RF Coax Connectors

Twin BNC Connectors

Product Facts

- **Crimp connectors require only one-stroke crimping of both conductors, plus braid and cable support**
- **Lower installed cost with one-stroke crimp**
- **Reduced noise levels because of AMP solderless crimping techniques**
- **Captive inner contact stability**
- **No danger of heat damage to coaxial cable**
- **Ease of inspection**
- **Listed under the Component Program of Underwriters Laboratories Inc., File No. E81956**
- **PC Board soldered connectors are recognized under the Component Program of Underwriters Laboratories Inc., File No. E81956**
- **Certified by Canadian Standards Association File No. LR 7189**

Packaging — All connectors are packaged individually unless otherwise noted.

The Twin BNC Connector is a quick connect/disconnect, weatherproof connector designed in accordance with MIL-C-39012 to meet the stringent requirements of MIL-STD-1553 Multiplex Data Bus.

These twin coaxial cable connectors are a unique development by AMP which has resulted in the production of high level RF components. Termination of these connectors to twin conductor cable is made with AMP exclusive one crimp method which simultaneously terminates inner conductors, outer braid and cable support with one stroke of the matching AMP tool.

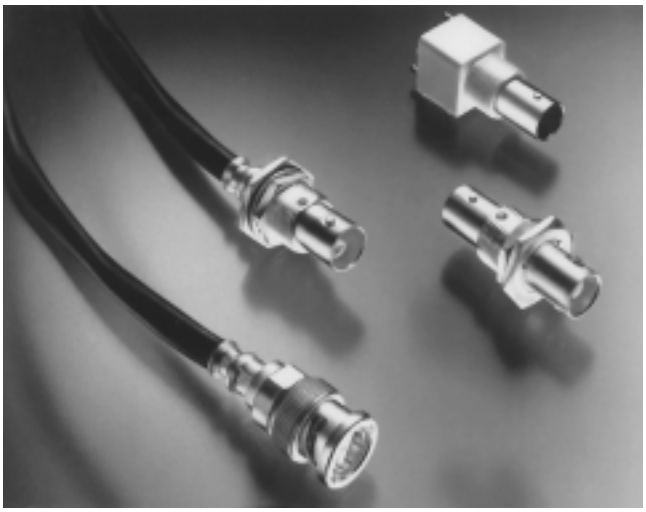
These rugged connectors accommodate today's most commonly used twin conductor cable sizes.

Materials

Brass — QQ-B-626
Beryllium Copper — QQ-C-530
TEFLON — MIL-P-19468
Polypropylene — General purpose
Copper, Annealed — QQ-C-576
Phosphor Bronze — QQ-B-750
Silicone Rubber — ZZ-R-765

Plating

Silver — QQ-S-365
Nickel — QQ-N-290
Tin Lead — ASTM-B-545



Electrical Characteristics

Nominal Impedance — Non-constant
Working Voltage — 500 volts rms sea level
Insulation Resistance — 5000 megohms min.
Dielectric Withstanding Voltage — 1500 volts rms sea level

Mechanical Characteristics

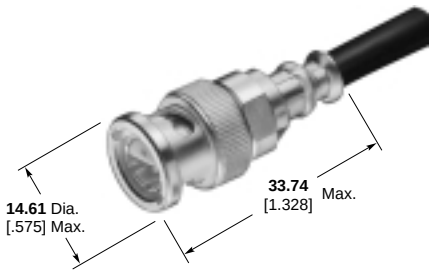
Mating/Unmating — Bayonet lock-quick connect/ disconnect
Cable Attachment — Crimp type - Simultaneous center and braid
Coupling Nut Retention — 100 lbs. [444 N] min.
Cable Retention — 25 lbs. [111 N] min., RG-108A/U cable
Durability — 200 cycles per MIL-C-39012

Environmental Characteristics

Temperature Range — -55°C to +85°C
Vibration — MIL-STD-202, Method 204, Condition B
Shock — MIL-STD-202, Method 213, Condition I, 100 G's
Salt Spray — MIL-STD-202, Method 101, Condition B
Temperature Cycling — MIL-STD-202, Method 102, Condition C

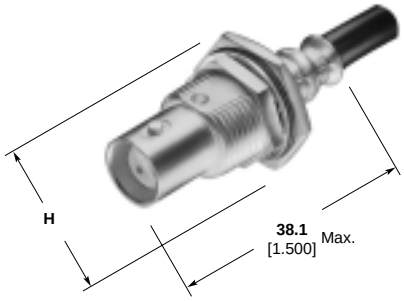
Twin BNC Connectors (Continued)

Plugs

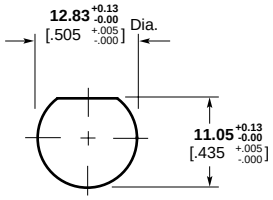


RG/U Cable	Center Contact Plating	Body Plating	Dielectric	Integral Die Hand Tool	Part No.
108, 108A Belden 9272, 89272	Silver	Silver	TEFLON	69667	**332225**
	Silver	Nickel	Polypropylene	69667	**332225-5**
Trompeter TWC-124-2	Silver	Silver	TEFLON	69667	**332225-3**
ROLM 49D2401 Raychem 7824D013	Silver	Nickel	Polypropylene	69667	**332225-6**

Bulkhead Jack



H = **17.45** [.687] Max. across flats, **20.32** [.800] Max. across points



Maximum Panel Thickness **3.18** [.125]

Recommended Panel Cutout

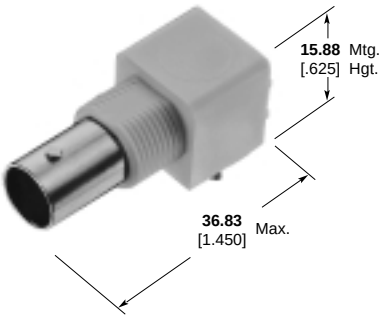
RG/U Cable	Center Contact Plating	Body Plating	Dielectric	CERTI-CRIMP Hand Tool with Integral Die	Integral Die Hand Tool	Die Insert for Tools: Hand Tool-69710-1, 626 Pneu. Head 318161-1	Part No.
108, 108A Belden 9272, 89272	Silver	Silver	TEFLON	—	69667	69708	**332342**

Twin BNC Connectors (Continued)

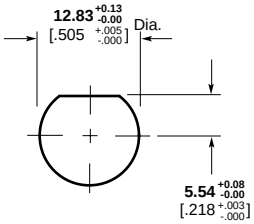
Right-Angle PC Board/ Panel Mount Jacks

Material

Body — VALOX, White
Center Contacts — Gold
Dielectric — Polymethylpentene

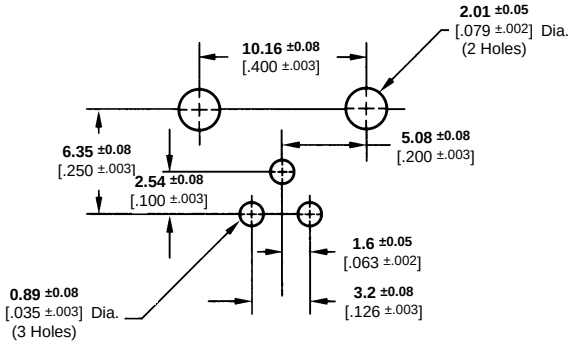


With Mounting Posts
Part No. 228686-1



Maximum Panel Thickness **6.1** [.240]

Recommended Panel Cutout

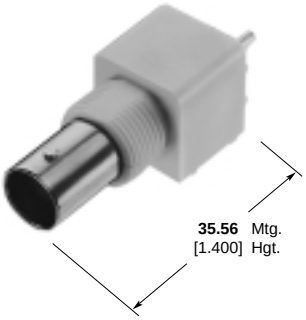


Recommended PC Board Layout

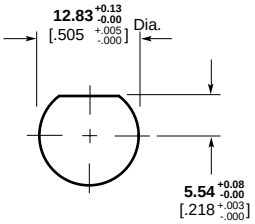
Vertical PC Board/ Panel Mount Jacks

Material

Body — VALOX, White
Center Contacts — Gold
Dielectric — Polymethylpentene



With Mounting Posts
Part No. 221198-1



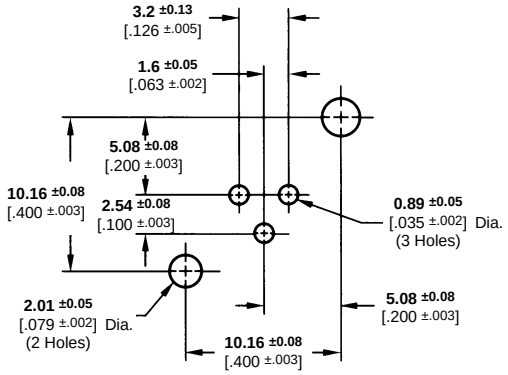
Maximum Panel Thickness **6.1** [.240]

Recommended Panel Cutout

Lockwasher and Jam Nut

Part No.
1-329632-2

Part No.
1-329631-2



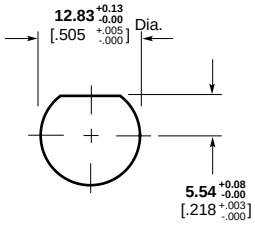
Recommended PC Board Layout

Twin BNC Connectors (Continued)

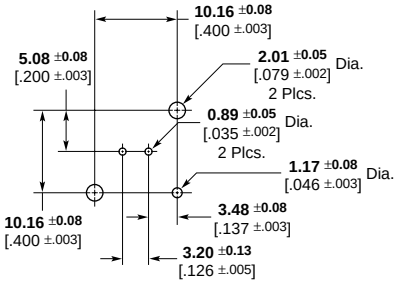
Vertical PC Board Mount Jack

Plating

Body — Nickel
Center Contacts — Gold
Dielectric — Polymethylpentene



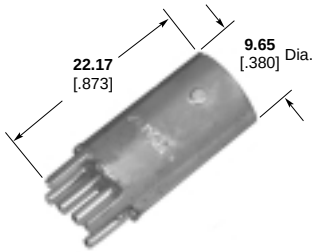
Part No. 415832-1
Recommended Panel Cutout



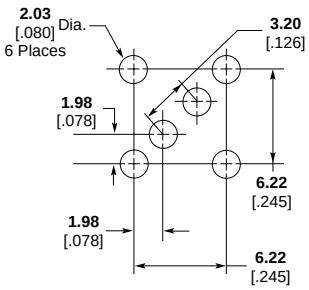
PCB Configuration

Plating

Body — Tin-Lead
Center Contacts — Gold
Dielectric — TEFLON



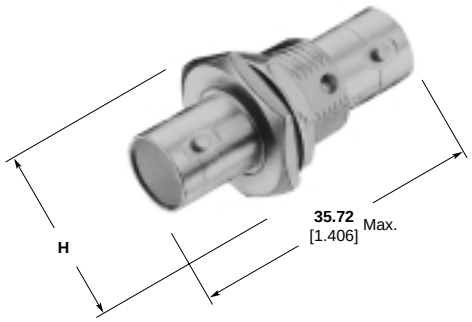
Part No. 414287-1



Bulkhead Jack Adapter

Plating

Body — Silver
Center Contacts — Silver



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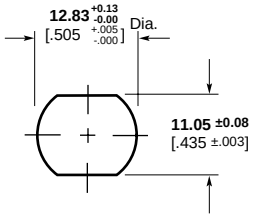
Part No. 332215



Maximum Panel Thickness **3.18** [.125]

Recommended Panel Cutout