

## 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 Tyco Electronics 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**

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 Tyco Electronics which has resulted in the production of high level RF components. Termination of these connectors to twin conductor cable is made with Tyco Electronics exclusive one crimp method which simultaneously terminates inner conductors, outer braid and cable support with one stroke of the matching Tyco Electronics tool.

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

### Materials

**Brass** — QQ-B-626  
**Beryllium Copper** — QQ-C-530  
**PTFE** — 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** — ASTM-B-545

**Packaging** — All connectors are packaged individually unless otherwise noted.



### 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

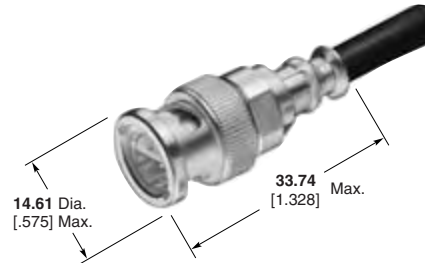
**Mating/Unmating** — Bayonet lock-quick connect/ disconnect  
**Cable Attachment** — Crimp type - Simultaneous center and braid  
**Coupling Nut Retention** — 100 lbs. [444 N] min.  
**Cable Retention** — 25 lbs. [111 N] min., RG 108A/U cable  
**Durability** — 200 cycles per MIL-C-39012

### 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

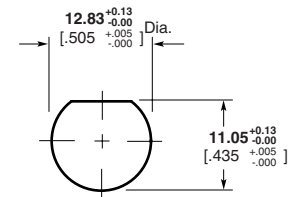
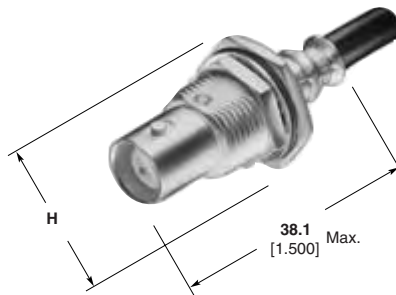
## Twin BNC Connectors (Continued)

### Plugs



| RG/U Cable                       | Center Contact Plating | Body Plating | Dielectric    | Integral Die Hand Tool | Part No.         |
|----------------------------------|------------------------|--------------|---------------|------------------------|------------------|
| 108, 108A                        | Silver                 | Silver       | PTFE          | 69667                  | <b>5332225</b>   |
| BELDEN 9272, 89272               | Silver                 | Nickel       | Polypropylene | 69667                  | <b>5332225-5</b> |
| TROMPETER TWC-124-2              | Silver                 | Silver       | PTFE          | 69667                  | <b>5332225-3</b> |
| ROLM 49D2401<br>RAYCHEM 7824D013 | Silver                 | Nickel       | Polypropylene | 69667                  | <b>5332225-6</b> |

### Bulkhead Jack



Maximum Panel Thickness 3.18 [.125]

**Recommended Panel Cutout**

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

| 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<br>BELDEN 9272, 89272 | Silver                 | Silver       | PTFE       | —                                       | 69667                  | 69708                                                            | <b>5332342</b> |

BELDEN is a trademark of Belden Wire and Cable Company.

ROLM is a trademark of the ROLM Corp.

TROMPETER is a trademark of Trompeter Electronics, Inc.

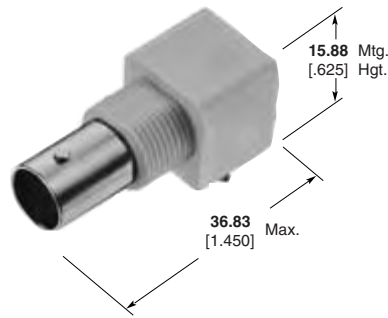
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## Twin BNC Connectors (Continued)

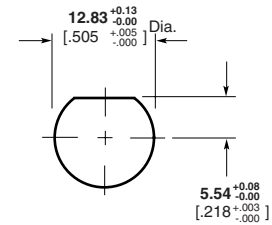
### Right-Angle PC Board/ Panel Mount Jacks

#### Material

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

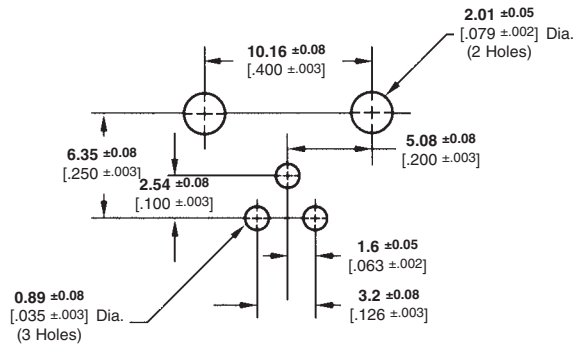


With Mounting Posts  
Part No. 5228686-1



Maximum Panel Thickness 6.1 [240]

Recommended Panel Cutout

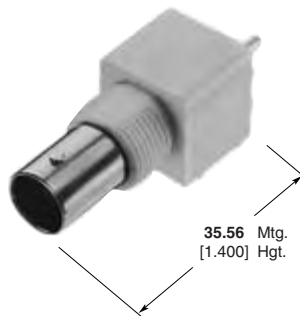


Recommended PC Board Layout

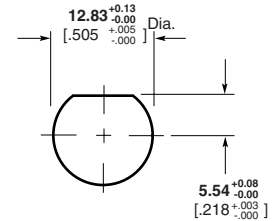
### Vertical PC Board/ Panel Mount Jacks

#### Material

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



With Mounting Posts  
Part No. 5221198-1



Maximum Panel Thickness 6.1 [240]

Recommended Panel Cutout

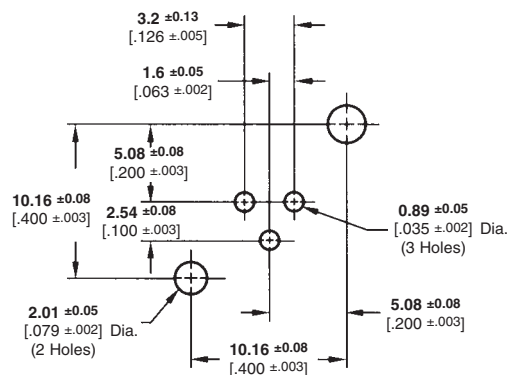
### Lockwasher and Jam Nut



Part No.  
1-329632-2



Part No.  
1-329631-2



Recommended PC Board Layout

VALOX is a trademark of General Electric Company.

**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## Twin BNC Connectors (Continued)

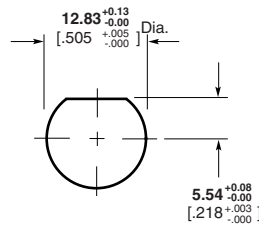
### Vertical PC Board Mount Jack

#### Plating

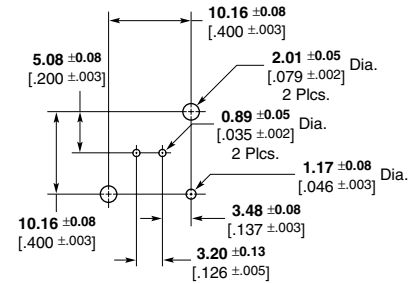
Body — Nickel

Center Contacts — Gold

Dielectric — Polymethylpentene



Part No. 5415832-1  
Recommended Panel Cutout



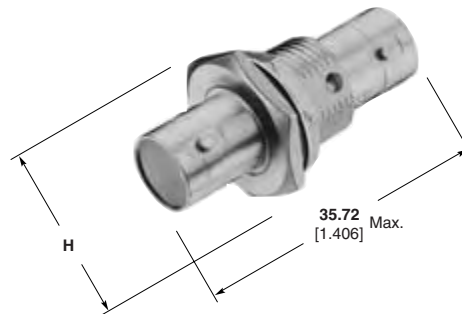
PCB Configuration

### Bulkhead Jack Adapter

#### Plating

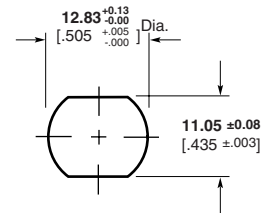
Body — Silver

Center Contacts — Silver



H = 17.45 [0.687] Max. across flats, 20.32 [0.800] Max. across points

Part No. 5332215



Maximum Panel Thickness 3.18 [0.125]

Recommended Panel Cutout

**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.