

General Description

Delta 7/16 series connectors are medium size, 50 Ω impedance connectors with M29 x 1.5 metric threaded coupling. These rugged connectors conform to DIN 47223, and feature good power-handling capability along with VSWR as low as 1.07:1 @ 2 GHz. Because these connectors are designed to minimize signal distortion from intermodulation, silver plating is standard. The optional Albaloy plating provides greatly increased tarnish resistance while preserving the connectors' low intermodulation characteristics; optional nickel plating should only be specified when low intermodulation is not a concern in your system design.

As with our other connector series, Delta's customer-driven design results in 7/16 series connectors with practical and unique features that make your design and assembly process easier. Some of these include:

- VersaCom combination cable connectors (page 170) let you stock various body and cable attachment subassemblies, and assemble them into straight or right angle connectors as needed.
- PressMount receptacles (pages 171 and 172) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- Panel receptacles with flange sizes to match the same hole pattern as standard type N connectors, letting you drill one hole pattern and mount BNC, N, SMA, TNC, or 7/16 series connectors as needed.
- All Delta 7/16 series plugs feature a coupling nut with a knurled surface for secure grip when hand-tightening, and a hex for tightening with a wrench. All can be supplied with full-length hex coupling nuts as well.

Our 7/16 series product line is still growing, so please call if you don't see what you need.

7/16 Configurations

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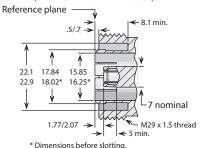
7/16 Specifications*

Electrical:

Nominal Impedance: 50 ohms. Frequency Range: DC-7.5 GHz. Voltage Rating: 2,700 volts RMS.

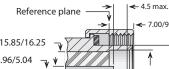
Dielectric Withstanding Voltage: 4,000 VRMS. Insulation Resistance: 10,000 megohms.

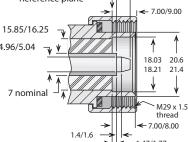
Jack Interface** (All dimensions in millimeters.)



Inner and outer contacts slotted and flared to meet performance requirements

Plug Interface** (All dimensions in millimeters.)





^{**}Some proportions altered to illustrate detail.

Materials/Finishes:

Insulators: Teflon per ASTM D1710. Male Contacts: Brass per ASTM B16.

Female Contacts: Spring Brass per ASTM B16,

or phosphor bronze per ASTM B139

Contact Plating: Silver per ASTM B700,

or Gold per MIL-DTL-45204.

Gaskets: Silicone rubber per ZZ-R-765,

Class II, Grade 50.

Other Metal Parts: Brass per ASTM B16,

plated Silver per ASTM B700.

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.



Straight Plug - For Flexible & Semi-Rigid Cable

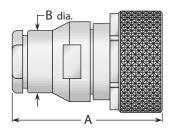


Figure 1 (Clamp type for flexible cable)

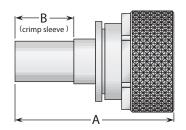


Figure 2 (Crimp type for flexible cable)

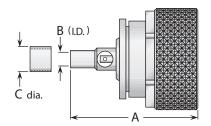


Figure 3 (Solder type for semi-rigid cable)

Cable	Eiguro	Figure Dimensions		Plat	ting	Delta P/N	Assembly Procedure/	
Group	rigure	Α	В	С	Body	Contact	Della P/IN	Trim Code
2, 3	1	1.85	.750	_	Silver	Gold (C)	9201004A001-000	A/01
4	1	1.85	.750	_	Silver	Gold (C)	9201079A001-000	A/01
3, 4	2	1.89	.630	_	Silver	Silver (C)	9203005A001-000	***
12	3	1.72	.254	.387	Silver	Silver (C)	9201050A003-002	***
13	3	1.59	.148	.319	Silver	Silver (C)	9201031A003-000	***

Right Angle Plug - For Flexible & Semi-Rigid Cable

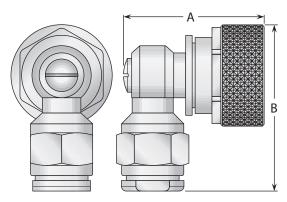


Figure 1 (Clamp type for flexible cable or solder-clamp for semi-rigid cable)

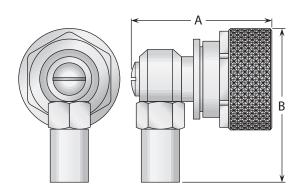


Figure 2 (Crimp type for flexible cable)

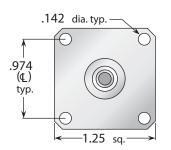
Cable	Eiguro	Dime	nsions	Pla	ting	Delta P/N	Assembly Procedure/
Group	Figure	А	В	Body	Contact	Della P/IN	Trim Code
2, 3	1	1.68	2.04	Silver	Silver (C)	9205005A001-002	A/35
4	1	1.68	2.04	Silver	Silver (C)	9205079A001-001	A/35
5, 6	1	1.68	1.53	Silver	Silver (C)	9205015A001-000	A/36
12	1	1.68	2.04	Silver	Silver (C)	9205050A003-001	***
13	1	1.68	1.53	Silver	Silver (C)	9205031A003-000	***
3, 4	2	1.68	1.86	Silver	Silver (C)	9207005A001-000	B/31
5	2	1.68	1.73	Silver	Silver (C)	9207017A001-000	B/31
6	2	1.68	1.73	Silver	Silver (C)	9207015A001-000	B/31

[•] See page 209 for cable groups. • Cable assembly instructions start on page 210. • ***Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.



Panel Mounted Jacks - For Flexible & Semi-Rigid Cable

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



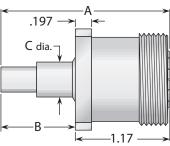
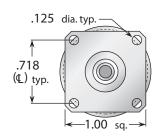


Figure 2

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



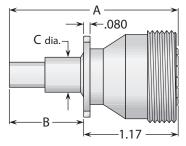
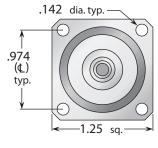


Figure 3

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



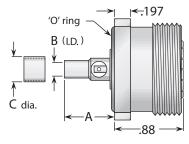
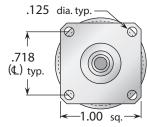
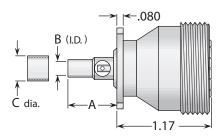


Figure 4

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





Cable	Figure	Dimensions			Plat	ing	Delta P/N	Assembly Procedure/
Group	rigure	Α	В	С	Body	Contact	Della P/N	Trim Code
3, 4	1	2.34	1.17	.625	Silver	Silver	9255005A911-000	B/19
6	1	2.21	1.04	.625	Silver	Silver	9255015A911-000	B/19
3, 4	2	2.34	1.17	.625	Silver	Silver	9255005A331-000	B/19
6	2	2.21	1.04	.625	Silver	Silver	9255015A331-000	B/19
12	3	.600	.254	.387	Silver	Silver (C)	9211050A911-001	***
13	3	.600	.148	.319	Silver	Silver (C)	9211031A911-001	***
12	4	.600	.254	.387	Silver	Gold (C)	9211050A331-000	***
13	4	.600	.148	.319	Silver	Gold (C)	9211031A331-000	***

See page 209 for cable groups.
 Cable assembly instructions start on page 210.
 ****Contact factory for cable assembly instructions.
 See page 6 for alternate body plating information.

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



Bulkhead Mounted Jacks - For Flexible & Semi-Rigid Cable

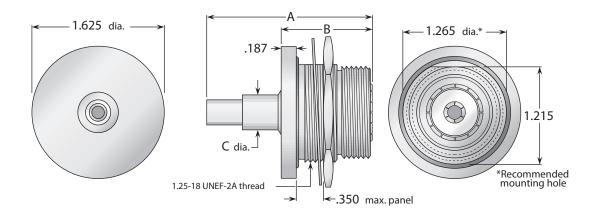


Figure 1 (Crimp type for flexible cable)

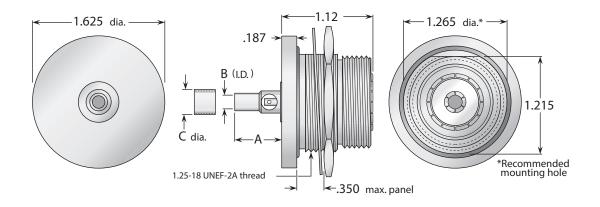


Figure 2 (Solder type for semi-rigid cable)

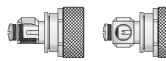
Cable	Figure	Dimensions			Pla	ting	Delta P/N	Assembly Procedure/	
Group	rigure	Α	В	С	Body	Contact	Deita P/N	Trim Code	
3, 4	1	2.34	1.17	.625	Silver	Silver (C)	9219005A911-000	B/19	
12	2	.470	.254	.387	Silver	Silver (C)	9216050A911-000	***	
13	2	.600	.148	.319	Silver	Silver (C)	9216031A911-000	***	

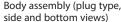
[•] See page 209 for cable groups. • Cable assembly instructions start on page 210. • ***Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

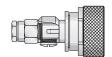


The Delta Versatile Combination Connector System

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





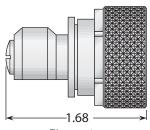


Body assembly and clamp type cable fitting, combined in straight configuration



Same parts in rightangle configuration.

VersaCom Body Assemblies





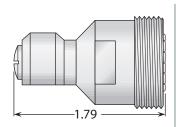
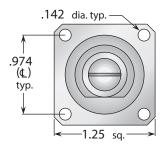


Figure 2



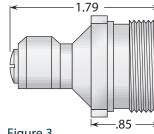


Figure 3

Body Style	Figure	Body Plating	Contact Plating	Delta P/N		
Plug	1	Silver	Silver (C)	9203000A001-000		
Jack	2	Silver	Silver (C)	9208000A001-000		
Panel Jack	3	Silver	Silver (C)	9211000A911-001		

Cable Fittings For VersaCom Connectors

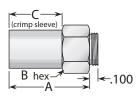
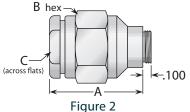


Figure 1 (Crimp type for flexible cable)



(Clamp type for flexible cable or solder-clamp for semi-rigid cable)

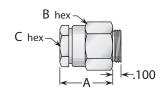


Figure 3 (Clamp type for flexible cable or solder-clamp for semi-rigid cable)

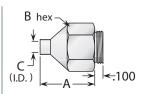


Figure 4 (Direct solder for semi-rigid cable)

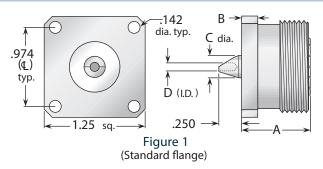
Cable	Figuro	Di	mension	ıs	Disting	Dolta D/N	Assembly Procedure/
Group	Figure	Α	В	С	Plating	Delta P/N	Trim Code
2	1	.960	.500	.630	Silver	10-10676-01-AG	B/31
2, 3	2	1.14	.750	.625	Silver	10-10681-01-AG	A/35
3, 4	1	.960	.500	.630	Silver	10-10677-01-AG	B/31
4	2	1.14	.750	.625	Silver	10-10682-01-AG	A/35
5, 6	3	.630	.500	.437	Silver	10-10683-01-AG	A/36
5	1	.830	.500	.500	Silver	10-10678-01-AG	B/31
6	1	.830	.500	.500	Silver	10-10679-01-AG	B/31
7	1	.830	.500	.500	Silver	10-10680-01-AG	B/31
7	3	.630	.500	.437	Silver	10-10684-01-AG	A/36
12	2	1.14	.750	.625	Silver	10-10685-01-AG	***
12	4	.630	.500	.254	Silver	10-10687-01-AG	***
13	3	.630	.500	.437	Silver	10-10686-01-AG	***
13	4	.630	.500	.143	Silver	10-10688-01-AG	***

[•] See page 209 for cable groups. • Cable assembly instructions start on page 210. • ***Contact factory for cable assembly instructions.

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



Jack Receptacles - Solder Pot Contact



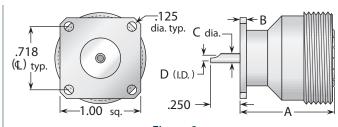
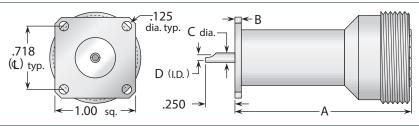
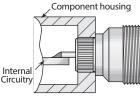


Figure 2 (1" square flange, interchangeable with type N standard flange size)

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 preciselyengineered knurled mounting section provides retention strength greater than normal mating and unmating forces. An integral shoulder provides a positive stop when mounting.

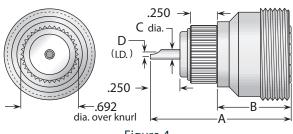


Figure 4 (PressMount)

Eiguro		Dime	nsions		Mounting	Plat	ing	Delta P/N
Figure	Α	В	С	D	Figure	Body	Contact	Delta P/N
1	.850	.197	.274	.100	See above	Silver	Silver (C)	9213000A911-003
2	1.17	.080	.120	.100	33	Silver	Gold (C)	9213000A911-004
3	2.17	.080	.120	.100	33	Silver	Gold (C)	9213000A911-010
4	1.42	.819	.120	.100	.688±.001 dia.	Silver	Gold (C)	9220000A911-000

Panel Jack Receptacles - Threaded Contact



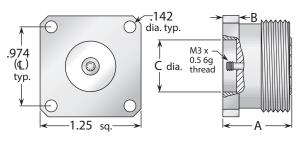
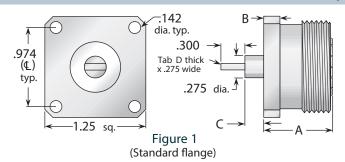


	Figure	Dir	mensions	5	Mounting	Plat	ing	Delta P/N
		Α	В	С	Figure	Body	Contact	Delta P/N
	1	.850	.197	.630	See above	Silver	Silver (C)	9258000A911-000

- (C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.
 - All items are available with other flange sizes and contact configurations.
- · 7/16 connectors with 1" square flanges have lower maximum power rating than standard-flange connectors—contact factory for details.



Panel Jack Receptacles - Tab Contact



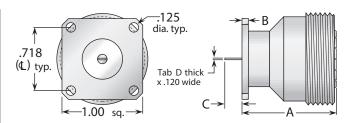
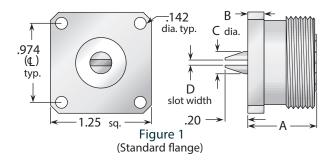


Figure 2 (1" square flange, interchangeable with type N standard flange size)

Figure		Dimer	nsions		Mounting	Plat	ting	Delta P/N
	A B C D				Figure	Body	Contact	Della P/N
1	.850	.197	.200	.100	See above	Silver	Silver (C)	9258000A911-006
2	1.17	.080	.100	.005/.008	33	Silver	Gold (C)	9258000A331-000

Panel Jack Receptacles - Slotted Contact



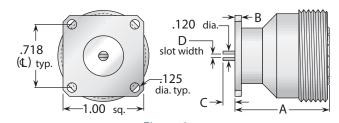


Figure 2 (1" square flange, interchangeable with type N standard flange size)

Figure		Dime	nsions		Mounting	Plat	ing	Delta P/N
	Α	В	С	D	Figure	Body	Contact	Delta P/N
1	.850	.197	.276	.095	See above	Silver	Silver (C)	9258000A911-007
2	1.17	.080	.050	.013/.017	33	Silver	Gold (C)	9258000A331-010

Panel Jack Receptacles - Post Contact

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

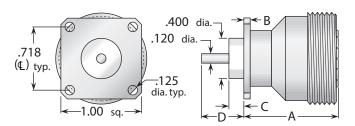


	Figure		Dimen	sions		Mounting	Plat	ting	Delta P/N
	riguie	А	В	С	D	Figure	Body	Contact	Deita F/N
	1	1.17	.080	.325	.500	33	Silver	Silver (C)	9258000A331-005
	1	1.17	.080	.000	.750	33	Silver	Silver (C)	9258000A331-002
	1	1.17	.080	.000	.562	33	Silver	Silver (C)	9258000A331-003

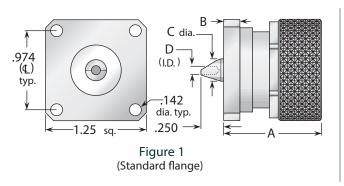
^{• (}C) in contact plating column indicates captive contact. • See page 6 for alternate body plating information.

[•] All items are available with other flange sizes and contact configurations.

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



Plug Receptacles - Solder Pot Contact



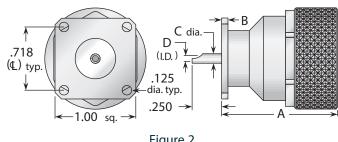
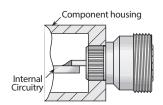


Figure 2 (1" square flange, interchangeable with type N standard flange size)



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 preciselyengineered knurled mounting section provides retention strength greater than normal mating and unmating forces. An integral shoulder provides a positive stop when mounting.

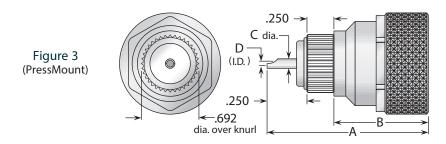


	Figure	Dimensions				Mounting	Plat	ting	Delta P/N
	rigure	Α	В	С	D	Figure	Body	Contact	Deita P/N
	1	1.21	.197	.274	.100	See above	Silver	Silver (C)	9223000A911-000
	2	1.40	.080	.120	.100	33	Silver	Gold (C)	9223000A911-003
	3	1.65	1.05	.120	.100	.688±.001 dia.	Silver	Gold (C)	9224000A911-000

Panel Plug Receptacles - Threaded Contact



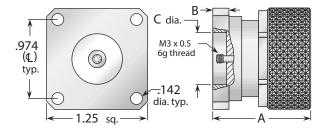


Figure	Dimensions			Mounting	Plat	ting	Delta P/N
rigure	Α	В	C	Figure	Body	Contact	Deila P/N
1	1.21	.197	.630	See above	Silver	Silver (C)	9223000A911-001

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

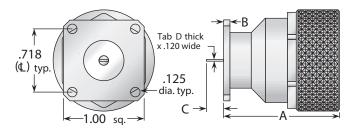
[•] All items are available with other flange sizes and contact configurations.

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



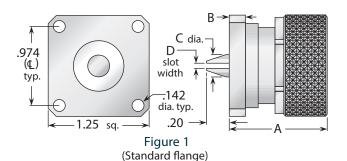
Panel Plug Receptacles - Tab Contact

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



	Eiguro		Dimensions			Mounting	Plat	ing	Delta P/N
	Figure	Α	В	С	D	Figure	Body	Contact	Delta P/N
	1	1.40	.080	.100	.005/.008	33	Silver	Gold (C)	9259000A331-000

Panel Plug Receptacles - Slotted Contact



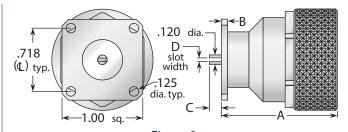


Figure 2 (1" square flange, interchangeable with type N standard flange size)

Figure		Dimensions				Plat	ing	Delta P/N
Figure	Α	В	С	D	Figure	Body	Contact	Della P/N
1	1.21	.197	.276	.095	See above	Silver	Silver (C)	9223000A911-002
2	1.40	.080	.050	.013/.017	33	Silver	Gold (C)	9259000A331-006

Panel Plug Receptacles - Post Contact

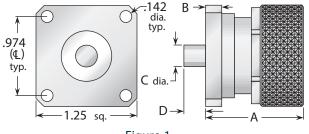


Figure 1 (Standard flange)

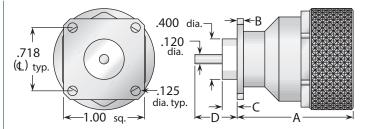


Figure 2 (1" square flange, interchangeable with type N standard flange size)

Figure		Dimensions			Mounting	Plat	ing	Delta P/N
Figure	Α	В	С	D	Figure	Body	Contact	Delta P/N
1	1.21	.197	.274	.250	See above	Silver	Silver (C)	9259000A911-004
2	1.40	.080	.325	.500	33	Silver	Silver (C)	9259000A331-007
2	1.40	080	000	562	33	Silver	Gold (C)	9259000A331-001

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

[•] All items are available with other flange sizes and contact configurations.

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



Bulkhead Mounted Jack-Jack Adapter (Connects Two Plugs)

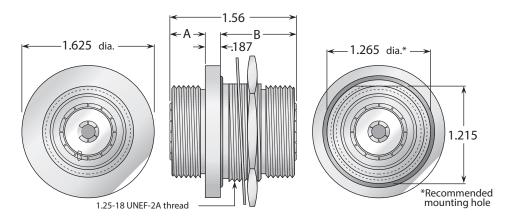
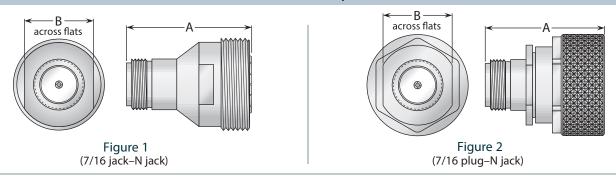


Figure 1

Figure	Dimensions		Max. Mounting		Plat	ting	Delta P/N
Figure	Α	В	Panel	Figure	Body	Contact	Della P/N
1	.440	.933	.350	See above	Silver	Silver (C)	9226000A911-001

7/16 To N Adapters



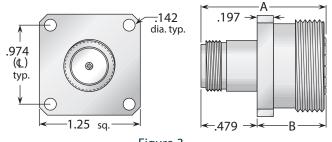


Figure 3 (7/16 jack–N jack, panel mounted)

	Eiguro	Dimer	nsions	Pla	ting	Delta P/N
	Figure	А	В	Body	Contact	Deita F/N
	1	1.33	.937	Silver	Gold (C)	2228000A001-029
	2	1.41	.875	Silver	Gold (C)	2234000A001-122
	3	1.33	.850	Silver	Silver (C)	2225000A911-009

^{• (}C) in contact plating column indicates captive contact.

[•] See page 6 for alternate body plating information.

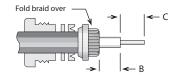


Assembly Procedures

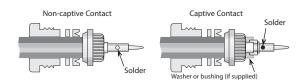
Assembly Procedure A

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.

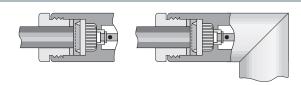
- Washer (if supplied) Washer and/or bushing (if supplied) Contact (captive) & insulator V-Gasket Contact Braid Clamp (non-captive)
- 2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with 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

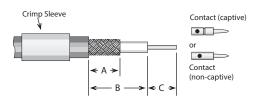
Code	Α	В	С	lL	Code	Α	В	С
A/01	.375 (3/8)	.047 (3/64)	.203 (13/64)		A/20	.375 (3/8)	.047 (3/64)	.172 (11/64)
A/02	.375 (3/8)	.109 (7/64)	.203 (13/64)	J L	A/21	.500 (1/2)	.313 (5/16)	.172 (11/64)
A/03	.438 (7/16)	.250 (1/4)	.188 (3/16)		A/22	.375 (3/8)	.188 (3/16)	.141 (9/64)
A/04	.281 (9/32)	.047 (3/64)	.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	1 [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.



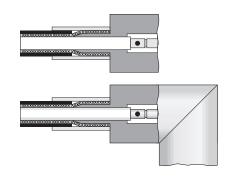
2) If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Solder contact onto center conductor; back of contact flush with trimmed end of cable dielectric (omit this step for right angle connectors with access caps). Flare cut end of braid slightly by rotating dielectric.



- 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).

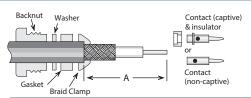
For right angle or tee connectors with access caps: Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.



Trim Codes For Assembly Procedure B Code C Code В C B/01 .320 .470 .140 B/20 .250 .375 .156 .425 .550 B/02 .422 .578 .172 B/21 .156 B/03 .406 .500 .187 B/22 .375 .500 .156 B/04 .285 .505 .140 .281 .469 .125 B/23 .140 .250 .700 .109 B/05 .335 .460 B/24 B/06 .219 .125 .187 .437 B/25 .343 .775 B/07 .422 .610 .156 .343 .437 .109 B/26 .437 B/08 .422 .562 .219 B/27 .313 .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 .500 .650 .219 B/30 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 B/34 .150 .250 .105 .420 .120 B/16 .125 .195 .170 .312 .609 B/35 .280 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 .250 .300 B/39 .135

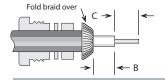
Assembly Procedures

Assembly Procedure C

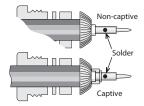


1) Trim cable jacket to dimension A. Slide backnut, washer, gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.

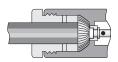
	Trim Codes						
Code	Code A		C				
C/01	.656 (21/32)	.141 (9/64)	.250 (1/4)				
C/02	.500 (1/2)	.125 (1/8)	.250 (1/4)				
C/03	.450	.136	.187				
C/04	C/04 .375 (3/8)		.125 (1/8)				
C/05	.375 (3/8)	.062 (1/16)	.250 (1/4)				
C/06	.500 (1/2)	.188 (3/16)	.125 (1/8)				
C/07	C/07 .575		.094				
C/08	.625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

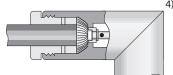


Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with edge of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.



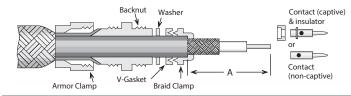
3) If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Assemble rear insulator (if captive contact) and contact, and solder contact to center conductor. Rear of contact should be flush with cable dielectric end.



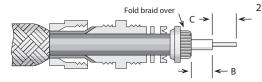


4) Insert prepared cable and hardware into body and tighten backnut. For right angle connectors with access cap, solder cable center conductor to slot in contact and tighten access cap.

Assembly Procedure D

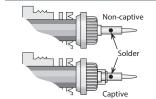


1) Slide armor clamp over cable. Push armor back to expose cable end. Slide backnut, washer (if supplied), gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp. Trim cable jacket to dimension A.

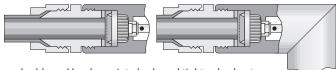


2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with edge of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.

Trim Codes							
Code	Α	В	С				
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)				
		•					



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.

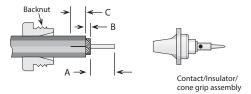


4) Insert prepared cable and hardware into body and tighten backnut. Trim armor to fit between armor clamp and braid clamp. Tighten armor clamp.



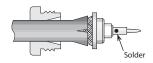


Assembly Procedure E



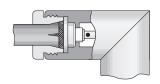
1) Slide backnut onto cable as shown. Trim cable to dimensions A and B as shown. Slit jacket to dimension C in two places, 180° apart.

Trim Codes						
Code	Α	В	С			
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)			



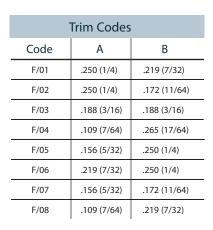
2) Slide cone/insulator/contact assembly under braid until braid is flush with shoulder. Solder contact to center conductor.

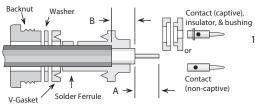




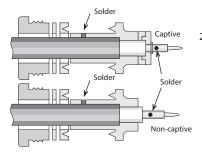
3) Insert prepared cable and hardware into body; tighten assembly by holding nut stationary and turning

Assembly Procedure F

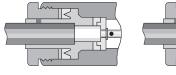


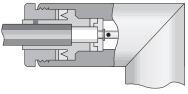


1) Trim cable per chart. Slide backnut, washer, v-gasket, and solder ferrule onto cable. Trimmed end of cable jacket should bottom on step in solder ferrule.



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.

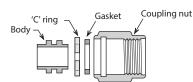




3) Insert prepared cable and hardware into body and tighten backnut.

Assembly Procedures

Assembly Procedure G



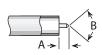
Trim Codes

В

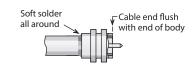
70-90°

Code

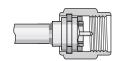
G/01



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

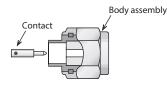


2) Soft solder cable jacket to body, making sure that end of cable is flush with end of body. After solder joint has cooled, retrim any protruding dielectric flush with end of body.



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

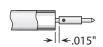
Assembly Procedure H



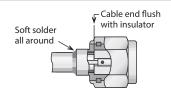
Trim Codes						
Code	Α					
H/01	.090					
H/02	.060					
H/03	.115					
H/04	.150					



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



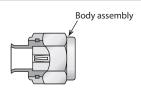
2) Solder contact to center conductor, fixturing to maintain gap as shown. Remove any excess solder from outside of contact.



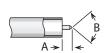
3) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

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

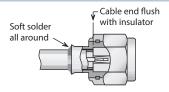
Assembly Procedure I



Trim Codes				
Code	Α	В		
I/01	.090	70-90°		



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



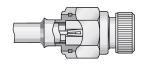
2) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

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

Cable Positioner



.250-36 UNS-2A thread .50



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.

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

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

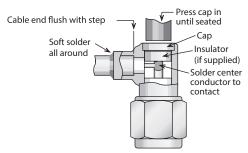


Assembly Procedure J

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

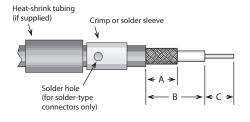


1) Trim cable as shown. Remove any burrs from jacket and center conductor.



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.

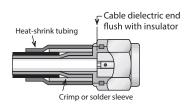
Assembly Procedure K



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.

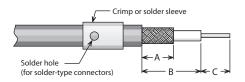
Plug body assembly and contact shown; procedure is identical for jack connectors.

	Trim Codes						
Code	Α	В	С	Code	Α	В	С
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	Α	В	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	

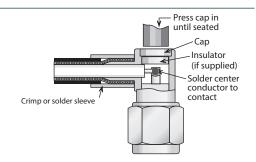
1) Trim cable per chart. Slide crimp (or solder) sleeve onto cable.



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.)

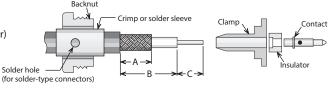
Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.



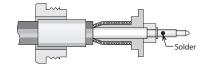
Assembly Procedure M

	Cable Trim Codes				
Code A B C					
	M/01	.281	.390	.140	

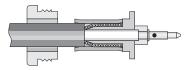
1) Trim cable per chart. Slide crimp (or solder) sleeve and backnut onto cable.



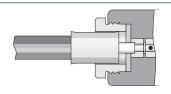
2) Flare cut end of braid slightly by rotating dielectric. Insert cable into rear of clamp, with all braid wires on outside of crimp tail. Slide insulator over cable dielectric until it is flush with front of clamp, and cable insulation bottoms inside insulator. Slide contact onto center conductor, with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



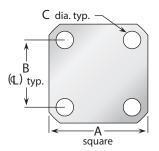
Frame only—P/N M22520/5-01 —Use with interchangeable dies listed below.

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

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

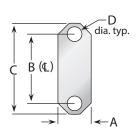


Connector Flanges (Panel Mounted Connectors)



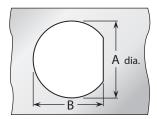
4-hole flanges				
Figure	Α	В	C	
04	1/2	.360	.089	
05	1/2	.340	.102	
07	11/16	.500	#3-56 tap	
08	11/16	.500	.136	
09	11/16	.500	.125	
10	11/16	.500	.120	
12	11/16	.500	.109	
18	3/4	.531	.136	
26	1	.718	#6-32 tap	
27	1	.718	#4-40 tap	
30	1	.718	.166	
32	1	.718	.136	
32A	1	.718	.136*	
33	1	.718	.125	
34	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.

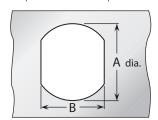


2-hole flanges					
Figure	Α	В	С	D	
92	.223	.481	.625	.102	
92A	.260	.481	.625	.102	
95	.640	1.015	1.30	.125	

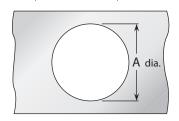
Panel Cutouts (Bulkhead Mounted Connectors)



D-Hole						
Figure	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				



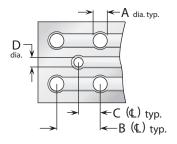
Double D-Hole			
Figure	А	В	
69	.755	.692	
72	.630	.536	
75	.380	.341	
84	.319	.278	



Round Hole				
Figure	A			
82	.255			
89	.380			

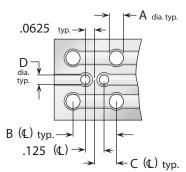
Mounting Figures

P.C. Board Drilling



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

Coaxial connectors					
Figure	Α	В	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	Α	В	С	D			
PCB04	.045	.500	.250	.045			





Delta Cable Groups						
Gro	up	Cables				
	1A	RG-5, 5A, 5B, 21, 21A; M17/73, /162				
1	1B	RG-6, 6A; M17/2				
	1C	RG-143, 143A, 212, 222; M17/73, /112, /162				
	2A	RG-8, 8A, 213; M17/74				
2	2B	RG-11, 11A; M17/6				
	3A	RG-9, 9A, 9B, 214; M17/75				
3	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				
	6A	RG-55A, 142, 142A, 223, 400; M17/60, /84, /128				
6	6B	RG-55, 55B, 142B; M17/60, /84				
	7A	RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210; M17/29, /30, /97				
7	7B	RG-71, 71A, 71B; M17/90				
	8A	RG-122; M17/54				
8	8B	RG-180, 180A, 180B, 195; M17/95, /137				
	9A	RG-174, 188, 188A, 316; M17/152				
9	9B	RG-179A, 179B, 187, 187A; M17/94, /136				
10)	Double-Shielded RG-174, 316; M17/152				
1	1	RG-178, 178A, 178B, 196, 196A; M17/93				
1.	2	.250" semi-rigid; RG-401; M17/129				
1.	3	.141" semi-rigid; RG-402; M17/130				
14	4	.085" semi-rigid; RG-405; M17/133				
1.	5	RG-10, 12, 215; M17/6, /74				
10	5	RG-14A, 217; M17/78, /165				
17		RG-17A, 218				
1	3	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				
2	7	RG-108, 108A; M17/45				

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

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

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RG-22, 22A, 22B; M17/15

M17/176

AT&T 735A

Belden 9207; Dearborn 6207; IBM 7362211



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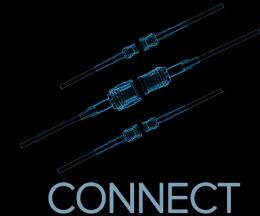




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