

General Description

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

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

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

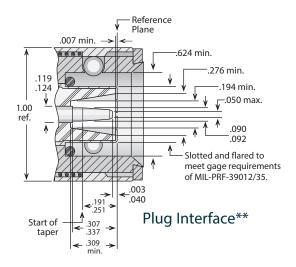
Our QDS series product line is still growing, so please call if you don't see what you need.

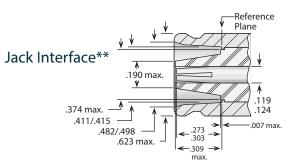
QDS Configurations

Straight Cable Plugs	
Right Angle Cable Plugs	
Bulkhead Cable Jacks	3
Panel Cahle Jacks	:

Panel Jack Receptacles (square flange)	4
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QDS Specifications*





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

Electrical:

Nominal Impedance: 50 ohms. DC-11 GHz (usable); Frequency Range:

DC-2 GHz (recommended).

Voltage Rating: 1,000 volts RMS.

Dielectric Withstanding Voltage : 3,000 VRMS. Insulation Resistance: 5,000 megohms.

Materials/Finishes:

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

Contact Plating: Silver per 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:

> Albaloy (contact factory for specifications), or Silver per ASTM B700, or Nickel per AMS-QQ-N-290.

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

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



Straight Plug - Military Clamp For Flexible Cable

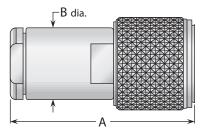


Figure 1

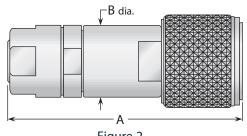
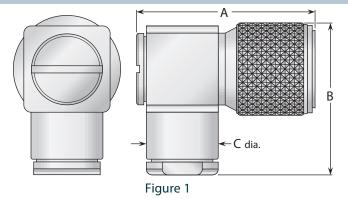


Figure 2 (Includes armor clamp)

Cable	Figure	Dime	ensions	Plat	ing	Delta P/N	Assembly Procedure/	
Group	riguie	А	В	Body	Contact	Della P/IN	Trim Code	
2, 3	1	1.83	.750	Albaloy	Gold	3801004Q000-001	A/02	
5, 6	1	1.83	.750	Albaloy	Gold	3801015Q000-001	A/02	
15	2	2.16	.812	Silver	Silver	UG-968B/U	D/04	

Right Angle Plug - Military Clamp For Flexible Cable



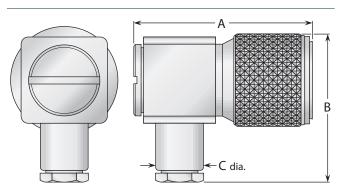


Figure 2

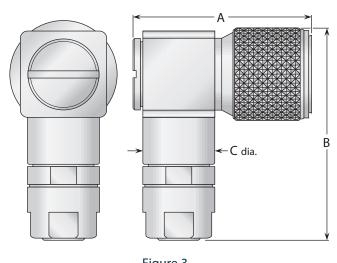


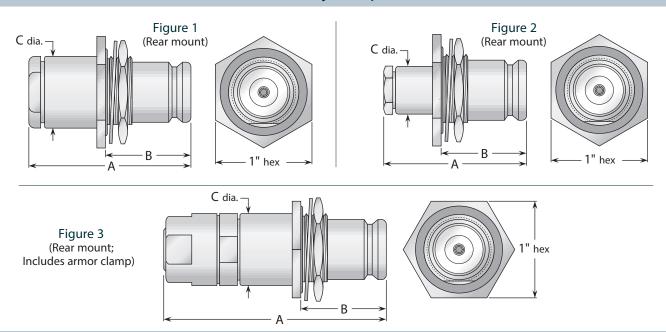
Figure 3 (Includes armor clamp)

Cable	Figure	D	imensior	าร	Pla	ting	Delta P/N	Assembly Procedure/
Group	rigure	Α	В	С	Body	Contact	Della P/N	Trim Code
2, 3	1	1.93	1.85	.750	Albaloy	Gold (C)	3805004Q000-000	A/31
5, 6	2	1.93	1.63	.500	Albaloy	Gold (C)	3805015Q000-000	A/30
15	3	1.93	2.40	.812	Albaloy	Gold (C)	3805006Q000-000	***

[•] See page 209 for cable groups. • Assembly procedures start on page 210. • ***Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

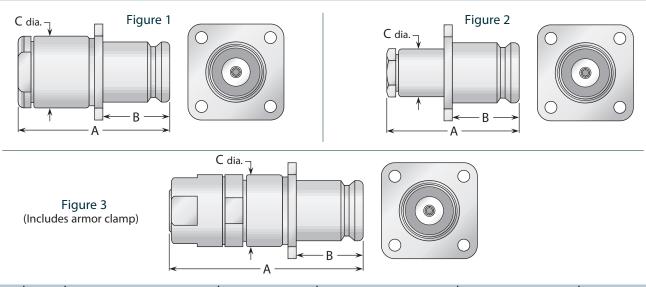


Bulkhead Jack - Military Clamp For Flexible Cable



Cable	Fia	Dir	nensio	ons	Mounting	Max.	Plat	ting	Delta P/N	Assembly Procedure/
Group	Fig.	Α	В	С	Figure	Panel	Body	Contact	Della P/IN	Trim Code
2, 3	1	1.66	.865	.750	51	.200	Albaloy	Gold (C)	3816004Q511-001	A/01
5, 6	2	1.60	.865	.500	51	.200	Albaloy	Gold (C)	3816015Q511-001	A/25
15	3	2.00	.865	.750	51	.200	Silver	Silver	UG-1132A/U	D/04

Panel Jack - Military Clamp For Flexible Cable



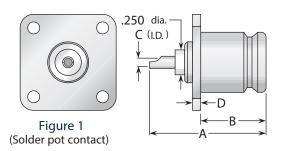
Cable	Fig.		Dimensio	าร	Mounting	Pla	ting	Delta P/N	Assembly Procedure/
Group	rig.	Α	В	С	Figure	Body	Contact	Deita P/N	Trim Code
2, 3	1	1.66	.690	.750	33	Albaloy	Gold (C)	3811004Q331-000	A/01
5, 6	2	1.60	.690	.500	33	Albaloy	Gold (C)	3811015Q331-000	A/25
15	3	2.00	.690	.750	33	Silver	Silver	UG-972B/U	D/04

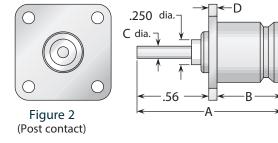
[•] See page 209 for cable groups. • Assembly procedures start on page 210. • See page 208 for mounting dimensions.

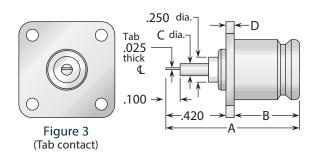
^{• (}C) in contact plating column indicates captive contact.

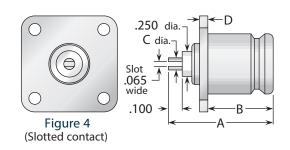


Panel Jack Receptacles - Square Flange





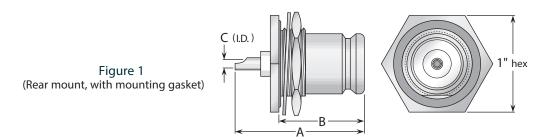




Also available with other contact/insulator configurations and flange sizes

Figure		Dimei	nsions		Mounting	Plat	ing	Delta P/N
rigure	Α	В	С	D	Figure	Body	Contact	Delta P/N
1	1.08	.670	.106	.080	33	Albaloy	Gold (C)	3813000Q331-000
2	1.31	.670	.120	.080	33	Albaloy	Gold (C)	3858000Q331-001
3	1.17	.670	.120	.080	33	Albaloy	Gold (C)	3858000Q331-003
4	1.00	.670	.120	.080	33	Albaloy	Gold (C)	3858000Q331-002

Bulkhead Jack Receptacles



Also available with post, slotted, or tab contact

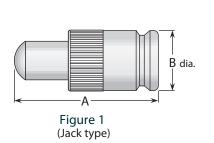
Figure		Dimensions		Max.	Mounting	Pla	ting	Delta P/N
rigure	Α	В	С	Panel	Figure	Body	Contact	Della F/IV
1	1.08	.750	.106	.125	51	Silver	Silver (C)	UG-1111/U
1	1.08	.750	.106	.125	51	Albaloy	Gold (C)	3816000Q511-002

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



QDS Accessories / Adapters

Resistive Termination



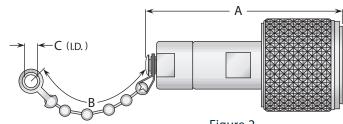
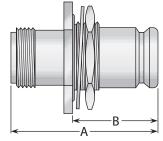


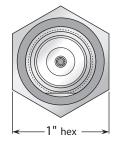
Figure 2 (Plug type)

	F: ~	Resistor	[Dimensions	5	Footures	Pla	ting	Delta P/N
Fig.	Resistor	Α	В	С	Features	Body	Contact	Della P/IN	
	1	50 Ω ±1%, .5 Watt	1.50	.630		No chain	Silver	Gold (C)	3831000A00A-000
	2	50 Ω ±1%, 1 Watt	1.75	2.50	.144	Bead chain	Silver	Gold (C)	3851000A000-000

Adapters Between Series

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





Mounting figure 51; .200" max. panel

Figure 2 (QDS jack to N plug)

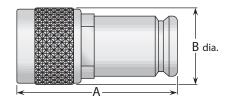
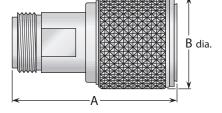


Figure 3 (QDS plug to N jack)



F:	Dime	nsions	Plat	ting	Delta P/N	
Figure	Α	В	Body Contact		Della P/N	
1	1.52	.865	Albaloy	Gold (C)	2226000Q511-001	
2	1.38	.780	Albaloy	Gold (C)	2234000Q001-131	
3	1.67	1.00	Silver	Silver (C)	UG-1144/U	

[•] See page 208 for mounting dimensions. • (C) in contact plating column indicates captive contact.

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

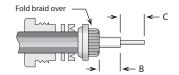


Assembly Procedures

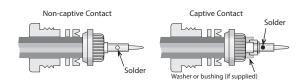
Assembly Procedure A

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.

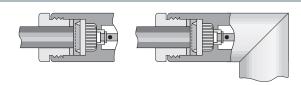
- Washer (if supplied) Washer and/or bushing (if supplied) Contact (captive) & insulator V-Gasket Contact Braid Clamp (non-captive)
- 2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with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

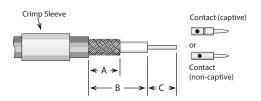
Code	Α	В	С	lL	Code	Α	В	С
A/01	.375 (3/8)	.047 (3/64)	.203 (13/64)		A/20	.375 (3/8)	.047 (3/64)	.172 (11/64)
A/02	.375 (3/8)	.109 (7/64)	.203 (13/64)	J L	A/21	.500 (1/2)	.313 (5/16)	.172 (11/64)
A/03	.438 (7/16)	.250 (1/4)	.188 (3/16)		A/22	.375 (3/8)	.188 (3/16)	.141 (9/64)
A/04	.281 (9/32)	.047 (3/64)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



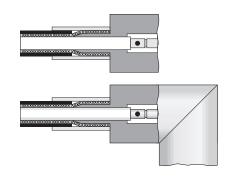
2) If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Solder contact onto center conductor; back of contact flush with trimmed end of cable dielectric (omit this step for right angle connectors with access caps). Flare cut end of braid slightly by rotating dielectric.



- 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).

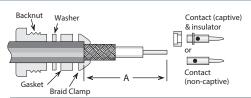
For right angle or tee connectors with access caps: Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.



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

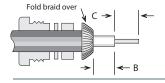
Assembly Procedures

Assembly Procedure C

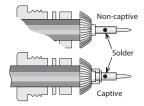


1) Trim cable jacket to dimension A. Slide backnut, washer, gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp.

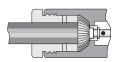
	Trim Codes											
Code	Α	В	C									
C/01	.656 (21/32)	.141 (9/64)	.250 (1/4)									
C/02	.500 (1/2)	.125 (1/8)	.250 (1/4)									
C/03	.450	.136	.187									
C/04	.375 (3/8)	.109 (7/64)	.125 (1/8)									
C/05	.375 (3/8)	.062 (1/16)	.250 (1/4)									
C/06	.500 (1/2)	.188 (3/16)	.125 (1/8)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

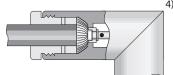


Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with edge of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.



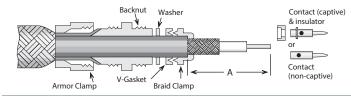
3) If support insulator is provided for RG-62 or 71 cable, insert into hollow in dielectric. Assemble rear insulator (if captive contact) and contact, and solder contact to center conductor. Rear of contact should be flush with cable dielectric end.



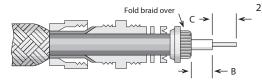


4) Insert prepared cable and hardware into body and tighten backnut. For right angle connectors with access cap, solder cable center conductor to slot in contact and tighten access cap.

Assembly Procedure D

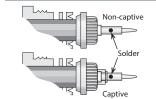


1) Slide armor clamp over cable. Push armor back to expose cable end. Slide backnut, washer (if supplied), gasket, and braid clamp onto cable as shown. Cable jacket should bottom on step in braid clamp. Trim cable jacket to dimension A.

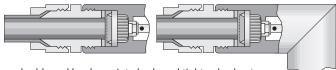


2) Comb braid wires out straight and fold back over front shoulder of braid clamp (braid wires should not overlap one another after folding). Trim braid wires flush with edge of braid clamp. Trim cable dielectric and center conductor to dimensions B and C.

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.

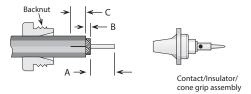


4) Insert prepared cable and hardware into body and tighten backnut. Trim armor to fit between armor clamp and braid clamp. Tighten armor clamp.



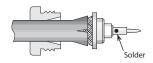


Assembly Procedure E



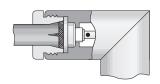
1) Slide backnut onto cable as shown. Trim cable to dimensions A and B as shown. Slit jacket to dimension C in two places, 180° apart.

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)		



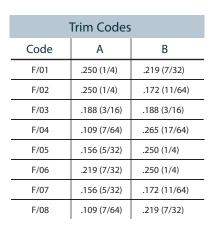
2) Slide cone/insulator/contact assembly under braid until braid is flush with shoulder. Solder contact to center conductor.

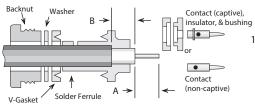




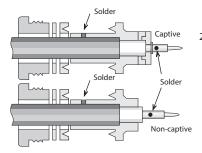
3) Insert prepared cable and hardware into body; tighten assembly by holding nut stationary and turning

Assembly Procedure F

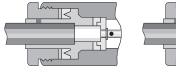


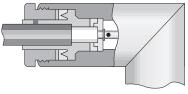


1) Trim cable per chart. Slide backnut, washer, v-gasket, and solder ferrule onto cable. Trimmed end of cable jacket should bottom on step in solder ferrule.



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.

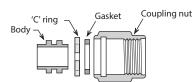




3) Insert prepared cable and hardware into body and tighten backnut.

Assembly Procedures

Assembly Procedure G



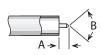
Trim Codes

В

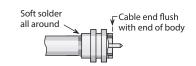
70-90°

Code

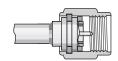
G/01



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

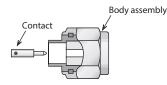


2) Soft solder cable jacket to body, making sure that end of cable is flush with end of body. After solder joint has cooled, retrim any protruding dielectric flush with end of body.



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

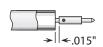
Assembly Procedure H



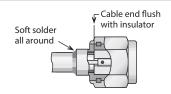
Trim Codes			
Code	Α		
H/01	.090		
H/02	.060		
H/03	.115		
H/04	.150		



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



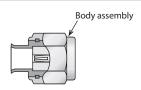
2) Solder contact to center conductor, fixturing to maintain gap as shown. Remove any excess solder from outside of contact.



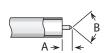
3) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

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

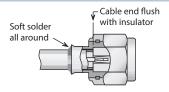
Assembly Procedure I



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



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



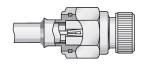
2) Insert cable into body and solder cable jacket to body, keeping end of cable flush with insulator as shown.

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

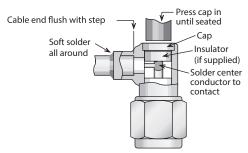


Assembly Procedure J

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

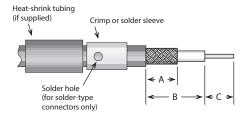


1) Trim cable as shown. Remove any burrs from jacket and center conductor.



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.

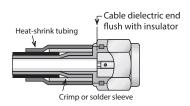
Assembly Procedure K



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.

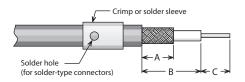
Plug body assembly and contact shown; procedure is identical for jack connectors.

	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		

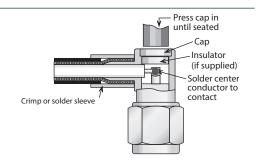
1) Trim cable per chart. Slide crimp (or solder) sleeve onto cable.



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.)

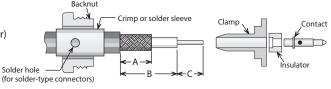
Solder center conductor into contact slot, assemble insulator disc (if supplied), then press cap into body until seated or screw into place.



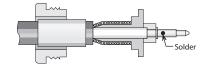
Assembly Procedure M

Cable Trim Codes				
Code	Α	В	С	
M/01	.281	.390	.140	

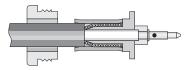
1) Trim cable per chart. Slide crimp (or solder) sleeve and backnut onto cable.



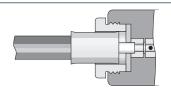
2) Flare cut end of braid slightly by rotating dielectric. Insert cable into rear of clamp, with all braid wires on outside of crimp tail. Slide insulator over cable dielectric until it is flush with front of clamp, and cable insulation bottoms inside insulator. Slide contact onto center conductor, with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



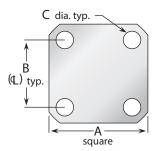
Frame only—P/N M22520/5-01 —Use with interchangeable dies listed below.

	Cable Group*	Hex Die Size	Die Set P/N	Closure
_	2, 3, 4	2, 3, 4 .429 hex, .400 wide		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.

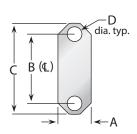


Connector Flanges (Panel Mounted Connectors)



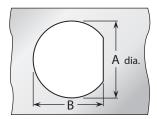
4-hole flanges				
Figure	Α	В	C	
04	1/2	.360	.089	
05	1/2	.340	.102	
07	11/16	.500	#3-56 tap	
08	11/16	.500	.136	
09	11/16	.500	.125	
10	11/16	.500	.120	
12	11/16	.500	.109	
18	3/4	.531	.136	
26	1	.718	#6-32 tap	
27	1	.718	#4-40 tap	
30	1	.718	.166	
32	1	.718	.136	
32A	1	.718	.136*	
33	1	.718	.125	
34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

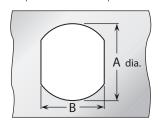


2-hole flanges					
Figure	Α	В	С	D	
92	.223	.481	.625	.102	
92A	.260	.481	.625	.102	
95	.640	1.015	1.30	.125	

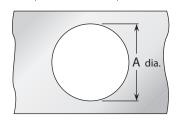
Panel Cutouts (Bulkhead Mounted Connectors)



D-Hole				
Figure	Α	В		
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		



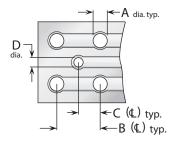
Double D-Hole			
Figure	А	В	
69	.755	.692	
72	.630	.536	
75	.380	.341	
84	.319	.278	



Round Hole			
Figure	A		
82	.255		
89	.380		

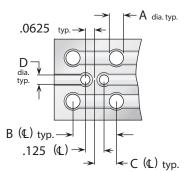
Mounting Figures

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	ВС		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		
		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		
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		
2	5	Special 8X cable; contact factory for details.		
2	б	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.

28

29

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

M17/176

AT&T 735A

Belden 9207; Dearborn 6207; IBM 7362211



Ordering & Warranty Information

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.



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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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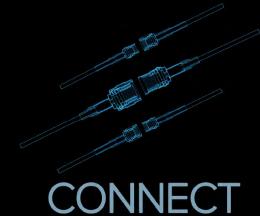




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COLLABORATE





Delta Electronics Mfg. Corp.

www.deltarf.com 978-927-1060 sales@deltarf.com

PO Box 53 416 Cabot St. Beverly, MA 01915

