

SMB and SMC Connectors ONLINE CATALOG

SOMWBA Woman-Owned

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Online Catalog Navigation Guide

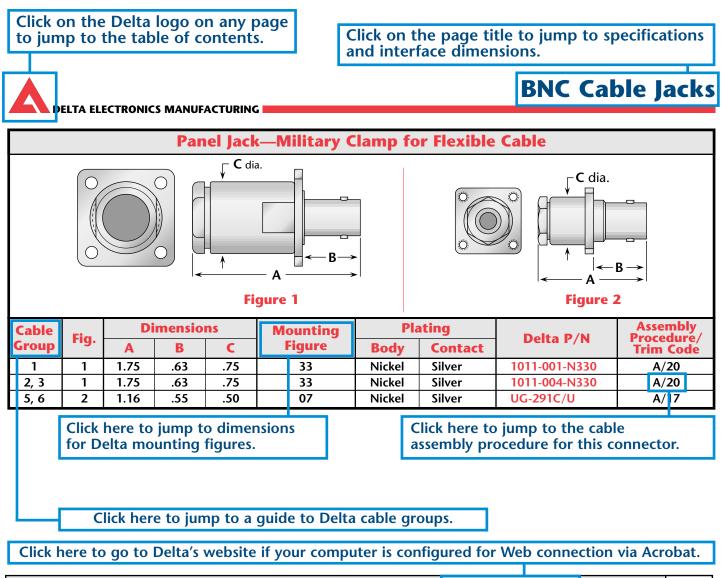
DELTA ELECTRONICS MANUFACTURING

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

- Clicking on any entry in the Table of Contents will take you to the indicated page.
- Shown below are the "hot spots" on all of the product pages that will take you to background information on various connector characteristics.
- After you use a link to jump to another page, you can use the "back" arrow in Acrobat's menu bar to return to the page you jumped from.
- Configure Acrobat Reader to show bookmarks for a table of contents by specific characteristic (for example, cable plugs broken out by cable attachment method).
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General Description

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

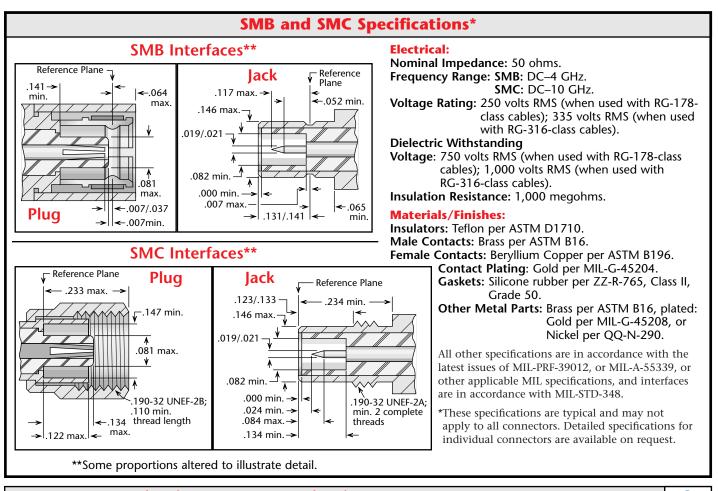
Delta SMC connectors (page 7) are similar in size and construction to SMB series, but employ #10–32 threaded coupling, and have a higher upper frequency limit than SMB.

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

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

- SMB *PressMount* receptacles (page 6) mount securely in a single round hole, saving space on your components and reducing your housing fabrication costs.
- SMB and SMC panel receptacles with flange sizes to match the same hole pattern as standard SMA connectors, letting you drill one hole pattern and mount SMB, SMC, BNC, N, SMA, or TNC series connectors as needed.

Our SMB and SMC series product line is still growing, so call if you don't see what you need. For adapters between SMB or SMC and other series, download the document *DeltaABS.pdf* from our website.



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SMB Cable Connectors

Straight and Right Angle Plugs—For Flexible Cable											
	Figure 1 (Crimp typ		(crimp sleeve)	A Figure 2 (Crimp type		Figure 3 (Crimp type)	A A A A A A A A A A A A A A A A A A A				
Cable		Dime	nsions	Plat	ing		Assembly Procedure/				
Group	Figure	Α	В	Body	Contact	Delta P/N	Trim Code				
9	1	.80	.38	Gold	Gold	2403-037-G000-2	B/28				
9	1	.80	.38	Nickel	Gold	2403-037-N000-2	B/28				
9	2	1.03	.38	Gold	Gold (C)	2402-037-G001	***				
9	2	1.03	.38	Nickel	Gold (C)	2402-037-N001	***				
9	3	.52	.63	Gold	Gold (C)	2407-037-G001	B/29				
9	3	.52	.63	Nickel	Gold (C)	2407-037-N001	B/29				
10	1	.80	.38	Gold	Gold	2403-100-G000	B/28				
10	1	.80	.38	Nickel	Gold	2403-100-N000	B/28				
10	2	1.03	.38	Gold	Gold (C)	2402-100-G001	***				
10	2	1.03	.38	Nickel	Gold (C)	2402-100-N001	***				
10	3	.52	.63	Gold	Gold (C)	2407-100-G001	B/29				
10	3	.52	.63	Nickel	Gold (C)	2407-100-N001	B/29				
11	1	.80	.38	Gold	Gold	2403-038-G000-1	***				
11	1	.80	.38	Nickel	Gold	2403-038-N000-1	***				
11	2	1.03	.38	Gold	Gold (C)	2402-038-G001	***				
11	2	1.03	.38	Nickel	Gold (C)	2402-038-N001	***				
11	3	.52	.63	Gold	Gold (C)	2407-038-G001-1	B/29				
11	3	.52	.63	Nickel	Gold (C)	2407-038-N001-1	B/29				

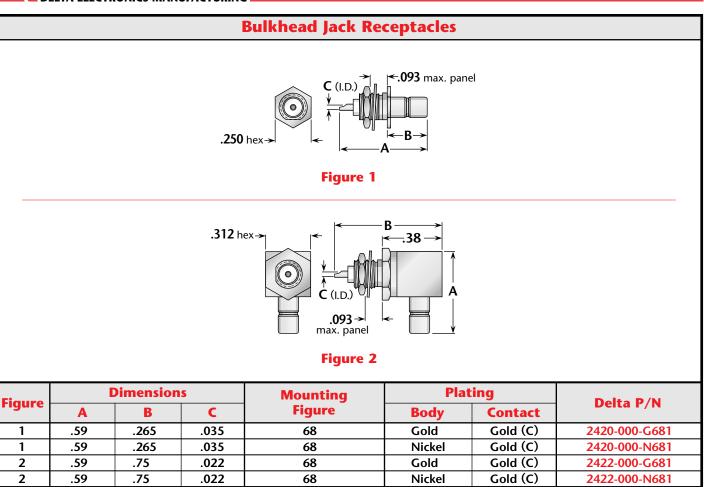
Bulkhead Jack—For Flexible Cable												
Figure 1 (Crimp type)												
Cable	Fig	Dimensions		ns	Mounting	Pla	ating	Delta P/N	Assembly Procedure/			
Group	Fig.	Α	В	C	Figure	Body	Contact	Della P/N	Trim Code			
9	1	1.17	.426	.38	68	Gold	Gold (C)	2419-037-G681	***			
9	1	1.17	.426	.38	68	Nickel	Gold (C)	2419-037-N681	***			
10	1	1.17	.426	.38	68	Gold	Gold (C)	2419-100-G681	***			
10	1	1.17	.426	.38	68	Nickel	Gold (C)	2419-100-N681	***			
11	1	1.17	.426	.38	68	Gold	Gold (C)	2419-038-G681	***			
11	1	1.17	.426	.38	68	Nickel	Gold (C)	2419-038-N681	***			

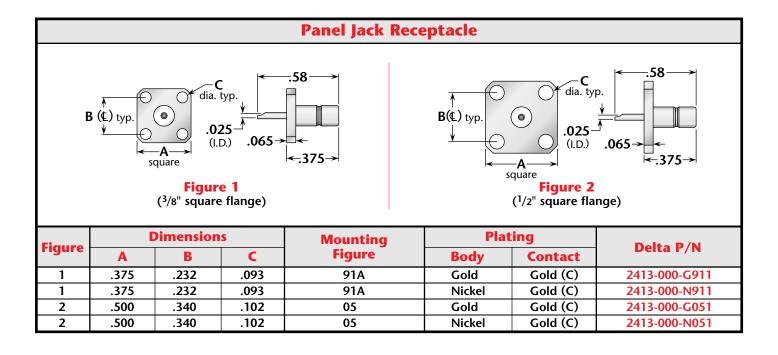
***Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

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SMB Receptacles

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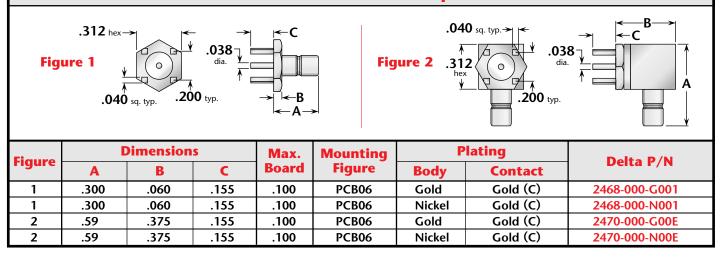
(C) in contact plating column indicates captive contact.

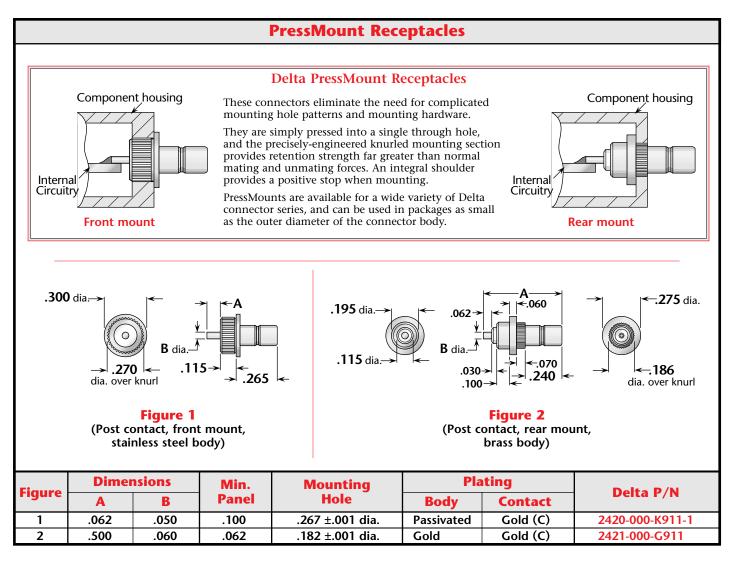
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SMB Receptacles

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Printed-Circuit Board Receptacles





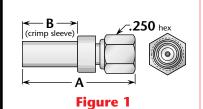
(C) in contact plating column indicates captive contact.

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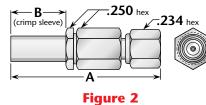
SMC Cable Connectors

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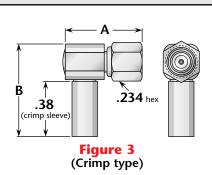
Straight and Right Angle Plugs—For Flexible Cable



(Crimp type)



(Crimp type)



Cable	F lamma	Dime	nsions	Plat	ing	Dalta D/N	Assembly Procedure/
Group	Figure	Α	В	Body	Contact	Delta P/N	Trim Code
9	1	.80	.38	Gold	Gold	2503-037-G000	B/28
9	1	.80	.38	Nickel	Gold	2503-037-N000	B/28
9	2	1.03	.38	Gold	Gold (C)	2502-045-G001-1	***
9	2	1.03	.38	Nickel	Gold (C)	2502-045-N001-1	***
9	3	.56	.63	Gold	Gold (C)	2507-037-G001	B/29
9	3	.56	.63	Nickel	Gold (C)	2507-037-N001	B/29
10	1	.80	.38	Gold	Gold	2503-100-G000	B/28
10	1	.80	.38	Nickel	Gold	2503-100-N000	B/28
10	2	1.03	.38	Gold	Gold (C)	2502-100-G000-1	***
10	2	1.03	.38	Nickel	Gold (C)	2502-100-N000-1	***
10	3	.56	.63	Gold	Gold (C)	2507-100-G001	B/29
10	3	.56	.63	Nickel	Gold (C)	2507-100-N001	B/29
11	1	.80	.38	Gold	Gold	2503-038-G000	B/28
11	1	.80	.38	Nickel	Gold	2503-038-N000	B/28
11	2	1.03	.38	Gold	Gold (C)	2502-038-G001-1	***
11	2	1.03	.38	Nickel	Gold (C)	2502-038-N001-1	***
11	3	.56	.63	Gold	Gold (C)	2507-038-G001	B/29
11	3	.56	.63	Nickel	Gold (C)	2507-038-N001	B/29

Bulkhead Jack—For Flexible Cable													
	Figure 1 (Crimp type)												
Cable	Fim	Di	mensio	ns	Mounting	Plating		Dolto D/N	Assembly Procedure/				
Group	Fig.	Α	В	C	Figure	Body	y Contact Delta P/N		Trim Code				
9	1	1.17	.426	.38	68	Gold	Gold (C)	2519-037-G681	***				
9	1	1.17	.426	.38	68	Nickel	Gold (C)	2519-037-N681	***				
10	1	1.17	.426	.38	68	Gold	Gold (C)	2519-100-G681	***				
10	1	1.17	.426	.38	68	Nickel	Gold (C)	2519-100-N681	***				
11	1	1.17	.426	.38	68	Gold	Gold (C)	2519-038-G681	***				
11	1	1.17	.426	.38	68	Nickel	Gold (C)	2519-038-N681	***				

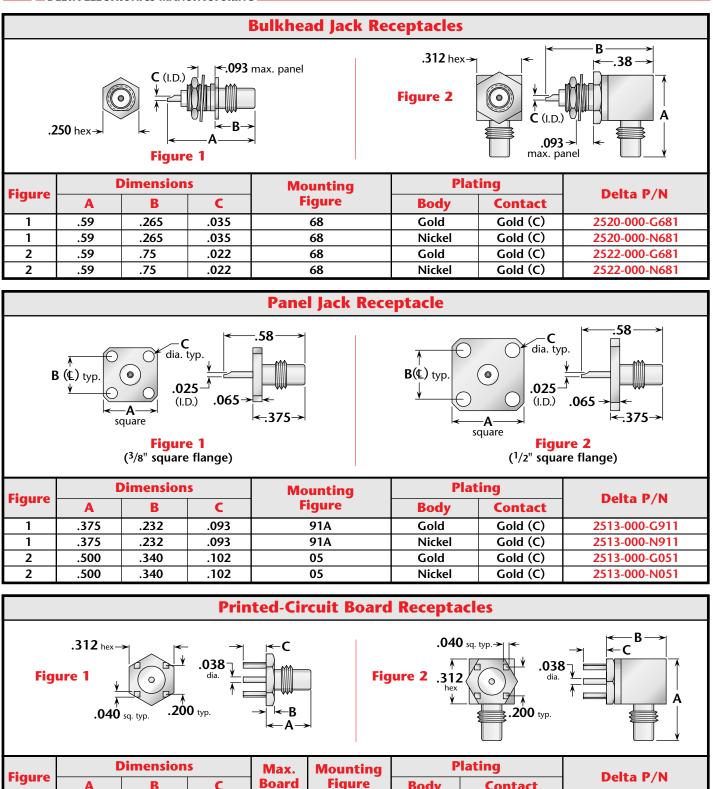
***Contact factory for cable assembly instructions. • (C) in contact plating column indicates captive contact.

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SMC Receptacles

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1 2 2



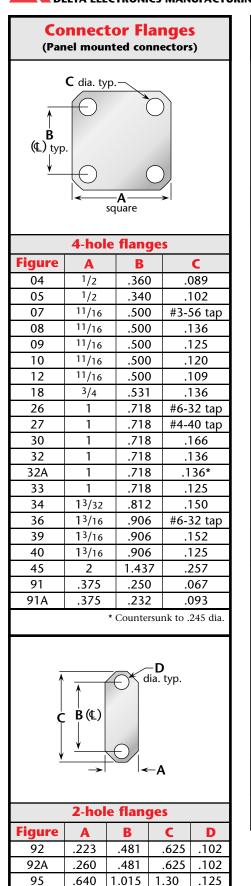
							-	Dolto D/N	
jure	Α	В	C	Board	Figure	Body	Contact	Delta P/N	
1	.300	.060	.155	.100	PCB06	Gold	Gold (C)	2568-000-G001	
1	.300	.060	.155	.100	PCB06	Nickel	Gold (C)	2568-000-N001	
2	.59	.375	.155	.100	PCB06	Gold	Gold (C)	2570-000-G00E	
2	.59	.375	.155	.100	PCB06	Nickel	Gold (C)	2570-000-N00E	

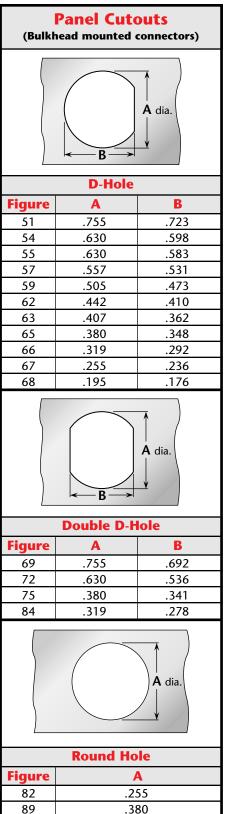
(C) in contact plating column indicates captive contact.

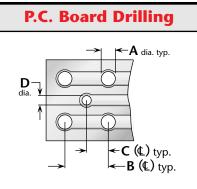
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Mounting Figures

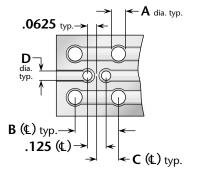






(PCB traces are shown for illustrative purpose only, and are not representative of actual circuitry.)

Coaxial connectors											
Figure A B C E											
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	C	D		
PCB04	.045	.500	.250	.045		

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Cable Groups

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				

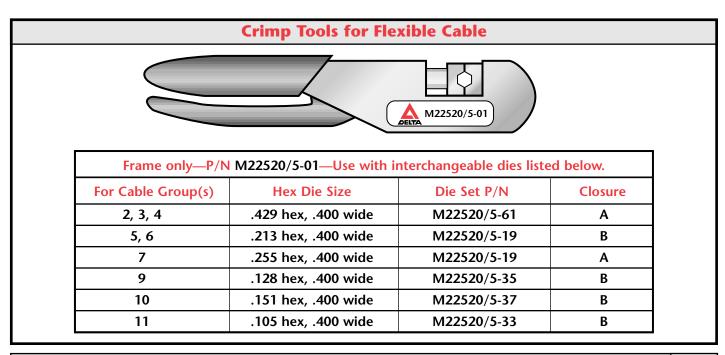
		Delta Cable Groups			
Group		Cables			
1	1A	RG-5, 5A, 5B, 21, 21A; M17/73, /162			
	1B				
	1C	RG-143, 143A, 212, 222; M17/73, /112, /162			
2	2A	RG-8, 8A, 213; M17/74			
2	2B	RG-11, 11A; M17/6			
	3A	RG-9, 9A, 9B, 214; M17/75			
3	3B	RG-13A, 216; M17/77			
	3C	RG-225; M17/127			
4		RG-393; M17/127			
	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			
7	7A	RG-59, 59A, 59B, 62, 62A, 62B, 62C, 210; M17/29, /30, /97			
′	7B	RG-71, 71A, 71B; M17/90			
8	8A	RG-122; M17/54			
0	8B	RG-180, 180A, 180B, 195; M17/95, /137			
9	9A	RG-174, 188, 188A, 316; M17/152			
9	9B	RG-179A, 179B, 187, 187A; M17/94, /136			
1	10 Double-Shielded RG-174, 316; M17/152				
11		RG-178, 178A, 178B, 196, 196A; M17/93			
12 .250"		.250" semi-rigid; RG-401; M17/129			
1	3	.141" semi-rigid; RG-402; M17/130			
1	4	.085" semi-rigid; RG-405; M17/133			
1	5	RG-10, 12, 215; M17/6, /74			
16		RG-14A, 217; M17/78, /165			
1	7	RG-17A, 218			
18		RG-18A, 219			
19		RG-115A			
20		RG-118A, 228A			
21		RG-126			
2	2	RG-302			
2	3	RG-303			
24 RG-304		RG-304			
25 Special 8X cable; contact factory for details.					
		Belden 8281			
2	27 RG-108, 108A; M17/45				
28		RG-22, 22A, 22B; M17/15			
29		Belden 9207; Dearborn 6207; IBM 7362211			
3	0	M17/176			
3	1	AT&T 735A			

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Assembly Procedures

Assembly Procedure B Crimp Sleeve Contact (captive) 1) Trim cable per chart. Slide crimp sleeve back onto cable. • Contact < A > (non-captive) - B <C> 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 Solder cut end of braid slightly by rotating dielectric. 3) Insert cable/contact into rear of body, with all braid wires on outside of crimp tail. a) For captive contact connectors, push cable in until contact snaps into insulator. • b) For noncaptive contact connectors, push cable in until cable dielectric bottoms in connector. c) For right angle or tee connectors with access caps, push cable in until end of braid touches connector body shoulder, and cable center conductor rests in contact slot. Trim excess braid wires even with shoulder of body. Slide crimp sleeve forward until flush with body and crimp (see page 176 for hex die sizes). For right angle or tee connectors with access caps, solder center conductor into contact slot, then press cap into body until seated or screw into place. **Trim Codes For Assembly Procedure B** Code Α В С B/28 .219 .271 .078 B/29 .200 .320 .060

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Warranty

We warrant our parts to be free from defects in materials and workmanship for one year from date of purchase. During that time, we will repair or replace (at our option) any parts found to be defective.

This warranty does not apply to parts which have been modified, used in conditions exceeding Delta or military specifications, or disassembled. We will not, under any circumstances, be responsible for consequential or incidental damages or installation costs.

No other warranties apply, and no other liability may be assumed or extended by representatives or distributors.

Returns

Returns will be accepted only with a Return Authorization number issued by Delta, and are subject to inspection and acceptance upon arrival. Restocking charges will be determined prior to issuance of Return Authorization.

All claims for shortages must be made within 30 days of receipt by customer.

Ordering Information

Orders are subject to the terms and conditions on our order acknowledgement, which may only be modified by written agreement prior to sale. Order changes, cancellation, or termination will be accepted only with written approval from Delta Electronics Manufacturing.

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