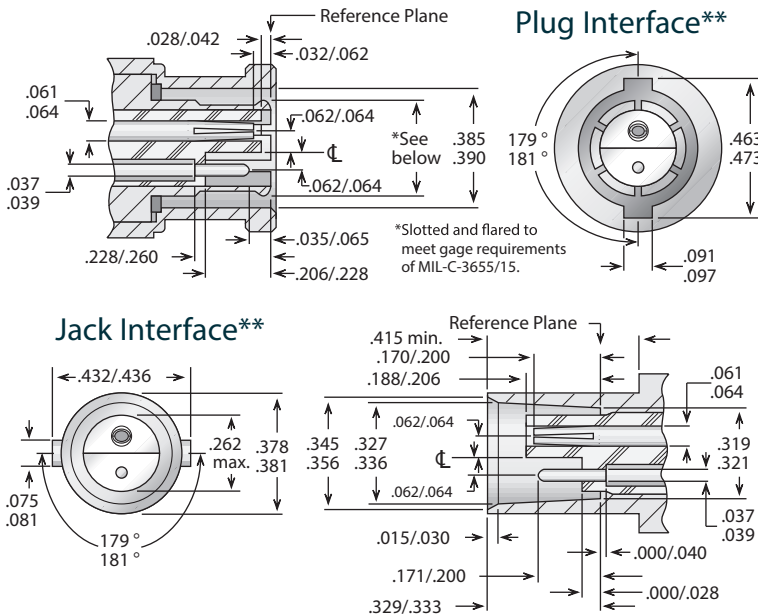


General Description

Delta TWBNC connectors are compact, 78 Ω impedance twinaxial connectors with two-stud bayonet coupling. They are similar in size to BNC connectors, and are best suited for use with RG-108/U and similar twinaxial cables. Both plugs and jacks in TWBNC series contain one male contact and one female contact, with mating polarization provided by a stepped insulator. Delta TWBNC connectors are designed and manufactured to meet the requirements of MIL-C-3655.

TWBNC Specifications*



Electrical:
 Nominal Impedance: 78 Ω.
 Frequency Range: DC–500 MHz.
 Voltage Rating: 500 volts RMS.
 Dielectric Withstanding Voltage: 1,500 VRMS.
 Insulation Resistance: 5,000 megohms.

Materials/Finishes:
 Insulators: Teflon per ASTM D1710.
 Male Contacts: Brass per ASTM B16.
 Female Contacts: Beryllium Copper per ASTM B196.
 Contact Plating: Silver 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, or Nickel per AMS-QQ-N-290.

All other specifications are in accordance with the latest issues of MIL-PRF-39012, or MIL-C-3655, 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.

Cable Connectors - For Flexible Cable

Figure 1
(Cable plug, clamp type)

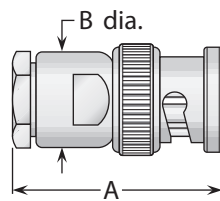


Figure 2
(Cable plug, crimp type)

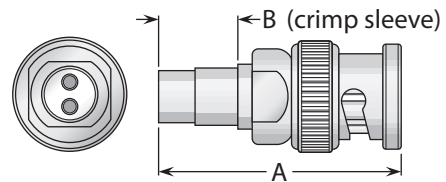


Figure 3
(Straight jack, clamp type)

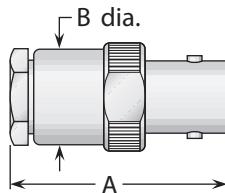
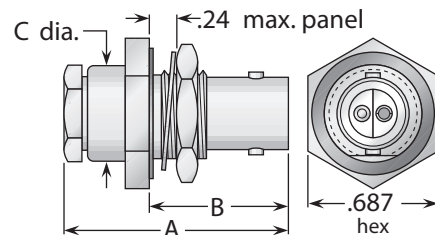


Figure 4
(Bulkhead jack, rear mount, clamp type)



Cable Group	Fig.	Dimensions			Mounting Figure	Plating		Delta P/N	Assembly Procedure/Trim Code
		A	B	C		Body	Contact		
27	1	1.16	.500	—	—	Nickel	Gold (C)	6101099N001-000	***
27	2	1.28	.410	—	—	Nickel	Silver (C)	6102099N001-000	***
27	3	1.13	.500	—	—	Nickel	Gold (C)	6108099N001-000	***
27	4	1.13	.810	.500	59	Nickel	Gold (C)	6116099N591-000	***

Jack Receptacles

Figure 1
(Bulkhead jack receptacle, front mount, solder pot contacts)

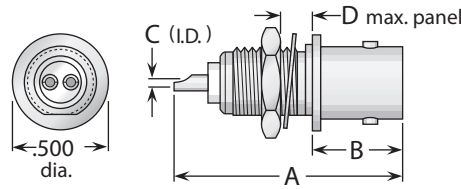


Figure 2
(Straight PCB receptacle)

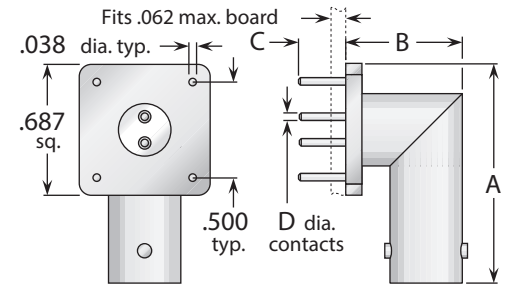
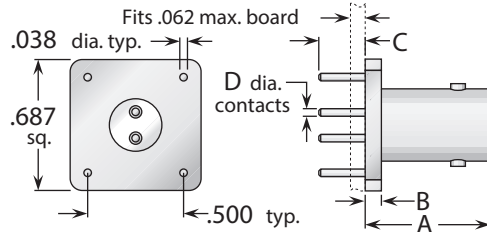


Figure 3
(Right angle PCB receptacle)

Figure	Dimensions				Mounting Figure	Plating		Delta P/N
	A	B	C	D		Body	Contact	
1	1.05	.470	.042	.106	65	Nickel	Gold (C)	612000N651-000
2	.650	.085	.125	.038	PCB04	Nickel	Silver (C)	615800N13P-000
3	1.34	.520	.125	.038	PCB04	Nickel	Silver (C)	616900N13P-000

Adapters

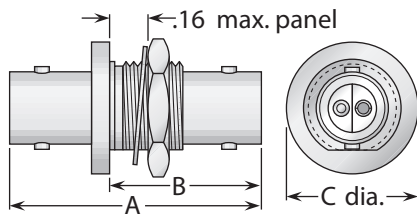


Figure 1
(Straight jack-jack bulkhead adapter; connects two plugs)

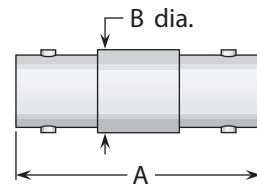


Figure 2
(Straight jack-jack adapter; connects two plugs)

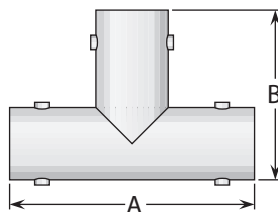


Figure 3
(Tee jack-jack-jack; connects three plugs)

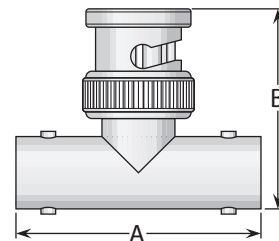


Figure 4
(Tee jack-jack-plug; connects two plugs and one jack)

Figure	Dimensions			Mounting Figure	Plating		Delta P/N
	A	B	C		Body	Contact	
1	1.28	.800	.625	59	Nickel	Gold (C)	612600N591-000
2	1.28	.440	—	—	Nickel	Gold (C)	612800N000-000
3	1.28	.890	—	—	Nickel	Gold (C)	615000N000-000
4	1.28	1.03	—	—	Nickel	Gold (C)	613000N000-000

- See page 209 for cable groups.
- See page 6 for alternate body plating information.
- ***Contact factory for cable assembly instructions.
- See page 208 for mounting dimensions.
- (C) in contact plating column indicates captive contact.