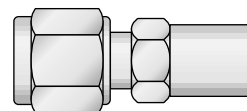
Figure	Adapter Ends	Length	Mounting Figure	Plating		Delta P/N
				Body	Contact	
1	SMA jack-SMB jack	.65	None	Nickel	Gold (C)	2234-000-N001-78
2	SMA jack-SMB plug	.64	None	Nickel	Gold (C)	2228-000-N001-15
3	SMA jack-SMC jack	.65	None	Nickel	Gold (C)	2234-000-N001-121
4	SMA jack-SMC plug	.69	None	Nickel	Gold (C)	2234-000-N001-77
5	SMA jack-TNC jack	1.00	07	PSS*	Gold (C)	2225-000-K071-2

\* Passivated stainless steel.

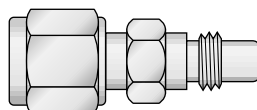
## Adapters—SMA Plug to Other Series



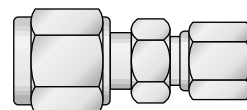
**Figure 1**  
(SMA plug-SMB jack)



**Figure 2**  
(SMA plug-SMB plug)



**Figure 3**  
(SMA plug-SMC jack)

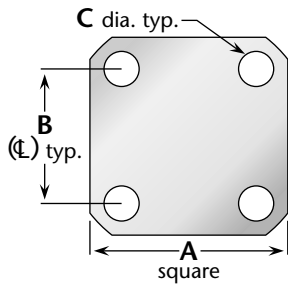


**Figure 4**  
(SMA plug-SMC plug)

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

(C) in contact plating column indicates captive contact.

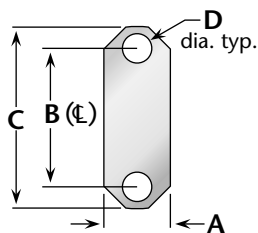
## Connector Flanges (Panel mounted connectors)



### 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

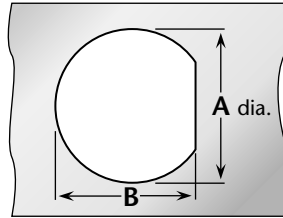
\* Countersunk to .245 dia.



### 2-hole flanges

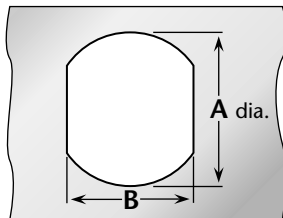
Figure	A	B	C	D
92	.223	.481	.625	.102
92A	.260	.481	.625	.102
95	.640	1.015	1.30	.125

## Panel Cutouts (Bulkhead mounted connectors)



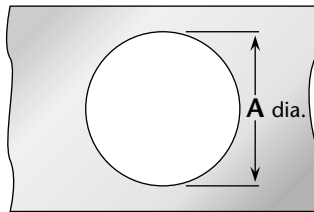
### D-Hole

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

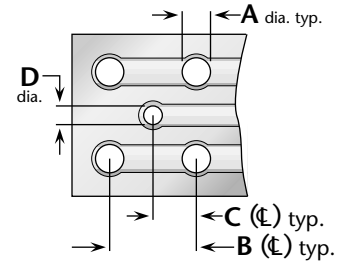
Figure	A	B
69	.755	.692
72	.630	.536
75	.380	.341
84	.319	.278



### Round Hole

Figure	A
82	.255
89	.380

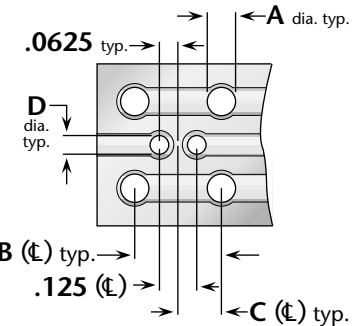
## P.C. Board Drilling



(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



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

### Twinax connectors

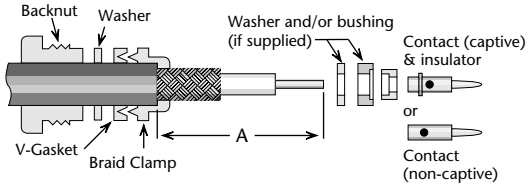
Figure	A	B	C	D
PCB04	.045	.500	.250	.045

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

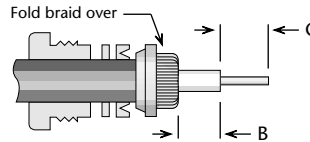
Cable Group Finder			
Cable	Group	Cable	Group
RG-5, 5A, B	1A	RG-225	3C
RG-6, 6A	1B	RG-228A	20
RG-8, 8A	2A	RG-302	22
RG-9, 9A, B	3A	RG-303	23
RG-10	15	RG-304	24
RG-11, 11A	2B	RG-316	9A
RG-12	15	RG-316DS	10
RG-13A	3B	RG-393	4
RG-14A	16	RG-400	6A
RG-17A	17	RG-401	12
RG-18A	18	RG-402	13
RG-21, 21A	1A	RG-405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

## Assembly Procedure A

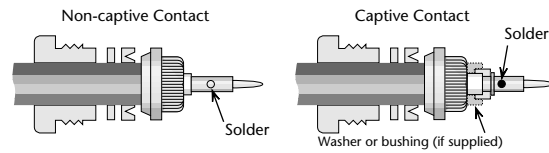
- 1)** Trim cable jacket to dimension A. Slide backnut, washer, V-gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.



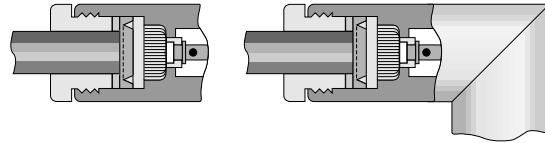
- 2)** Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with step of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.



- 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.

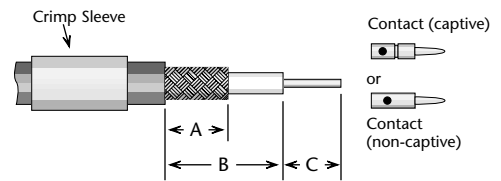


### Trim Codes For Assembly Procedure A

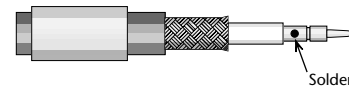
Code	A	B	C	Code	A	B	C
A/01	.375 (3/8)	.047 (3/64)	.203 (13/64)	A/19	.375 (3/8)	.188 (3/16)	.094 (3/32)
A/02	.375 (3/8)	.109 (7/64)	.203 (13/64)	A/20	.375 (3/8)	.047 (3/64)	.172 (11/64)
A/03	.438 (7/16)	.250 (1/4)	.188 (3/16)	A/21	.500 (1/2)	.313 (5/16)	.172 (11/64)
A/04	.281 (9/32)	.047 (3/64)	.125 (1/8)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

## Assembly Procedure B

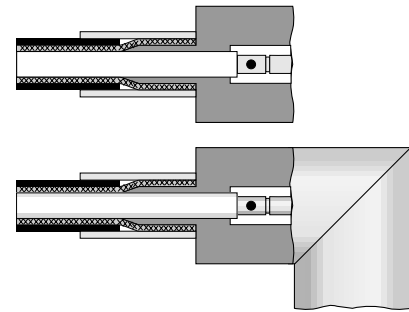
- 1)** Trim cable per chart. Slide crimp sleeve back onto cable.



- 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 176 for hex die sizes).

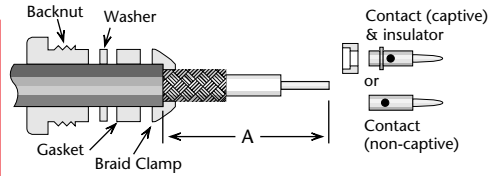
For right angle or tee connectors with access caps, solder center conductor into contact slot, then press cap into body until seated or screw into place.

### Trim Codes For Assembly Procedure B

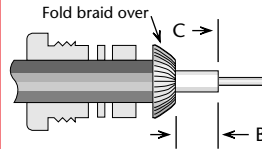
Code	A	B	C	Code	A	B	C
B/01	.320	.470	.140	B/16	.312	.609	.125
B/02	.422	.578	.172	B/17	.250	.500	.156
B/03	.406	.500	.187	B/18	.437	.562	.109
B/04	.285	.505	.140	B/19	.343	.437	.156
B/05	.335	.460	.140	B/20	.250	.375	.156
B/06	.187	.437	.219	B/21	.425	.550	.156
B/07	.422	.610	.156	B/22	.375	.500	.156
B/08	.422	.562	.219	B/23	.281	.469	.125
B/09	.313	.610	.203	B/24	.250	.700	.109
B/10	.280	.436	.187	B/25	.343	.775	.125
B/11	.430	.542	.156	B/26	.266	.330	.187
B/12	.300	.434	.156	B/27	.313	.437	.187
B/13	.300	.447	.156	B/28	.219	.271	.078
B/14	.420	.645	.187	B/29	.200	.320	.060
B/15	.300	.420	.120	B/30	.500	.650	.219
				B/31	.350	.840	.150

## Assembly Procedure C

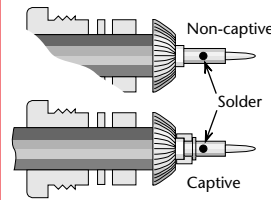
Trim Codes			
Code	A	B	C
C/01	.656 (21/32)	.141 (9/64)	.250 (1/4)
C/02	.500 (1/2)	.125 (1/8)	.250 (1/4)
C/03	.450	.136	.187
C/04	.375 (3/8)	.109 (7/64)	.125 (1/8)
C/05	.375 (3/8)	.062 (1/16)	.250 (1/4)
C/06	.500 (1/2)	.188 (3/16)	.125 (1/8)
C/07	.575	.438	.094
C/08	.625 (5/8)	.141 (9/64)	.219 (7/32)



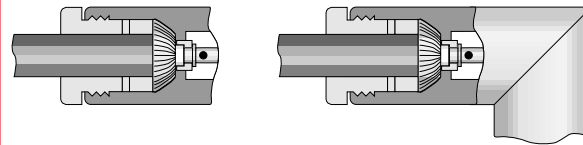
**1)** Trim cable jacket to dimension A. Slide backnut, washer, gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.



**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.

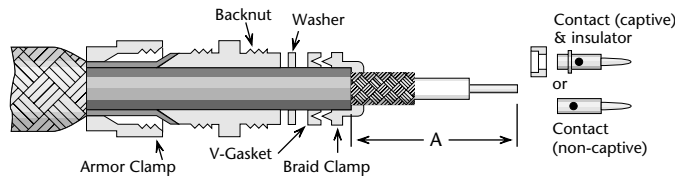


**3)** If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Assemble rear insulator (if captive contact) and contact, and solder contact to center conductor. Rear of contact should be flush with cable dielectric end.

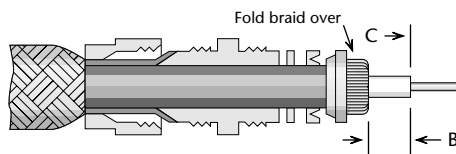


**4)** Insert prepared cable and hardware into body and tighten backnut. For right angle connectors with access cap, solder cable center conductor to slot in contact and tighten access cap.

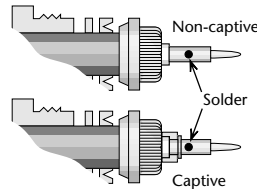
## Assembly Procedure D



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

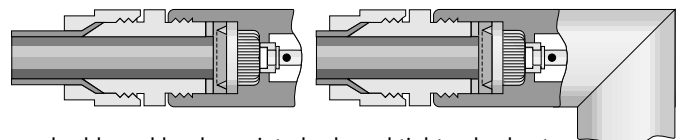


**2)** Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with edge of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.



**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.

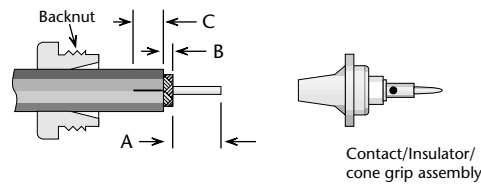
Trim Codes			
Code	A	B	C
D/01	.375 (3/8)	.047 (3/64)	.250 (1/4)
D/02	.500 (1/2)	.188 (3/16)	.219 (7/32)
D/03	.344 (11/32)	.047 (3/64)	.219 (7/32)
D/04	.313 (5/16)	.047 (3/64)	.172 (11/64)
D/05	.625 (5/8)	.281 (9/32)	.250 (1/4)
D/06	.313 (5/16)	.062 (1/16)	.109 (7/64)



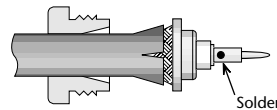
**4)** Insert prepared cable and hardware into body and tighten backnut. Trim armor to fit between armor clamp and braid clamp. Tighten armor clamp.

## Assembly Procedure E

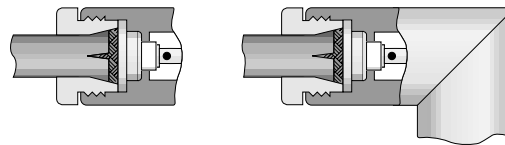
Trim Codes			
Code	A	B	C
E/01	.250 (1/4)	.141 (9/64)	.313 (5/16)
E/02	.219 (7/32)	.063 (1/16)	.250 (1/4)
E/03	.250 (1/4)	.031 (1/32)	.250 (1/4)



- 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.



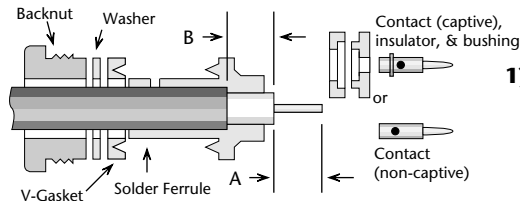
- 2) Slide cone/insulator/contact assembly under braid until braid is flush with shoulder. Solder contact to center conductor.



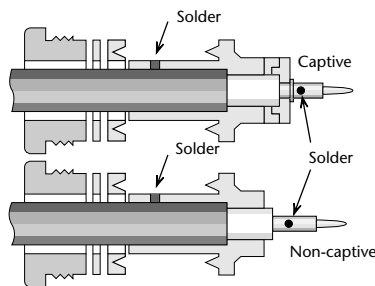
- 3) Insert prepared cable and hardware into body; tighten assembly by holding nut stationary and turning body.

## Assembly Procedure F

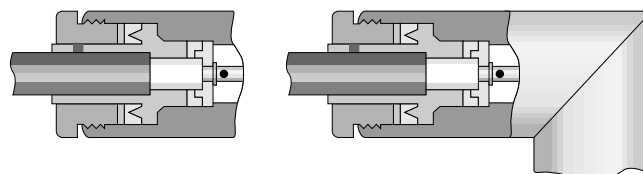
Trim Codes		
Code	A	B
F/01	.250 (1/4)	.219 (7/32)
F/02	.250 (1/4)	.172 (11/64)
F/03	.188 (3/16)	.188 (3/16)
F/04	.109 (7/64)	.265 (17/64)
F/05	.156 (5/32)	.250 (1/4)
F/06	.219 (7/32)	.250 (1/4)
F/07	.156 (5/32)	.172 (11/64)
F/08	.109 (7/64)	.219 (7/32)



- 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.

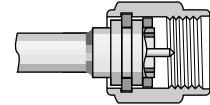
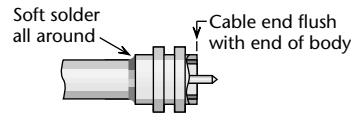
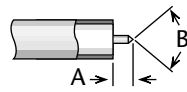
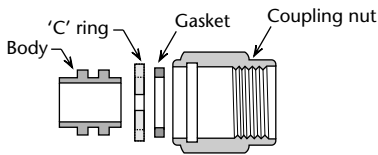


- 2) Solder ferrule to cable jacket as shown. Retrim cable dielectric to proper length if it has extruded from soldering heat. Slide bushing and rear insulator over cable dielectric if captive contact. Solder contact onto center conductor; back of contact flush with trimmed end of cable dielectric.



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

## Assembly Procedure G



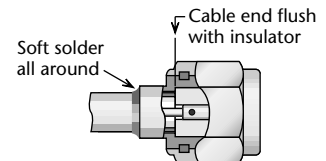
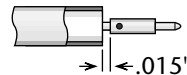
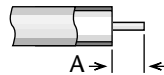
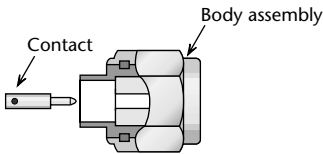
Trim Codes		
Code	A	B
G/01	.090	70-90°

**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

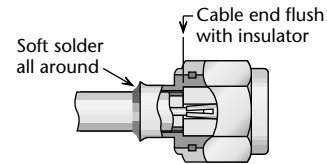
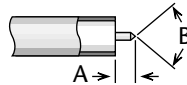
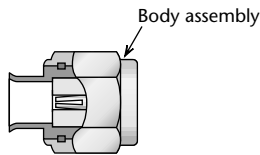
**1) Trim cable as shown.**  
Remove any burrs from jacket and center conductor.

**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.

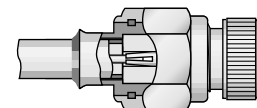
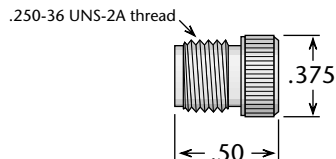
**2) Insert cable into body and solder cable jacket to body,** keeping end of cable flush with insulator as shown.

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

## Cable Positioner

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

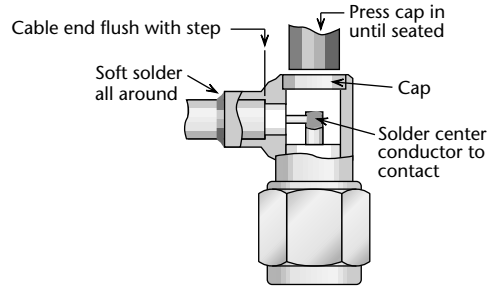
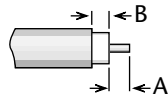
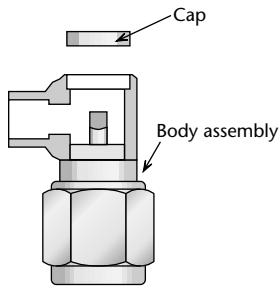
For .141" Cable:  
P/N 63-10072-1



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



## Assembly Procedure J

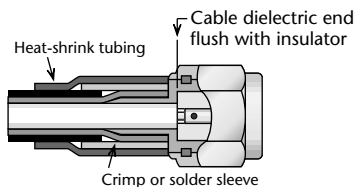
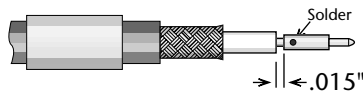
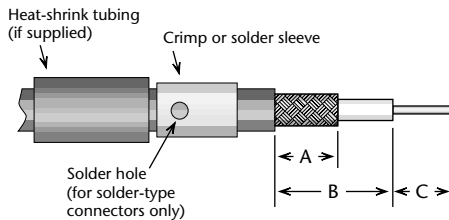


Trim Codes		
Code	A	B
J/01	.109 (7/64)	.047 (3/64)

**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 notch in contact. Press cap into opening in rear of body.

## Assembly Procedure K



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

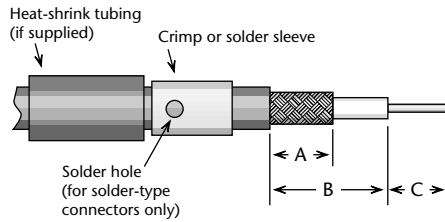
**2)** Solder contact onto center conductor, fixturing to maintain gap as shown. Flare cut end of braid slightly by rotating dielectric.

**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 176 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.

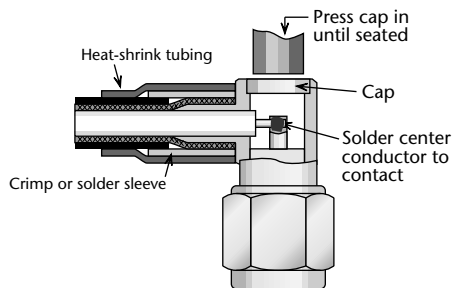
Plug body assembly and contact shown; procedure is identical for jack connectors.

Trim Codes			
Code	A	B	C
K/01	.250	.270	.110
K/02	.200	.270	.140
K/03	.225	.290	.110
K/04	.225	.330	.110

## Assembly Procedure L



**1)** Trim cable per chart. Slide crimp (or solder) sleeve and heat-shrink tubing (if supplied) back 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. Trim excess braid wires even with shoulder of body.

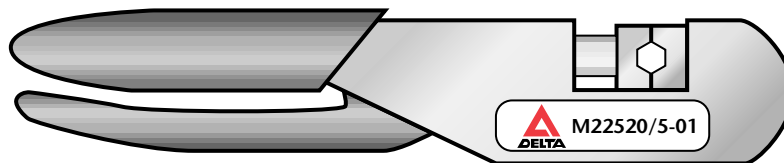
Slide crimp sleeve forward until flush with body and crimp (see page 176 for hex die sizes). (For solder-type connectors, solder braid to body and sleeve through hole in sleeve.)

Slide heat-shrink tubing into place and shrink with hot-air gun.

Solder center conductor into contact slot. Press cap into opening in rear of body.

Trim Codes			
Code	A	B	C
L/01	.250	.438	.109
L/02	.125	.219	.109
L/03	.234	.344	.109

## Crimp Tools for Flexible Cable



Frame only—P/N M22520/5-01—Use with interchangeable dies listed below.			
For Cable Group(s)	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

## Quick Index Navigation

Click on a page number below to jump directly to the index page that contains the Delta part number you want to find. Once on the index page, click on the part number to go to the catalog page for that connector.

Or, use Acrobat's "find" command and type the Delta or UG number to go directly to the catalog page. Note: UG numbers must be entered in the following format, with no spaces: UG-567A/U

<b>Delta P/N . . . . .</b>	<b>through P/N . . . . .</b>	<b>Page</b>
10-10676-01-AG . . . . .	1007-019-N000-1 . . . . .	172
1008-004-N000 . . . . .	1020-000-F59G . . . . .	173
1020-000-N911-1 . . . . .	1103-079-N000 . . . . .	174
1104-027-N001 . . . . .	1116-004-N720-1 . . . . .	175
1116-004-N725 . . . . .	1151-000-N000-11 . . . . .	176
1155-013-N331 . . . . .	1204-004-N000 . . . . .	177
1204-004-N001 . . . . .	1212-000-N070 . . . . .	178
1212-000-N070 . . . . .	1232-000-N00A . . . . .	179
1232-000-N00C . . . . .	1305-094-G003-3 . . . . .	180
1305-094-K003-5 . . . . .	1320-000-K911-2 . . . . .	181
1320-000-K911-3 . . . . .	1358-000-G051-19 . . . . .	182
1358-000-G051-34 . . . . .	1359-000-G911-15 . . . . .	183
1359-000-G911-23 . . . . .	1604-005-N000 . . . . .	184
1604-006-N000 . . . . .	1963-000-N330 . . . . .	185
2001-070-N000 . . . . .	2234-000-N000-69 . . . . .	186
2234-000-N000-78 . . . . .	2503-038-N000 . . . . .	187
2503-100-G000 . . . . .	3816-015-Q511-1 . . . . .	188
3831-000-A00A . . . . .	7529-000-N000 . . . . .	189
7567-000-N13P-1 . . . . .	M39012/01B0008 . . . . .	190
M39012/02-0003 . . . . .	M55339/49-00349 . . . . .	191
MX-554/U . . . . .	UG-349B/U . . . . .	192
UG-352/U . . . . .	UG-909B/U . . . . .	193
UG-910/U . . . . .	UG-1413/U . . . . .	194

<b>Delta P/N</b>	<b>Page</b>	<b>Delta P/N . . . . .</b>	<b>Page</b>
10-10676-01-AG . . . . .	148	1003-013-N00E . . . . .	11
10-10677-01-AG . . . . .	148	1003-017-N000 . . . . .	11
10-10678-01-AG . . . . .	148	1003-017-N00E-2 . . . . .	11
10-10679-01-AG . . . . .	148	1003-019-N00E-2 . . . . .	11
10-10680-01-AG . . . . .	148	1003-020-N000-2 . . . . .	11
10-10681-01-AG . . . . .	148	1003-020-N000-5 . . . . .	11
10-10682-01-AG . . . . .	148	1003-020-N000-6 . . . . .	11
10-10683-01-AG . . . . .	148	1003-020-N001-5 . . . . .	11
10-10684-01-AG . . . . .	148	1003-020-N001-9 . . . . .	11
10-10685-01-AG . . . . .	148	1003-037-N000 . . . . .	11
10-10686-01-AG . . . . .	148	1004-001-N000 . . . . .	12
10-10688-01-AG . . . . .	148	1004-004-N000 . . . . .	12
1001-001-N000-1 . . . . .	10	1004-015-N001 . . . . .	12
1001-015-N001 . . . . .	10	1004-015-N005 . . . . .	13
1001-015-N005-3 . . . . .	11	1004-018-N005 . . . . .	13
1001-018-N005 . . . . .	11	1004-019-N005 . . . . .	13
1001-019-N005 . . . . .	11	1004-021-N000 . . . . .	12
1001-021-N001 . . . . .	10	1004-021-N001 . . . . .	12
1001-025-N003 . . . . .	10	1004-025-N003 . . . . .	12
1001-029-N001 . . . . .	10	1004-029-N005 . . . . .	13
1001-029-N005-1 . . . . .	11	1004-031-N003 . . . . .	12
1001-031-N003 . . . . .	10	1004-036-N000 . . . . .	12
1001-036-N000 . . . . .	10	1004-037-N005 . . . . .	13
1001-036-N001 . . . . .	10	1004-038-N005 . . . . .	13
1001-037-N005 . . . . .	11	1004-043-N000 . . . . .	12
1001-038-N000 . . . . .	10	1004-043-N005 . . . . .	13
1001-038-N005 . . . . .	11	1004-100-N005 . . . . .	13
1001-043-N000 . . . . .	10	1005-014-N000 . . . . .	12
1001-043-N001 . . . . .	10	1005-021-N000-1 . . . . .	12
1001-043-N005 . . . . .	11	1005-029-N000 . . . . .	12
1001-100-N005 . . . . .	11	1005-036-N000 . . . . .	12
1001-132-N000 . . . . .	10	1007-015-N000 . . . . .	13
1003-005-N000 . . . . .	11	1007-017-N000-3 . . . . .	13
1003-013-N000 . . . . .	11	1007-019-N000-1 . . . . .	13

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1008-004-N000 . . . . .	14	1011-038-N071 . . . . .	17
1008-015-N001 . . . . .	14	1011-038-N075 . . . . .	18
1008-015-N005 . . . . .	14	1011-043-N075 . . . . .	18
1008-018-N005-1 . . . . .	14	1011-100-N075 . . . . .	18
1008-019-N005 . . . . .	14	1013-000-F181 . . . . .	19
1008-021-N001 . . . . .	14	1013-000-N090 . . . . .	19
1008-025-N003 . . . . .	14	1013-000-N100 . . . . .	19
1008-029-N005 . . . . .	14	1013-000-N180 . . . . .	19
1008-031-N003 . . . . .	14	1013-000-N330 . . . . .	19
1008-036-N000 . . . . .	14	1015-000-N070 . . . . .	20
1008-036-N001 . . . . .	14	1015-000-N090 . . . . .	20
1008-037-N005 . . . . .	14	1015-000-N330 . . . . .	20
1008-038-N000 . . . . .	14	1016-004-N511 . . . . .	15
1008-038-N005-2 . . . . .	14	1016-015-N591 . . . . .	15
1008-043-N005 . . . . .	14	1016-015-N595 . . . . .	16
1008-100-N005 . . . . .	14	1016-018-N595 . . . . .	16
1010-013-N000 . . . . .	14	1016-019-N595 . . . . .	16
1010-017-N000-1 . . . . .	14	1016-021-N591 . . . . .	15
1010-020-N000 . . . . .	14	1016-025-N593 . . . . .	16
1010-020-N001-1 . . . . .	14	1016-029-N595 . . . . .	16
1011-001-N330 . . . . .	17	1016-031-N593 . . . . .	16
1011-004-N330 . . . . .	17	1016-036-N590 . . . . .	15
1011-015-N071 . . . . .	17	1016-036-N591 . . . . .	15
1011-015-N075 . . . . .	18	1016-037-N595 . . . . .	16
1011-018-N075 . . . . .	18	1016-038-N590 . . . . .	15
1011-019-N075 . . . . .	18	1016-038-N591 . . . . .	15
1011-021-N071 . . . . .	17	1016-038-N595-2 . . . . .	16
1011-025-N073 . . . . .	17	1016-043-N595 . . . . .	16
1011-029-N075 . . . . .	18	1016-100-N595-2 . . . . .	16
1011-031-N073 . . . . .	17	1017-014-N570 . . . . .	15
1011-036-N070 . . . . .	17	1019-013-N590 . . . . .	16
1011-036-N071 . . . . .	17	1019-016-N590 . . . . .	16
1011-037-N075 . . . . .	18	1019-020-N590 . . . . .	16
1011-038-N070 . . . . .	17	1020-000-F59G . . . . .	22

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1020-000-N911-1 . . . . .	24	1101-001-N001 . . . . .	56
1020-000-N911-2 . . . . .	24	1101-004-N005 . . . . .	57
1020-000-N911-13 . . . . .	24	1101-015-N001 . . . . .	56
1021-000-N591 . . . . .	22	1101-015-N005 . . . . .	57
1023-000-N330 . . . . .	20	1101-015-N005-1 . . . . .	57
1024-000-N651 . . . . .	22	1101-021-N001 . . . . .	56
1024-000-N911-4 . . . . .	24	1101-021-N005 . . . . .	57
1026-000-N591 . . . . .	26	1101-025-N003 . . . . .	58
1028-000-N001-3 . . . . .	26	1101-031-A003-8 . . . . .	58
1029-000-N000-3 . . . . .	27	1101-031-A003-12 . . . . .	58
1031-000-N000-4 . . . . .	25	1101-031-K00M . . . . .	58
1031-000-N00A-1 . . . . .	25	1101-031-N003 . . . . .	58
1031-000-N00A-3 . . . . .	25	1101-031-N003-1 . . . . .	58
1034-000-N000 . . . . .	27	1101-036-N000 . . . . .	56
1038-000-N000-2 . . . . .	27	1101-036-N001 . . . . .	56
1049-000-N000 . . . . .	27	1101-043-N001 . . . . .	56
1051-000-N000 . . . . .	25	1101-050-A003-7 . . . . .	58
1051-000-N00A-2 . . . . .	25	1101-050-N000 . . . . .	58
1051-000-N00A-5 . . . . .	25	1101-050-N003 . . . . .	58
1055-015-N091 . . . . .	18	1101-052-N005 . . . . .	57
1055-017-N091 . . . . .	18	1101-108-N005 . . . . .	57
1055-019-N091 . . . . .	18	1101-132-N000 . . . . .	56
1056-000-N000 . . . . .	23	1103-002-N000 . . . . .	57
1057-000-N000 . . . . .	23	1103-002-N001-9 . . . . .	57
1058-000-N04P . . . . .	23	1103-004-N001-1 . . . . .	57
1058-000-N04P-1 . . . . .	23	1103-005-N000 . . . . .	57
1058-000-N051 . . . . .	19	1103-013-N000 . . . . .	57
1058-000-N091 . . . . .	19	1103-017-N000 . . . . .	57
1058-000-N13P . . . . .	23	1103-017-N001 . . . . .	57
1058-000-N181-1 . . . . .	19	1103-018-N001 . . . . .	57
1063-000-N090 . . . . .	20	1103-020-N000 . . . . .	57
1067-000-N91P-1 . . . . .	23	1103-020-N001 . . . . .	57
1069-000-N03P . . . . .	23	1103-070-N000 . . . . .	57
1069-000-N13P . . . . .	23	1103-079-N000 . . . . .	57

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1104-027-N001 . . . . .	59	1111-015-N271 . . . . .	65
1104-032-N001 . . . . .	59	1111-015-N331 . . . . .	65
1105-004-N000 . . . . .	59	1111-015-N335 . . . . .	65
1105-015-N000 . . . . .	59	1111-015-N335-1 . . . . .	65
1105-015-N001 . . . . .	59	1111-021-N335 . . . . .	65
1105-021-N000 . . . . .	59	1111-025-A091-1 . . . . .	66
1105-036-N001 . . . . .	59	1111-025-A333-2 . . . . .	66
1107-002-N000 . . . . .	59	1111-025-N333 . . . . .	66
1107-002-N000-1 . . . . .	59	1111-027-N331 . . . . .	65
1107-002-N001-2 . . . . .	59	1111-031-A091-1 . . . . .	66
1107-004-N001-2 . . . . .	59	1111-031-A333-4 . . . . .	66
1107-005-N000 . . . . .	59	1111-031-N333-1 . . . . .	66
1107-034-N001-1 . . . . .	59	1111-036-N330 . . . . .	65
1108-000-N000-3 . . . . .	60	1111-036-N331 . . . . .	65
1108-004-N005-2 . . . . .	61	1111-037-N335-1 . . . . .	65
1108-015-N000 . . . . .	60	1111-100-N335-1 . . . . .	65
1108-015-N001 . . . . .	60	1111-123-N300 . . . . .	65
1108-015-N005 . . . . .	61	1113-000-A331-11 . . . . .	67
1108-018-N005-2 . . . . .	61	1113-000-N091-2 . . . . .	67
1108-019-N005-2 . . . . .	61	1113-000-N181 . . . . .	67
1108-021-N001 . . . . .	60	1113-000-N321-2 . . . . .	67
1108-027-N001 . . . . .	60	1113-000-N321-3 . . . . .	67
1108-029-N005-1 . . . . .	61	1113-000-N331-9 . . . . .	67
1108-031-A003 . . . . .	61	1113-000-N331-11 . . . . .	67
1108-037-N005-2 . . . . .	61	1113-000-N331-28 . . . . .	69
1108-050-A003-3 . . . . .	61	1113-000-N911-2 . . . . .	67
1108-123-N000 . . . . .	60	1113-000-N911-5 . . . . .	67
1110-002-N000 . . . . .	61	1113-000-N951 . . . . .	67
1110-002-N001 . . . . .	61	1115-000-N330-5 . . . . .	70
1110-005-N000 . . . . .	61	1115-000-N330-9 . . . . .	70
1110-005-N001 . . . . .	61	1115-000-N330-11 . . . . .	70
1110-013-N000-1 . . . . .	61	1115-000-N330-12 . . . . .	70
1111-004-N335 . . . . .	65	1116-003-N721 . . . . .	62
1111-015-N270 . . . . .	65	1116-004-N720-1 . . . . .	62



Delta P/N . . . . .	Page	Delta P/N . . . . .	Page
1116-004-N725 . . . . .	63	1124-000-N911-1. . . . .	73
1116-015-N721 . . . . .	62	1124-000-N911-2. . . . .	73
1116-015-N725 . . . . .	63	1125-000-N330 . . . . .	75
1116-015-N725-1. . . . .	63	1126-000-N728 . . . . .	75
1116-021-N720 . . . . .	62	1131-000-N000 . . . . .	74
1116-021-N721 . . . . .	62	1131-000-N00A . . . . .	74
1116-021-N725 . . . . .	63	1132-000-N00C-2 . . . . .	74
1116-025-A723-2 . . . . .	64	1133-000-N000 . . . . .	74
1116-025-N723 . . . . .	64	1133-000-N00C . . . . .	74
1116-025-N723-1. . . . .	64	1134-000-N000 . . . . .	75
1116-031-A723-3 . . . . .	64	1137-000-N000 . . . . .	76
1116-031-N720 . . . . .	64	1143-000-N051-2. . . . .	69
1116-031-N723-1. . . . .	64	1143-000-N091-2. . . . .	68
1116-036-N721 . . . . .	62	1143-000-N091-3. . . . .	68
1116-038-N721 . . . . .	62	1143-000-N091-4. . . . .	68
1116-100-N721 . . . . .	62	1143-000-N091-9. . . . .	68
1116-100-N725 . . . . .	63	1143-000-N091-18. . . . .	69
1116-163-N721 . . . . .	64	1143-000-N091-30. . . . .	69
1119-013-N721 . . . . .	62	1143-000-N091-59. . . . .	69
1119-020-N720 . . . . .	62	1143-000-N091-69. . . . .	69
1119-036-N721 . . . . .	62	1143-000-N091-73. . . . .	69
1119-100-N721 . . . . .	62	1143-000-N091-75. . . . .	69
1120-000-N590 . . . . .	72	1143-000-N330-10. . . . .	68
1120-000-N590-4. . . . .	72	1143-000-N330-12. . . . .	68
1120-000-N591 . . . . .	72	1143-000-N330-18. . . . .	69
1120-000-N831 . . . . .	67	1143-000-N331-17. . . . .	68
1120-000-N911-2. . . . .	73	1143-000-N331-23. . . . .	68
1120-000-N911-3. . . . .	73	1143-000-N331-54. . . . .	68
1120-000-N911-4. . . . .	73	1143-000-N331-55. . . . .	68
1121-000-N728-5. . . . .	72	1149-000-N001-1. . . . .	76
1123-000-N330 . . . . .	71	1151-000-N000 . . . . .	74
1123-000-N330-2. . . . .	71	1151-000-N000-3. . . . .	74
1123-000-N330-4. . . . .	71	1151-000-N000-10. . . . .	74
1124-000-N911 . . . . .	73	1151-000-N000-11. . . . .	74



<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1155-013-N331 . . . . .	66	1201-004-N001-4. . . . .	117
1155-017-N331 . . . . .	66	1201-015-N000 . . . . .	117
1155-037-N331 . . . . .	66	1201-015-N001 . . . . .	117
1156-000-N000 . . . . .	72	1201-015-N005 . . . . .	118
1156-000-N000-2. . . . .	72	1201-018-N005 . . . . .	118
1156-000-N000-3. . . . .	72	1201-019-N005 . . . . .	118
1157-000-N000-3. . . . .	72	1201-021-N000 . . . . .	117
1158-000-A091-23 . . . . .	68	1201-021-N001 . . . . .	117
1158-000-A331-12 . . . . .	68	1201-025-N003 . . . . .	119
1158-000-N331-15. . . . .	69	1201-029-N000 . . . . .	117
1159-000-N091-4. . . . .	71	1201-029-N001 . . . . .	117
1159-000-N091-10. . . . .	71	1201-029-N005 . . . . .	118
1159-000-N330-1. . . . .	71	1201-031-N003 . . . . .	119
1159-000-N330-11. . . . .	71	1201-036-N000 . . . . .	117
1159-000-N330-13. . . . .	71	1201-036-N001-2. . . . .	117
1159-000-N331 . . . . .	71	1201-037-N005 . . . . .	118
1159-000-N331-6. . . . .	71	1201-038-N000 . . . . .	117
1159-000-N331-9. . . . .	71	1201-038-N001 . . . . .	117
1159-000-N331-26. . . . .	71	1201-038-N005 . . . . .	118
1163-000-N330 . . . . .	70	1201-043-N000 . . . . .	117
1185-002-A000 . . . . .	60	1201-043-N001 . . . . .	117
1185-002-A551 . . . . .	63	1201-043-N005 . . . . .	118
1185-004-A000-2. . . . .	60	1201-100-N005 . . . . .	118
1185-004-A551 . . . . .	63	1203-005-N000 . . . . .	118
1185-013-A001 . . . . .	60	1203-013-N000 . . . . .	118
1185-013-A551 . . . . .	63	1203-013-N002 . . . . .	132
1185-019-A000 . . . . .	60	1203-017-N000 . . . . .	118
1185-019-A551 . . . . .	63	1203-017-N002 . . . . .	132
1185-031-A000 . . . . .	60	1203-020-N000 . . . . .	118
1185-031-A551 . . . . .	63	1203-020-N000-3. . . . .	118
1185-036-A000 . . . . .	60	1203-020-N000-5. . . . .	118
1185-036-A551 . . . . .	63	1203-020-N001-3. . . . .	118
1201-001-N000 . . . . .	117	1204-001-N000 . . . . .	119
1201-004-N000 . . . . .	117	1204-004-N000 . . . . .	119

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1204-004-N001 . . . . .	119	1208-031-N003 . . . . .	121
1204-015-N000 . . . . .	119	1208-036-N000 . . . . .	121
1204-015-N001 . . . . .	119	1208-036-N001 . . . . .	121
1204-015-N005 . . . . .	120	1208-037-N005 . . . . .	121
1204-018-N005 . . . . .	120	1208-038-N000 . . . . .	121
1204-019-N005 . . . . .	120	1208-038-N005 . . . . .	121
1204-021-N000 . . . . .	119	1208-043-N005 . . . . .	121
1204-021-N001 . . . . .	119	1208-100-N005 . . . . .	121
1204-025-N003 . . . . .	120	1210-013-N000 . . . . .	121
1204-029-N005 . . . . .	120	1210-013-N002 . . . . .	132
1204-031-N003 . . . . .	120	1210-017-N000 . . . . .	121
1204-036-N000 . . . . .	119	1210-017-N002 . . . . .	132
1204-037-N005 . . . . .	120	1210-020-N000 . . . . .	121
1204-038-N005 . . . . .	120	1210-020-N001 . . . . .	121
1204-043-N005 . . . . .	120	1211-001-N330 . . . . .	123
1204-100-N005 . . . . .	120	1211-004-N330 . . . . .	123
1205-018-N000 . . . . .	119	1211-015-N070 . . . . .	123
1205-021-N000 . . . . .	119	1211-015-N071 . . . . .	123
1205-029-N000 . . . . .	119	1211-015-N075 . . . . .	123
1205-036-N000-1 . . . . .	119	1211-018-N075-1 . . . . .	123
1207-015-N000 . . . . .	120	1211-019-N075 . . . . .	123
1207-017-N000 . . . . .	120	1211-021-N070 . . . . .	123
1207-020-N000 . . . . .	120	1211-021-N071 . . . . .	123
1208-001-N000 . . . . .	121	1211-025-N073 . . . . .	123
1208-004-N000 . . . . .	121	1211-029-N075 . . . . .	123
1208-015-N000 . . . . .	121	1211-031-N073 . . . . .	123
1208-015-N001 . . . . .	121	1211-036-N070 . . . . .	123
1208-015-N005 . . . . .	121	1211-036-N071 . . . . .	123
1208-018-N005-1 . . . . .	121	1211-037-N075 . . . . .	123
1208-019-N005 . . . . .	121	1211-038-N070 . . . . .	123
1208-021-N000 . . . . .	121	1211-038-N075 . . . . .	123
1208-021-N001 . . . . .	121	1211-043-N075 . . . . .	123
1208-025-N003 . . . . .	121	1211-100-N075 . . . . .	123
1208-029-N005 . . . . .	121	1212-000-N070 . . . . .	124



Delta P/N . . . . .	Page	Delta P/N . . . . .	Page
1212-000-N070 . . . . .	124	1219-017-N592 . . . . .	132
1213-000-N072-5 . . . . .	132	1219-020-N590 . . . . .	122
1213-000-N080 . . . . .	124	1220-000-N620 . . . . .	126
1213-000-N090 . . . . .	124	1220-000-N622 . . . . .	132
1213-000-N092 . . . . .	132	1220-000-N62E-1 . . . . .	126
1213-000-N180 . . . . .	124	1220-000-N638 . . . . .	126
1213-000-N330 . . . . .	124	1220-000-N650 . . . . .	126
1215-000-N070 . . . . .	125	1220-000-N652-1 . . . . .	132
1215-000-N080 . . . . .	125	1220-000-N656 . . . . .	126
1215-000-N180 . . . . .	125	1220-000-N65E . . . . .	126
1215-000-N330 . . . . .	125	1220-000-N65G . . . . .	126
1216-015-N590 . . . . .	122	1220-000-N911-2 . . . . .	127
1216-015-N591 . . . . .	122	1220-000-N911-3 . . . . .	127
1216-015-N595-1 . . . . .	122	1220-000-N911-5 . . . . .	127
1216-015-N59E . . . . .	122	1221-000-N591-3 . . . . .	126
1216-018-N595 . . . . .	122	1221-000-N598 . . . . .	126
1216-019-N595 . . . . .	122	1222-000-N630-1 . . . . .	126
1216-021-N590-2 . . . . .	122	1222-000-N630-2 . . . . .	126
1216-021-N591 . . . . .	122	1223-000-N180 . . . . .	125
1216-021-N59E . . . . .	122	1223-000-N330 . . . . .	125
1216-025-N593 . . . . .	122	1224-000-N911-2 . . . . .	127
1216-029-N595 . . . . .	122	1225-000-N070-1 . . . . .	130
1216-031-N593 . . . . .	122	1226-000-N591-1 . . . . .	130
1216-036-N590 . . . . .	122	1226-000-N598-2 . . . . .	130
1216-036-N591-5 . . . . .	122	1227-000-N000 . . . . .	130
1216-037-N595 . . . . .	122	1228-000-N000 . . . . .	130
1216-038-N590-2 . . . . .	122	1229-000-N000 . . . . .	131
1216-038-N591-1 . . . . .	122	1230-000-N000 . . . . .	131
1216-038-N595 . . . . .	122	1231-000-N000 . . . . .	128
1216-043-N595 . . . . .	122	1231-000-N000-5 . . . . .	128
1216-100-N595-2 . . . . .	122	1231-000-N00A . . . . .	128
1219-013-N590-2 . . . . .	122	1231-000-N00A-2 . . . . .	128
1219-013-N592 . . . . .	132	1232-000-N000 . . . . .	128
1219-017-N590 . . . . .	122	1232-000-N00A . . . . .	128

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1232-000-N00C . . . . .	128	1261-000-A00M-5 . . . . .	129
1233-000-N000-2. . . . .	128	1261-000-A00M-6 . . . . .	129
1233-000-N00A . . . . .	128	1263-000-N090 . . . . .	128
1233-000-N00C . . . . .	128	1301-015-G005 . . . . .	92
1234-000-N000 . . . . .	130	1301-015-K005 . . . . .	92
1238-000-N000 . . . . .	131	1301-025-G007 . . . . .	91
1240-004-N000 . . . . .	117	1301-031-G003 . . . . .	91
1240-004-N001 . . . . .	117	1301-031-G003-2. . . . .	91
1240-015-N000 . . . . .	117	1301-031-G003-3. . . . .	91
1240-015-N001 . . . . .	117	1301-031-G007 . . . . .	91
1240-021-N000 . . . . .	117	1301-031-K003 . . . . .	91
1240-021-N001 . . . . .	117	1301-031-K003-12 . . . . .	91
1240-025-N003 . . . . .	119	1301-031-K003-2. . . . .	91
1240-031-N003 . . . . .	119	1301-031-K003-8 . . . . .	91
1240-036-N000 . . . . .	117	1301-037-G005 . . . . .	92
1240-036-N001 . . . . .	117	1301-037-K005 . . . . .	92
1241-000-N000 . . . . .	131	1301-094-G003 . . . . .	91
1242-000-N000 . . . . .	131	1301-094-K003 . . . . .	91
1243-000-F09E-1 . . . . .	124	1301-094-K003-1 . . . . .	91
1243-000-F09E-2 . . . . .	124	1303-013-G000 . . . . .	92
1249-000-N000 . . . . .	131	1303-013-K000-2. . . . .	92
1256-000-N000-2. . . . .	127	1303-017-G000 . . . . .	92
1256-000-N000-3. . . . .	127	1303-017-K000 . . . . .	92
1258-000-N051 . . . . .	124	1303-036-G000 . . . . .	92
1258-000-N091-9. . . . .	124	1303-036-K000 . . . . .	92
1258-000-N181 . . . . .	124	1303-100-G000-2. . . . .	92
1258-000-N181-9. . . . .	124	1303-100-K000-2. . . . .	92
1259-000-N091-1. . . . .	125	1305-025-G003 . . . . .	91
1259-000-N091-2. . . . .	125	1305-025-K003 . . . . .	91
1259-000-N091-3. . . . .	125	1305-031-G003 . . . . .	91
1261-000-A00M-1 . . . . .	129	1305-031-G003-2. . . . .	91
1261-000-A00M-2 . . . . .	129	1305-031-K003 . . . . .	91
1261-000-A00M-3 . . . . .	129	1305-031-K003-4. . . . .	91
1261-000-A00M-4 . . . . .	129	1305-094-G003-3. . . . .	91

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1305-094-K003-5 . . . . .	91	1313-000-K091 . . . . .	95
1307-013-G001 . . . . .	92	1313-000-K331 . . . . .	95
1307-013-K001 . . . . .	92	1313-000-K911 . . . . .	95
1307-017-G001 . . . . .	92	1313-000-K921 . . . . .	95
1307-017-K001 . . . . .	92	1313-000-K921-2 . . . . .	95
1307-036-G001 . . . . .	92	1315-000-G050 . . . . .	100
1307-036-K001 . . . . .	92	1315-000-K050 . . . . .	100
1307-038-G001 . . . . .	92	1316-015-G675 . . . . .	94
1307-038-K001 . . . . .	92	1316-015-K675 . . . . .	94
1307-100-G001 . . . . .	92	1316-037-G675 . . . . .	94
1307-100-K001 . . . . .	92	1316-037-K675 . . . . .	94
1308-013-G000 . . . . .	94	1317-025-G673 . . . . .	93
1308-013-K000 . . . . .	94	1317-025-G673-1 . . . . .	93
1308-017-G000 . . . . .	94	1317-025-G677 . . . . .	93
1308-017-K000 . . . . .	94	1317-031-G673 . . . . .	93
1308-025-G007 . . . . .	93	1317-031-G673-3 . . . . .	93
1308-031-G003-2 . . . . .	93	1317-031-G677 . . . . .	93
1308-031-G003-4 . . . . .	93	1319-013-G670 . . . . .	94
1308-031-G007 . . . . .	93	1319-013-K670 . . . . .	94
1308-037-G000 . . . . .	94	1319-017-G670 . . . . .	94
1308-037-K000 . . . . .	94	1319-017-K670 . . . . .	94
1308-094-G003 . . . . .	93	1319-037-G670 . . . . .	94
1308-094-G003-1 . . . . .	93	1319-037-K670 . . . . .	94
1311-025-G053 . . . . .	93	1319-100-G670 . . . . .	94
1311-025-G053-1 . . . . .	93	1319-100-K670 . . . . .	94
1311-031-G053 . . . . .	93	1320-000-G671 . . . . .	101
1311-031-G053-3 . . . . .	93	1320-000-G671-5 . . . . .	101
1313-000-G051 . . . . .	95	1320-000-G821 . . . . .	101
1313-000-G091 . . . . .	95	1320-000-G821-2 . . . . .	101
1313-000-G331 . . . . .	95	1320-000-K671 . . . . .	101
1313-000-G911 . . . . .	95	1320-000-K671-5 . . . . .	101
1313-000-G921 . . . . .	95	1320-000-K821 . . . . .	101
1313-000-G921-2 . . . . .	95	1320-000-K821-11 . . . . .	101
1313-000-K051-2 . . . . .	95	1320-000-K911-2 . . . . .	102

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1320-000-K911-3 . . . . .	102	1337-000-K000-1 . . . . .	109
1320-000-K911-4 . . . . .	102	1343-000-G050-6 . . . . .	97
1321-000-G820-3 . . . . .	101	1343-000-G051-21 . . . . .	97
1321-000-G821 . . . . .	101	1343-000-G090-1 . . . . .	97
1321-000-G821-65 . . . . .	101	1343-000-G091-6 . . . . .	97
1321-000-K820-3 . . . . .	101	1343-000-G330-6 . . . . .	97
1321-000-K821-14 . . . . .	101	1343-000-G331-11 . . . . .	97
1321-000-K821-65 . . . . .	101	1343-000-G910-3 . . . . .	97
1323-000-G920 . . . . .	106	1343-000-G911-6 . . . . .	97
1323-000-G921-1 . . . . .	106	1343-000-G920-4 . . . . .	97
1323-000-K920 . . . . .	106	1343-000-G921-6 . . . . .	97
1323-000-K921-1 . . . . .	106	1343-000-K050-6 . . . . .	97
1326-000-G678 . . . . .	108	1343-000-K051-21 . . . . .	97
1326-000-G821 . . . . .	108	1343-000-K090-1 . . . . .	97
1326-000-K821-1 . . . . .	108	1343-000-K091-6 . . . . .	97
1327-000-G000 . . . . .	108	1343-000-K330-6 . . . . .	97
1327-000-K000-2 . . . . .	108	1343-000-K331-11 . . . . .	97
1328-000-G000 . . . . .	108	1343-000-K910-3 . . . . .	97
1328-000-K000-1 . . . . .	108	1343-000-K911-6 . . . . .	97
1329-000-G000 . . . . .	109	1343-000-K920-4 . . . . .	97
1329-000-K000 . . . . .	109	1343-000-K921-6 . . . . .	97
1330-000-G000 . . . . .	109	1349-000-G000 . . . . .	109
1330-000-K000 . . . . .	109	1349-000-K000 . . . . .	109
1332-000-G000 . . . . .	107	1357-000-G000-2 . . . . .	102
1332-000-K000 . . . . .	107	1357-000-G000-6 . . . . .	102
1332-000-K00A-1 . . . . .	107	1357-000-G000-12 . . . . .	102
1332-000-K00B . . . . .	107	1357-000-K000-2 . . . . .	102
1332-000-K00C . . . . .	107	1357-000-K000-6 . . . . .	102
1333-000-G000 . . . . .	107	1357-000-K000-12 . . . . .	102
1333-000-K000 . . . . .	107	1358-000-G050 . . . . .	98
1333-000-K00A . . . . .	107	1358-000-G050-5 . . . . .	96
1334-000-G000 . . . . .	108	1358-000-G051 . . . . .	98
1334-000-K000 . . . . .	108	1358-000-G051-3 . . . . .	96
1337-000-G000-1 . . . . .	109	1358-000-G051-19 . . . . .	99

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1358-000-G051-34 . . . . .	99	1358-000-K090-1 . . . . .	96
1358-000-G051-35 . . . . .	99	1358-000-K091-8 . . . . .	96
1358-000-G051-128 . . . . .	99	1358-000-K091-14 . . . . .	98
1358-000-G090 . . . . .	98	1358-000-K091-15 . . . . .	99
1358-000-G090-1 . . . . .	96	1358-000-K091-16 . . . . .	99
1358-000-G091-8 . . . . .	96	1358-000-K330 . . . . .	98
1358-000-G091-14 . . . . .	98	1358-000-K330-1 . . . . .	96
1358-000-G091-15 . . . . .	99	1358-000-K331-2 . . . . .	96
1358-000-G091-16 . . . . .	99	1358-000-K331-3 . . . . .	98
1358-000-G330 . . . . .	98	1358-000-K331-4 . . . . .	99
1358-000-G330-1 . . . . .	96	1358-000-K331-5 . . . . .	99
1358-000-G331-2 . . . . .	96	1358-000-K910-2 . . . . .	96
1358-000-G331-3 . . . . .	98	1358-000-K910-3 . . . . .	98
1358-000-G331-4 . . . . .	99	1358-000-K911-14 . . . . .	99
1358-000-G331-5 . . . . .	99	1358-000-K911-59 . . . . .	96
1358-000-G910-2 . . . . .	96	1358-000-K911-61 . . . . .	98
1358-000-G910-3 . . . . .	98	1358-000-K911-85 . . . . .	99
1358-000-G911-14 . . . . .	99	1358-000-K920 . . . . .	98
1358-000-G911-59 . . . . .	96	1358-000-K920-3 . . . . .	96
1358-000-G911-61 . . . . .	98	1358-000-K921-10 . . . . .	98
1358-000-G911-85 . . . . .	99	1358-000-K921-63 . . . . .	96
1358-000-G920 . . . . .	98	1359-000-G050 . . . . .	106
1358-000-G920-3 . . . . .	96	1359-000-G050-5 . . . . .	104
1358-000-G921-10 . . . . .	98	1359-000-G050-7 . . . . .	105
1358-000-G921-63 . . . . .	96	1359-000-G051-4 . . . . .	106
1358-000-K050-4 . . . . .	98	1359-000-G051-10 . . . . .	103
1358-000-K050-5 . . . . .	96	1359-000-G051-38 . . . . .	105
1358-000-K051 . . . . .	98	1359-000-G051-45 . . . . .	104
1358-000-K051-3 . . . . .	96	1359-000-G910-2 . . . . .	104
1358-000-K051-19 . . . . .	99	1359-000-G910-3 . . . . .	106
1358-000-K051-34 . . . . .	99	1359-000-G910-4 . . . . .	105
1358-000-K051-35 . . . . .	99	1359-000-G911-13 . . . . .	103
1358-000-K051-128 . . . . .	99	1359-000-G911-14 . . . . .	104
1358-000-K090 . . . . .	98	1359-000-G911-15 . . . . .	106



<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1359-000-G911-23 . . . . .	105	1364-000-K051-16 . . . . .	100
1359-000-G920-1 . . . . .	104	1366-000-G051-17 . . . . .	100
1359-000-G920-2 . . . . .	105	1366-000-G051-18 . . . . .	100
1359-000-G921-17 . . . . .	103	1366-000-G051-19 . . . . .	100
1359-000-G921-18 . . . . .	103	1366-000-K051-17 . . . . .	100
1359-000-G921-19 . . . . .	104	1366-000-K051-18 . . . . .	100
1359-000-G921-20 . . . . .	105	1366-000-K051-19 . . . . .	100
1359-000-K050-2 . . . . .	106	1367-000-G911 . . . . .	101
1359-000-K050-5 . . . . .	104	1369-000-G000 . . . . .	101
1359-000-K050-7 . . . . .	105	1395-000-G000 . . . . .	109
1359-000-K051-4 . . . . .	106	1395-000-K000 . . . . .	109
1359-000-K051-10 . . . . .	103	1401-004-N001 . . . . .	32
1359-000-K051-38 . . . . .	105	1401-015-N001 . . . . .	32
1359-000-K051-45 . . . . .	104	1404-004-N001 . . . . .	32
1359-000-K910-2 . . . . .	104	1404-007-N000 . . . . .	32
1359-000-K910-3 . . . . .	106	1408-004-N001 . . . . .	33
1359-000-K910-4 . . . . .	105	1411-004-N261 . . . . .	34
1359-000-K911-13 . . . . .	103	1411-015-N260 . . . . .	34
1359-000-K911-14 . . . . .	104	1413-000-N331 . . . . .	34
1359-000-K911-15 . . . . .	106	1413-000-N331-1 . . . . .	34
1359-000-K911-23 . . . . .	105	1416-004-N511 . . . . .	33
1359-000-K920-1 . . . . .	104	1423-000-N331 . . . . .	35
1359-000-K920-2 . . . . .	105	1426-000-N511 . . . . .	36
1359-000-K921-17 . . . . .	103	1463-000-N330 . . . . .	34
1359-000-K921-18 . . . . .	103	1502-002-A000 . . . . .	41
1359-000-K921-19 . . . . .	104	1502-004-A000 . . . . .	41
1359-000-K921-20 . . . . .	105	1502-017-A000 . . . . .	41
1363-000-G050-1 . . . . .	107	1513-000-A391 . . . . .	41
1363-000-G920 . . . . .	107	1516-002-A510 . . . . .	41
1363-000-K050-2 . . . . .	107	1516-004-A510-1 . . . . .	41
1363-000-K920 . . . . .	107	1601-015-N000 . . . . .	43
1364-000-G051-15 . . . . .	100	1601-079-N001 . . . . .	43
1364-000-G051-16 . . . . .	100	1604-004-N001 . . . . .	43
1364-000-K051-15 . . . . .	100	1604-005-N000 . . . . .	43



<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
1604-006-N000 . . . . .	43	1720-000-N751-1 . . . . .	54
1604-079-N001-1 . . . . .	43	1801-021-N000 . . . . .	77
1605-004-N001-2 . . . . .	43	1808-021-N000 . . . . .	77
1621-000-N691 . . . . .	45	1813-000-N331 . . . . .	78
1623-000-N401 . . . . .	45	1815-000-N330 . . . . .	78
1627-000-N000 . . . . .	46	1816-003-N720 . . . . .	77
1628-000-N000 . . . . .	46	1816-021-N721 . . . . .	77
1630-000-N000 . . . . .	47	1819-003-N720 . . . . .	77
1632-000-N000 . . . . .	45	1819-020-N720 . . . . .	77
1633-000-N000 . . . . .	45	1820-000-N728 . . . . .	78
1634-000-N001 . . . . .	46	1823-000-N331-1 . . . . .	78
1637-000-N000 . . . . .	47	1827-000-N000 . . . . .	79
1638-000-N000 . . . . .	47	1828-000-N000 . . . . .	79
1663-000-N340 . . . . .	45	1829-000-N000 . . . . .	79
1701-015-N000 . . . . .	52	1830-000-N000 . . . . .	79
1701-015-N002 . . . . .	52	1838-000-N000 . . . . .	79
1701-029-N000 . . . . .	52	1901-004-N000 . . . . .	87
1701-029-N002 . . . . .	52	1901-004-N000-1 . . . . .	87
1703-017-N000 . . . . .	52	1901-004-N001 . . . . .	87
1703-017-N002 . . . . .	52	1901-015-N000 . . . . .	87
1703-020-N000 . . . . .	52	1901-015-N001 . . . . .	87
1703-020-N002 . . . . .	52	1904-004-N000 . . . . .	87
1705-015-N000 . . . . .	52	1905-015-N001-2 . . . . .	87
1705-021-N000 . . . . .	52	1913-000-N261-1 . . . . .	88
1708-015-N000 . . . . .	53	1913-000-N261-2 . . . . .	88
1711-014-N070 . . . . .	53	1913-000-N331-2 . . . . .	88
1711-014-N072 . . . . .	53	1923-000-N331 . . . . .	88
1713-000-N072 . . . . .	54	1926-000-N518 . . . . .	89
1719-017-N590 . . . . .	53	1927-000-N000 . . . . .	89
1719-017-N592 . . . . .	53	1928-000-N000 . . . . .	89
1719-021-N590 . . . . .	53	1932-000-N000 . . . . .	88
1719-021-N592 . . . . .	53	1934-000-N000-1 . . . . .	89
1720-000-N651-3 . . . . .	54	1935-000-N000-1 . . . . .	89
1720-000-N652 . . . . .	54	1963-000-N330 . . . . .	88

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
2001-070-N000 . . . . .	137	2234-000-N000-15 . . . . .	40
2001-099-N000 . . . . .	137	2234-000-N000-17 . . . . .	39
2001-235-N000 . . . . .	137	2234-000-N000-18 . . . . .	39
2013-000-N091-2 . . . . .	137	2234-000-N000-23 . . . . .	39
2016-099-N591 . . . . .	137	2234-000-N000-24 . . . . .	40
2016-235-N591-1 . . . . .	137	2234-000-N000-29 . . . . .	39
2020-000-N621-3 . . . . .	137	2234-000-N000-30 . . . . .	40
2225-000-A911-9 . . . . .	153	2234-000-N000-31 . . . . .	39
2225-000-K071-2 . . . . .	161	2234-000-N000-32 . . . . .	39
2225-000-N331-5 . . . . .	159	2234-000-N000-33 . . . . .	39
2225-000-N331-6 . . . . .	155	2234-000-N000-34 . . . . .	40
2225-000-N331-8 . . . . .	159	2234-000-N000-35 . . . . .	40
2225-000-N401 . . . . .	158	2234-000-N000-36 . . . . .	39
2226-000-N721-1 . . . . .	159	2234-000-N000-37 . . . . .	39
2226-000-Q511-1 . . . . .	84	2234-000-N000-38 . . . . .	40
2227-000-N000-3 . . . . .	160	2234-000-N000-39 . . . . .	40
2227-000-N000-4 . . . . .	156	2234-000-N000-40 . . . . .	40
2227-000-N000-16 . . . . .	160	2234-000-N000-41 . . . . .	39
2228-000-A001-29 . . . . .	153	2234-000-N000-42 . . . . .	39
2228-000-N000-9 . . . . .	155	2234-000-N000-43 . . . . .	40
2228-000-N000-12 . . . . .	159	2234-000-N000-44 . . . . .	40
2228-000-N001-2 . . . . .	159	2234-000-N000-45 . . . . .	39
2228-000-N001-15 . . . . .	161	2234-000-N000-46 . . . . .	40
2228-000-N001-22 . . . . .	158	2234-000-N000-47 . . . . .	40
2228-000-N00M-10 . . . . .	159	2234-000-N000-48 . . . . .	39
2234-000-A001-122 . . . . .	153	2234-000-N000-49 . . . . .	40
2234-000-N000-6 . . . . .	155	2234-000-N000-50 . . . . .	40
2234-000-N000-7 . . . . .	156	2234-000-N000-51 . . . . .	39
2234-000-N000-8 . . . . .	155	2234-000-N000-52 . . . . .	39
2234-000-N000-9 . . . . .	156	2234-000-N000-53 . . . . .	40
2234-000-N000-10 . . . . .	157	2234-000-N000-54 . . . . .	40
2234-000-N000-11 . . . . .	157	2234-000-N000-55 . . . . .	159
2234-000-N000-12 . . . . .	160	2234-000-N000-65 . . . . .	160
2234-000-N000-14 . . . . .	39	2234-000-N000-69 . . . . .	161



Delta P/N . . . . .	Page	Delta P/N . . . . .	Page
2234-000-N000-78. . . . .	158	2407-038-G001-1. . . . .	111
2234-000-N001-4. . . . .	160	2407-038-N001-1. . . . .	111
2234-000-N001-7. . . . .	160	2407-100-G001 . . . . .	111
2234-000-N001-9. . . . .	159	2407-100-N001 . . . . .	111
2234-000-N001-10. . . . .	156	2413-000-G051 . . . . .	112
2234-000-N001-51. . . . .	157	2413-000-G911 . . . . .	112
2234-000-N001-70. . . . .	158	2413-000-N051 . . . . .	112
2234-000-N001-77. . . . .	161	2413-000-N911 . . . . .	112
2234-000-N001-78. . . . .	161	2419-037-G681 . . . . .	111
2234-000-N001-81. . . . .	161	2419-037-N681 . . . . .	111
2234-000-N001-82. . . . .	161	2419-038-G681 . . . . .	111
2234-000-N001-100. . . . .	155	2419-038-N681 . . . . .	111
2234-000-N001-120. . . . .	161	2419-100-G681 . . . . .	111
2234-000-N001-121. . . . .	161	2419-100-N681 . . . . .	111
2234-000-N004-10. . . . .	156	2420-000-G681 . . . . .	112
2234-000-N004-11. . . . .	158	2420-000-K911-1 . . . . .	113
2234-000-N00M-39 . . . . .	160	2420-000-N681 . . . . .	112
2234-000-N331-3. . . . .	159	2421-000-G911 . . . . .	113
2234-000-Q001-131. . . . .	84	2422-000-G681 . . . . .	112
2234-000-Q001-136. . . . .	85	2422-000-N681 . . . . .	112
2402-037-G001 . . . . .	111	2468-000-G001 . . . . .	113
2402-037-N001 . . . . .	111	2468-000-N001 . . . . .	113
2402-038-G001 . . . . .	111	2470-000-G00E . . . . .	113
2402-038-N001 . . . . .	111	2470-000-N00E . . . . .	113
2402-100-G001 . . . . .	111	2502-038-G001-1. . . . .	114
2402-100-N001 . . . . .	111	2502-038-N001-1. . . . .	114
2403-037-G000-2. . . . .	111	2502-045-G001-1. . . . .	114
2403-037-N000-2. . . . .	111	2502-045-N001-1. . . . .	114
2403-038-G000-1. . . . .	111	2502-100-G000-1. . . . .	114
2403-038-N000-1. . . . .	111	2502-100-N000-1. . . . .	114
2403-100-G000 . . . . .	111	2503-037-G000 . . . . .	114
2403-100-N000 . . . . .	111	2503-037-N000 . . . . .	114
2407-037-G001 . . . . .	111	2503-038-G000 . . . . .	114
2407-037-N001 . . . . .	111	2503-038-N000 . . . . .	114



Delta P/N . . . . .	Page	Delta P/N . . . . .	Page
2503-100-G000 . . . . .	114	2620-000-N511 . . . . .	139
2503-100-N000 . . . . .	114	2622-000-N511 . . . . .	139
2507-037-G001 . . . . .	114	2626-000-N000 . . . . .	140
2507-037-N001 . . . . .	114	2801-000-N000 . . . . .	37
2507-038-G001 . . . . .	114	2801-000-N000-1 . . . . .	37
2507-038-N001 . . . . .	114	2802-002-F001 . . . . .	37
2507-100-G001 . . . . .	114	2802-002-F001-1 . . . . .	37
2507-100-N001 . . . . .	114	2802-012-N001 . . . . .	37
2513-000-G051 . . . . .	115	2802-012-N001-1 . . . . .	37
2513-000-G911 . . . . .	115	2802-021-N001 . . . . .	37
2513-000-N051 . . . . .	115	2802-021-N001-1 . . . . .	37
2513-000-N911 . . . . .	115	2802-037-N001 . . . . .	37
2519-037-G681 . . . . .	114	2802-037-N001-1 . . . . .	37
2519-037-N681 . . . . .	114	2811-002-N911 . . . . .	38
2519-038-G681 . . . . .	114	2811-004-N911 . . . . .	38
2519-038-N681 . . . . .	114	2811-015-N911 . . . . .	38
2519-100-G681 . . . . .	114	2811-017-N911 . . . . .	38
2519-100-N681 . . . . .	114	2811-021-N911 . . . . .	38
2520-000-G681 . . . . .	115	2835-000-N000 . . . . .	38
2520-000-N681 . . . . .	115	2835-000-N000-1 . . . . .	38
2522-000-G681 . . . . .	115	2838-000-N000 . . . . .	38
2522-000-N681 . . . . .	115	2838-000-N000-1 . . . . .	38
2568-000-G001 . . . . .	115	3527-000-N001 . . . . .	50
2568-000-N001 . . . . .	115	3801-004-Q000-1 . . . . .	81
2570-000-G00E . . . . .	115	3801-015-Q000-1 . . . . .	81
2570-000-N00E . . . . .	115	3805-004-Q000 . . . . .	81
2601-099-N000 . . . . .	138	3805-006-Q000 . . . . .	81
2601-201-N000 . . . . .	138	3805-015-Q000 . . . . .	81
2604-070-N000 . . . . .	138	3811-004-Q331 . . . . .	82
2604-201-N000 . . . . .	138	3811-015-Q331 . . . . .	82
2608-070-N000 . . . . .	139	3813-000-Q331 . . . . .	83
2611-201-N331 . . . . .	139	3816-000-Q511-2 . . . . .	83
2616-070-N511 . . . . .	139	3816-004-Q511-1 . . . . .	82
2616-201-N511 . . . . .	139	3816-015-Q511-1 . . . . .	82

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
3831-000-A00A . . . . .	84	6102-099-N001 . . . . .	141
3851-000-A000 . . . . .	84	6108-099-N001 . . . . .	141
3858-000-Q331-1. . . . .	83	6116-099-N591 . . . . .	141
3858-000-Q331-2. . . . .	83	6120-000-N651 . . . . .	142
3858-000-Q331-3. . . . .	83	6126-000-N591 . . . . .	142
4203-015-Q000 . . . . .	85	6128-000-N000 . . . . .	142
4213-000-Q071-1. . . . .	85	6130-000-N000 . . . . .	142
4401-013-G000 . . . . .	132	6150-000-N000 . . . . .	142
4401-013-G005 . . . . .	132	6158-000-N13P . . . . .	142
4401-018-G000 . . . . .	132	6169-000-N13P . . . . .	142
4401-019-G005 . . . . .	132	63-10072-1 . . . . .	168
4401-029-G005 . . . . .	132	63-10072-2 . . . . .	168
4401-036-G000 . . . . .	132	7501-019-N005 . . . . .	28
4401-036-G005 . . . . .	132	7501-037-N005 . . . . .	28
4401-043-G000 . . . . .	132	7503-020-N000-2. . . . .	28
4404-015-G000 . . . . .	132	7503-020-N001 . . . . .	28
4404-036-G000 . . . . .	132	7503-037-N001 . . . . .	28
4408-013-G000 . . . . .	132	7503-108-N001 . . . . .	28
4408-019-G000 . . . . .	132	7503-279-N001 . . . . .	28
4408-036-G000 . . . . .	132	7507-019-N000 . . . . .	28
4413-000-G041 . . . . .	135	7507-037-N000 . . . . .	28
4416-019-G620 . . . . .	132	7513-000-N091 . . . . .	29
4416-036-G620 . . . . .	132	7513-000-N331-2. . . . .	29
4416-038-G620 . . . . .	132	7516-019-N595 . . . . .	28
4422-000-G840-1. . . . .	135	7516-037-N595 . . . . .	28
4444-000-G628 . . . . .	135	7520-000-N651-1. . . . .	30
4463-000-A000 . . . . .	135	7521-000-N621-2. . . . .	30
5003-005-N001 . . . . .	143	7523-000-N180 . . . . .	29
5003-012-N001 . . . . .	143	7523-000-N331-1. . . . .	29
5003-013-N001 . . . . .	143	7526-000-N591 . . . . .	30
5013-000-N331 . . . . .	143	7526-000-N591-1. . . . .	30
5020-000-N651 . . . . .	143	7527-000-N001 . . . . .	30
5023-000-N331-1. . . . .	143	7528-000-N001 . . . . .	30
6101-099-N001 . . . . .	141	7529-000-N000 . . . . .	30

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
7567-000-N13P-1 . . . . .	29	9226-000-A911-1 . . . . .	153
7569-000-N13P . . . . .	29	9255-005-A331 . . . . .	146
9201-004-A001 . . . . .	145	9255-005-A911 . . . . .	146
9201-031-A003 . . . . .	145	9255-015-A331 . . . . .	146
9201-050-A003-2 . . . . .	145	9255-015-A911 . . . . .	146
9201-079-A001 . . . . .	145	9258-000-A331 . . . . .	150
9203-000-A001 . . . . .	148	9258-000-A331-2 . . . . .	150
9203-005-A001 . . . . .	145	9258-000-A331-3 . . . . .	150
9205-005-A001-2 . . . . .	145	9258-000-A331-5 . . . . .	150
9205-015-A001 . . . . .	145	9258-000-A331-10 . . . . .	150
9205-031-A003 . . . . .	145	9258-000-A911 . . . . .	149
9205-050-A003-1 . . . . .	145	9258-000-A911-6 . . . . .	150
9205-079-A001-1 . . . . .	145	9258-000-A911-7 . . . . .	150
9207-005-A001 . . . . .	145	9259-000-A331 . . . . .	152
9207-015-A001 . . . . .	145	9259-000-A331-1 . . . . .	152
9207-017-A001 . . . . .	145	9259-000-A331-6 . . . . .	152
9208-000-A001 . . . . .	148	9259-000-A331-7 . . . . .	152
9211-000-A911-1 . . . . .	148	9259-000-A911-4 . . . . .	152
9211-031-A331 . . . . .	146	CW-123A/U . . . . .	25
9211-031-A911-1 . . . . .	146	CW-155A/U . . . . .	25
9211-050-A331 . . . . .	146	CW-159/U . . . . .	25
9211-050-A911-1 . . . . .	146	CW-282/U . . . . .	25
9213-000-A911-3 . . . . .	149	M22520/5-01 . . . . .	170
9213-000-A911-4 . . . . .	149	M22520/5-19 . . . . .	170
9213-000-A911-10 . . . . .	149	M22520/5-33 . . . . .	170
9216-031-A911 . . . . .	147	M22520/5-35 . . . . .	170
9216-050-A911 . . . . .	147	M22520/5-37 . . . . .	170
9219-005-A911 . . . . .	147	M22520/5-61 . . . . .	170
9220-000-A911 . . . . .	149	M39012/01-0005 . . . . .	56
9223-000-A911 . . . . .	151	M39012/01-0015 . . . . .	56
9223-000-A911-1 . . . . .	151	M39012/01-0125 . . . . .	56
9223-000-A911-2 . . . . .	152	M39012/01-0501 . . . . .	57
9223-000-A911-3 . . . . .	151	M39012/01B0007 . . . . .	57
9224-000-A911 . . . . .	151	M39012/01B0008 . . . . .	57

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
M39012/02-0003 . . . . .	60	M39012/19-0118 . . . . .	15
M39012/02-0006 . . . . .	65	M39012/20-0101 . . . . .	12
M39012/02-0101 . . . . .	60	M39012/20-0102 . . . . .	12
M39012/02-0104 . . . . .	65	M39012/20-0108 . . . . .	12
M39012/02-0501 . . . . .	61	M39012/21-0001 . . . . .	21
M39012/02B0008 . . . . .	61	M39012/21-0002 . . . . .	21
M39012/02B0009 . . . . .	61	M39012/21-0003 . . . . .	21
M39012/03-0101 . . . . .	62	M39012/22-0001 . . . . .	19
M39012/03-0102 . . . . .	62	M39012/24-0001 . . . . .	21
M39012/03-0501 . . . . .	62	M39012/24-0002 . . . . .	21
M39012/03B0004 . . . . .	62	M39012/25-0006 . . . . .	25
M39012/03B0005 . . . . .	62	M39012/25-0007 . . . . .	25
M39012/04-0001 . . . . .	72	M39012/25-0008 . . . . .	25
M39012/04-0002 . . . . .	67	M39012/25-0009 . . . . .	25
M39012/05-0101 . . . . .	59	M39012/25-0011 . . . . .	74
M39012/16-0101 . . . . .	10	M39012/25-0012 . . . . .	74
M39012/16-0102 . . . . .	10	M55339/01-00001 . . . . .	155
M39012/16-0103 . . . . .	10	M55339/03-00027 . . . . .	76
M39012/16-0111 . . . . .	10	M55339/04-00030 . . . . .	75
M39012/16-0118 . . . . .	10	M55339/05-00057 . . . . .	75
M39012/17-0101 . . . . .	14	M55339/06-00028 . . . . .	76
M39012/17-0102 . . . . .	14	M55339/07-00029 . . . . .	75
M39012/17-0103 . . . . .	14	M55339/13-00492 . . . . .	26
M39012/17-0111 . . . . .	14	M55339/14-00306 . . . . .	27
M39012/17-0118 . . . . .	14	M55339/15-00491 . . . . .	27
M39012/18-0101 . . . . .	17	M55339/16-00914 . . . . .	26
M39012/18-0102 . . . . .	17	M55339/17-00001 . . . . .	27
M39012/18-0103 . . . . .	17	M55339/17-00002 . . . . .	27
M39012/18-0111 . . . . .	17	M55339/17-00274 . . . . .	27
M39012/18-0118 . . . . .	17	M55339/18-01034 . . . . .	156
M39012/19-0101 . . . . .	15	M55339/20-00201 . . . . .	155
M39012/19-0102 . . . . .	15	M55339/24-00335 . . . . .	156
M39012/19-0110 . . . . .	15	M55339/25-00606 . . . . .	155
M39012/19-0111 . . . . .	15	M55339/49-00349 . . . . .	156



<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
MX-554/U . . . . .	25	UG-89C/U . . . . .	14
MX-554A/U . . . . .	25	UG-94A/U . . . . .	77
MX-913/U . . . . .	74	UG-95A/U . . . . .	77
MX-1142A/U . . . . .	36	UG-107B/U . . . . .	76
MX-1143A/U . . . . .	36	UG-146A/U . . . . .	160
PL-259A . . . . .	143	UG-154B/U . . . . .	49
UG-18E/U . . . . .	56	UG-157B/U . . . . .	50
UG-20E/U . . . . .	60	UG-160D/U . . . . .	62
UG-21B/U . . . . .	56	UG-185/U . . . . .	19
UG-21D/U . . . . .	56	UG-201A/U . . . . .	155
UG-21E/U . . . . .	56	UG-202A/U . . . . .	76
UG-21G/U . . . . .	56	UG-203/U . . . . .	143
UG-22D/U . . . . .	65	UG-204A/U . . . . .	56
UG-22F/U . . . . .	65	UG-212C/U . . . . .	47
UG-23D/U . . . . .	60	UG-216B/U . . . . .	50
UG-23F/U . . . . .	60	UG-220B/U . . . . .	50
UG-27C/U . . . . .	76	UG-255A/U . . . . .	156
UG-27D/U . . . . .	76	UG-260/U . . . . .	10
UG-28A/U . . . . .	76	UG-260B/U . . . . .	10
UG-29B/U . . . . .	75	UG-260D/U . . . . .	10
UG-30D/U . . . . .	75	UG-261C/U . . . . .	14
UG-30E/U . . . . .	75	UG-262C/U . . . . .	17
UG-57B/U . . . . .	75	UG-273/U . . . . .	155
UG-58A/U . . . . .	67	UG-274A/U . . . . .	27
UG-59B/U . . . . .	43	UG-274B/U . . . . .	27
UG-59E/U . . . . .	43	UG-274C/U . . . . .	27
UG-60B/U . . . . .	44	UG-290A/U . . . . .	19
UG-60E/U . . . . .	44	UG-291C/U . . . . .	17
UG-61B/U . . . . .	44	UG-306A/U . . . . .	27
UG-61E/U . . . . .	44	UG-306B/U . . . . .	27
UG-83B/U . . . . .	159	UG-309/U . . . . .	155
UG-88/U . . . . .	10	UG-333C/U . . . . .	44
UG-88C/U . . . . .	10	UG-335A/U . . . . .	156
UG-88E/U . . . . .	10	UG-349B/U . . . . .	156



<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
UG-352/U . . . . .	49	UG-593A/U . . . . .	65
UG-352B/U . . . . .	49	UG-594B/U . . . . .	59
UG-414A/U . . . . .	26	UG-602A/U . . . . .	60
UG-421B/U . . . . .	138	UG-603A/U . . . . .	56
UG-422/U . . . . .	140	UG-606/U . . . . .	155
UG-423B/U . . . . .	139	UG-624/U . . . . .	15
UG-427C/U . . . . .	44	UG-625B/U . . . . .	21
UG-447/U . . . . .	19	UG-626B/U . . . . .	32
UG-491B/U . . . . .	27	UG-627B/U . . . . .	32
UG-492A/U . . . . .	26	UG-628A/U . . . . .	32
UG-492C/U . . . . .	26	UG-629A/U . . . . .	34
UG-492D/U . . . . .	26	UG-630A/U . . . . .	33
UG-493A/U . . . . .	140	UG-631A/U . . . . .	33
UG-494B/U . . . . .	43	UG-632A/U . . . . .	33
UG-495D/U . . . . .	43	UG-633A/U . . . . .	33
UG-496/U . . . . .	45	UG-634/U . . . . .	35
UG-532A/U . . . . .	49	UG-635/U . . . . .	156
UG-533B/U . . . . .	50	UG-636A/U . . . . .	155
UG-534B/U . . . . .	50	UG-637/U . . . . .	157
UG-535/U . . . . .	20	UG-642A/U . . . . .	36
UG-536B/U . . . . .	56	UG-643/U . . . . .	36
UG-536C/U . . . . .	56	UG-657/U . . . . .	21
UG-556B/U . . . . .	62	UG-657A/U . . . . .	21
UG-557A/U . . . . .	56	UG-680/U . . . . .	72
UG-564/U . . . . .	157	UG-680A/U . . . . .	72
UG-565A/U . . . . .	157	UG-703A/U . . . . .	157
UG-566A/U . . . . .	36	UG-704B/U . . . . .	33
UG-567A/U . . . . .	36	UG-706A/U . . . . .	35
UG-568/U . . . . .	34	UG-707A/U . . . . .	32
UG-569A/U . . . . .	35	UG-709B/U . . . . .	32
UG-570A/U . . . . .	33	UG-710B/U . . . . .	32
UG-571A/U . . . . .	34	UG-909/U . . . . .	15
UG-572A/U . . . . .	33	UG-909A/U . . . . .	15
UG-573B/U . . . . .	32	UG-909B/U . . . . .	15

<b>Delta P/N</b> . . . . .	<b>Page</b>	<b>Delta P/N</b> . . . . .	<b>Page</b>
UG-910/U . . . . .	15	UG-1095C/U . . . . .	65
UG-910A/U . . . . .	15	UG-1098/U . . . . .	21
UG-910B/U . . . . .	15	UG-1098A/U . . . . .	21
UG-911A/U . . . . .	21	UG-1104A/U . . . . .	20
UG-912/U . . . . .	21	UG-1107/U . . . . .	158
UG-912A/U . . . . .	21	UG-1108/U . . . . .	158
UG-913/U . . . . .	12	UG-1109/U . . . . .	47
UG-913A/U . . . . .	12	UG-1111/U . . . . .	83
UG-914/U . . . . .	26	UG-1132A/U . . . . .	82
UG-925B/U . . . . .	43	UG-1138A/U . . . . .	36
UG-926A/U . . . . .	43	UG-1144/U . . . . .	84
UG-927B/U . . . . .	44	UG-1148/U . . . . .	43
UG-931/U . . . . .	54	UG-1174/U . . . . .	21
UG-932A/U . . . . .	52	UG-1185/U . . . . .	56
UG-937A/U . . . . .	33	UG-1185A/U . . . . .	56
UG-938A/U . . . . .	34	UG-1186/U . . . . .	60
UG-940B/U . . . . .	60	UG-1186A/U . . . . .	60
UG-941B/U . . . . .	56	UG-1187/U . . . . .	65
UG-943B/U . . . . .	32	UG-1187A/U . . . . .	65
UG-944A/U . . . . .	33	UG-1213/U . . . . .	43
UG-945B/U . . . . .	32	UG-1214/U . . . . .	44
UG-959A/U . . . . .	10	UG-1365/U . . . . .	135
UG-961A/U . . . . .	53	UG-1366/U . . . . .	134
UG-968B/U . . . . .	81	UG-1412/U . . . . .	134
UG-972B/U . . . . .	82	UG-1413/U . . . . .	132
UG-981/U . . . . .	140		
UG-997A/U . . . . .	70		
UG-1016A/U . . . . .	53		
UG-1019A/U . . . . .	46		
UG-1033C/U . . . . .	10		
UG-1034/U . . . . .	156		
UG-1094/U . . . . .	21		
UG-1094A/U . . . . .	21		
UG-1095B/U . . . . .	65		

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.

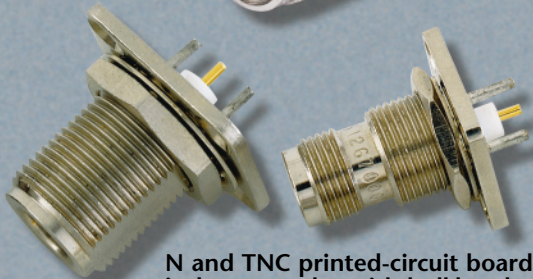
We hope that this sampling of our unique designs will give you a better idea of our capability to design exactly the connector you need for your project. Our engineering staff welcomes your inquiries for special connector configurations of any series or specifications.



High-power HN plug for corrugated-jacket copper broadcast cable.



N right angle push-on plug with three-hole flange and crimp cable attachment. Mates with standard type N jack.



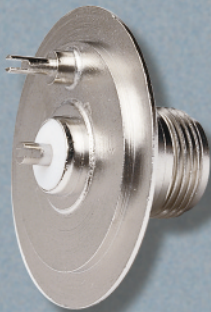
N and TNC printed-circuit board jack receptacles with bulkhead and four-hole flange mounting.



Bulkhead-mounted type N jack with crimp attachment for six RG-58 series cables.



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.



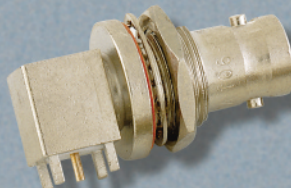
BNC block adapter, connects one BNC jack to two BNC plugs to split or combine signal.



BMC (high-frequency slide-on mating) adapters to SMA jacks. One side of mating pair float mounted for use in rack and panel applications.



Straight and right angle slide-on panel mounted BNC plugs, clamp and crimp type cable attachment—mate with standard BNC jacks.



BNC right angle printed-circuit board jack receptacle with bulkhead mounting.



N printed-circuit board jack receptacle with bulkhead mounting.

## 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.

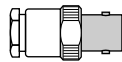
**Note:** "PLUG" or "JACK" should always be used to define mating end, not contact gender—some series have female contacts in plugs and male contacts in jacks as the standard configuration.

## Cable Connector Configuration Examples

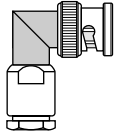
### Mating Ends and Body Styles



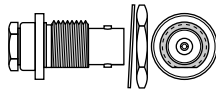
Straight cable plug



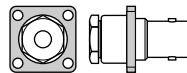
Straight cable jack



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.

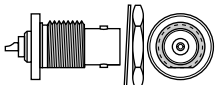
*Semi-Rigid Cables:*

Direct solder: See Assembly Procedure H.

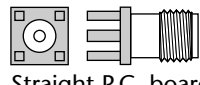
Solder-clamp: See Assembly Procedure F.

## Receptacle Configuration Examples

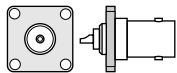
### Mounting Styles



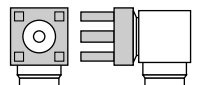
Bulkhead mount jack receptacle



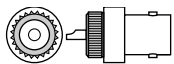
Straight P.C. board jack receptacle



Panel mount jack receptacle

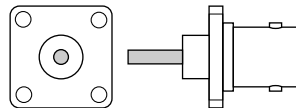


Right angle P.C. board jack receptacle

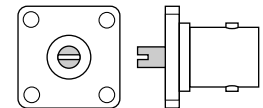


PressMount jack receptacle

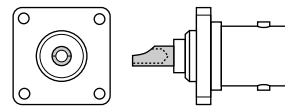
### Contact Termination Styles



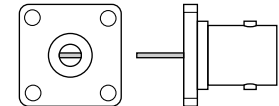
Post contact  
(shown with extended insulator)



Slotted contact  
(shown with flush insulator)

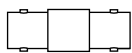


Solder pot contact  
(shown with extended insulator)

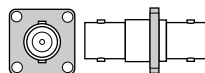


Tab contact  
(shown with flush insulator)

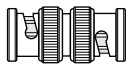
## Adapter Configuration Examples



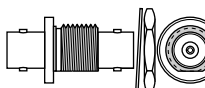
Straight jack-jack adapter



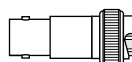
Straight jack-jack panel mount adapter



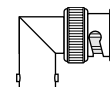
Straight plug-plug adapter



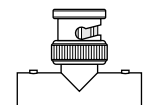
Straight jack-jack bulkhead mount adapter



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: <input type="text"/>		Response required by (date): <input type="text"/>	
<b>1 Customer Information:</b>			
Name: <input type="text"/>	Phone: <input type="text"/>	FAX: <input type="text"/>	
Company: <input type="text"/>	Specification/drawing # <input type="text"/>		
Address: <input type="text"/>	Program/product reference: <input type="text"/>		
	e-mail: <input type="text"/> → (Go to Block 2 or 3 or 4)		
<b>2 Cross-Reference from Competitor's Part:</b>			
		<input type="checkbox"/> Exact match required	<input type="checkbox"/> Functional equivalent OK
Manufacturer: <input type="text"/>	P/N <input type="text"/>	(Go to Block 6)	
<b>3 Standard (or Modified Version of) Delta Catalog Connector:</b>			
		Delta P/N: <input type="text"/>	
with these modifications: <input type="text"/>		(Go to Block 6)	
<b>4 New Connector:</b>			
Series: <input type="checkbox"/> 7/16 <input type="checkbox"/> BNC <input type="checkbox"/> C <input type="checkbox"/> HN <input type="checkbox"/> MHV <input type="checkbox"/> N <input type="checkbox"/> SC <input type="checkbox"/> SMA <input type="checkbox"/> SMB <input type="checkbox"/> SMC <input type="checkbox"/> TNC <input type="checkbox"/> Other: <input type="text"/>			
<b>Cable Connector:</b>			
Style: <input type="checkbox"/> Straight plug <input type="checkbox"/> Right angle plug <input type="checkbox"/> Straight jack <input type="checkbox"/> Right angle jack <input type="checkbox"/> Bulkhead jack, mounting figure <input type="text"/>			
<input type="checkbox"/> Panel jack, mounting figure <input type="text"/> <input type="checkbox"/> Other body style: <input type="text"/>			
Cable group or type: <input type="text"/> Cable attachment: <input type="checkbox"/> Crimp <input type="checkbox"/> Heli-Grip <input type="checkbox"/> MIL clamp <input type="checkbox"/> Direct solder <input type="checkbox"/> Solder-clamp			
Contact captivation: <input type="checkbox"/> Captive <input type="checkbox"/> Non-captive Contact attachment: <input type="checkbox"/> Solder <input type="checkbox"/> Crimp (Go to Block 5)			
<b>Receptacle:</b>			
Configuration: <input type="checkbox"/> Jack <input type="checkbox"/> Plug <input type="checkbox"/> Straight <input type="checkbox"/> Right angle <input type="checkbox"/> Panel, mounting figure <input type="text"/> <input type="checkbox"/> PressMount <input type="checkbox"/> P.C. board			
<input type="checkbox"/> Bulkhead, mounting figure <input type="text"/> <input type="checkbox"/> Mounting nut in front of panel <input type="checkbox"/> Mounting nut behind panel			
<input type="checkbox"/> Other configuration or mounting style: <input type="text"/>			
Contact captivation: <input type="checkbox"/> Non-captive <input type="checkbox"/> Captive; captivation method: <input type="checkbox"/> Mechanical <input type="checkbox"/> Epoxy <input type="checkbox"/> No preference			
Contact termination: <input type="checkbox"/> Post <input type="checkbox"/> Slotted <input type="checkbox"/> Solder pot <input type="checkbox"/> Tab <input type="checkbox"/> Other: <input type="text"/> (Go to Block 5)			
<b>Adapter Within Series:</b>			
Configuration: <input type="checkbox"/> Straight <input type="checkbox"/> Right angle <input type="checkbox"/> Tee			
Mating ends: Left: <input type="checkbox"/> Jack <input type="checkbox"/> Plug Middle (tee adapters only): <input type="checkbox"/> Jack <input type="checkbox"/> Plug Right: <input type="checkbox"/> Jack <input type="checkbox"/> Plug			
<input type="checkbox"/> Bulkhead mount, mounting figure <input type="text"/> <input type="checkbox"/> Panel mount, mounting figure <input type="text"/> (Go to Block 5)			
<b>Adapter Between Series:</b>			
Configuration: <input type="checkbox"/> Straight <input type="checkbox"/> Right angle Left end series <input type="text"/> <input type="checkbox"/> Jack <input type="checkbox"/> Plug Right end series: <input type="text"/> <input type="checkbox"/> Jack <input type="checkbox"/> Plug			
<input type="checkbox"/> Bulkhead mount, mounting figure <input type="text"/> <input type="checkbox"/> Panel mount, mounting figure <input type="text"/> (Go to Block 5)			
<b>5 Plating and Other Requirements:</b>			
		Operating frequency: <input type="text"/>	
Body plating: <input type="checkbox"/> Gold <input type="checkbox"/> Silver <input type="checkbox"/> Nickel <input type="checkbox"/> Albaloy <input type="checkbox"/> Passivated <input type="checkbox"/> Other: <input type="text"/>			
Contact outer plating: <input type="checkbox"/> Gold <input type="checkbox"/> Silver Contact underplate: <input type="checkbox"/> Nickel <input type="checkbox"/> Copper <input type="checkbox"/> No preference			
<input type="checkbox"/> Special electrical / mechanical requirements: <input type="text"/>			
<b>6 Delivery Requirements:</b>			
Quantity to quote: <input type="text"/>		Delivery needed by: <input type="text"/>	Estimated annual usage: <input type="text"/>
Other information: <input type="text"/>			



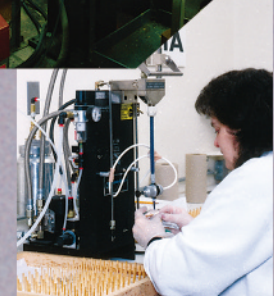
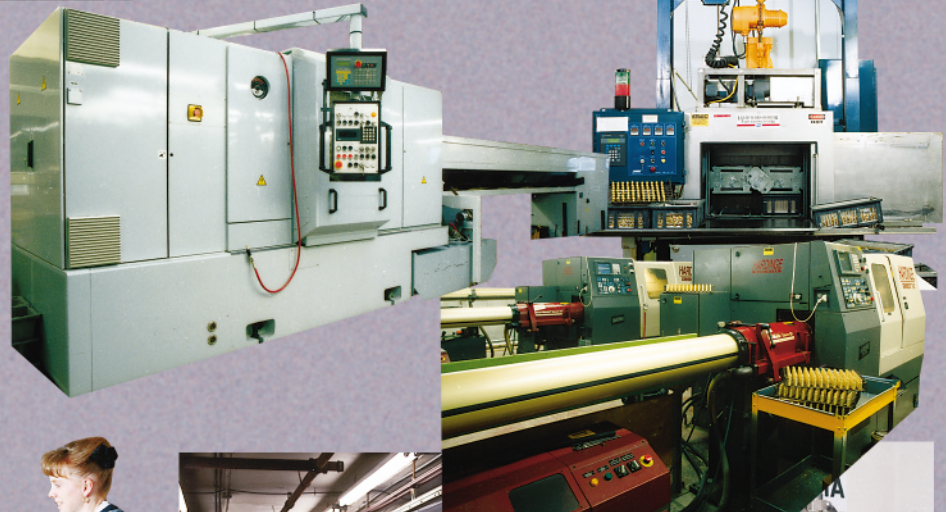
“When my father, Nick Nikitas, founded Delta in 1955, he envisioned the company not only as an outlet for his creative and inventive energy, but also as an organization that would reflect his own work ethic and dedication. My staff and I have worked hard to continue this commitment to on-time delivery, high quality, and new-product development—all the elements that combine to produce total customer satisfaction.

As a Delta customer, you can be assured that we will keep our focus on process control, innovation, and competitive excellence in order to produce RF connectors that will provide the best complement to your system design and production.”

*Diane Delaney*  
President

## Vertical Integration

- Design
- CNC turning centers
- Secondary machining
- Plating
- Assembly
- Testing





## 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.

## Copyright, Trademarks, and Patents

Entire contents copyright 2000, Delta Electronics Manufacturing Corporation. Reproduction rights are hereby granted for, and specifically limited to, printing or other reproduction of drawings and specifications for inclusion in specification or source control drawings, or for purchasing procedures, by Delta customers only.

*Heli-Grip*, *PressMount*, and the New England Craftsmanship logo are trademarks. The Heli-Grip design is covered by U.S. and foreign patents.

**Delta Electronics Manufacturing Corporation**  
416 Cabot Street, P.O. Box 53  
Beverly, MA 01915  
FSCM/CAGE 00795

**Catalog # CD2000 1.0**