

## 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 page 176.

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

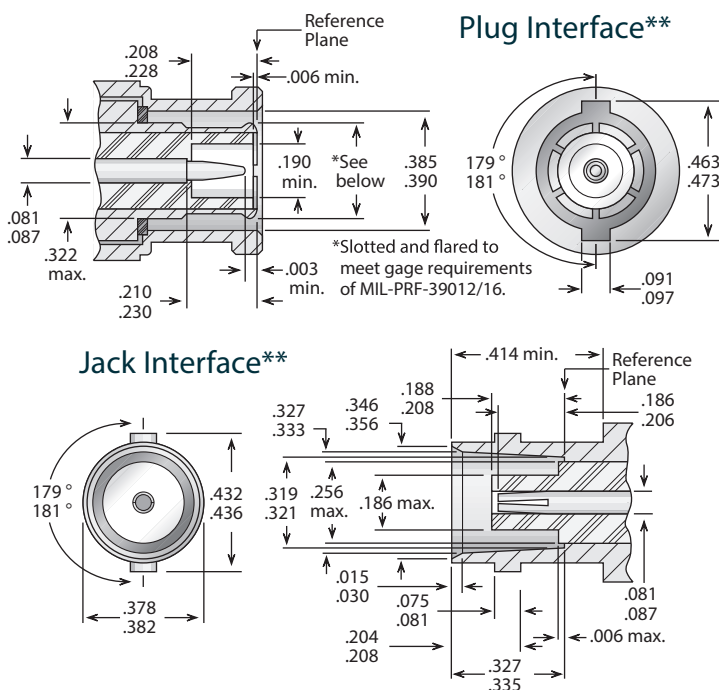
- Heli-Grip cable connectors for fast, reliable assembly to flexible cable without special tooling.
- PressMount receptacles (page 27) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- Panel receptacles with flange sizes to match the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

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

## BNC Configurations

Straight Cable Plugs .....	2	Bulkhead Jack Receptacles .....	13
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## BNC Specifications\*



\*\*Some proportions altered to illustrate detail.

### Electrical:

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

### Materials/Finishes:

Insulators: Teflon per ASTM D1710.  
Male Contacts: Brass per ASTM B16.  
Female Contacts: Beryllium Copper per ASTM B196.  
Contact Plating: Silver - ASTM-B700  
Gold - MIL-DTL-45204.

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

Other Metal Parts: Brass per ASTM B16

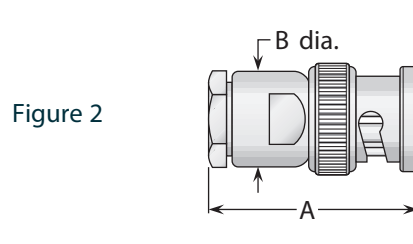
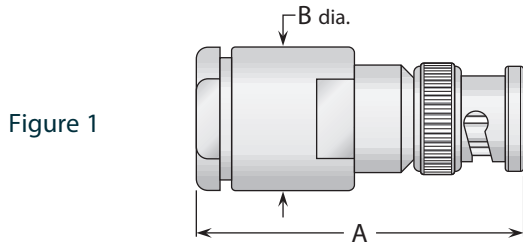
Plated: Silver - ASTM B700

Nickel - AMS-QQ-N-290.

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

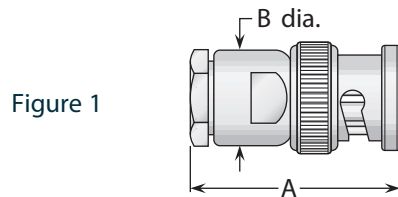
\*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

## Straight Plug - Military Clamp For Flexible Cable



Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
1	1	1.16	.560	Nickel	Silver	1001001N000-001	C/06
2, 3	1	1.66	.750	Nickel	Silver	UG-959A/U	A/01
2, 3	1	1.66	.750	Silver	Gold (C)	M39012/16-0225	A/01
5, 6	2	1.03	.440	Nickel	Silver	UG-88/U	C/04
5, 6	2	1.06	.500	Nickel	Silver	UG-88C/U	A/17
5, 6	2	1.06	.500	Nickel	Silver	UG-88E/U	A/17
5, 6	2	1.06	.500	Nickel	Gold (C)	1001015N001-000	A/17
5, 6	2	1.06	.500	Silver	Gold (C)	M39012/16-0101	A/17
7	2	1.03	.440	Nickel	Silver	UG-260/U	C/04
7	2	1.06	.500	Nickel	Silver	UG-260B/U	A/17
7	2	1.06	.500	Nickel	Silver	UG-260D/U	A/17
7	2	1.06	.500	Nickel	Silver (C)	1001021N001-000	A/17
7	2	1.06	.500	Silver	Gold (C)	M39012/16-0102	A/17
8A	2	1.06	.500	Nickel	Silver	UG-1033C/U	A/17
8A	2	1.06	.500	Nickel	Silver (C)	1001029N001-000	A/17
8A	2	1.06	.500	Silver	Gold (C)	M39012/16-0103	A/17
8B	2	1.06	.500	Nickel	Silver	1001043N000-000	A/17
8B	2	1.06	.500	Nickel	Silver (C)	1001043N001-000	A/17
9	2	1.06	.500	Nickel	Silver	1001036N000-000	A/18
9	2	1.06	.500	Nickel	Silver (C)	1001036N001-000	A/18
9	2	1.06	.500	Silver	Gold (C)	M39012/16-0220	A/37
11	2	1.06	.500	Nickel	Silver	1001038N000-000	A/18
22	2	1.06	.500	Silver	Gold (C)	M39012/16-0118	A/17
23	2	1.06	.500	Silver	Gold (C)	M39012/16-0111	A/17
25	2	1.06	.500	Nickel	Silver	1001132N000-000	A/17

## Straight Plug - Solder Clamp For Semi-Rigid Cable



Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
13	1	1.06	.500	Nickel*	Silver	1001031N003-000	F/08
14	1	1.06	.500	Nickel*	Silver	1001025N003-000	F/07

\* Solder ferrule is gold plated.

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

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

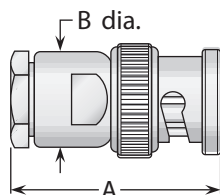
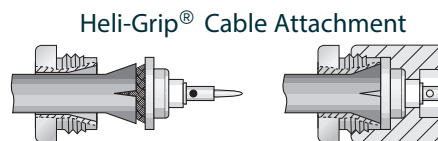


Figure 1



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

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
5, 6 <sup>§</sup>	1	1.06	.500	Nickel	Silver (C)	1001018N005-000	E/03
RG-223	1	1.06	.500	Nickel	Silver (C)	1001015N005-003	E/03
7	1	1.06	.500	Nickel	Silver (C)	1001019N005-000	E/03
8A	1	1.06	.500	Nickel	Silver (C)	1001029N005-001	E/03
8B	1	1.06	.500	Nickel	Silver (C)	1001043N005-000	E/03
9	1	1.06	.500	Nickel	Silver (C)	1001037N005-000	E/03
10	1	1.06	.500	Nickel	Silver (C)	1001100N005-000	E/03
11	1	1.06	.500	Nickel	Silver (C)	1001038N005-000	E/03

<sup>§</sup>Except RG-223/U.

## Straight Plug - Crimp Type For Flexible Cable

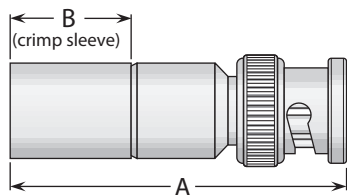


Figure 1

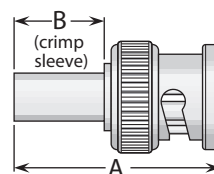


Figure 2

Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
3A, 4	1	1.72	.630	Nickel	Gold (C)	1003005N000-000	B/11
5	2	1.09	.500	Nickel	Gold	1003017N000-000	B/18
5	2	1.10	.500	Nickel	Gold (C)	1003017N00E-002	B/19
6	2	1.09	.500	Nickel	Gold	1003013N000-000	B/18
6	2	1.10	.500	Nickel	Gold (C)	1003013N00E-000	B/19
7	2	1.09	.500	Nickel	Gold	1003020N000-002	B/18
7	2	1.10	.500	Nickel	Gold (C)	1003019N00E-002	B/19
7	2	1.05	.410	Nickel	Silver	1003020N000-005 *	***
7	2	1.05	.410	Nickel	Gold	1003020N000-006 *	***
7	2	1.05	.500	Nickel	Silver (C)	1003020N001-005 *	***
7	2	1.05	.500	Nickel	Gold (C)	1003020N001-009 *	***
9	2	.940	.310	Nickel	Silver (C)	1003037N000-000	B/20

\* Crimp center contact.

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

## Right Angle Plug - Military Clamp For Flexible Cable

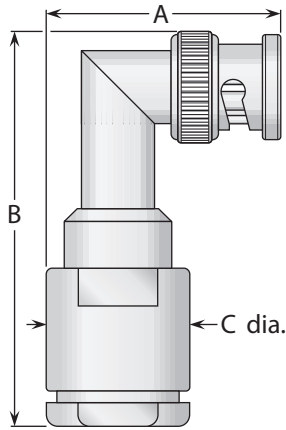


Figure 1

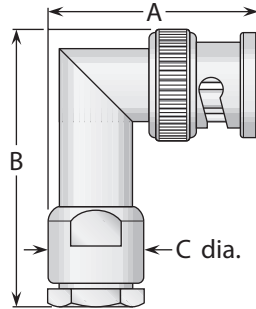


Figure 2

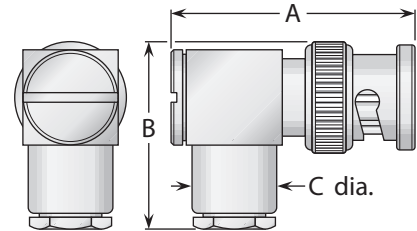


Figure 3

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
1	1	1.23	1.92	.750	Nickel	Gold	1004001N000-000	A/07
2,3	1	1.23	1.92	.750	Nickel	Silver	1004004N000-000	A/07
5,6	2	1.09	1.61	.500	Nickel	Silver	UG-913/U	A/17
5,6	2	1.09	1.61	.500	Nickel	Silver	UG-913A/U	A/17
5,6	2	1.09	1.61	.500	Nickel	Silver (C)	1004015N001-000	A/17
5,6	2	1.09	1.61	.500	Silver	Gold (C)	M39012/20-0101	A/17
5,6	3	1.25	1.06	.440	Nickel	Silver (C)	1005014N000-000	C/05
7	2	1.09	1.61	.500	Nickel	Silver	1004021N000-000	A/17
7	2	1.09	1.61	.500	Nickel	Silver (C)	1004021N001-000	A/17
7	2	1.09	1.61	.500	Silver	Gold (C)	M39012/20-0102	A/17
7	3	1.25	1.06	.440	Nickel	Silver (C)	1005021N000-001	C/05
8A	3	1.25	1.06	.440	Nickel	Silver (C)	1005029N000-000	C/05
8B	2	1.09	1.61	.500	Nickel	Silver	1004043N000-000	A/17
9	2	1.09	1.61	.500	Nickel	Silver	1004036N000-000	A/18
9	3	1.25	1.06	.440	Nickel	Silver (C)	1005036N000-000	C/05
22	2	1.09	1.61	.500	Silver	Gold (C)	M39012/20-0108	A/17

## Right Angle Plug - Solder Clamp For Semi-Rigid Cable

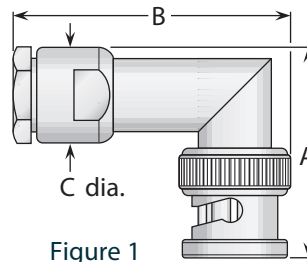


Figure 1

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
13	1	1.09	1.61	.500	Nickel*	Silver	1004031N003-000	F/08
14	1	1.09	1.61	.500	Nickel*	Silver	1004025N003-000	F/07

\* Solder ferrule is gold plated.

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

## Right Angle Plug - Heli-Grip® For Flexible Cable

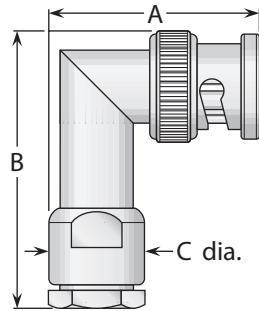
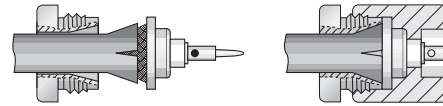


Figure 1

### Heli-Grip® Cable Attachment



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

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5, 6 <sup>§</sup>	1	1.09	1.61	.500	Nickel	Silver (C)	1004018N005-000	E/03
RG-223	1	1.09	1.61	.500	Nickel	Silver (C)	1004015N005-000	E/03
7	1	1.09	1.61	.500	Nickel	Silver (C)	1004019N005-000	E/03
8A	1	1.09	1.61	.500	Nickel	Silver (C)	1004029N005-000	E/03
8B	1	1.09	1.61	.500	Nickel	Silver (C)	1004043N005-000	E/03
9	1	1.09	1.61	.500	Nickel	Silver (C)	1004037N005-000	E/03
10	1	1.09	1.61	.500	Nickel	Silver (C)	1004100N005-000	E/03
11	1	1.09	1.61	.500	Nickel	Silver (C)	1004038N005-000	E/03

<sup>§</sup>Except RG-223/U.

## Right Angle Plug - Crimp Type For Flexible Cable

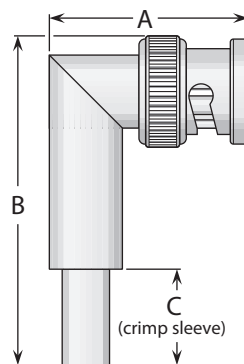


Figure 1

Cable Group	Figure	Dimensions			Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C	Body	Contact		
5	1	1.03	1.71	.500	Nickel	Gold (C)	1007017N000-003	B/02
6	1	1.03	1.71	.500	Nickel	Silver	1007015N000-000	B/02
7	1	1.03	1.71	.500	Nickel	Gold	1007019N000-001	B/02

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

## Straight Jacks - For Flexible & Semi-Rigid Cable

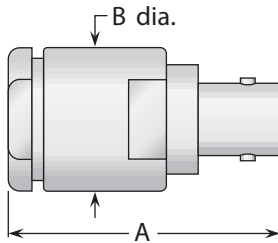


Figure 1

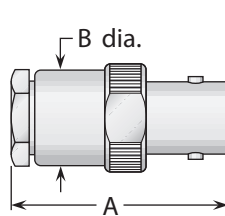


Figure 2

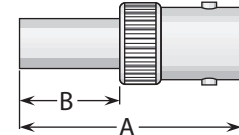
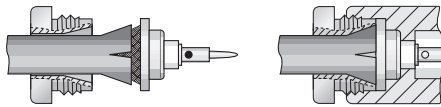


Figure 3

### 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.

### 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	.750	Nickel	Silver	1008004N000-000	A/20
5, 6	2	1.16	.500	Nickel	Silver	UG-89C/U	A/17
5, 6	2	1.16	.500	Nickel	Gold (C)	1008015N001-000	A/17
5, 6	2	1.16	.500	Silver	Gold (C)	M39012/17-0101	A/17
7	2	1.16	.500	Nickel	Silver	UG-261C/U	A/17
7	2	1.16	.500	Nickel	Silver (C)	1008021N001-000	A/17
7	2	1.16	.500	Silver	Gold (C)	M39012/17-0102	A/17
8A	2	1.16	.500	Silver	Gold (C)	M39012/17-0103	A/17
9	2	1.16	.500	Nickel	Silver	1008036N000-000	A/18
9	2	1.16	.500	Nickel	Silver (C)	1008036N001-000	A/18
11	2	1.16	.500	Nickel	Silver	1008038N000-000	A/18
22	2	1.16	.500	Silver	Gold (C)	M39012/17-0118	A/17
23	2	1.16	.500	Silver	Gold (C)	M39012/17-0111	A/17

### Heli-Grip For Flexible Cable

5, 6 <sup>§</sup>	2	1.16	.500	Nickel	Silver (C)	1008018N005-001	E/03
RG-223	2	1.16	.500	Nickel	Silver (C)	1008015N005-000	E/03
7	2	1.16	.500	Nickel	Silver (C)	1008019N005-000	E/03
8A	2	1.16	.500	Nickel	Silver (C)	1008029N005-000	E/03
8B	2	1.16	.500	Nickel	Silver (C)	1008043N005-000	E/03
9	2	1.16	.500	Nickel	Silver (C)	1008037N005-000	E/03
10	2	1.16	.500	Nickel	Silver (C)	1008100N005-000	E/03
11	2	1.16	.500	Nickel	Silver (C)	1008038N005-002	E/03

### Crimp Type For Flexible Cable

5	3	1.16	.500	Nickel	Gold	1010017N000-001	B/05
6	3	1.16	.500	Nickel	Gold	1010013N000-000	B/05
7	3	1.16	.500	Nickel	Gold	1010020N000-000	B/05
7	3	1.06	.410	Nickel	Silver	1010020N001-001 **	***

### Solder-Clamp For Semi-Rigid Cable

13	2	1.16	.500	Nickel*	Silver	1008031N003-000	F/08
14	2	1.16	.500	Nickel*	Silver	1008025N003-000	F/07

<sup>§</sup>Except RG-223/U.

\*Solder ferrule is gold plated.

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

## Bulkhead Jacks - Military Clamp For Flexible Cable

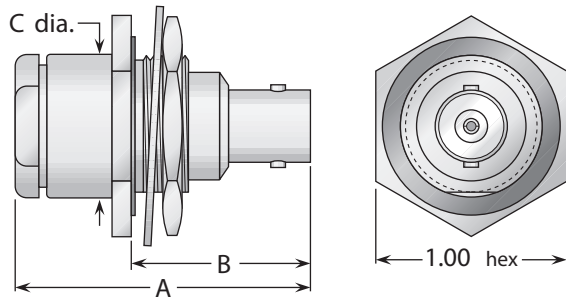


Figure 1  
(Rear mount)

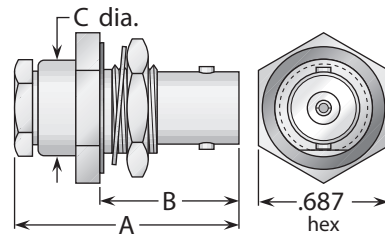


Figure 2  
(Rear mount)

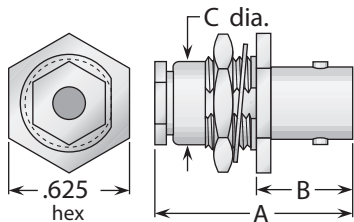


Figure 3  
(Front mount)

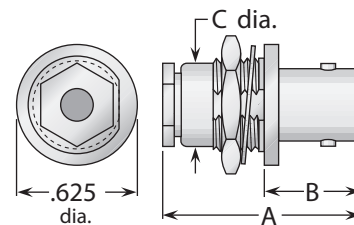


Figure 4  
(Front mount)

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	.920	.750	51	.110	Nickel	Gold (C)	1016004N511-000	A/20
5, 6	2	1.16	.680	.500	59	.110	Nickel	Silver	UG-909/U	A/17
5, 6	2	1.16	.680	.500	59	.110	Nickel	Silver	UG-909A/U	A/17
5, 6	2	1.16	.810	.500	59	.240	Nickel	Silver	UG-909B/U	A/17
5, 6	2	1.16	.810	.500	59	.240	Silver	Gold (C)	M39012/19-0101	A/17
5, 6	2	1.16	.680	.500	59	.110	Nickel	Gold (C)	1016015N591-000	A/17
5, 6	3	1.14	.550	.440	57	.090	Nickel	Silver	1017014N570-000	C/04
7	2	1.16	.680	.500	59	.110	Nickel	Silver	UG-910/U	A/17
7	2	1.16	.680	.500	59	.110	Nickel	Silver	UG-910A/U	A/17
7	2	1.16	.810	.500	59	.240	Nickel	Silver	UG-910B/U	A/17
7	2	1.16	.810	.500	59	.240	Silver	Gold (C)	M39012/19-0102	A/17
7	2	1.16	.680	.500	59	.110	Nickel	Silver (C)	1016021N591-000	A/17
7	4	1.14	.550	.440	57	.090	Nickel	Silver	UG-624/U	C/04
8A	2	1.16	.810	.500	59	.240	Silver	Gold (C)	M39012/19-0110	A/17
9	2	1.16	.680	.500	59	.110	Nickel	Silver	1016036N590-000	A/18
9	2	1.16	.680	.500	59	.110	Nickel	Silver (C)	1016036N591-000	A/17
9	2	1.16	.810	.500	59	.240	Silver	Gold (C)	M39012/19-0220	A/17
11	2	1.16	.680	.500	59	.110	Nickel	Silver	1016038N590-000	A/18
11	2	1.16	.680	.500	59	.110	Nickel	Silver (C)	1016038N591-000	A/18
22	2	1.16	.810	.500	59	.240	Silver	Gold (C)	M39012/19-0118	A/17
23	2	1.16	.810	.500	59	.240	Silver	Gold (C)	M39012/19-0111	A/17

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



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

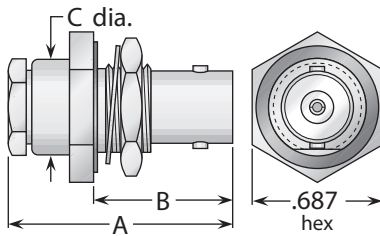
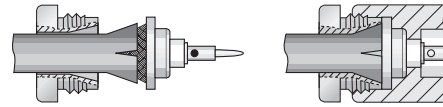


Figure 1 (Rear mount)

### Heli-Grip® Cable Attachment



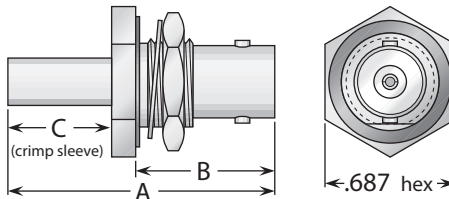
These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C			Body	Contact		
5, 6 <sup>§</sup>	1	1.16	.810	.500	59	.240	Nickel	Silver (C)	1016018N595-000	E/03
RG-223	1	1.16	.810	.500	59	.240	Nickel	Silver (C)	1016015N595-000	E/03
7	1	1.16	.810	.500	59	.240	Nickel	Silver (C)	1016019N595-000	E/03
8A	1	1.16	.810	.500	59	.240	Nickel	Silver (C)	1016029N595-000	E/03
8B	1	1.16	.810	.500	59	.240	Nickel	Silver (C)	1016043N595-000	E/03
9	1	1.16	.810	.500	59	.240	Nickel	Silver (C)	1016037N595-000	E/03
10	1	1.16	.810	.500	59	.240	Nickel	Silver (C)	1016100N595-002	E/03
11	1	1.16	.810	.500	59	.240	Nickel	Silver (C)	1016038N595-002	E/03

<sup>§</sup>Except RG-223/U.

## Bulkhead Jack - Crimp Type For Flexible Cable

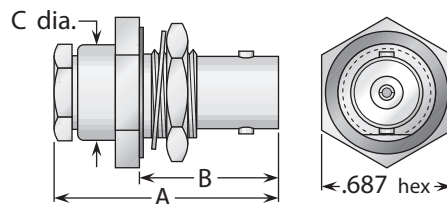
Figure 1 (Rear mount)



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	.680	.500	59	.110	Nickel	Silver	1019016N590-000	B/21
6	1	1.31	.680	.500	59	.110	Nickel	Silver	1019013N590-000	B/21
7	1	1.31	.680	.500	59	.110	Nickel	Silver	1019020N590-000	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	.810	.500	59	.240	Nickel*	Silver	1016031N593-000	F/08
14	1	1.16	.810	.500	59	.240	Nickel*	Silver	1016025N593-000	F/07

\* Solder ferrule is gold plated.

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



## Panel Jack- Military Clamp For Flexible Cable

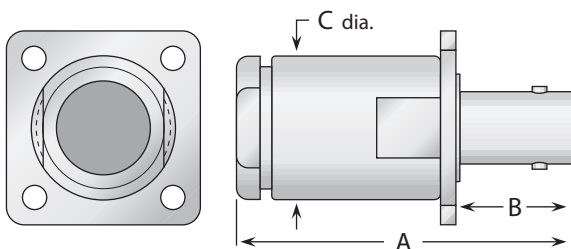


Figure 1

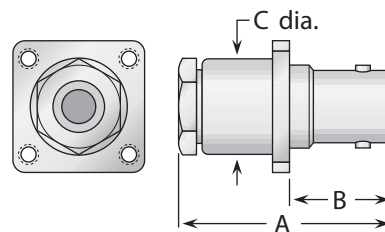


Figure 2

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
1	1	1.75	.630	.750	33	Nickel	Silver	1011001N330-000	A/20
2, 3	1	1.75	.630	.750	33	Nickel	Silver	1011004N330-000	A/20
5, 6	2	1.16	.550	.500	07	Nickel	Silver	UG-291C/U	A/17
5, 6	2	1.16	.550	.500	07	Silver	Gold (C)	M39012/18-0102	A/17
5, 6	2	1.16	.550	.500	07	Nickel	Gold (C)	1011015N071-000	A/17
7	2	1.16	.550	.500	07	Nickel	Silver	UG-262C/U	A/17
7	2	1.16	.550	.500	07	Silver	Gold (C)	M39012/18-0101	A/17
7	2	1.16	.550	.500	07	Nickel	Silver (C)	1011021N071-000	A/17
8A	2	1.16	.550	.500	07	Silver	Gold (C)	M39012/18-0103	A/17
9	2	1.16	.550	.500	07	Nickel	Silver	1011036N070-000	A/18
9	2	1.16	.550	.500	07	Nickel	Silver (C)	1011036N071-000	A/38
9	2	1.16	.550	.500	07	Silver	Gold (C)	M39012/18-0220	A/38
11	2	1.16	.550	.500	07	Nickel	Silver	1011038N070-000	A/18
11	2	1.16	.550	.500	07	Nickel	Silver (C)	1011038N071-000	A/18
22	2	1.16	.550	.500	07	Silver	Gold (C)	M39012/18-0118	A/17
23	2	1.16	.550	.500	07	Silver	Gold (C)	M39012/18-0111	A/17

## Panel Jack - Solder-Clamp For Semi-Rigid Cable

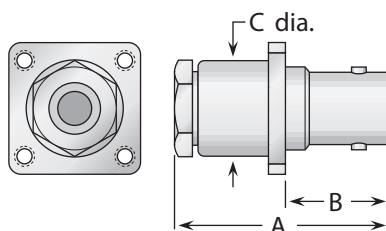


Figure 1

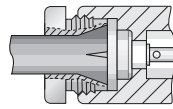
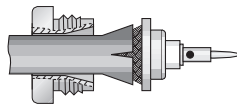
Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
13	1	1.16	.550	.500	07	Nickel*	Gold	1011031N073-000	F/08
14	1	1.16	.550	.500	07	Nickel*	Gold	1011025N073-000	F/07

\* Solder ferrule is gold plated.

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

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

### 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 the cable assembly.

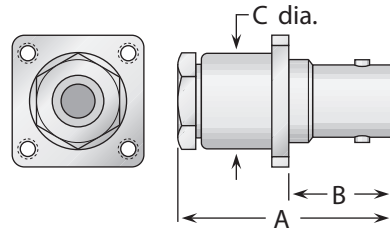


Figure 1

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	.550	.500	07	Nickel	Silver (C)	1011018N075-000	E/03
RG-223	1	1.16	.550	.500	07	Nickel	Silver (C)	1011015N075-000	E/03
7	1	1.16	.550	.500	07	Nickel	Silver (C)	1011019N075-000	E/03
8A	1	1.16	.550	.500	07	Nickel	Silver (C)	1011029N075-000	E/03
8B	1	1.16	.550	.500	07	Nickel	Silver (C)	1011043N075-000	E/03
9	1	1.16	.550	.500	07	Nickel	Silver (C)	1011037N075-000	E/03
10	1	1.16	.550	.500	07	Nickel	Silver (C)	1011100N075-000	E/03
11	1	1.16	.550	.500	07	Nickel	Silver (C)	1011038N075-000	E/03

<sup>§</sup>Except RG-223/U.

## Panel Jack - Crimp Type for Flexible Cable

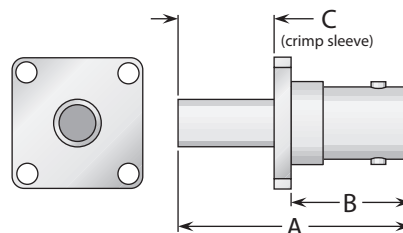


Figure 1

Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
5	1	1.22	.630	.500	09	Nickel	Gold (C)	1055017N091-000	B/12
6	1	1.22	.630	.500	09	Nickel	Gold (C)	1055015N091-000	B/12
7	1	1.22	.630	.500	09	Nickel	Gold (C)	1055019N091-000	B/12

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

## Panel Jack Receptacles - Square Flange

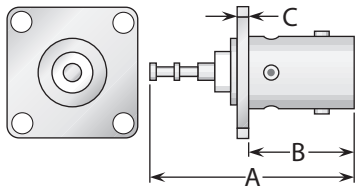


Figure 1  
(Turret contact)

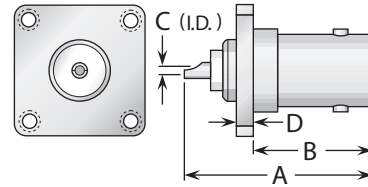


Figure 2  
(Solder pot contact)

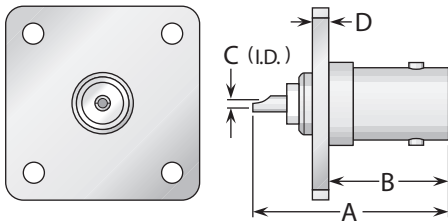


Figure 3  
(Solder pot contact, 1" square flange,  
interchangeable with type N standard flange size)

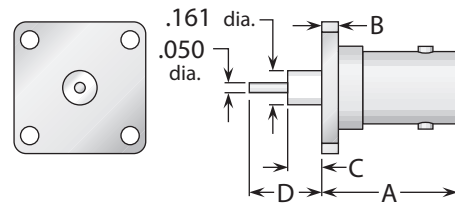


Figure 4  
(Post contact)

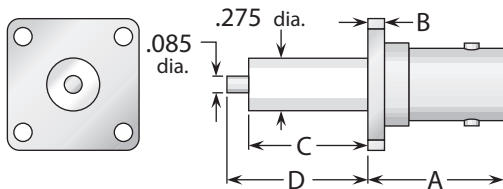


Figure 5  
(Post contact)

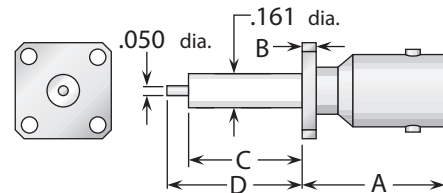


Figure 6  
(Post contact, 1/2" square flange,  
interchangeable with SMA standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.550	.050	—	18	Nickel	Silver (C)	UG-185/U
2	1.06	.630	.062	.090	07	Nickel	Silver (C)	UG-290A/U
2	1.06	.630	.043	.090	12	Nickel	Silver (C)	UG-447/U
2	1.06	.630	.062	.090	07	Silver	Gold (C)	M39012/22-0001
2	1.06	.630	.062	.090	09	Nickel	Silver (C)	1013000N090-000
2	1.06	.630	.062	.090	10	Nickel	Silver (C)	1013000N100-000
2	1.06	.630	.062	.090	18	Nickel	Gold (C)	1013000N180-000
2	1.00	.750	.062	.080	18 <sup>s</sup>	Nickel	Gold (C)	1013000F181-000**
3	1.06	.630	.062	.080	33	Nickel	Silver (C)	1013000N330-000
4	.715	.090	.175	.375	09	Nickel	Silver (C)	1058000N091-000
5	.750	.080	.590	.705	18 <sup>s</sup>	Nickel	Gold (C)*	1058000N181-001
6	.750	.080	.590	.705	05	Nickel	Gold (C)	1058000N051-000

- (C) in contact plating column indicates captive contact.
- \*Indicates epoxy-captivated contact.
- \*\*Insulator flush with rear of flange.
- <sup>s</sup>Flange #18 except with .125 dia. mounting holes.
- See page 6 for alternate body plating information.
- See page 208 for mounting dimensions.
- All items are available with other flange sizes and contact configurations.

## Right Angle Panel Jack Receptacles - Square Flange

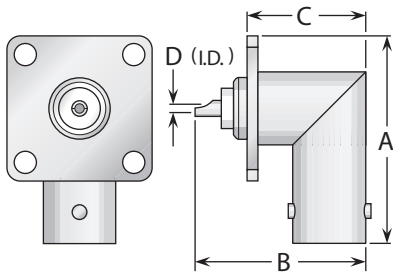


Figure 1  
(Solder pot contact)

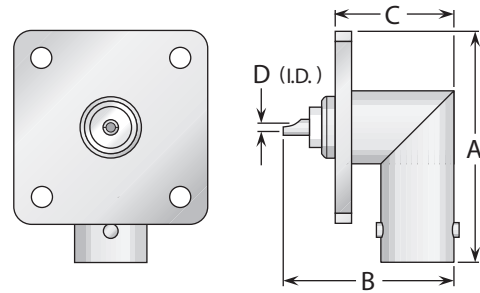


Figure 2  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.09	.910	.610	.062	18	Nickel	Silver (C)	UG-535/U
1	1.06	.910	.650	.062	07	Nickel	Silver (C)	1015000N070-000
1	1.06	.910	.650	.062	09	Nickel	Gold (C)	1015000N090-000
2	1.22	.910	.610	.062	33	Nickel	Silver (C)	1015000N330-000

## Panel Plug Receptacles - Square Flange

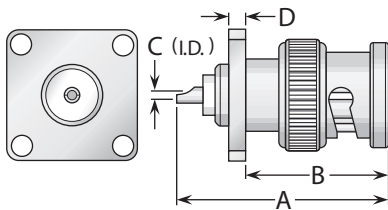


Figure 1  
(Solder pot contact, 3/4" square flange)

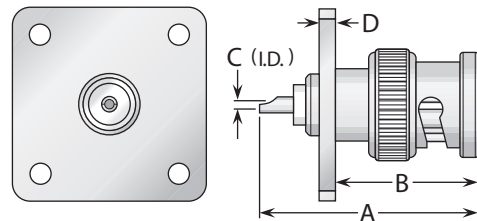
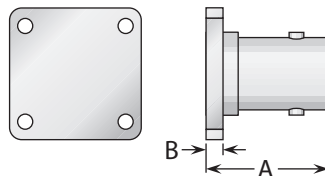


Figure 2  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.19	.800	.062	.090	18	Nickel	Silver (C)	UG-1104A/U
2	1.19	.800	.062	.080	33	Nickel	Silver (C)	1023000N330-000

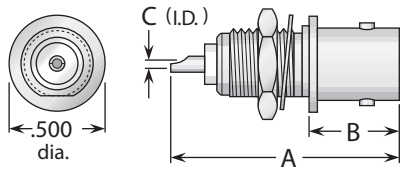
## Dummy Receptacles



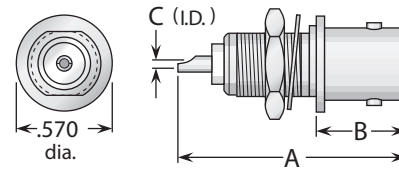
Dimensions		Mounting Figure	Plating		Delta P/N
A	B		Body	Contact	
.750	.090	09	Nickel	—	1063000N090-000

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

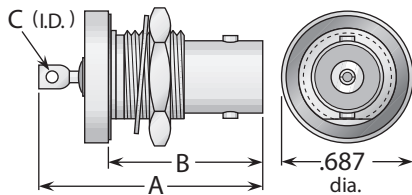
## Bulkhead Jack Receptacles



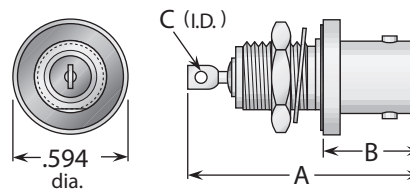
**Figure 1**  
(Front mount)



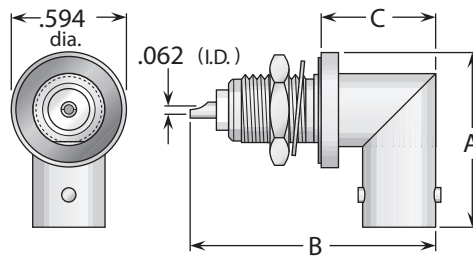
**Figure 2**  
(Front mount, pressurized [non-hermetic], with mounting gasket)



**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	.490	.062	.130	62	Nickel	Silver (C)	UG-625B/U
2	1.28	.600	.052	.190	75	Nickel	Silver (C)	UG-657/U
2	1.28	.600	.052	.190	75	Nickel	Silver (C)	UG-657A/U
1	1.06	.470	.062	.130	65	Nickel	Silver (C)	UG-1094/U
1	1.19	.470	.062	.260	65	Nickel	Silver (C)	UG-1094A/U
1	1.06	.490	.062	.130	62	Silver	Gold (C)	M39012/21-0001
1	1.19	.470	.062	.260	65	Silver	Gold (C)	M39012/21-0002
1	1.19	.470	.062	.260	62	Silver	Gold (C)	M39012/21-0003
3	1.20	.830	.062	.260	59	Nickel	Silver (C)	UG-911A/U
3	1.20	.830	.062	.260	59	Silver	Gold (C)	M39012/24-0001
4	1.20	.520	.062	.260	63	Nickel	Silver (C)	UG-912/U
4	1.33	.520	.062	.340	63	Nickel	Silver (C)	UG-912A/U
4	1.20	.520	.062	.260	63	Silver	Gold (C)	M39012/24-0002
5	.920	1.22	.590	.130	63	Nickel	Silver (C)	UG-1098/U
5	.920	1.34	.590	.250	63	Nickel	Silver (C)	UG-1098A/U
5	.920	1.22	.590	.130	62	Nickel	Silver (C)	UG-1174/U

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

## Bulkhead Jack Receptacles With Solder Lug

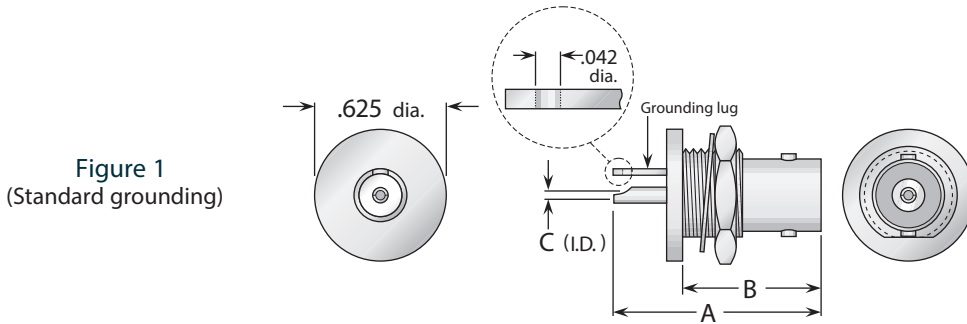


Figure 1  
(Standard grounding)

## Isolated-Ground Receptacles

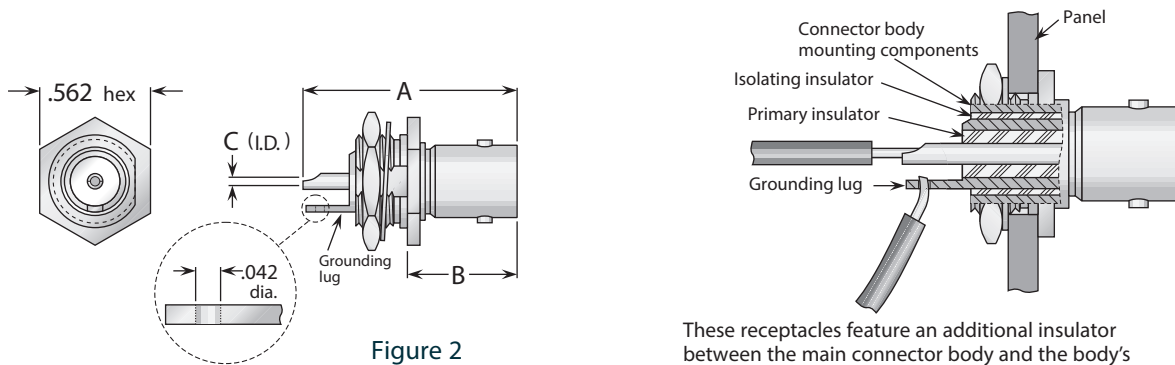


Figure 2  
(Isolated ground)

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

Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.06	.750	.062	.170	59	Nickel	Gold (C)	1021000N591-000
2	1.06	.500	.062	.170	59	Nickel	Gold (C)	1020000F59G-000

## Bulkhead Plug Receptacles

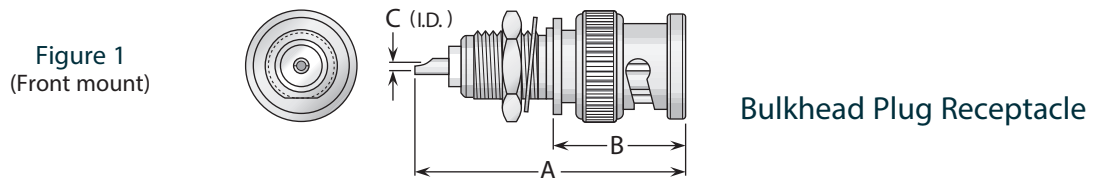


Figure 1  
(Front mount)

Bulkhead Plug Receptacle

Figure	Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
	A	B	C			Body	Contact	
1	1.25	.690	.062	.160	65	Nickel	Silver (C)	1024000N651-000

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

## Receptacles For Printed Circuit Boards

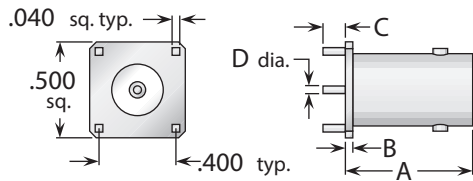


Figure 1

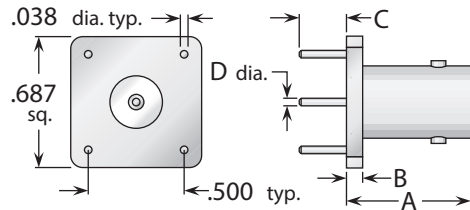


Figure 2

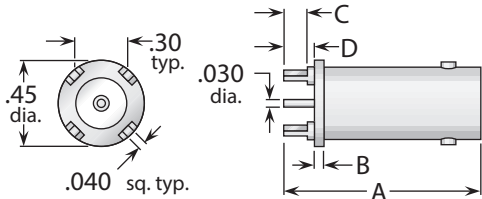


Figure 3

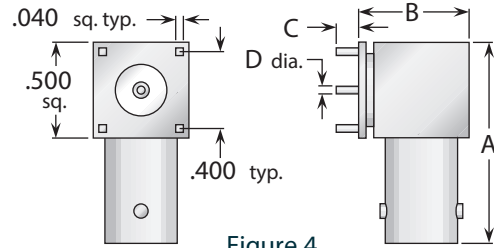


Figure 4

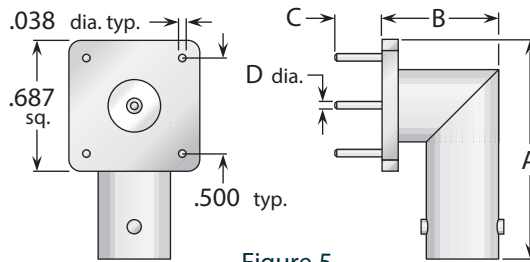


Figure 5

Figure	Dimensions				Max. Board Thickness	Mounting Figure	Plating		Delta P/N
	A	B	C	D			Body	Contact	
1	.660	.040	.116	.040	.063	PCB01	Nickel	Gold (C)	1058000N04P-000
1	1.15	.040	.116	.040	.063	PCB01	Nickel	Gold (C)	1058000N04P-001
2	.650	.085	.250	.038	.125	PCB02	Nickel	Gold (C)	1058000N13P-000
3	1.03	.050	.125	.160	.063	PCB03	Nickel	Silver (C)	1067000N91P-001
4	1.06	.575	.116	.040	.063	PCB01	Nickel	Gold (C)	1069000N03P-000
5	.950	.610	.250	.038	.125	PCB02	Nickel	Gold (C)	1069000N13P-000

## Stripline Receptacles

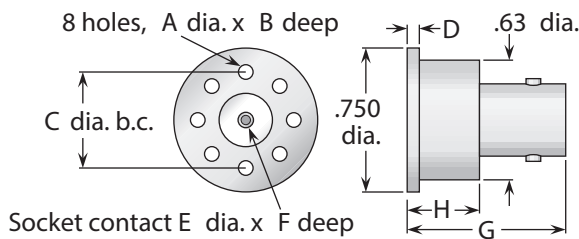


Figure 1

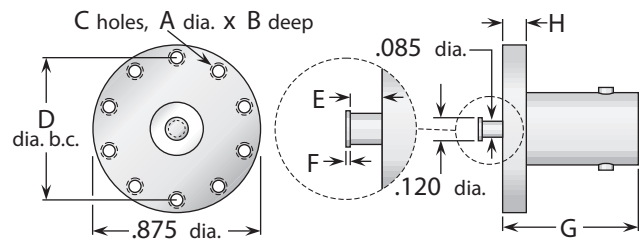


Figure 2

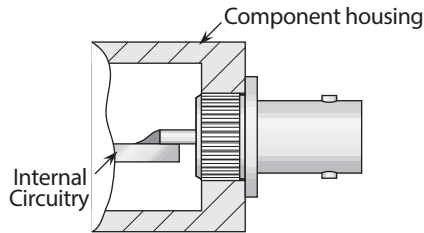
Figure	Dimensions								Plating		Delta P/N
	A	B	C	D	E	F	G	H	Body	Contact	
1	.078	.310	.500	.063	.063	.220	.828	.375	Nickel	Gold (C)	1056000N000-000
2	#2-56	.125	10	.734	.125	.010	.710	.125	Nickel	Gold	1057000N000-000

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



## Press Mount Receptacles

### Delta Press Mount 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.

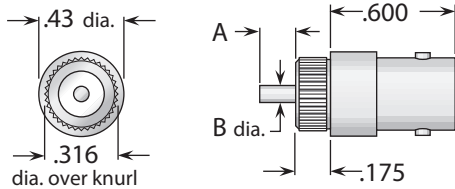


Figure 1  
(Post contact)

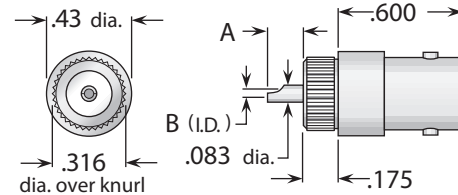


Figure 2  
(Solder pot contact)

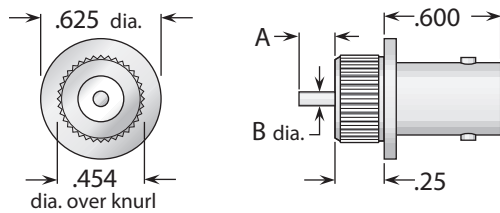


Figure 3  
(Post contact)

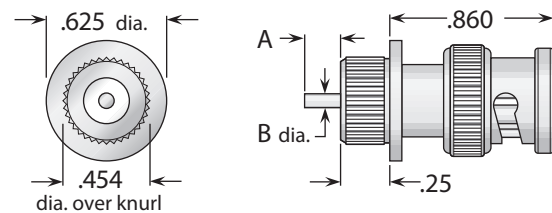
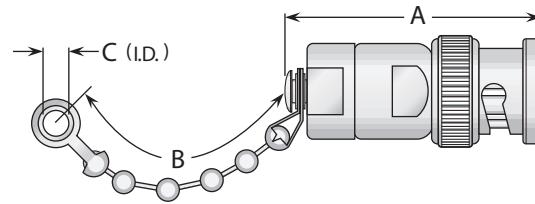


Figure 4  
(Plug type, post contact)

Figure	Dimensions		Min. Panel	Mounting Hole	Plating		Delta P/N
	A	B			Body	Contact	
1	.062	.050	.150	.312 ±.001 dia.	Nickel	Silver (C)	1020000N911-001
2	.285	.062	.150	.312 ±.001 dia.	Nickel	Silver (C)	1020000N911-002
3	.060	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1020000N911-013
4	.060	.050	.200	.450 ±.001 dia.	Nickel	Gold (C)	1024000N911-004

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

## Resistive Termination (Plug Type)



Resistor	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
51 Ω ±5%, 1/2 Watt	1.25	3.50	.144		Nickel	Gold (C)	MX-554/U
51 Ω ±5%, 1/2 Watt	1.41	3.50	.144		Nickel	Silver (C)	MX-554A/U
51 Ω ±5%, 1/2 Watt	1.14	—	—	No chain	Nickel	Gold (C)	1031000N00A-003
51 Ω ±5%, 1 Watt	1.50	4.50	.130		Nickel	Silver (C)	1051000N000-000
51 Ω ±5%, 1 Watt	1.39	—	—	No chain	Nickel	Silver (C)	1051000N00A-005
75 Ω ±5%, 1/2 Watt	1.41	3.50	.144		Nickel	Silver (C)	1031000N000-004
75 Ω ±5%, 1/2 Watt	1.14	—	—	No chain	Nickel	Gold (C)	1031000N00A-001
75 Ω ±5%, 1 Watt	1.39	—	—	No chain	Nickel	Silver (C)	1051000N00A-002

## Dust Caps

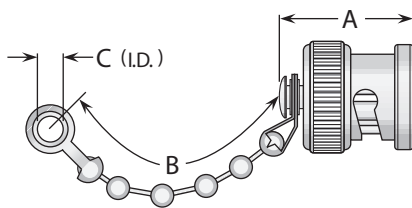


Figure 1  
(Shown with bead chain)

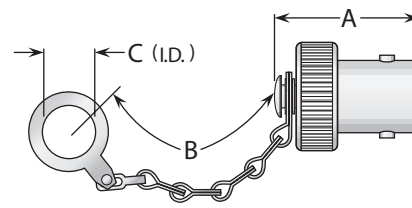
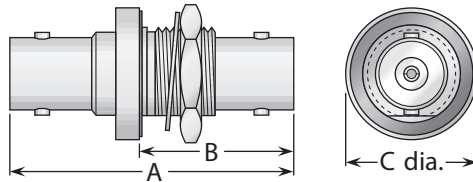


Figure 2  
(Shown with safety chain)

Figure	Dimensions			Features	Plating		Delta P/N
	A	B	C		Body	Contact	
1	.670	2.25	.144	Bead chain	Nickel	—	CW-123A/U
1	.590	—	—	No chain	Nickel	—	CW-155A/U
1	.690	2.25	.144	Bead chain / shorting type	Nickel	Silver (C)	CW-159/U
1	.670	2.25	.144	Bead chain	Silver	—	M39012/25-0006
1	.670	2.70	.520	Safety chain	Silver	—	M39012/25-0007
2	.690	3.25	.281	Bead chain	Nickel	—	CW-282/U
2	.690	3.25	.281	Bead chain	Silver	—	M39012/25-0008
2	.690	3.25	.281	Safety chain	Silver	—	M39012/25-0009

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

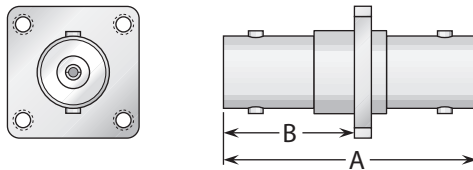
## Bulkhead Jack-Jack Adapter (Connects Two Plugs)



Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.53	.860	.690	.275	59	Nickel	Silver (C)	UG-492A/U *
1.53	.860	.690	.275	59	Nickel	Silver (C)	UG-492C/U *
1.53	.860	.690	.275	59	Nickel	Silver (C)	UG-492D/U *
1.53	.860	.690	.275	59	Silver	Gold (C)	M55339/13-00492 *
1.28	.800	.625	.160	59	Nickel	Silver (C)	1026000N591-000

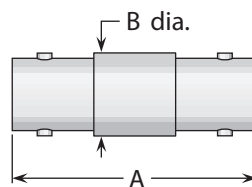
\* Hermetically sealed, with mounting gasket.

## Panel Mounted Jack-Jack Adapter (Connects Two Plugs)



Dimensions		Mounting Figure	Plating		Delta P/N
A	B		Body	Contact	
1.28	.690	07	Nickel	Silver (C)	UG-414A/U

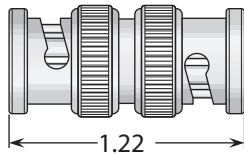
## Straight Jack-Jack Adapter (Connects Two Plugs)



Dimensions		Plating		Delta P/N
A	B	Body	Contact	
1.28	.440	Nickel	Silver (C)	UG-914/U
1.28	.440	Silver	Gold (C)	M55339/16-00914
1.28	.440	Nickel	Gold (C)	1028000N001-003

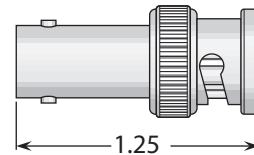
- (C) in contact plating column indicates captive contact.
- See page 6 for alternate body plating information.
- See page 208 for mounting dimensions.

## Straight Plug-Plug Adapter (Connects Two Jacks)



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

## Straight Plug-Jack Adapter (Connects One Jack & One Plug)



Plating		Delta P/N
Body	Contact	
Nickel	Gold (C)	1034000N000-000

## Right Angle & Tee Adapter

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

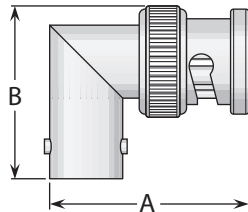


Figure 2  
(Tee jack-plug-jack;  
connects two plugs  
and one jack)

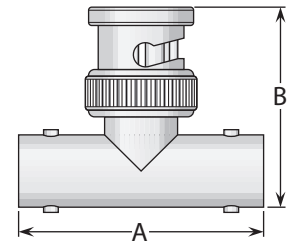


Figure 3  
(Tee jack-jack-jack;  
connects three plugs)

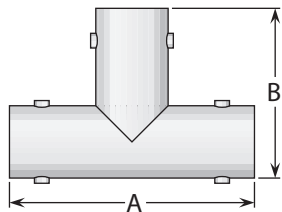


Figure 4  
(Tee jack-jack-plug;  
connects two plugs  
and one jack)

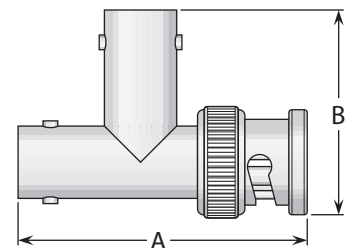


Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.06	.880	Nickel	Silver (C)	UG-306A/U
1	1.06	.880	Nickel	Silver (C)	UG-306B/U
1	1.06	.880	Silver	Gold (C)	M55339/14-00306
1	1.06	.880	Nickel	Gold (C)	1029000N000-003
2	1.28	1.03	Nickel	Silver (C)	UG-274A/U
2	1.28	1.03	Nickel	Silver (C)	UG-274B/U
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	.890	Nickel	Silver (C)	1038000N000-002
3	1.28	.970	Silver	Gold (C)	M55339/17-00002
4	1.50	1.06	Nickel	Silver (C)	1049000N000-000
4	1.50	1.06	Silver	Gold (C)	M55339/17-00001

• (C) in contact plating column indicates captive contact.

• See page 6 for alternate body plating information.

## BNC75 Configurations

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

## Straight & Right Angle Plugs For Flexible Cable

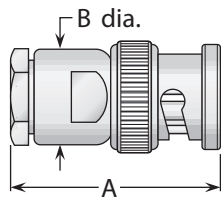


Figure 1  
(Heli-Grip® cable hardware)

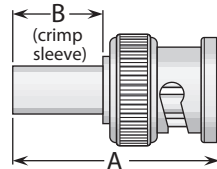


Figure 2  
(Crimp type)

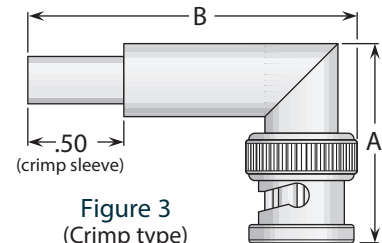
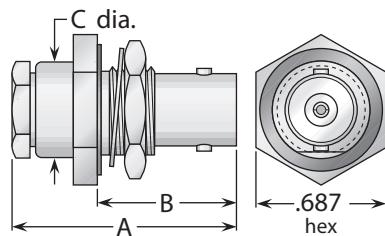


Figure 3  
(Crimp type)

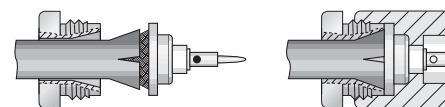
Cable Group	Figure	Dimensions		Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	Body	Contact		
7	1	1.06	.500	Nickel	Silver (C)	7501019N005-000	E/03
7	2	1.09	.500	Nickel	Gold	7503020N000-002	B/19
7	2	1.05	.410	Nickel	Gold (C)	7503020N001-000	B/26
7	3	1.03	1.71	Nickel	Gold	7507019N000-000	B/02
9	1	1.06	.500	Nickel	Silver (C)	7501037N005-000	E/03
9	2	1.13	.390	Nickel	Gold	7503037N001-000	B/27
9	3	1.03	1.71	Nickel	Gold	7507037N000-000	B/02
26	2	1.10	.450	Nickel	Gold (C)	7503108N001-000	B/26
31	2	1.13	.500	Nickel	Gold	7503279N001-000	B/19

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

Figure 1  
(Rear mount)



### Heli-Grip® Cable Attachment

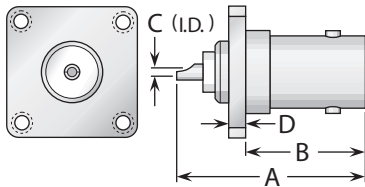


These connectors have captivated contacts and allow rapid, easy assembly—simply trim the cable, slide into the cone/insulator/contact assembly (left), solder the center conductor to the contact, and screw body assembly (right) onto cable assembly.

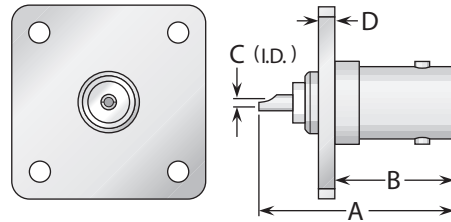
Cable Group	Fig.	Dimensions			Mounting Figure	Max. Panel	Plating		Delta P/N	Assembly Procedure/ Trim Code
		A	B	C			Body	Contact		
7	1	1.16	.810	.500	59	.240	Nickel	Gold (C)	7516019N595-000	E/03
9	1	1.16	.810	.500	59	.240	Nickel	Gold (C)	7516037N595-000	E/03

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

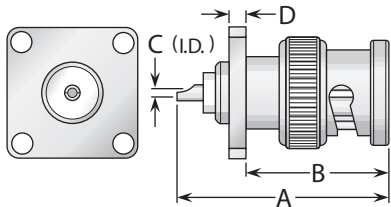
## Panel Jack & Plug Receptacles - Square Flange



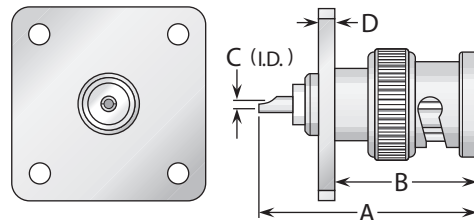
**Figure 1**  
(Solder pot contact, 11/16" square flange)



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



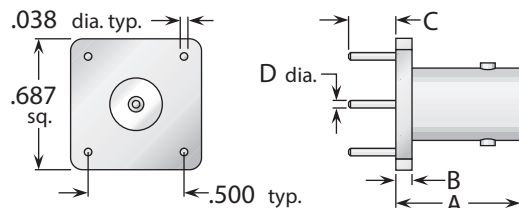
**Figure 3**  
(Solder pot contact, 3/4" square flange)



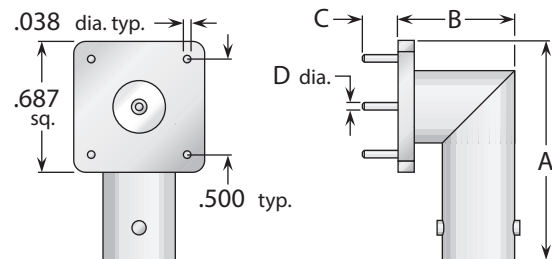
**Figure 4**  
(Solder pot contact, 1" square flange, interchangeable with type N standard flange size)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.630	.030	.090	09	Nickel	Gold (C)	7513000N091-000
2	1.06	.630	.030	.080	33	Nickel	Gold (C)	7513000N331-002
3	1.19	.800	.030	.090	18	Nickel	Gold (C)	7523000N180-000
4	1.19	.800	.030	.080	33	Nickel	Gold (C)	7523000N331-001

## 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	.650	.085	.250	.038	.125	PCB02	Nickel	Gold (C)	7567000N13P-001
2	1.34	.520	.125	.038	.063	PCB02	Nickel	Silver (C)	7569000N13P-000

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

## Bulkhead Jack Receptacles

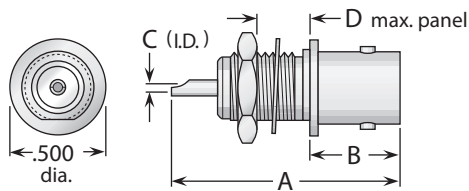


Figure 1  
(D-hole mounting)

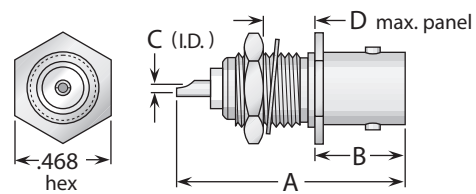
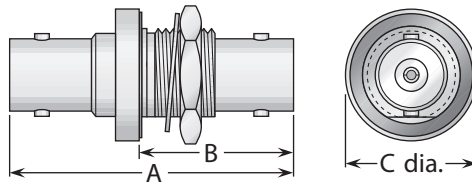


Figure 2  
(Round hole mounting)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.06	.570	.030	.130	65	Nickel	Gold (C)	752000N651-001
2	1.06	.470	.030	.130	89	Nickel	Gold (C)	752100N621-002

## Bulkhead Jack - Jack Adapter (Connect Two Plugs)



Dimensions			Max. Panel	Mounting Figure	Plating		Delta P/N
A	B	C			Body	Contact	
1.28	.760	.625	.160	59	Nickel	Silver (C)	752600N591-000 *
1.28	.800	.625	.160	59	Nickel	Silver (C)	752600N591-001

## Straight & Right Angle Adapters

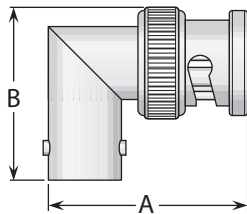


Figure 1  
(Right angle plug-jack;  
connects one plug and one jack)

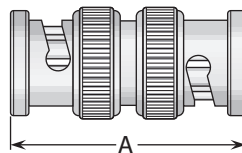


Figure 2  
(Straight plug-plug;  
connects two jacks)

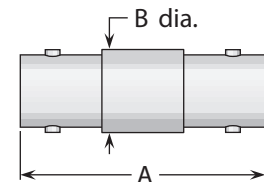


Figure 3  
(Straight jack-jack;  
connects two plugs)

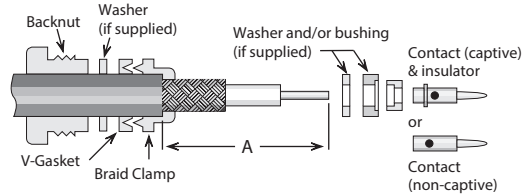
Figure	Dimensions		Plating		Delta P/N
	A	B	Body	Contact	
1	1.06	.880	Nickel	Gold (C)	752900N000-000
2	1.22	—	Nickel	Gold (C)	752700N001-000
3	1.28	.440	Nickel	Gold (C)	752800N001-000

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

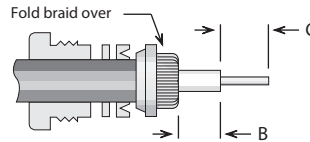


## Assembly Procedure A

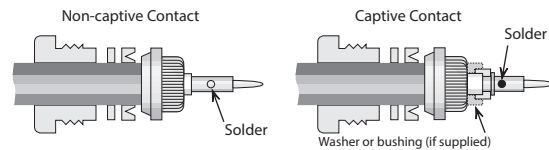
- 1) Trim cable jacket to dimension A. Slide backnut, washer, V-gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.



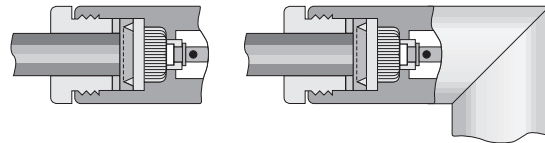
- 2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with step of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.



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



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



### Trim Codes For Assembly Procedure A

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

## Assembly Procedure B

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



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



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

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

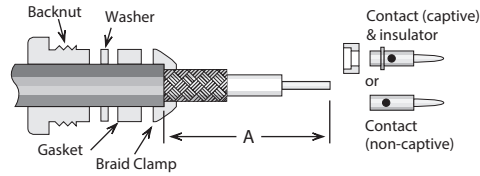
For right angle or tee connectors with access caps: Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.



### Trim Codes For Assembly Procedure B

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

## Assembly Procedure C



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



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



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

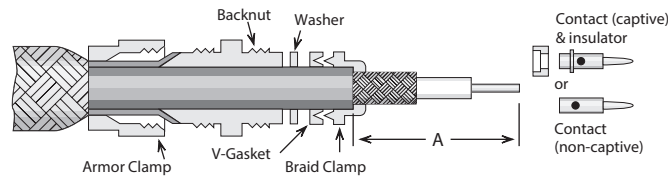


- 4) Insert prepared cable and hardware into body and tighten backnut. For right angle connectors with access cap, solder cable center conductor to slot in contact and tighten access cap.

### Trim Codes

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

## Assembly Procedure D



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



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



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



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

### Trim Codes

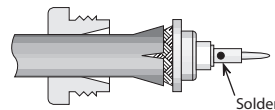
Code	A	B	C
D/01	.375 (3/8)	.047 (3/64)	.250 (1/4)
D/02	.500 (1/2)	.188 (3/16)	.219 (7/32)
D/03	.344 (11/32)	.047 (3/64)	.219 (7/32)
D/04	.313 (5/16)	.047 (3/64)	.172 (11/64)
D/05	.625 (5/8)	.281 (9/32)	.250 (1/4)
D/06	.313 (5/16)	.062 (1/16)	.109 (7/64)

## Assembly Procedure E

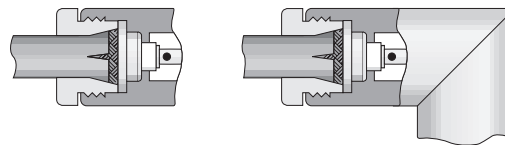


- 1) Slide backnut onto cable as shown. Trim cable to dimensions A and B as shown. Slit jacket to dimension C in two places, 180° apart.

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



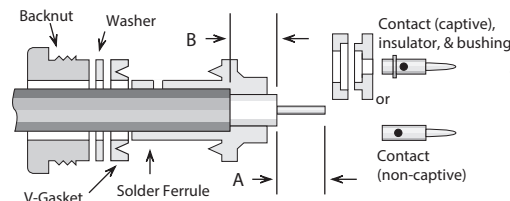
- 2) Slide cone/insulator/contact assembly under braid until braid is flush with shoulder. Solder contact to center conductor.



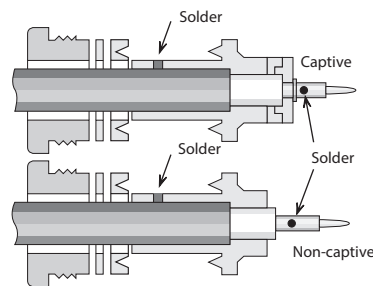
- 3) Insert prepared cable and hardware into body; tighten assembly by holding nut stationary and turning body.

## Assembly Procedure F

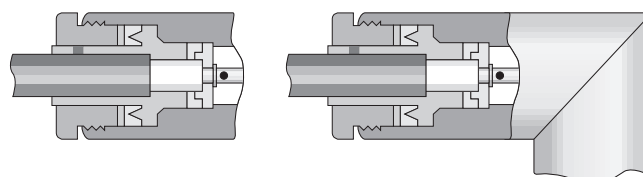
Trim Codes		
Code	A	B
F/01	.250 (1/4)	.219 (7/32)
F/02	.250 (1/4)	.172 (11/64)
F/03	.188 (3/16)	.188 (3/16)
F/04	.109 (7/64)	.265 (17/64)
F/05	.156 (5/32)	.250 (1/4)
F/06	.219 (7/32)	.250 (1/4)
F/07	.156 (5/32)	.172 (11/64)
F/08	.109 (7/64)	.219 (7/32)



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

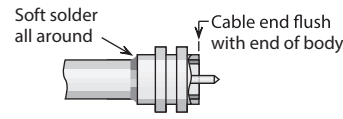
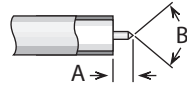


- 2) Solder ferrule to cable jacket as shown. Retrim cable dielectric to proper length if it has extruded from soldering heat. Slide bushing and rear insulator over cable dielectric if captive contact. Solder contact onto center conductor; back of contact flush with trimmed end of cable dielectric.



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

## Assembly Procedure G



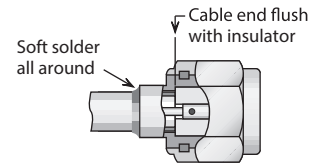
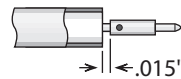
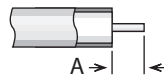
Trim Codes		
Code	A	B
G/01	.090	70-90°

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

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

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

## Assembly Procedure H



Trim Codes	
Code	A
H/01	.090
H/02	.060
H/03	.115
H/04	.150

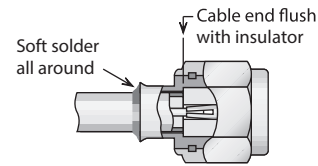
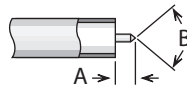
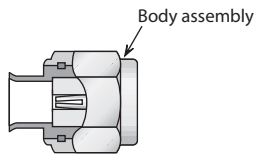
1) Trim cable as shown. Remove any burrs from jacket and center conductor.

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

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

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

## Assembly Procedure I



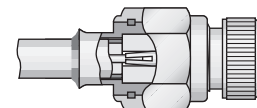
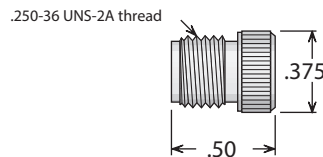
Trim Codes		
Code	A	B
I/01	.090	70-90°

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

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

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

### Cable Positioner



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

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

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

## Assembly Procedure J

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



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



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

## Assembly Procedure K



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

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



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

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

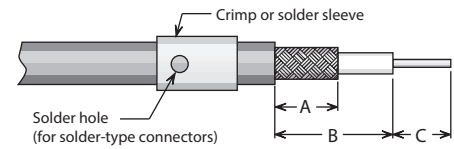
Trim Codes							
Code	A	B	C	Code	A	B	C
K/01	.250	.270	.110	K/07	.220	.290	.135
K/02	.200	.270	.140	K/08	.420	.620	.090
K/03	.225	.290	.110	K/09	.090	.135	.160
K/04	.225	.330	.110	K/10	.250	.415	.115
K/05	.250	.330	.110	K/11	.250	.400	.150
K/06	.250	.315	.095	K/12	.282	.390	.140

## Assembly Procedure L

### Trim Codes

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

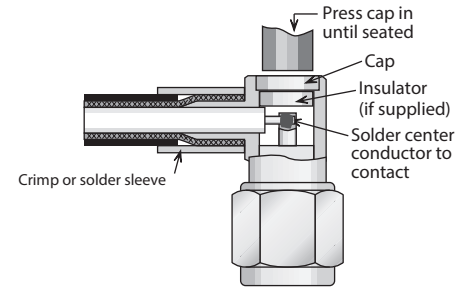
- 1) Trim cable per chart. Slide crimp (or solder) sleeve onto cable.



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

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

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

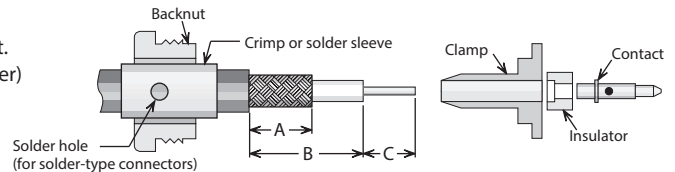


## Assembly Procedure M

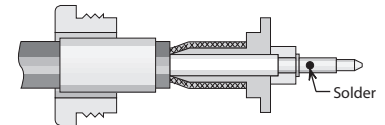
### Cable Trim Codes

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

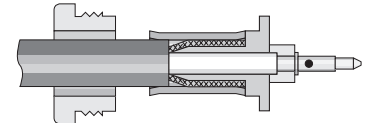
- 1) Trim cable per chart. Slide crimp (or solder) sleeve and backnut onto cable.



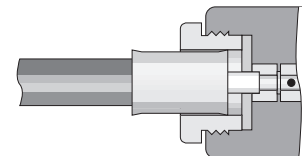
- 2) Flare cut end of braid slightly by rotating dielectric. Insert cable into rear of clamp, with all braid wires on outside of crimp tail. Slide insulator over cable dielectric until it is flush with front of clamp, and cable insulation bottoms inside insulator. Slide contact onto center conductor,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



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



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



## Crimp Tools For Flexible Cable



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

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

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



## Connector Flanges (Panel Mounted Connectors)



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

\* Countersunk to .245 dia.

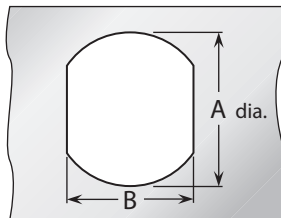


2-hole flanges				
Figure	A	B	C	D
92	.223	.481	.625	.102
92A	.260	.481	.625	.102
95	.640	1.015	1.30	.125

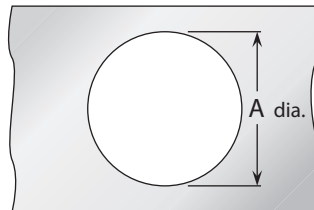
## Panel Cutouts (Bulkhead Mounted Connectors)



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



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



Round Hole	
Figure	A
82	.255
89	.380

## P.C. Board Drilling



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

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



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

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

## Delta Cable Groups

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

## Cable Group Finder

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

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

## Warranty

We warrant our parts to be free of defects and workmanship for one year from purchase. During that time we will repair or replace (at our option) any parts found to be defective. The warranty does not apply to parts that have been modified, used in conditions exceeding Seller's, 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. The terms of the applicable warranty or warranties, as the case may be, as set forth herein are the sole and exclusive warranty terms that shall have any force or effect in the any product order, resulting from the quotation and such terms and in lieu of all other warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose, which are hereby expressly excluded.



## 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.

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