SMB & SMC Connectors



General Description

Delta SMB connectors are subminiature, 50 Ω 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 4) are similar in size and construction to SMB series, but employ #10–32 threaded coupling, and have a higher upper frequency limit than SMB.

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

Adapters between SMB and other series can be found in the Between Series Catalog.

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

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

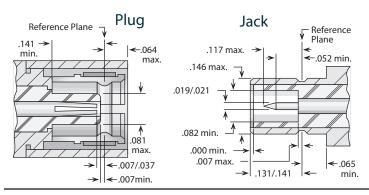
SMB Configurations

SMC Configurations

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SMB & SMC Specifications*

SMB Interfaces**



Electrical:

Nominal Impedance: 50 ohms. Frequency Range: SMB: DC-4 GHz.

SMC: DC-10 GHz.

Voltage Rating: 250 volts RMS (when used with RG-178-

class cables); 335 volts RMS (when used

with RG-316-class cables).

Dielectric Withstanding

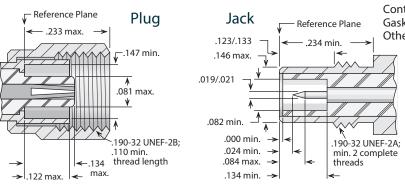
Voltage: 750 volts RMS (when used with RG-178-class

cables); 1,000 volts RMS (when used with

RG-316-class cables).

Insulation Resistance: 1,000 megohms.

SMC Interfaces**



Materials/Finishes:

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

Female Contacts: Beryllium Copper per ASTM B196.

Contact Plating : Gold per MIL-DTL-45204.

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

Other Metal Parts: Brass per ASTM B16, plated: Gold per MIL-DTL-45208, or Nickel per AMS-QQ-N-290.

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

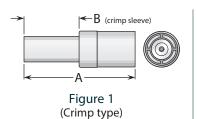
*These specifications are typical and may not apply to all connectors. Detailed specifications for individual connectors are available on request.

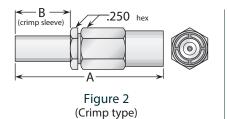
^{**}Some proportions altered to illustrate detail.

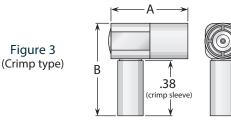




Straight & Right Angle Plugs - For Flexible Cable



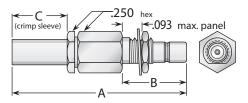




Cable	Figure	Dime	nsions	Plat	ting	Delta P/N	Assembly Procedure/
Group	Figure	Α	В	Body	Contact	Deita P/N	Trim Code
9	1	.800	.380	Gold Gold		2403037G000-002	B/28
9	1	.800	.380	Nickel	Gold	2403037N000-002	B/28
9	2	1.03	.380	Gold	Gold (C)	2402037G001-000	***
9	2	1.03	.380	Nickel	Gold (C)	2402037N001-000	***
9	3	.520	.630	Gold	Gold (C)	2407037G001-000	B/29
9	3	.520	.630	Nickel	Gold (C)	2407037N001-000	B/29
10	1	.800	.380	Gold	Gold	2403100G000-000	B/28
10	1	.800	.380	Nickel	Gold	2403100N000-000	B/28
10	2	1.03	.380	Gold	Gold (C)	2402100G001-000	***
10	2	1.03	.380	Nickel	Gold (C)	2402100N001-000	***
10	3	.520	.630	Gold	Gold (C)	2407100G001-000	B/29
10	3	.520	.630	Nickel	Gold (C)	2407100N001-000	B/29
11	1	.800	.380	Gold	Gold	2403038G000-001	***
11	1	.800	.380	Nickel	Gold	2403038N000-001	***
11	2	1.03	.380	Gold	Gold (C)	2402038G001-000	***
11	2	1.03	.380	Nickel	Gold (C)	2402038N001-000	***
11	3	.520	.630	Gold	Gold (C)	2407038G001-001	B/29
11	3	.520	.630	Nickel	Gold (C)	2407038N001-001	B/29

Bulkhead Jack - For Flexible Cable

Figure 1 (Crimp type)



Cable	Fig.	Dimensions			Mounting	Plat	ting	Delta P/N	Assembly Procedure/	
Group	rig.	Α	В	С	Figure	Body	Contact	Deita P/N	Trim Code	
9	1	1.17	7 .426 .380		68	Gold	Gold (C)	2419037G681-000	***	
9	1	1.17	.426	.380	68	Nickel	Gold (C)	2419037N681-000	***	
10	1	1.17	.426	.380	68	Gold	Gold (C)	2419100G681-000	***	
10	1	1.17	.426	.380	68	Nickel	Gold (C)	2419100N681-000	***	
11	1	1.17	.426	.426 .380		Gold	Gold (C)	2419038G681-000	***	
11	1	1.17	.426 .380		68	Nickel	Gold (C)	2419038N681-000	***	

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 Receptacles

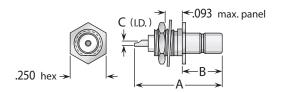


Figure 1

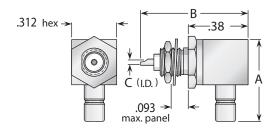


Figure 2

Figuro		Dimensions		Mounting	Pla	ting	Delta P/N	
Figure	Α	В	С	Figure	Body	Contact	Della F/N	
1	.590 .265 .035		68	Gold	Gold (C)	2420000G681-000		
1	.590	.265	.035	68	Nickel	Gold (C)	2420000N681-000	
2	.590	.750	.022	68	Gold	Gold (C)	2422000G681-000	
2	.590	.750 .022		68	Nickel	Gold (C)	2422000N681-000	

Panel Jack Receptacles

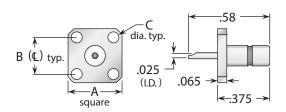
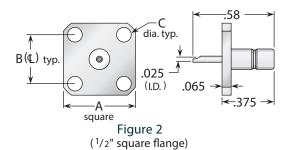


Figure 1 (3/8" square flange)

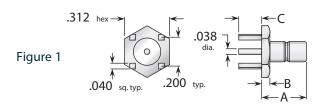


Figuro		Dimensions		Mounting	Plating		Delta P/N	
Figure	Α	В	С	Figure	Body	Contact	Delta I / N	
1	.375	.232	.093	91A	Gold	Gold (C)	2413000G911-000	
1	.375	.232	.093	91A	Nickel	Gold (C)	2413000N911-000	
2	.500	.340	.102	05	Gold	Gold (C)	2413000G051-000	
2	.500	.340	.102	05	Nickel	Gold (C)	2413000N051-000	

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



Printed-Circuit Board Receptacles



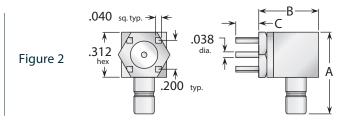
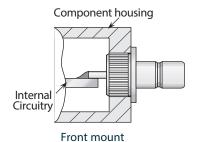


Figure		Dimensions			Mounting	Pla	ting	Dolta D/N
Figure	А	В	С	Board	Figure	Body	Contact	Delta P/N 2468000G001-000 2468000N001-000
1	.300	.060	.155	.100	PCB06	Gold	Gold (C)	2468000G001-000
1	.300	00 .060 .155		.100	PCB06	Nickel	Gold (C)	2468000N001-000
2	.590	.375	.155	.100	PCB06	Gold	Gold (C)	2470000G00E-000
2	.590	.375	.155	.100	PCB06	Nickel	Gold (C)	2470000N00E-000

Press Mount Receptacles

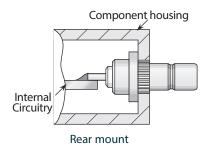
Delta PressMount Receptacles



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

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

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



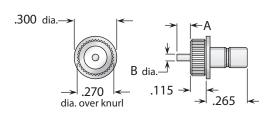


Figure 1 (Post contact, front mount, stainless steel body)

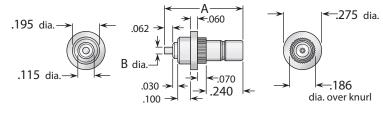


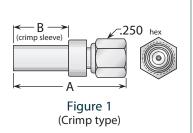
Figure 2 (Post contact, rear mount, brass body)

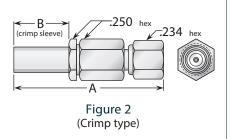
Figuro	Dime	Dimensions		Min. Mounting		ting	Dolta D/N
Figure	А	В	Panel	Hole	Body	Contact	Delta P/N
1	.062	.050	.100	.267 ±.001 dia.	Passivated	Gold (C)	2420000K911-001
2	.500	.060	.062	.182 ±.001 dia.	Gold	Gold (C)	2421000G911-000

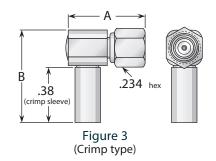
[•] See page 208 for mounting dimensions. • (C) in contact plating column indicates captive contact.



Straight & Right Angle Plugs - For Flexible Cable



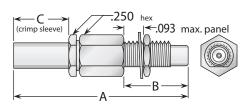




Cable	Figure .	Dime	nsions	Pla	ting	Dolto D/N	Assembly Procedure/
Group	Figure	А	В	Body	Contact	Delta P/N	Trim Code
9	1	.800	.380	Gold Gold		2503037G000-000	B/28
9	1	.800	.380	Nickel	Gold	2503037N000-000	B/28
9	2	1.03	.380	Gold	Gold (C)	2502045G001-001	***
9	2	1.03	.380	Nickel	Gold (C)	2502045N001-001	***
9	3	.560	.630	Gold	Gold (C)	2507037G001-000	B/29
9	3	.560	.630	Nickel	Gold (C)	2507037N001-000	B/29
10	1	.800	.380	Gold	Gold	2503100G000-000	B/28
10	1	.800	.380	Nickel	Gold	2503100N000-000	B/28
10	2	1.03	.380	Gold	Gold (C)	2502100G000-001	***
10	2	1.03	.380	Nickel	Gold (C)	2502100N000-001	***
10	3	.560	.630	Gold	Gold (C)	2507100G001-000	B/29
10	3	.560	.630	Nickel	Gold (C)	2507100N001-000	B/29
11	1	.800	.380	Gold	Gold	2503038G000-000	B/28
11	1	.800	.380	Nickel	Gold	2503038N000-000	B/28
11	2	1.03	.380	Gold	Gold (C)	2502038G001-001	***
11	2	1.03	.380	Nickel	Gold (C)	2502038N001-001	***
11	3	.560	.630	Gold	Gold (C)	2507038G001-000	B/29
11	3	.560	.630	Nickel	Gold (C)	2507038N001-000	B/29

Bulkhead Jack - For Flexible Cable



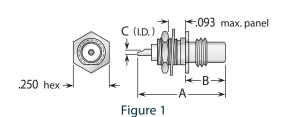


Cable	Fig.	D	Dimensions		Mounting	Plating		Delta P/N	Assembly Procedure/
Group	rig.	Α	В	С	Figure	Body	Contact	Della P/IN	Trim Code
9	1	1.17	.426	.380	68	Gold	Gold (C)	2519037G681-000	***
9	1	1.17	.426	.380	68	Nickel	Gold (C)	2519037N681-000	***
10	1	1.17	.426	.380	68	Gold	Gold (C)	2519100G681-000	***
10	1	1.17	.426	.380	68	Nickel	Gold (C)	2519100N681-000	***
11	1	1.17	.426	.380	68	Gold	Gold (C)	2519038G681-000	***
11	1	1.17	.17 .426 .380		68	Nickel	Gold (C)	2519038N681-000	***

See page 209 for cable groups.
 Assembly procedures start on page 210.
 ****Contact factory for cable assembly instructions.
 See page 208 for mounting dimensions.
 (C) in contact plating column indicates captive contact.



Bulkhead Jack Receptacles



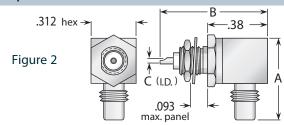


Figure		Dimensions		Mounting	Pla	ting	Delta P/N
Figure	Α	В	С	Figure	Body	Contact	Della P/N
1	.590 .265 .035		68	Gold	Gold (C)	2520000G681-000	
1	.590	.265	.035	68	Nickel	Gold (C)	2520000N681-000
2	.590 .750 .022 .590 .750 .022		68	Gold	Gold (C)	2522000G681-000	
2			68	Nickel	Gold (C)	2522000N681-000	

Panel Jack Receptacles

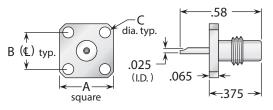
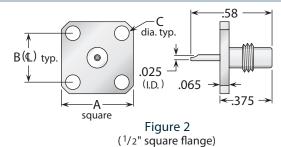
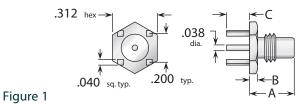


Figure 1 (3/8" square flange)



Гіанча	Dimensions			Mounting	Plat	ting	Dolto D/N
Figure	Α	В	С	Figure	Body	Contact	Delta P/N
1	.375 .232 .093		91A	Gold	Gold (C)	2513000G911-000	
1	.375	.232 .093		91A	Nickel	Gold (C)	2513000N911-000
2	.500	.340	.102	05	Gold	Gold (C)	2513000G051-000
2	.500	.340	.102	05	Nickel	Gold (C)	2513000N051-000

Printed-Circuit Board Receptacles



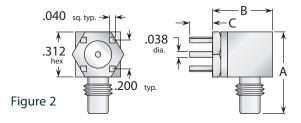


Figure		Dimensions			Mounting	Plat	ing	Dolta D/N
Figure	А	В	С	Board	Figure	Body	Contact	Delta P/N 2568000G001-000 2568000N001-000 257000G00E-000 2570000N00F-000
1	.300	.060 .155		.100	PCB06	Gold	Gold (C)	2568000G001-000
1	.300	.060 .155		.100	PCB06	Nickel	Gold (C)	2568000N001-000
2	.590	.375	.155	.100	PCB06	Gold	Gold (C)	2570000G00E-000
2	.590	.375	.155	.100	PCB06	Nickel	Gold (C)	2570000N00E-000

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