

## BNC Connectors (50 ohm/75 ohm)

### Product Facts

- Bayonet lock coupling for quick connect/disconnect
- Various connectors available in 50 and 75 ohm versions
- Fully intermateable with comparable BNC UG/U connectors
- Full range of Hex Crimp and O Crimp Products for common coaxial cables.
- Low VSWR
- Single crimp connectors offer one crimping operation for fast application
- Twist-on connectors require no special tooling for application to the cable
- Field serviceable (Category A) connectors qualified to MIL-C-39012
- Field replaceable (Category C) plugs with captivated center contact
- Field replaceable plugs can be terminated with industry standard tooling
- Tarnish resistant Nickel finish available
- Choice of different dielectrics
- 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 

### Between Series Adapters

For BNC Between Series Adapters, see pages 251-260.



The Tyco Electronics BNC RF connector family with bayonet locking coupling provides highly reliable, quick connect/disconnect coaxial connections. Exclusive single and O crimp terminations allow positive insulation grip and require no soldering, providing terminations at a very low overall applied cost.

Available in both 50 and 75 ohm versions, these con-

nectors feature numerous styles including cable plugs and jacks, adapters and printed circuit board connectors. In addition to a variety of crimp type terminations, connectors are furnished in field replaceable and twist-on styles. These connectors accept a wide range of coaxial cables and are intermateable with industry standard connectors designed to MIL-C-39012 specifications.

Tyco Electronics can also supply low cost alternatives with an extensive commercial type product line. A lower cost consumer series product offers the capability to supply center contacts in strip form and allow for automated center contact crimp technology. All connectors are designed around the mil-specifications, but utilize low-cost materials, offering comparable mechanical and electrical performance.

### Related Product Data

#### Product Specifications —

- 108-1275 — BNC Ohm Terminators
- 108-12020 — BNC O Crimp Connectors
- 108-12044 — BNC Commercial Hex Crimp
- 108-12047 — BNC Commercial and Hex Crimp Connectors
- 108-12074 — BNC Solder Jacks
- 108-12075 — BNC Connectors (Category A)
- 108-12078 — BNC Commercial PCB Panel-Mount Jacks

- 108-12002 — BNC Commercial T Adapter
- 108-12095 — BNC Commercial 75 Ohm Connectors
- 108-12096 — BNC Commercial Feed-Thru and Bulkhead Adapters
- 108-12079 — BNC Commercial 50 Ohm Solder Jacks
- 108-12103 — BNC Commercial PCB Press Fit Jacks

#### Application Specifications —

- 114-12001 — BNC Commercial PCB Jack Press Fit

#### Performance Specifications —

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#### Material Specifications — Page 46

Tooling — Pages 266-268

**Military Category** — All MIL type O crimp connectors are Category B Type (Tyco Electronics Crimp Tooling), unless otherwise noted.

**Packaging** — All MIL Type connectors are packaged individually, all O crimp connectors are bulk packaged and all Hex crimp connectors are individually packaged unless otherwise noted.

## BNC Connectors (50 ohm/75 ohm) Performance Specifications

| Characteristics                                            | Single Crimp<br>(MIL Type)                   | Category B<br>O Crimp<br>(MIL Type)                 | Straight<br>Solder<br>Clamp          | Right-Angle<br>Solder<br>Clamp       | Commercial<br>O Crimp<br>& Hex Crimp<br>50 Ohms | Commercial<br>O Crimp<br>& Hex Crimp<br>75 Ohms | Commercial PC<br>Board<br>50 & 75 Ohms            | Commercial<br>Solder<br>50 Ohm Jacks          |
|------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------------------|-------------------------------------------------|---------------------------------------------------|-----------------------------------------------|
| <b>Electrical</b>                                          |                                              |                                                     |                                      |                                      |                                                 |                                                 |                                                   |                                               |
| Impedance, Nom.<br>(Ohms)                                  | 50                                           | 50                                                  | 50                                   | 50                                   | 50                                              | 75                                              | 50 & 75                                           | 50 & 75                                       |
| Working Voltage<br>(Volts RMS)                             | 500                                          | 500                                                 | 500                                  | 500                                  | 500                                             | 500                                             | 500                                               | 500                                           |
| Contact Resistance<br>(Milliohms)                          | Inner: 1.5<br>Outer: 0.3                     | Inner: 1.5<br>Outer: 0.2                            | Inner: 1.5<br>Outer: .20             | Inner: 1.5<br>Outer: .20             | Inner: 2.0<br>Outer: 1.0                        | Inner: 2.0<br>Outer: 2.0                        | Inner: 6/1.5<br>Outer: 3/0.2                      | Inner: 2.75<br>Outer: 1.0                     |
| Initial Insulation Resistance<br>(Megohms)                 | 5000                                         | 5000                                                | 5000                                 | 5000                                 | 5000                                            | 5000                                            | 5000                                              | 5000                                          |
| Dielectric Withstanding<br>Voltage (VAC)                   | 1500                                         | 1500                                                | 1500                                 | 1500                                 | 1500                                            | 1500                                            | 1500                                              | 1500                                          |
| Corona Level at 70,000 ft.<br>(Volts, RMS)                 | 375                                          | 375                                                 | 375                                  | 375                                  | 375                                             | 375                                             | —                                                 | 375                                           |
| RF Leakage, Max.<br>(dB)                                   | —                                            | -55 at<br>2-3 GHz                                   | -55 at<br>2-3 GHz                    | -55 at<br>2-3 GHz                    | -55 at<br>2-3 GHz                               | -55 at<br>1-2 GHz                               | —                                                 | —                                             |
| RF Insertion Loss,<br>Max. (dB)                            | —                                            | 0.2 at<br>3 GHz                                     | 0.2 at<br>3 GHz                      | 0.3 at<br>3 GHz                      | 0.2 at<br>3 GHz                                 | 0.15 at<br>2 GHz                                | —                                                 | —                                             |
| Frequency Range<br>(GHz)                                   | 0-2.5                                        | 0-4                                                 | 0-4                                  | 0-4                                  | 0-4                                             | 0-2                                             | 0-4 and<br>0-2                                    | 0-4                                           |
| VSWR in Frequency<br>Range Max.                            | 1.35                                         | 1.30                                                | 1.30                                 | 1.35                                 | 1.30                                            | 1.30                                            | —                                                 | —                                             |
| <b>Mechanical</b>                                          |                                              |                                                     |                                      |                                      |                                                 |                                                 |                                                   |                                               |
| Force to Engage (lbs. [N])/couple,<br>(in-lbs. [N-M]) max. | 13.3/11.12<br>[3/2.5]                        | 13.3/11.12<br>[3/2.5]                               | 13.3/.028<br>[3/2.5]                 | 13.3/.028<br>[3/2.5]                 | 26.7/26.69<br>[6/6.0]                           | 26.7/26.69<br>[6/6.0]                           | —                                                 | —                                             |
| Coupling Nut Retention,<br>Min. N [lbs.]                   | 444.8<br>[100]                               | 444.8<br>[100]                                      | 444.8<br>[100]                       | 444.8<br>[100]                       | 266.9<br>[60]                                   | 266.9<br>[60]                                   | —                                                 | —                                             |
| Cable Retention,<br>N [lbs.]                               | 266.9 [60]<br>(RG58C/U)                      | 266.9 [60]<br>(RG58C/U)                             | 177.9 [40]<br>(RG58C/U)              | 177.9 [40]<br>(RG58C/U)              | 266.9 [60]<br>(RG58C/U)                         | 266.9 [60]<br>(RG58C/U)                         | 266.9 [60]<br>(PCB Ret)                           | —                                             |
| Durability (Cycles)                                        | 500                                          | 500                                                 | 500                                  | 500                                  | 500                                             | 500                                             | 500                                               | 500                                           |
| Jam Nut Mounting Torque,<br>Max. [N•m] (in. lbs.)          | 25<br>[2.8]                                  | 25<br>[2.8]                                         | 25<br>[2.8]                          | —                                    | 25<br>[2.8]                                     | 25<br>[2.8]                                     | 25 <sup>3</sup> /12 <sup>4</sup><br>[2.8/1.4]     | 25<br>[2.8]                                   |
| <b>Environmental</b>                                       |                                              |                                                     |                                      |                                      |                                                 |                                                 |                                                   |                                               |
| Temperature Range,<br>Operating (C°)                       | -65 to +85                                   | -65 to +165 <sup>1</sup><br>-55 to +85 <sup>2</sup> | -65 to +165                          | -65 to +165                          | -55 to +85                                      | -55 to +85                                      | -55 to +85                                        | -65 to +165                                   |
| Vibration                                                  | MIL-STD-202<br>Method 204<br>Cond. B         | MIL-STD-202<br>Method 204<br>Cond. B                | MIL-STD-202<br>Method 204<br>Cond. B | MIL-STD-202<br>Method 204<br>Cond. B | MIL-STD-1344<br>Method 2005<br>Cond. III        | MIL-STD-202<br>Method 204<br>Cond. B            | MIL-STD-202<br>Method 201A                        | MIL-STD-202<br>Method 204<br>Cond. B          |
| Physical Shock                                             | MIL-STD-202<br>Method 213<br>Cond. G, 50 G's | MIL-STD-202<br>Method 213<br>Cond. G, 50 G's        | MIL-STD-202<br>Method 213<br>Cond. G | MIL-STD-202<br>Method 213<br>Cond. G | MIL-STD-1344<br>Method 2004<br>Cond. G, 100 G's | MIL-STD-202<br>Method 213<br>Cond. I, 100 G's   | MIL-STD-202<br>Method 213<br>Cond. I or A, 50 G's | MIL-STD-202<br>Method 213<br>Cond. I, 100 G's |
| Thermal Shock                                              | MIL-STD-202<br>Method 107                    | MIL-STD-202<br>Method 107                           | MIL-STD-202<br>Method 107            | MIL-STD-202<br>Method 107            | MIL-STD-1344<br>Method 1003<br>Cond. A          | MIL-STD-202<br>Method 107                       | MIL-STD-202<br>Method 107                         | MIL-STD-202<br>Method 107                     |
| Moisture<br>Resistance                                     | MIL-STD-202<br>Method 106                    | MIL-STD-202<br>Method 106                           | MIL-STD-202<br>Method 106            | MIL-STD-202<br>Method 106            | MIL-STD-1344<br>Method 1002<br>Type II          | MIL-STD-202<br>Method 106                       | MIL-STD-202<br>Method 106                         | MIL-STD-202<br>Method 106                     |
| Salt Spray                                                 | MIL-STD-202<br>Method 101<br>Cond. B         | MIL-STD-202<br>Method 101<br>Cond. B                | MIL-STD-202<br>Method 101<br>Cond. B | MIL-STD-202<br>Method 101<br>Cond. B | MIL-STD-1344<br>Method 1001<br>Cond. B          | MIL-STD-202<br>Method 101<br>Cond. B            | MIL-STD-202<br>Method 101<br>Cond. B              | MIL-STD-202<br>Method 101<br>Cond. B          |
| Product<br>Specification                                   | 108-12002                                    | 108-12020                                           | —                                    | —                                    | 108-12044<br>108-12047                          | 108-12095                                       | 108-12078                                         | 108-12079                                     |

<sup>1</sup>Assembled to cable with polytetrafluorethylene dielectric.

<sup>2</sup>Assembled to cable with polyethylene dielectric.

<sup>3</sup>For Metal Threads

<sup>4</sup>For Polyester Threads

## BNC Connectors (50 ohm/75 ohm) Performance Specifications (Continued)

| Connector Component                           | Single Crimp (MIL Type)                        | Category B & C O Crimp (MIL Type)         | Straight Solder Clamp    | Right-Angle Solder Clamp | Commercial O Crimp Hex Crimp & Terminators                      | Commercial PCB Solder                                        | Commercial PCB Press Fit | Commercial Solder Ohm Jacks                                  | Adapters                                        |
|-----------------------------------------------|------------------------------------------------|-------------------------------------------|--------------------------|--------------------------|-----------------------------------------------------------------|--------------------------------------------------------------|--------------------------|--------------------------------------------------------------|-------------------------------------------------|
| <b>Connector Material</b>                     |                                                |                                           |                          |                          |                                                                 |                                                              |                          |                                                              |                                                 |
| Collar                                        | Brass QQ-B-626                                 | Brass QQ-B-626                            | Brass                    | Brass                    | Brass QQ-B-626<br>Zinc QQ-Z-363                                 | —                                                            | —                        | —                                                            | Brass QQ-B-626                                  |
| Outer Contact (Plug)                          | Brass QQ-B-626<br>Beryl. Copper QQ-C-530       | Phos. Bronze QQ-B-750                     | Brass                    | Brass                    | Brass MIL-C-21768                                               | —                                                            | —                        | —                                                            | Brass QQ-B-626<br>Beryl. Copper QQ-C-530        |
| Shell (Jack)                                  | Brass QQ-B-626                                 | Brass QQ-B-626                            | Brass                    | —                        | Zinc QQ-Z-363                                                   | Zinc QQ-Z-363                                                | Zinc<br>Zinc QQ-Z-363    | QQ-Z-363<br>Brass QQ-B-626                                   | Brass QQ-B-626                                  |
| Dielectric                                    | PTFE MIL-P-19468<br>Polypropylene Gen. Purpose | PTFE MIL-P-19468                          | PTFE                     | PTFE                     | Polyethylene<br>Polypropylene<br>Polymethylpentene Gen. Purpose | Polymethylpentene Gen. Purpose <sup>1</sup>                  | PTFE MIL-P-19468         | PTFE MIL-P-19468<br>Polyester PBT MIL-P-24519                | PTFE MIL-P-19468<br>Polypropylene, Gen. Purpose |
| Center Contact (Plug)                         | Brass QQ-B-626                                 | Brass QQ-B-626                            | Brass                    | Brass                    | Brass QQ-B-626                                                  | —                                                            | —                        | —                                                            | Brass QQ-B-626<br>Beryl. Copper QQ-C-530        |
| Center Contact (Jack)                         | Beryl. Copper ASTM-B-643<br>QQ-C-530           | Beryl. Copper ASTM-B-643<br>QQ-C-530      | Beryl. Copper            | Beryl. Copper            | Beryl. Copper QQ-C-530                                          | Phos. Bronze QQ-B-750                                        | Beryl. Copper QQ-C-530   | Phos. Bronze QQ-B-570<br>Beryl. Copper QQ-C-530              | Phos. Bronze QQ-B-570<br>Beryl. Copper QQ-C-530 |
| Gasket                                        | Silicon Rubber QQ-R-765                        | Silicon Rubber QQ-R-765                   | Silicon Rubber           | Silicon Rubber           | Silicon Rubber QQ-R-765                                         | —                                                            | —                        | —                                                            | Silicon Rubber QQ-R-765                         |
| Ferrule                                       | Copper QQ-C-576                                | Copper QQ-C-576                           | —                        | —                        | Copper QQ-C-576                                                 | —                                                            | —                        | —                                                            | —                                               |
| <b>Connector Primary Finishes<sup>2</sup></b> |                                                |                                           |                          |                          |                                                                 |                                                              |                          |                                                              |                                                 |
| Collar                                        | Silver QQ-S-365<br>Bright Nickel QQ-N-290      | Silver QQ-S-365<br>Bright Nickel QQ-N-290 | Silver/<br>Bright Nickel | Silver/<br>Bright Nickel | Bright Nickel QQ-N-290                                          | —                                                            | —                        | —                                                            | Silver QQ-S-365<br>Bright Nickel QQ-N-290       |
| Outer Contacts (Plug & Jack)                  | QQ-S-365<br>Gold                               | Silver QQ-S-365<br>Bright Nickel QQ-N-290 | Silver/<br>Bright Nickel | Silver/<br>Bright Nickel | Bright or Matte Nickel QQ-N-290                                 | Bright Nickel QQ-N-290                                       | Bright Nickel QQ-N-290   | Bright Nickel QQ-N-290                                       | Silver QQ-S-365<br>Bright Nickel QQ-N-290       |
| Center Contacts (Plug & Jack)                 | MIL-G-45204<br>Silver                          | Gold MIL-G-45204                          | Gold                     | Gold                     | Tin Lead ASTM-B-545<br>Silver, QQ-S-365<br>Gold, MIL-G-45204    | Tin Lead ASTM-B-545<br>Silver, QQ-S-365<br>Gold, MIL-G-45204 | Gold MIL-B-45204         | Tin Lead ASTM-B-545<br>Silver, QQ-S-365<br>Gold, MIL-G-45204 | Silver QQ-S-365<br>Gold MIL-G-45204             |
| Ferrule <sup>3</sup>                          | QQ-S-365                                       | Silver QQ-S-365<br>Tin Lead ASTM-B-545    | —                        | —                        | Tin Lead ASTM-B-545                                             | —                                                            | —                        | —                                                            | —                                               |

<sup>1</sup>Several pc board connectors have an outer polyester PBT insulator per MIL-P-24519.

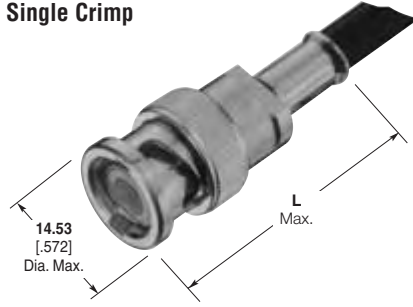
<sup>2</sup>If more than one finish is listed, refer to individual catalog page(s) or customer drawings for exact specification.

<sup>3</sup>Ferrules with tin-lead finish are used with nickel plated outer contacts.

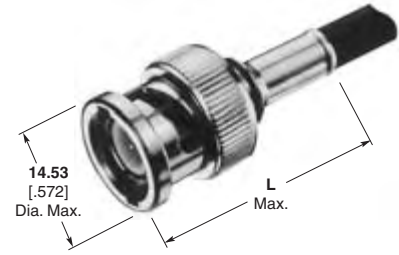
## BNC Connectors, 50 Ohm

### Plugs, Crimp

#### Single Crimp



#### Hex and O Crimp



| RG/U Cable                                   | Termination Type | Body Plating | Dielectric   | Style      | Dim. L                | CERTI-CRIMP Hand Tool with Integral Die | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.                       |
|----------------------------------------------|------------------|--------------|--------------|------------|-----------------------|-----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------------------|
| 178, 178A, 178B, 196, 196A                   | Single Crimp     | Silver       | PTFE         | MIL Type   | <b>33.33</b><br>1.312 | 69245-4                                 | —                                                                                       | 69471                                                                | <b>5330876</b>                 |
| 174, 188, 188A, 316                          | Hex Crimp        | Nickel       | Polyethylene | Commercial | <b>33.53</b><br>1.320 | —                                       | 58436-3                                                                                 | —                                                                    | <b>2-5221128-1</b>             |
|                                              | O Crimp          | Nickel       | Polyethylene | Commercial | <b>27.69</b><br>1.090 | 220009-5                                | 318450-2                                                                                | 220217-3                                                             | <b>1-5227079-6</b>             |
|                                              | O Crimp          | Nickel       | PTFE         | MIL Type   | <b>30.18</b><br>1.188 | —                                       | 1424050-1                                                                               | 220026-1                                                             | <b>5225395-7</b>               |
|                                              | Single Crimp     | Silver       | PTFE         | MIL Type   | <b>33.33</b><br>1.312 | 69245-2                                 | —                                                                                       | 69422                                                                | <b>2-5330061-1</b>             |
| 179, 179A, 179B, 161, 187, 187A, BELDEN 9221 | Hex Crimp        | Nickel       | Polyethylene | Commercial | <b>33.53</b><br>1.320 | —                                       | 58436-3                                                                                 | —                                                                    | <b>2-5221128-3</b>             |
|                                              | O Crimp          | Nickel       | Polyethylene | Commercial | <b>27.69</b><br>1.090 | —                                       | 1424050-1                                                                               | 220217-3                                                             | <b>2-5227079-2</b>             |
|                                              | O Crimp          | Nickel       | PTFE         | MIL Type   | <b>30.18</b><br>1.188 | —                                       | —                                                                                       | 220026-1                                                             | <b>5225395-8</b>               |
|                                              | Single Crimp     | Silver       | PTFE         | MIL Type   | <b>33.33</b><br>1.312 | —                                       | 91910-1                                                                                 | 69408                                                                | <b>2-5329446-1</b>             |
| RD 316, 188, Double Braid                    | O Crimp          | Nickel       | Polyethylene | Commercial | <b>27.69</b><br>1.090 | 69477-4                                 | 58539-1                                                                                 | —                                                                    | <b>8-5227079-2</b>             |
| BELDEN 8219                                  | Hex Crimp        | Nickel       | Polyethylene | Commercial | <b>33.53</b><br>1.320 | —                                       | 58436-1 <sup>2</sup>                                                                    | —                                                                    | <b>2-5221128-7</b>             |
|                                              | O Crimp          | Nickel       | Polyethylene | Commercial | <b>27.69</b><br>1.090 | 220187-1                                | 58435-1 <sup>1</sup>                                                                    | 220217-1                                                             | <b>6-5227079-7<sup>3</sup></b> |
| BELDEN 9907, 89907 COMM/SCOPE 2104           | O Crimp          | Nickel       | Polyethylene | Commercial | <b>27.69</b><br>1.090 | 220187-1                                | 318452-2                                                                                | 220217-1                                                             | <b>6-5227079-8<sup>4</sup></b> |
| BELDEN 8218                                  | O Crimp          | Nickel       | Polyethylene | Commercial | <b>27.69</b><br>1.090 | 69477-4                                 | 58539-1                                                                                 | 58376-1                                                              | <b>1-5227079-9</b>             |
|                                              | O Crimp          | Nickel       | PTFE         | MIL Type   | <b>30.18</b><br>1.188 | —                                       | 91904-1                                                                                 | 69669-2                                                              | <b>1-5225395-0</b>             |

<sup>1</sup>Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.

<sup>2</sup>Order Tyco Electronics PRO-CRIMPER Coaxial Hex Crimp Hand Tool assembly 58433-2, which includes dies 58436-1.

<sup>3</sup>For use with BELDEN 9907 cable, COMM/SCOPE 3104 cable, and BELDEN 8219 cable only.

<sup>4</sup>For use with BELDEN 89907 cable, and COMM/SCOPE 2104 cable only.

BELDEN is a trademark of Belden Wire and Cable Company.

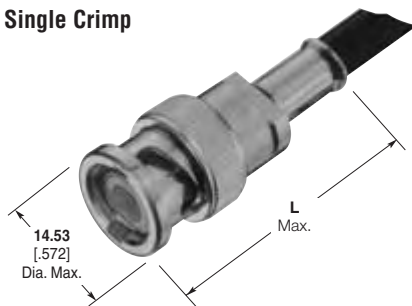
COMM/SCOPE is a trademark of Commscope, Inc.

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

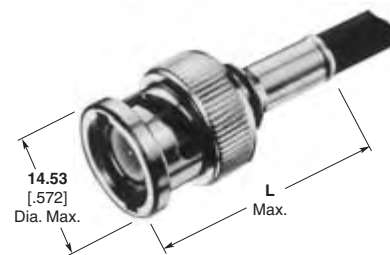
## BNC Connectors, 50 Ohm (Continued)

### Plugs, Crimp (Continued)

#### Single Crimp



#### Hex and O Crimp



| RG/U Cable                                      | Termination Type | Body Plating | Dielectric   | Style      | Dim. L         | CERTI-CRIMP Hand Tool with Integral Die | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.    |
|-------------------------------------------------|------------------|--------------|--------------|------------|----------------|-----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------|
| 58, 58A, 58B, 58C                               | Hex Crimp        | Nickel       | Polyethylene | Commercial | 33.53<br>1.320 | —                                       | 58436-12                                                                                | —                                                                    | 5221128-13  |
|                                                 | O Crimp          | Nickel       | Polyethylene | Commercial | 27.69<br>1.090 | 220187-1                                | 58435-11                                                                                | 220217-1                                                             | 5227079-5   |
|                                                 | O Crimp          | Nickel       | PTFE         | MIL Type   | 33.74<br>1.328 | 69478-1                                 | 220189-3                                                                                | 69727                                                                | 5225395-1   |
|                                                 | Single Crimp     | Silver       | PTFE         | MIL Type   | 33.33<br>1.312 | —                                       | 91904-4                                                                                 | 69223-1                                                              | 2-5329444-1 |
| BELDEN 88240, BERK-TEK BTDC-58, COMM/SCOPE 2135 | Hex Crimp        | Nickel       | Polyethylene | Commercial | 33.53<br>1.320 | —                                       | 58436-12                                                                                | —                                                                    | 1-5221128-0 |
|                                                 | O Crimp          | Nickel       | Polyethylene | Commercial | 33.33<br>1.312 | 220187-1                                | 58435-11                                                                                | 220217-1                                                             | 4-5227079-3 |
|                                                 | O Crimp          | Nickel       | PTFE         | MIL Type   | 33.33<br>1.312 | 69478-1                                 | 220189-3                                                                                | 69727                                                                | 4-5225395-2 |
| 223, 55, 55A, 55B                               | O Crimp          | Nickel       | Polyethylene | Commercial | 27.69<br>1.280 | 220187-1                                | 58435-11                                                                                | 220217-1                                                             | 5227079-6   |
|                                                 | O Crimp          | Nickel       | PTFE         | MIL Type   | 43.64<br>1.718 | 69478-1                                 | 220189-3                                                                                | 69727                                                                | 5225395-3   |
|                                                 | Single Crimp     | Silver       | PTFE         | MIL Type   | 33.33<br>1.312 | —                                       | 91904-3                                                                                 | 69424                                                                | 2-5329444-2 |
| 142, 142A, 142B, 400                            | O Crimp          | Nickel       | Polyethylene | Commercial | 27.69<br>1.090 | 220187-1                                | 58435-11                                                                                | 220217-1                                                             | 6-5227079-1 |
|                                                 | O Crimp          | Nickel       | PTFE         | MIL Type   | 30.18<br>1.188 | 69478-1                                 | 220189-3                                                                                | 69727                                                                | 5225395-6   |
|                                                 | Single Crimp     | Silver       | PTFE         | MIL Type   | 33.33<br>1.312 | 69331-1                                 | —                                                                                       | 69429-1                                                              | 2-5330358-2 |

Consult Tyco Electronics for recommended crimp tooling.

<sup>1</sup>Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.

<sup>2</sup>Order Tyco Electronics PRO-CRIMPER Coaxial Hex Crimp Hand Tool assembly 58433-2, which includes dies 58436-1.

<sup>3</sup>Bulk packaged.

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BERK-TEK is a trademark of Nexans, Inc.

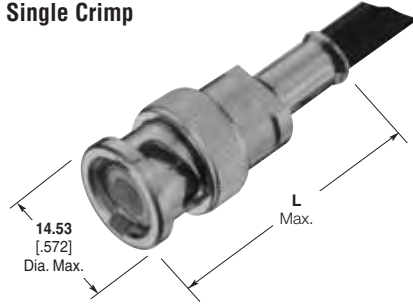
COMM/SCOPE is a trademark of Commscope, Inc.

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

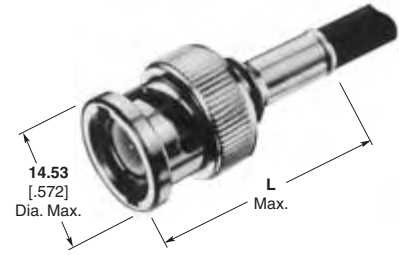
## BNC Connectors, 50 Ohm (Continued)

### Plugs, Crimp (Continued)

#### Single Crimp



#### Hex and O Crimp



| RG/U Cable                                                                    | Termination Type | Body Plating | Dielectric    | Style      | Dim. L         | CERTI-CRIMP Hand Tool with Integral Die | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.    |
|-------------------------------------------------------------------------------|------------------|--------------|---------------|------------|----------------|-----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------|
| 124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269            | Hex Crimp        | Nickel       | Polyethylene  | Commercial | 33.53<br>1.320 | —                                       | 58436-12                                                                                | —                                                                    | 1-5221128-1 |
|                                                                               | O Crimp          | Nickel       | Polyethylene  | Commercial | 27.69<br>1.090 | 220187-2                                | 58435-11                                                                                | 220217-2                                                             | 5227079-7   |
|                                                                               | O Crimp          | Nickel       | Polyethylene  | Commercial | 27.69<br>1.090 | 220187-2                                | 58435-11                                                                                | 220217-2                                                             | 1-5227079-1 |
|                                                                               | O Crimp          | Nickel       | PTFE          | MIL Type   | 30.18<br>1.188 | —                                       | 58537-1                                                                                 | —                                                                    | 5225395-2   |
|                                                                               | Single Crimp     | Silver       | PTFE          | MIL Type   | 33.33<br>1.312 | 69141-1                                 | —                                                                                       | —                                                                    | 2-5329445-1 |
| 302, BELDEN 88241, 89269, Hi-Temp 62A, Times PL62, BERK-TEK, BTDC-59, BTDC-62 | Hex Crimp        | Nickel       | Polyethylene  | Commercial | 33.53<br>1.320 | —                                       | 58436-12                                                                                | —                                                                    | 1-5221128-1 |
|                                                                               | O Crimp          | Nickel       | PTFE          | MIL Type   | 34.14<br>1.344 | 69477-1                                 | 58537-1                                                                                 | 69669-1                                                              | 4-5225395-1 |
| Hi-Temp 59, Times PL59, PLF59 (20 AWG C.C.)                                   | O Crimp          | Nickel       | Polyethylene  | Commercial | 33.33<br>1.312 | —                                       | 58537-1                                                                                 | —                                                                    | 5-5227079-3 |
| BELDEN 9104, 9240, 9112, 9167, 9259, 9266, Times FM-59                        | Hex Crimp        | Nickel       | Polyethylene  | Commercial | 33.53<br>1.320 | —                                       | 58436-12                                                                                | —                                                                    | 1-5221128-7 |
|                                                                               | O Crimp          | Nickel       | PTFE          | MIL Type   | 30.94<br>1.218 | —                                       | 58537-1                                                                                 | 69669-1                                                              | 2-5225395-0 |
| BELDEN 8281, 9141, 9231, Western Electric 724, 728, 3049                      | Single Crimp     | Silver       | Polypropylene | MIL Type   | 41.50<br>1.634 | 69652                                   | —                                                                                       | 220000                                                               | 5330878     |
| 8, 8A, 213                                                                    | O Crimp          | Silver       | PTFE          | MIL Type   | 27.31<br>1.075 | 220015-1                                | —                                                                                       | —                                                                    | 5225886-1   |
| 11, 11A                                                                       | O Crimp          | Silver       | PTFE          | MIL Type   | 47.63<br>1.875 | 220015-1                                | —                                                                                       | —                                                                    | 5225886-4   |
| BELDEN 9914, Times FM-8                                                       | O Crimp          | Silver       | PTFE          | MIL Type   | 47.63<br>1.875 | 220015-1                                | —                                                                                       | —                                                                    | 5225886-7   |
| Alpha 9847, BELDEN 8213, 9292                                                 | O Crimp          | Silver       | PTFE          | MIL Type   | 47.63<br>1.875 | 220015-1                                | —                                                                                       | —                                                                    | 225886-5 ♦  |
| 9, 9A, 9B, 214                                                                | O Crimp          | Silver       | PTFE          | MIL Type   | 52.38<br>2.062 | 220015-1                                | —                                                                                       | —                                                                    | 5225886-1   |

<sup>1</sup>Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.

<sup>2</sup>Order Tyco Electronics PRO-CRIMPER Coaxial Hex Crimp Hand Tool assembly 58433-2, which includes dies 58436-1. Tyco Electronics PRO-CRIMPER II Hand Tool Frame without dies Part No. 354940-1

BELDEN is a trademark of Belden Wire and Cable Company.  
BERK-TEK is a trademark of Nexans, Inc.

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



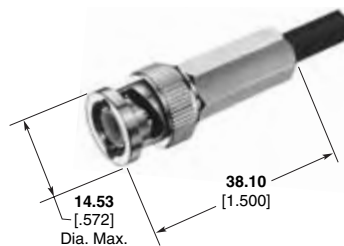
## BNC Connectors, 50 Ohm (Continued)

### Plugs, Twist-On

#### Related Product Data

Twist-On plugs must be used with cable that has a solid conductor. These plugs are not recommended for applications where the cable frequently moves or flexes.

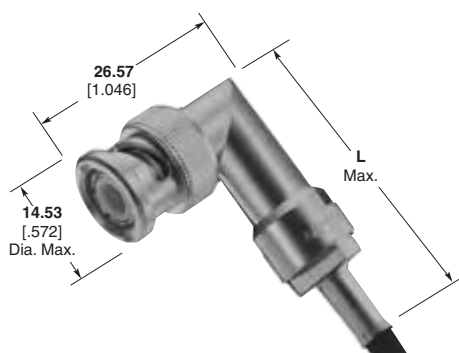
Mating Twist-On Jack — Page 52



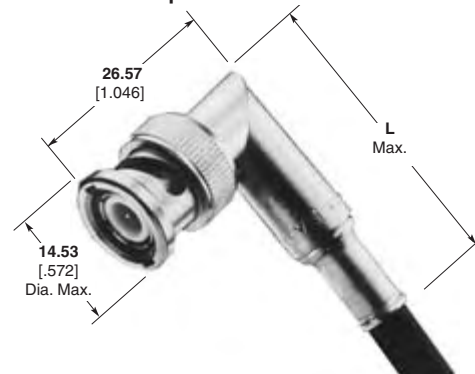
| RG/U Cable   | Contact Plating | Body Plating | Dielectric         | Style      | Part No.  |
|--------------|-----------------|--------------|--------------------|------------|-----------|
| 59, 59A, 59B | Gold            | Nickel       | Polymethyl-pentene | Commercial | 5414265-3 |

### Right-Angle Plugs, Crimp

#### Single Crimp



#### Hex and O Crimp



| RG/U Cable                                                         | Termination Type | Center Contact Plating | Body Plating | Dielectric         | Style      | Dim. L         | CERTI-CRIMP Hand Tool with Integral Die | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.  |
|--------------------------------------------------------------------|------------------|------------------------|--------------|--------------------|------------|----------------|-----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------|
| 174, 188, 188A, 316                                                | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | 39.45<br>1.553 | —                                       | 58436-3                                                                                 | —                                                                    | 5413959-3 |
|                                                                    | Single Crimp     | Gold                   | Silver       | PTFE               | MIL Type   | 44.45<br>1.750 | —                                       | 91910-1                                                                                 | 69422                                                                | 5331178   |
| 179, 179A, 179B, 161, 187, 187A, BELDEN 9221                       | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | 39.45<br>1.553 | —                                       | 58436-3                                                                                 | —                                                                    | 5413959-4 |
| 180, 180A, 180B, 195, 195A                                         | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | 39.45<br>1.553 | —                                       | 58436-3                                                                                 | —                                                                    | 5413959-5 |
| BELDEN 9907, 89907, 8219, COMM/SCOPE 2104, 3104                    | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | 39.45<br>1.553 | —                                       | 58436-1                                                                                 | —                                                                    | 5413959-6 |
| 58, 58A, 58B, 58C                                                  | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | 39.45<br>1.553 | —                                       | 58436-1                                                                                 | —                                                                    | 5413959-1 |
|                                                                    | O Crimp          | Gold                   | Nickel       | PTFE               | MIL Type   | 37.29<br>1.468 | 69478-1                                 | 220189-3                                                                                | 69727-1                                                              | 5225974-1 |
|                                                                    | Single Crimp     | Gold                   | Silver       | PTFE               | MIL Type   | 44.45<br>1.750 | —                                       | 91904-1                                                                                 | 69223-1                                                              | 5331175   |
| 55, 55A, 55B, 223                                                  | O Crimp          | Gold                   | Nickel       | PTFE               | MIL Type   | 37.29<br>1.468 | 69478-1                                 | 220189-3                                                                                | 69727-1                                                              | 5225974-2 |
|                                                                    | Single Crimp     | Gold                   | Silver       | PTFE               | MIL Type   | 44.45<br>1.750 | —                                       | 91904-3                                                                                 | 69429-1                                                              | 5331182   |
| 142, 142A, 142B, 400                                               | Single Crimp     | Gold                   | Silver       | PTFE               | MIL Type   | 44.45<br>1.750 | 69331-1                                 | —                                                                                       | 69429-1                                                              | 5331182   |
| 124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269 | O Crimp          | Gold                   | Nickel       | PTFE               | MIL Type   | 37.29<br>1.468 | —                                       | 58537-1                                                                                 | 69669-1                                                              | 5225974-5 |

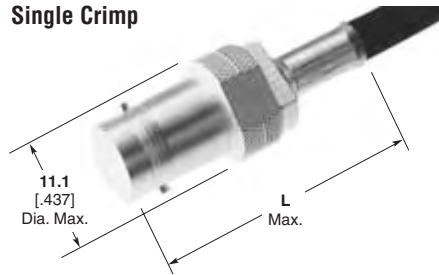
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**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

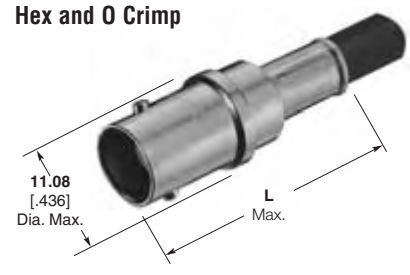
## BNC Connectors, 50 Ohm (Continued)

### Jacks, Crimp

#### Single Crimp



#### Hex and O Crimp



| RG/U Cable                                                         | Termination Type | Center Contact Plating | Body Plating | Dielectric         | Style      | Dim. L                | CERTI-CRIMP Hand Tool with Integral Die | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.           |
|--------------------------------------------------------------------|------------------|------------------------|--------------|--------------------|------------|-----------------------|-----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------|
| 174, 188, 188A, 316                                                | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | <b>33.02</b><br>1.300 | —                                       | 58436-3                                                                                 | —                                                                    | <b>5413779-3</b>   |
|                                                                    | O Crimp          | Gold                   | Nickel       | Polypropylene      | Commercial | <b>30.48</b><br>1.200 | —                                       | 1424050-1                                                                               | 220217-3                                                             | <b>5228979-7</b>   |
|                                                                    | O Crimp          | Gold                   | Nickel       | PTFE               | MIL Type   | <b>30.48</b><br>1.200 | —                                       | 1424050-1                                                                               | 220026-1                                                             | <b>5225396-7</b>   |
|                                                                    | Single Crimp     | Gold                   | Silver       | PTFE               | MIL Type   | <b>33.33</b><br>1.312 | —                                       | —                                                                                       | 69422                                                                | <b>2-5330062-1</b> |
| 179, 179A, 179B, 161, 187, 187A, BELDEN 9221                       | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | <b>33.02</b><br>1.300 | —                                       | 58436-3                                                                                 | —                                                                    | <b>2-5413779-4</b> |
| 58, 58A, 58B, 58C                                                  | O Crimp          | Gold                   | Nickel       | Polypropylene      | Commercial | <b>30.48</b><br>1.200 | 220187-1                                | 58435-1 <sup>1</sup>                                                                    | 220217-1                                                             | <b>5228979-5</b>   |
|                                                                    | O Crimp          | Gold                   | Nickel       | PTFE               | MIL Type   | <b>30.48</b><br>1.200 | —                                       | 91901-1                                                                                 | 69727                                                                | <b>5225396-1</b>   |
| 223, 55, 55A, 55B                                                  | Single Crimp     | Gold                   | Silver       | PTFE               | MIL Type   | <b>33.33</b><br>1.312 | 69140-2                                 | 91904-3                                                                                 | 69424                                                                | <b>2-5329452-2</b> |
| 124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269 | O Crimp          | Gold                   | Nickel       | Polypropylene      | Commercial | <b>30.48</b><br>1.200 | 220187-2                                | 58435-1 <sup>1</sup>                                                                    | 220217-2                                                             | <b>5228979-6</b>   |
|                                                                    | O Crimp          | Gold                   | Nickel       | PTFE               | MIL Type   | <b>30.48</b><br>1.200 | —                                       | 58537-1                                                                                 | 69669-1                                                              | <b>5225396-2</b>   |

<sup>1</sup>Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.

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



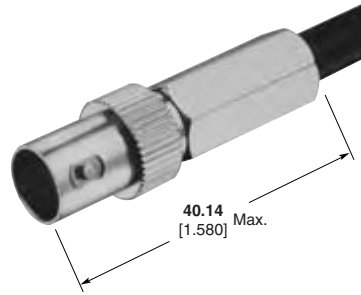
## BNC Connectors, 50 Ohm (Continued)

### Jacks, Twist-On

#### Related Product Data

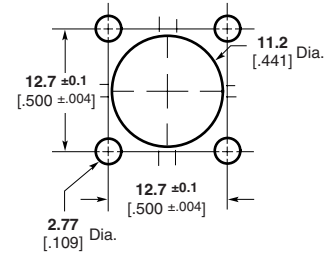
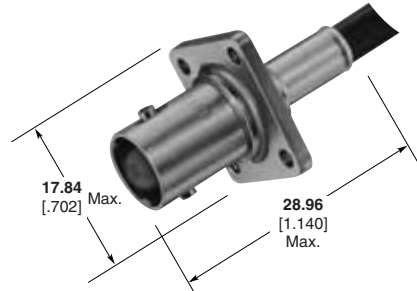
Twist-on jacks must be used with cable that has a solid conductor. These jacks are not recommended for applications where the cable frequently moves or flexes.

**Mating Twist-On Plug** — Page 50



| RG/U Cable   | Center Contact | Body Plating | Dielectric | Style      | Part No. |
|--------------|----------------|--------------|------------|------------|----------|
| 59, 59A, 59B | Gold           | Nickel       | Acetal     | Commercial | 222428-1 |

### Panel Jacks, Crimp



**Recommended Panel Cutout**

| RG/U Cable                                                                | Termination Type | Center Contact Plating | Body Plating | Dielectric | Style    | CERTI-CRIMP Hand Tool with Integral Die | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.  |
|---------------------------------------------------------------------------|------------------|------------------------|--------------|------------|----------|-----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------|
| 174, 188, 188A, 316                                                       | O Crimp          | Gold                   | Nickel       | PTFE       | MIL Type | —                                       | 1424050-1                                                                               | 220026-1                                                             | 5225397-7 |
| 58, 58A, 58B, 58C                                                         | O Crimp          | Gold                   | Nickel       | PTFE       | MIL Type | 69478-1                                 | 91901-1                                                                                 | 69727                                                                | 5225397-1 |
| 124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269, 89269 | O Crimp          | Gold                   | Nickel       | PTFE       | MIL Type | 69477-1                                 | 58537-1                                                                                 | 69669-1                                                              | 5225397-2 |

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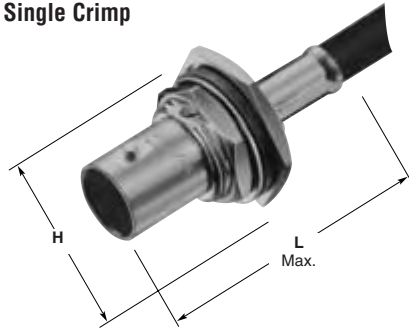
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 50 Ohm (Continued)

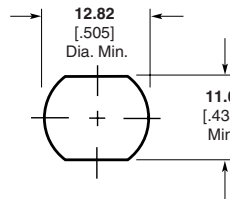
### Bulkhead Jacks, Crimp

**Note:** Panel Insulating Bushings — Page 54

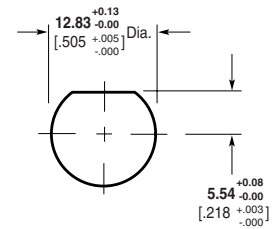
#### Single Crimp



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



#### Hex and O Crimp



**H = 11/16"** across flats, **20.32** [.800] Max. across points

| RG/U<br>Cable                                         | Termination<br>Type | Center<br>Contact<br>Plating | Body<br>Plating | Dielectric             | Style      | Dim.<br>L             | CERTI-CRIMP<br>Hand Tool<br>with<br>Integral Die | Interchangeable Dies<br>for PRO-CRIMPER<br>Hand Tool 354940-1<br>or<br>PRO-CRIMPER<br>Adapter 679304-1 | Interchangeable<br>Dies for Hand<br>Tool 69710-1<br>& 626 Pneu.<br>Head 318161-1 | Part No.           |
|-------------------------------------------------------|---------------------|------------------------------|-----------------|------------------------|------------|-----------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------|
| 174, 188,<br>188A, 316                                | Hex Crimp           | Gold                         | Nickel          | Polymethyl-<br>pentene | Commercial | <b>36.83</b><br>1.450 | —                                                | 58436-3                                                                                                | —                                                                                | <b>5413771-3</b>   |
|                                                       | O Crimp             | Gold                         | Nickel          | Polypropy-<br>lene     | Commercial | <b>34.93</b><br>1.375 | —                                                | —                                                                                                      | 220217-3                                                                         | <b>5228980-7</b>   |
|                                                       | O Crimp             | Gold                         | Nickel          | PTFE                   | MIL Type   | <b>35.71</b><br>1.406 | —                                                | —                                                                                                      | 220026-1                                                                         | <b>5225398-7</b>   |
|                                                       | Single Crimp        | Gold                         | Silver          | PTFE                   | MIL Type   | <b>32.13</b><br>1.265 | —                                                | —                                                                                                      | 69422                                                                            | <b>2-5330063-1</b> |
| 179, 179A,<br>179B, 161,<br>187, 187A,<br>BELDEN 9221 | O Crimp             | Gold                         | Nickel          | PTFE                   | MIL Type   | <b>35.71</b><br>1.406 | —                                                | 1424050-1                                                                                              | 220026-1                                                                         | <b>5225398-8</b>   |
|                                                       | Single Crimp        | Gold                         | Silver          | PTFE                   | MIL Type   | <b>32.13</b><br>1.265 | —                                                | 91910-1                                                                                                | 69408                                                                            | <b>2-5329458-1</b> |
| Times RD316                                           | O Crimp             | Gold                         | Nickel          | PTFE                   | MIL Type   | <b>35.71</b><br>1.406 | —                                                | 91904-1                                                                                                | 69669-2                                                                          | <b>1-5225398-5</b> |

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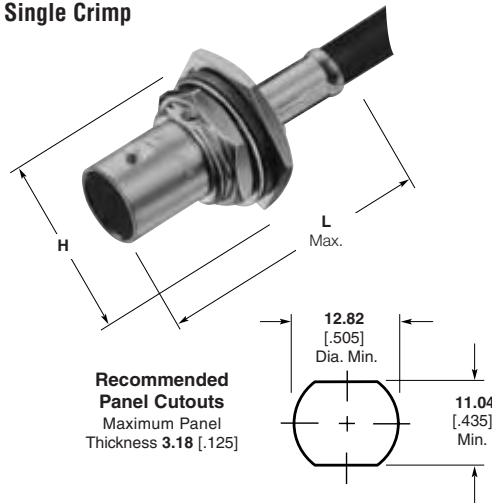
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 50 Ohm (Continued)

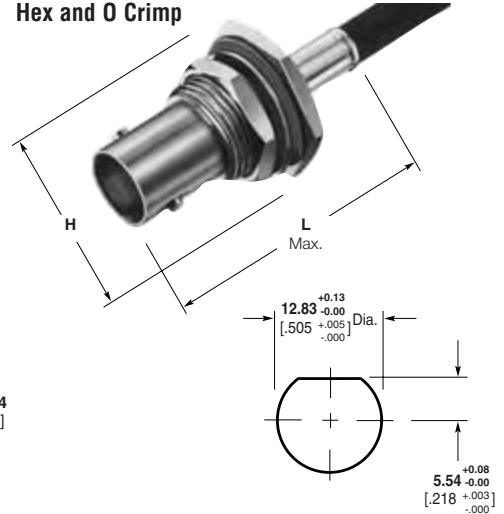
### Bulkhead Jacks, Crimp (Continued)

**Note:** Panel Insulating Bushings—  
at the bottom of this page

#### Single Crimp



#### Hex and O Crimp



H = 11/16" across flats, 20.32 [.800] Max. across points

| RG/U Cable                                                         | Termination Type | Center Contact Plating | Body Plating | Dielectric         | Style      | Dim. L         | CERTI-CRIMP Hand Tool with Integral Die | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.    |
|--------------------------------------------------------------------|------------------|------------------------|--------------|--------------------|------------|----------------|-----------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------|
| 58, 58A, 58B, 58C, BELDEN 88240, BERK-TEK BTDC-58, COMM/SCOPE 2135 | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | 36.83<br>1.450 | —                                       | 58436-1                                                                                 | —                                                                    | 5413771-1   |
| 58, 58A, 58B, 58C                                                  | O Crimp          | Gold                   | Nickel       | Polypropylene      | Commercial | 34.93<br>1.375 | 220187-1                                | 58435-11                                                                                | 220217-1                                                             | 5228980-5   |
|                                                                    | O Crimp          | Gold                   | Nickel       | PTFE               | MIL Type   | 41.28<br>1.625 | —                                       | 91901-1                                                                                 | 69727                                                                | 5225398-1   |
|                                                                    | Single Crimp     | Gold                   | Silver       | PTFE               | MIL Type   | 32.13<br>1.265 | —                                       | 91904-4                                                                                 | 69223-1                                                              | 2-5329456-1 |
| 223, 55, 55A, 55B                                                  | O Crimp          | Gold                   | Nickel       | PTFE               | MIL Type   | 35.71<br>1.406 | —                                       | 91901-1                                                                                 | 69727                                                                | 5225398-3   |
| 142, 142A, 142B, 400                                               | O Crimp          | Gold                   | Nickel       | PTFE               | MIL Type   | 35.71<br>1.406 | —                                       | 91901-1                                                                                 | 69727                                                                | 5225398-6   |
| 124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269 | O Crimp          | Gold                   | Nickel       | Polypropylene      | Commercial | 34.93<br>1.375 | 220187-2                                | 58435-11                                                                                | 220217-2                                                             | 5228980-6   |

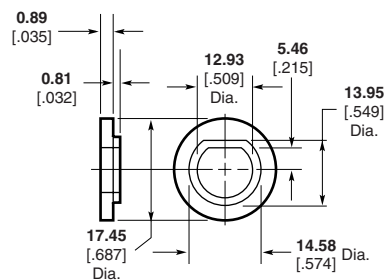
<sup>1</sup>Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.

### Panel Insulating Bushings for Bulkhead Jacks

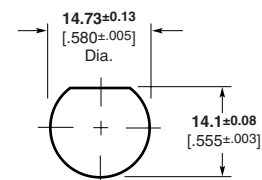
**Material** — Nylon

**Note:** Can not be used with single crimp bulkhead jacks.

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Part No. 330620 (2 Required)



Recommended Panel Cutout

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

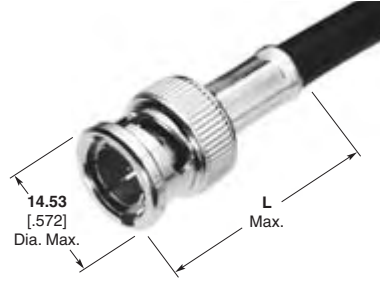
## BNC Connectors, 50 Ohm (Continued)

### Plugs, for JIS Cables, Crimp

#### Plating

Body — Nickel

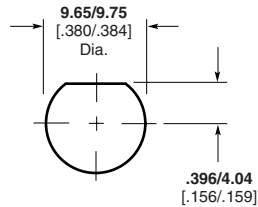
Center Contact — Gold



| JIS Cable | Termination Type | Dielectric   | Dim. L         | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Part No.    |
|-----------|------------------|--------------|----------------|-----------------------------------------------------------------------------------------|-------------|
| 3D-2V     | Hex Crimp        | Polyethylene | 33.53<br>1.320 | 58436-1                                                                                 | 3-5221128-1 |

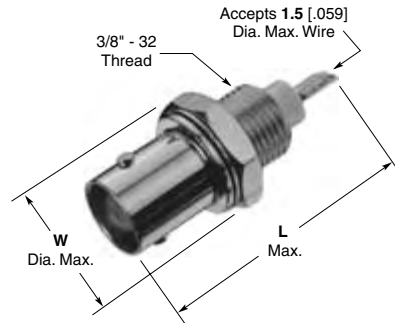
### Bulkhead Solder Jacks, Front Mount

Body Plating — Nickel

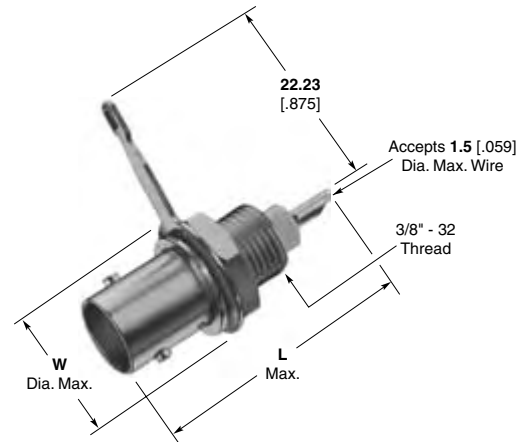


Recommended Panel Cutout

#### Without Solder Terminal



#### With Solder Terminal



| Contact Material | Dielectric | Dimensions     |               | Panel Thickness        | Insulating Bushing      | Part No.                 |                        |
|------------------|------------|----------------|---------------|------------------------|-------------------------|--------------------------|------------------------|
|                  |            | L              | W             |                        |                         | Without Solder Terminal* | With Solder Terminal** |
| Silver           | VALOX      | 26.93<br>1.060 | 13.09<br>.515 | 1.17-3.18<br>.046-.125 | 227223-1 or<br>221951-1 | 5227754-3                | 5227755-3              |
|                  |            | 33.33<br>1.312 | 13.09<br>.515 | 1.17-6.35<br>.046-.250 | 227223-1 or<br>221951-1 | —                        | 5227169-7              |
| Gold             | VALOX      | 26.93<br>1.060 | 13.09<br>.515 | 1.17-3.18<br>.046-.125 | 227223-1 or<br>221951-1 | 5227754-2                | 5227755-2              |
|                  |            | 33.33<br>1.312 | 13.09<br>.515 | 1.17-6.35<br>.046-.250 | 227223-1 or<br>221951-1 | 5227169-4                | 5227169-8              |
|                  | PTFE       | 26.93<br>1.060 | 13.09<br>.515 | 1.17-3.18<br>.046-.125 | 227223-1 or<br>221951-1 | 5227715-3                | 5227716-3              |
|                  |            | 33.33<br>1.312 | 13.09<br>.515 | 1.17-6.35<br>.046-.250 | 227223-1 or<br>221951-1 | —                        | 5227169-5              |
| Tin              | VALOX      | 26.93<br>1.060 | 13.09<br>.515 | 1.17-3.18<br>.046-.125 | 227223-1 or<br>221951-1 | 5227754-1                | 5227755-1              |

\*Includes lockwasher and jam nut.

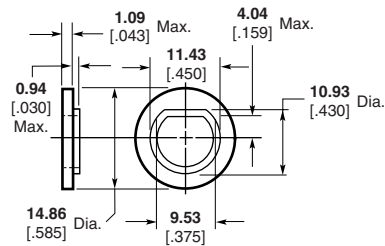
\*\*Includes solder terminal and jam nut.

VALOX is a trademark of General Electric Company.

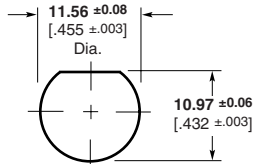
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 50 Ohm (Continued)

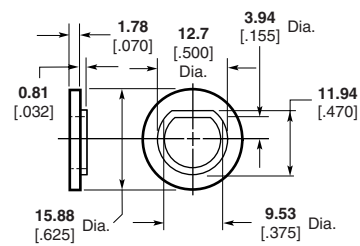
### Insulating Bushings



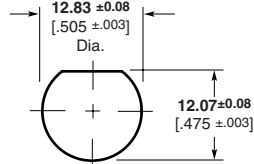
Part No. 227223-1



Recommended  
Panel Cutout



Part No. 221951-1



Recommended  
Panel Cutout

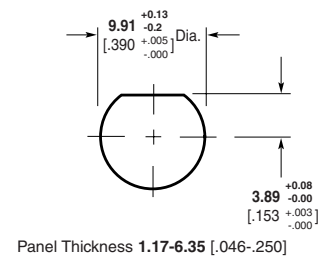
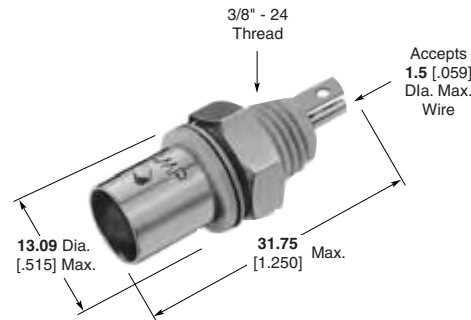
### Isolated Bulkhead Solder Jacks, Front Mount

#### Plating

Body — Nickel

Dielectric — White VALOX

| Center Contact Plating | Flange & Thread Material | Part No.  |
|------------------------|--------------------------|-----------|
| Tin                    | VALOX                    | 5227726-1 |
| Silver                 | VALOX                    | 5227726-2 |
| Gold                   | VALOX                    | 5227726-3 |



Recommended  
Panel Cutout

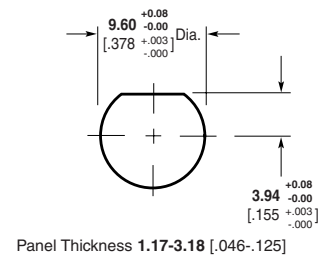
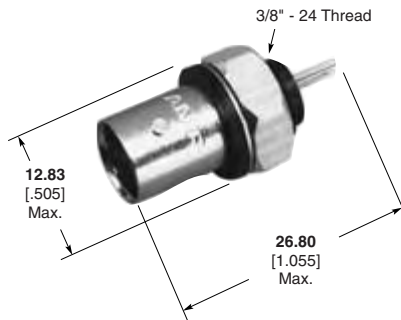
#### Plating

Body — Nickel

Center Contact — Silver

Dielectric — Black VALOX

Flange & Thread Material — Black VALOX



Recommended  
Panel Cutout

### Sealed Bulkhead Solder Jack, Rear Mount

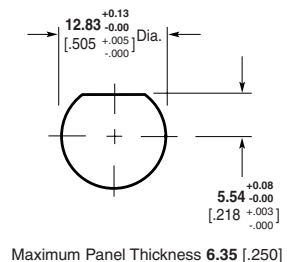
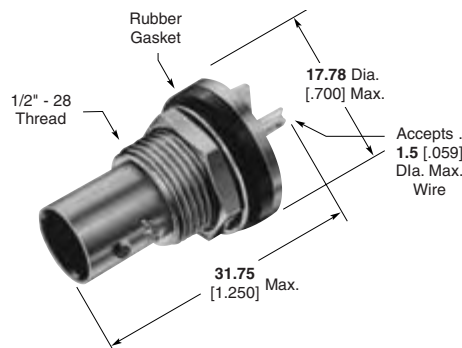
#### Plating

Body — Nickel

Center Contact — Gold

Dielectric — Polymethylpentene

This connector is designed to prevent moisture from entering the interface from the rear of the connector.



Recommended  
Panel Cutout

VALOX is a trademark of General Electric Company.

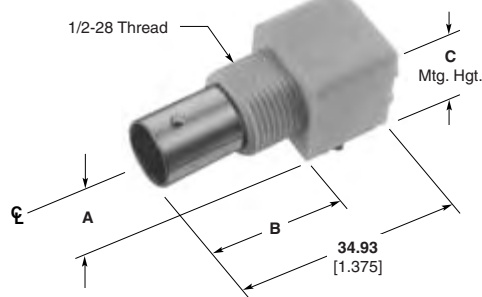
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 50 Ohm (Continued)

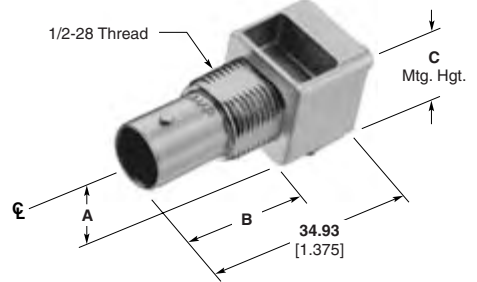
### Right-Angle Jacks PC Board/Panel Mount

**Body** — Nickel  
**Dielectric** — Polymethylpentene

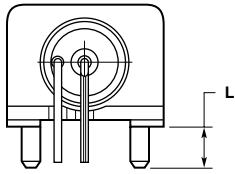
#### VALOX Body



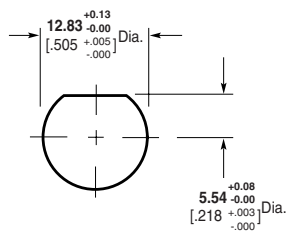
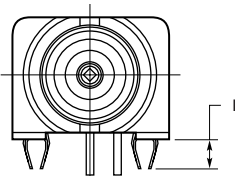
#### Metal Body



#### Mounting Post Style



#### Compliant Post



Maximum Panel Thickness 6.1 [240]

#### Recommended Panel Cutout

| Body Material      | Center Contact Plating | Dimensions   |               |               | Part No.               |                     |              |                      |
|--------------------|------------------------|--------------|---------------|---------------|------------------------|---------------------|--------------|----------------------|
|                    |                        | A            | B             | C             | Without Mounting Posts | With Mounting Posts | L            | With Compliant Posts |
| VALOX, White       | Tin                    | 8.59<br>.338 | 21.21<br>.835 | 15.88<br>.625 | 5226990-1              | 5227161-1           | 3.48<br>.137 | —                    |
|                    | Gold1                  | 8.59<br>.338 | 21.21<br>.835 | 15.88<br>.625 | 5226990-3              | 5227161-3           | 3.48<br>.137 | —                    |
|                    | Gold1                  | 6.91<br>.272 | 21.21<br>.835 | 13.18<br>.519 | —                      | 5227161-7           | 3.48<br>.137 | —                    |
| VALOX, Black       | Tin                    | 8.59<br>.338 | 21.21<br>.835 | 15.88<br>.625 | —                      | 5227161-2           | 3.48<br>.137 | —                    |
|                    | Gold1                  | 8.59<br>.338 | 21.21<br>.835 | 15.88<br>.625 | 5226990-6              | 5227161-6           | 3.48<br>.137 | —                    |
|                    | Gold1                  | 6.91<br>.272 | 21.21<br>.835 | 13.18<br>.519 | —                      | 5227161-9           | 3.48<br>.137 | —                    |
| Metal              | Gold1                  | 6.17<br>.243 | 21.21<br>.835 | 11.68<br>.460 | —                      | 5415046-1           | —            | —                    |
|                    | Tin                    | 8.26<br>.325 | 20.83<br>.820 | 15.88<br>.625 | —                      | 5227661-1           | 3.48<br>.137 | —                    |
|                    | Gold1                  | 8.26<br>.325 | 20.83<br>.820 | 15.88<br>.625 | 5227676-1              | 5227677-1           | 3.48<br>.137 | —                    |
|                    | Gold1                  | 6.91<br>.272 | 20.83<br>.820 | 12.70<br>.500 | 1274668-1              | 5413879-1           | 3.48<br>.137 | —                    |
| High Temp. Housing | Gold1                  | 6.91<br>.272 | 20.83<br>.820 | 12.70<br>.500 | —                      | 5413879-2           | 3.48<br>.137 | —                    |
|                    | Gold1                  | 6.91<br>.272 | 21.21<br>.835 | 13.18<br>.519 | —                      | —                   | 5415218-5    | 2.79<br>.110         |

#### Plating:

Gold1 — 0.00076 [0.00030] thick

Gold2 — 0.00127 [0.00050] thick

**Note:** If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

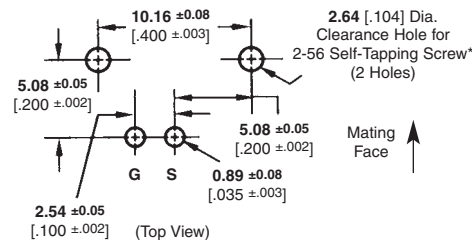
#### Lockwasher and Jam Nut



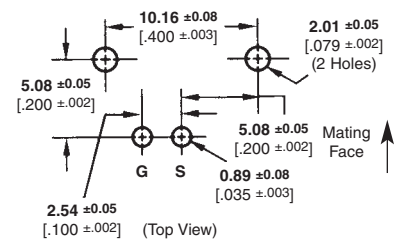
Part No.  
1-329632-2

Part No.  
1-329631-2

#### Without Mounting Posts



#### With Mounting Posts



#### Recommended PC Board Layouts

VALOX is a trademark of General Electric Company.

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

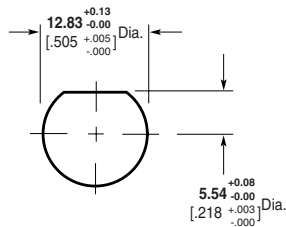
## BNC Connectors, 50 Ohm (Continued)

### Vertical Jacks PC Board/Panel Mount

#### Plating

**Body** — Nickel

**Dielectric** — Polymethylpentene



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

#### Recommended Panel Cutout

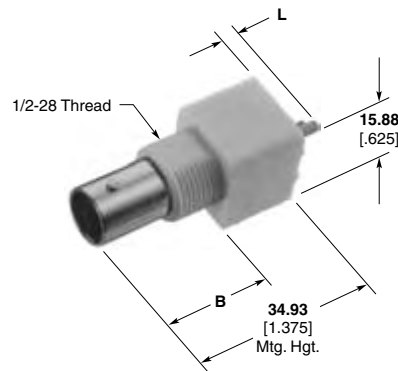
### Lockwasher and Jam Nut



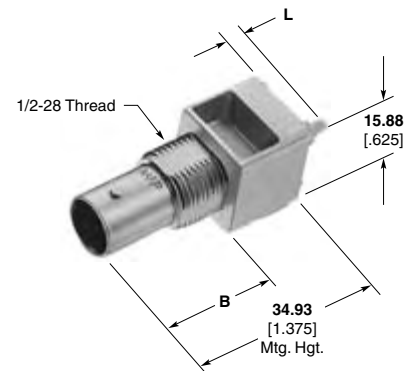
**Part No.**  
**1-329632-2**

**Part No.**  
**1-329631-2**

### VALOX Body



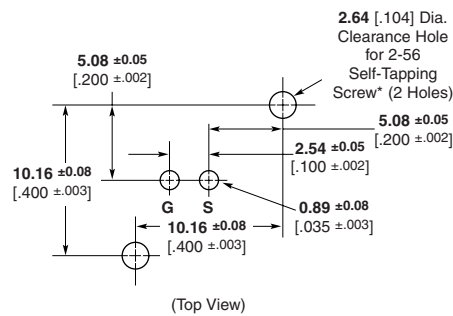
### Metal Body



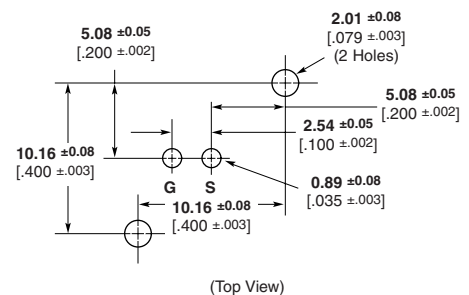
| Body Material | Center Contact Plating | Dim. B        | Dim. L       | Part No.               |                     |
|---------------|------------------------|---------------|--------------|------------------------|---------------------|
|               |                        |               |              | Without Mounting Posts | With Mounting Posts |
| VALOX, White  | Tin                    | 21.21<br>.835 | 3.48<br>.137 | 5226993-1              | 5227222-1           |
|               | Gold                   | 21.21<br>.835 | 3.48<br>.137 | 5226993-3              | 5227222-3           |
| VALOX, Black  | Tin                    | 21.21<br>.835 | 3.48<br>.137 | 5226993-2              | 5227222-2           |
|               | Gold                   | 21.21<br>.835 | 3.48<br>.137 | 5226993-6              | 5227222-6           |
| Metal         | Tin                    | 20.83<br>.820 | 3.48<br>.137 | —                      | 5227671-1           |
|               | Gold                   | 20.83<br>.820 | 3.48<br>.137 | —                      | 5227673-1           |

**Note:** If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

### Without Mounting Posts



### With Mounting Posts



#### Recommended PC Board Layouts

\* Screw for board thickness of **2.38** [.093] or greater **Part No. 221108-2**.  
Screw for thickness of less than **2.38** [.093] **Part No. 221108-4**.

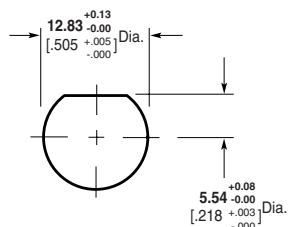
VALOX is a trademark of General Electric Company.

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



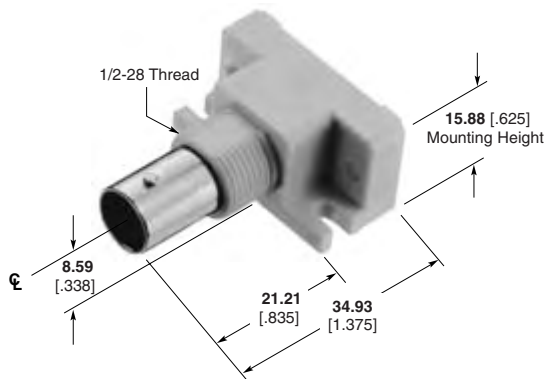
## BNC Connectors, 50 Ohm (Continued)

### Jacks with Mounting Flanges PC Board/Panel Mount



Maximum Panel Thickness 6.1 [.240]

Recommended Panel Cutout



| Body Material | Center Contact Plating | Part No.  |
|---------------|------------------------|-----------|
| VALOX, White  | Tin                    | 5226978-1 |
|               | Gold                   | 5226978-3 |

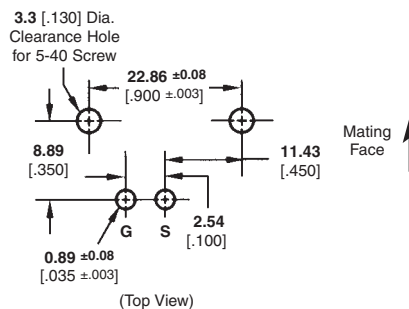
### Lockwasher and Jam Nut



Part No.  
1-329632-2



Part No.  
1-329631-2



Recommended PC Board Layout

VALOX is a trademark of General Electric Company.

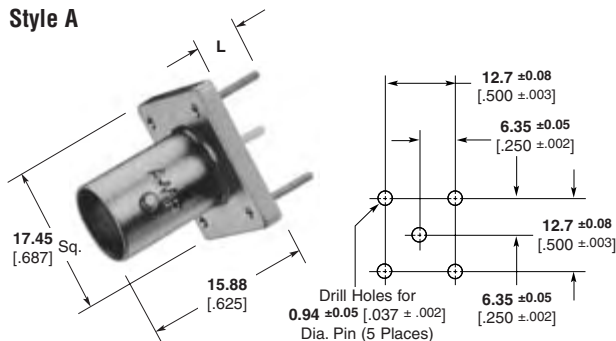
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 50 Ohm (Continued)

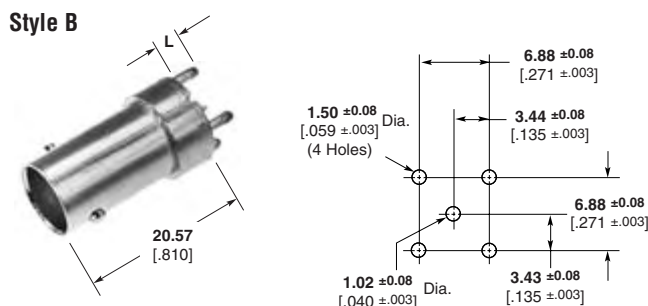
### Vertical Metalized Jacks PC Board Mount

#### Recommended PC Board Layouts

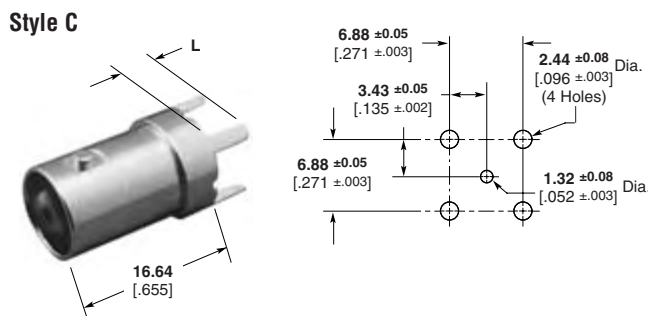
##### Style A



##### Style B



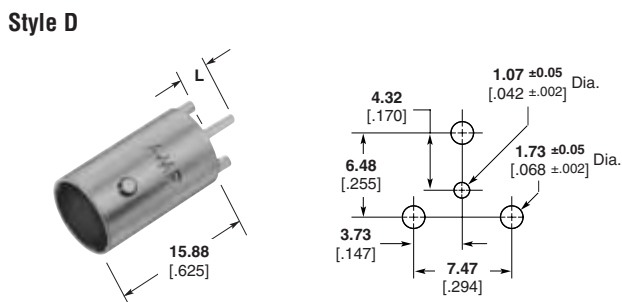
##### Style C



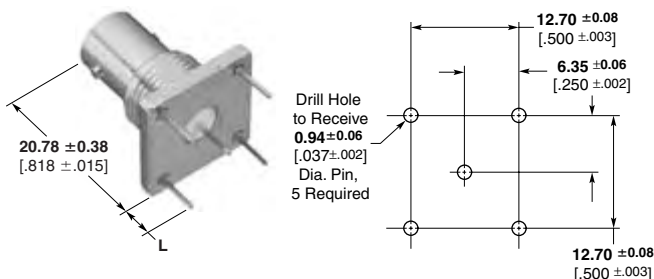
| Body Plating | Center Contact Plating | Dielectric | Style | Leg Length L | Part No.               |
|--------------|------------------------|------------|-------|--------------|------------------------|
| Nickel       | Silver                 | VALOX      | A     | 6.35<br>.250 | 5227699-1              |
|              | Gold                   | VALOX      | A     | 6.35<br>.250 | 5227699-2              |
|              | Tin                    | VALOX      | A     | 6.35<br>.250 | 5227699-3              |
|              | Gold                   | VALOX      | A     | 3.81<br>.150 | 5414460-1 <sup>1</sup> |
|              | Silver                 | VALOX      | C     | 4.45<br>.175 | 5222420-1              |
| Tin-Lead     | Gold                   | VALOX      | E     | 6.35<br>.250 | 5415189-1              |
|              | Gold                   | PTFE       | B     | 3.30<br>.130 | 5413969-2              |
|              | Silver                 | VALOX      | C     | 3.18<br>.125 | 5414305-1              |
|              | Gold                   | VALOX      | D     | 3.43<br>.135 | 5221123-2              |

<sup>1</sup>With .76 [.030] standoffs on top of legs.

##### Style D



##### Style E (Panel Mount)

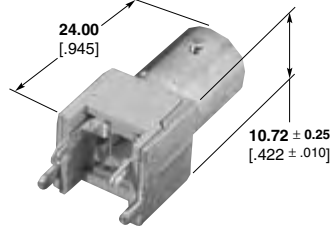


VALOX is a trademark of General Electric Company.

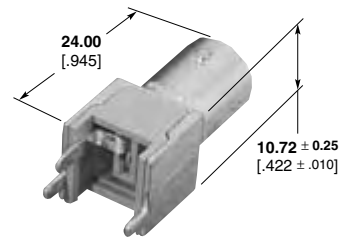
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 50 Ohm (Continued)

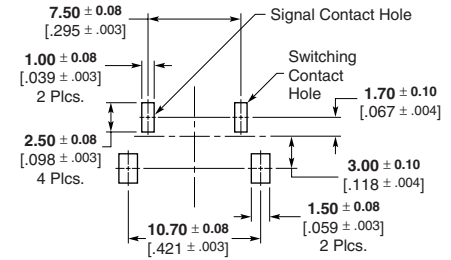
### Vertical Metalized Jacks, PC Board Mount



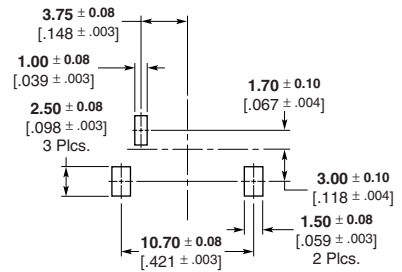
Part No. 1274314-1  
(Switching)



Part No. 1274315-1



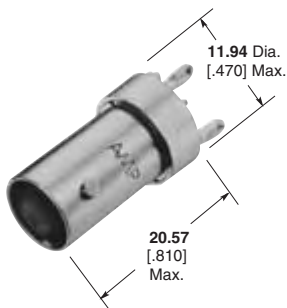
Recommended  
PC Board Layout



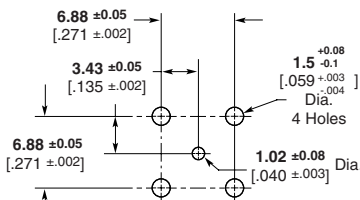
Recommended  
PC Board Layout

| Body Plating | Contact Plating | Dielectric    | Part No.  |
|--------------|-----------------|---------------|-----------|
| Tin          | Silver          | Polyphenylene | 6274314-1 |
| Tin          | Silver          | Polyphenylene | 6274315-1 |

### Press Fit Vertical Metalized Jack, PC Board Mount



Part No. 5222006-1

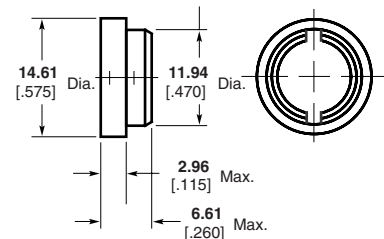


Recommended PC Board Layout  
PC Board Thickness Not Less Than 0.99 [0.093]

### Insulating Bushing

Material — Polypropylene  
Part No. 222163-1

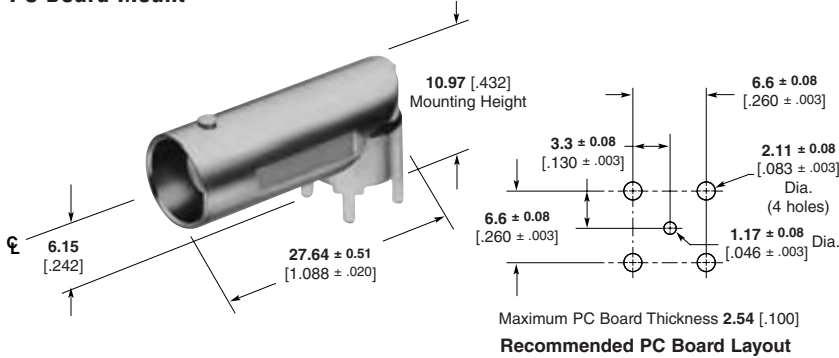
Only to be used on Part Nos. 5222006-1  
& 5222462-1



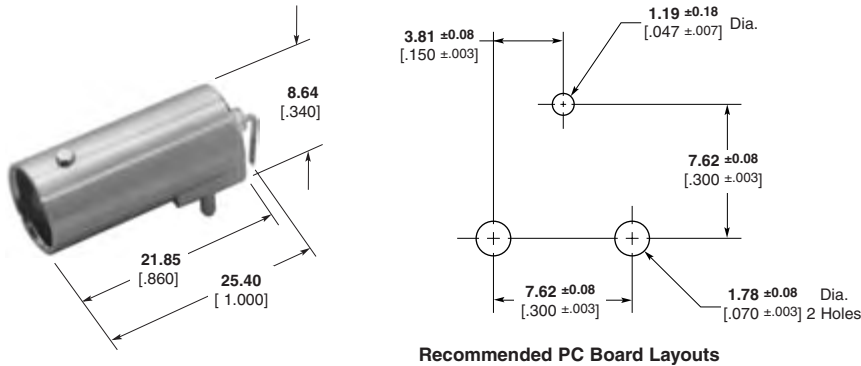
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 50 Ohm (Continued)

### Right-Angle Metalized Jacks, PC Board Mount

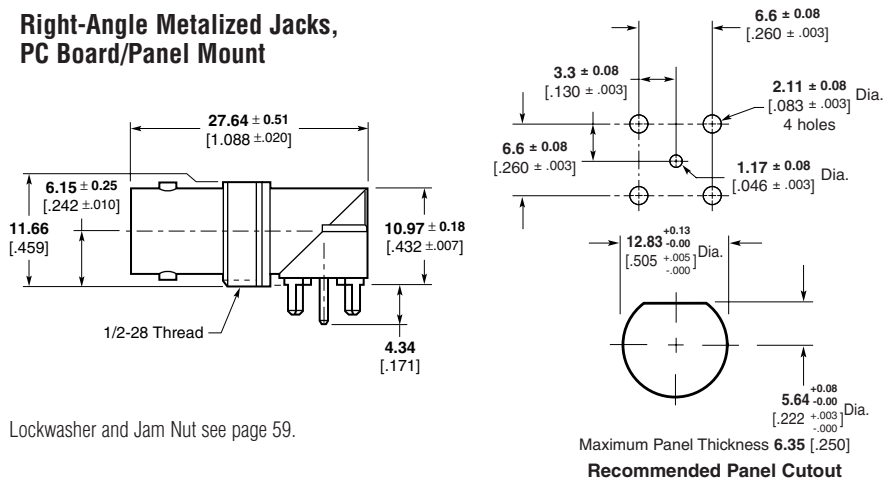


| Body Plating | Dielectric         | Center Contact Length | Part No.  |
|--------------|--------------------|-----------------------|-----------|
| Nickel       | Polymethyl-pentene | 4.34 .171             | 5413631-1 |
| Tin          | PTFE               | 4.34 .171             | 5413631-2 |
| Nickel       | Polymethyl-pentene | 3.33 .131             | 5413631-3 |



| Body   | Dielectric | Contact | Part No.  |
|--------|------------|---------|-----------|
| Nickel | TPX        | Gold    | 5414373-1 |

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



| Body Plating | Dielectric | Part No.  |
|--------------|------------|-----------|
| Tin          | PTFE       | 5415025-2 |
| Tin          | TPX        | 5415025-1 |

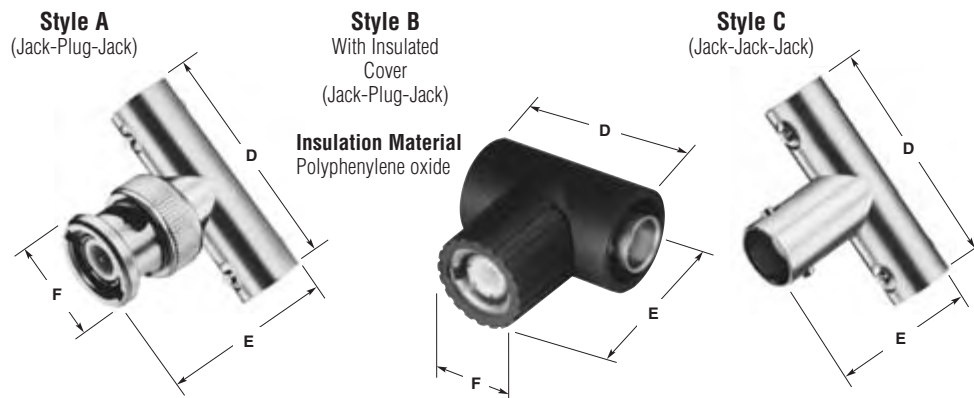
Lockwasher and Jam Nut see page 59.

TPX is a trademark of Mitsui Chemicals America, Inc.

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

## BNC Connectors, 50 Ohm (Continued)

### Tee Adapters



| Style | Body Material and Plating | Center Contact Material and Plating | Dielectric | Dimensions     |                |               | Comparable UG/U Connector | Packaging No. Per Pkg.      | Part No.               |
|-------|---------------------------|-------------------------------------|------------|----------------|----------------|---------------|---------------------------|-----------------------------|------------------------|
|       |                           |                                     |            | D              | E              | F             |                           |                             |                        |
| A     | Brass, Nickel             | BE CU, Gold (30) <sup>2</sup>       | PTFE       | 32.54<br>1.281 | 26.19<br>1.031 | 14.27<br>.562 | 274A                      | Bulk (100)                  | 221543-2               |
|       |                           | PH BR, Gold (15) <sup>2</sup>       | Acetal     | 33.02<br>1.300 | 27.31<br>1.075 | 14.50<br>.571 | —                         | Bulk (100)                  | 5413592-2              |
|       | Zinc, Nickel              | BE CU, Gold (30) <sup>2</sup>       | Acetal     | 33.02<br>1.300 | 27.31<br>1.075 | 14.50<br>.571 | —                         | Bulk (100)                  | 5413592-6              |
|       |                           | PH BR, Gold (15) <sup>2</sup>       | Acetal     | 33.02<br>1.300 | 27.31<br>1.075 | 14.50<br>.571 | —                         | Individual (1) <sup>3</sup> | 5413592-9              |
|       |                           | BE CU, Silver (200) <sup>2</sup>    | Acetal     | 33.02<br>1.300 | 27.31<br>1.075 | 14.50<br>.571 | —                         | Individual (1)              | 1-5413592-1            |
| B     | Zinc, Nickel              | BE CU, Gold (30) <sup>2</sup>       | Acetal     | 32.54<br>1.281 | 31.12<br>1.225 | 17.15<br>.675 | —                         | Bulk (100)                  | 5413366-2 <sup>1</sup> |
| C     | Brass, Nickel             | BE CU, Silver (200) <sup>2</sup>    | PTFE       | 32.54<br>1.281 | 23.37<br>.920  | —             | —                         | Bulk (100)                  | 221988-1               |
|       | Zinc, Nickel              | PH BR, Gold (50) <sup>2</sup>       | Acetal     | 32.54<br>1.281 | 23.62<br>.930  | —             | —                         | Bulk (100)                  | 5414311-1              |

<sup>1</sup>Gray insulation cover

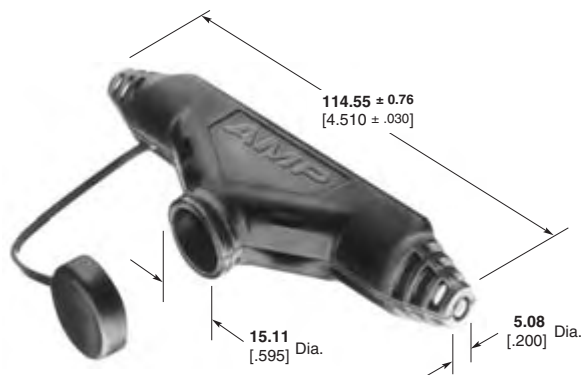
<sup>2</sup>(Microinches min thickness)

<sup>3</sup>(Special graphics)

### Tee Adapter Covers

**Material** — Polypropylene, general purpose

| Color | Part No. |
|-------|----------|
| Black | 221586-1 |
| Ivory | 221586-3 |

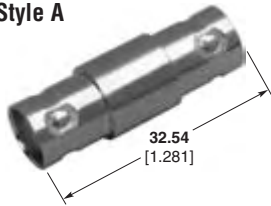


**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 50 Ohm (Continued)

### Jack-Jack Adapters

#### Style A

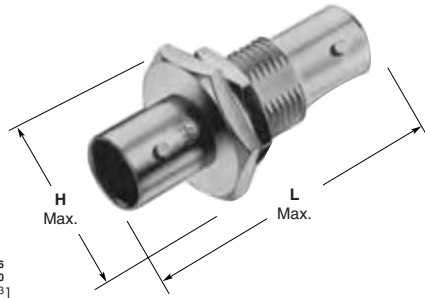
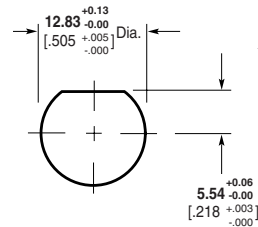


#### Style B



| Body Plating | Center Contact Plating | Dielectric        | Style | Part No.  |
|--------------|------------------------|-------------------|-------|-----------|
| Nickel       | Silver                 | PTFE              | A     | 221551-1  |
| Nickel       | Gold                   | PTFE              | A     | 221551-3  |
| Nickel       | Gold                   | Polymethylpentene | B     | 5414414-1 |

### Bulkhead Jack-Jack Adapters



| Body Plating | Center Contact Plating | Dimensions    |                | Dielectric   | Part No.  |
|--------------|------------------------|---------------|----------------|--------------|-----------|
|              |                        | H             | L              |              |           |
| Nickel       | Silver                 | 17.45<br>.687 | 38.10<br>1.500 | PTFE         | 330024    |
| Nickel       | Gold1                  | 17.78<br>.700 | 36.07<br>1.420 | Polyethylene | 5228226-1 |
| Nickel       | Gold2                  | 17.78<br>.700 | 36.07<br>1.420 | Polyethylene | 5228226-3 |

#### Plating:

Gold1—0.00127 [.000050] thick Gold2—0.00076 [.000015] thick

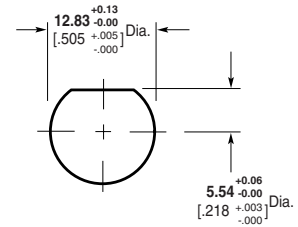
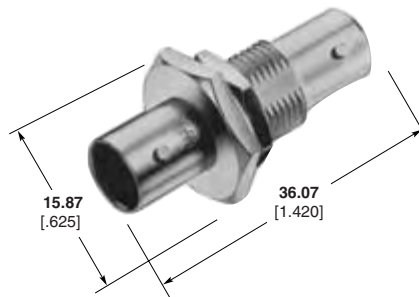
**Note:** If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

#### Recommended Panel Cutout

H= 11/16 across flats, 20.32 [.800] across points.

### Isolated Bulkhead Jack-Jack Adapter

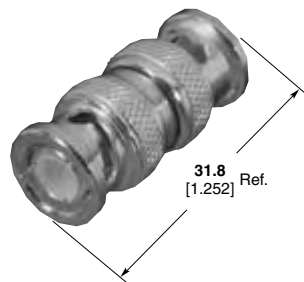
| Body Plating | Center Contact Plating | Dielectric        | Part No.  |
|--------------|------------------------|-------------------|-----------|
| Nickel       | Gold                   | Polymethylpentene | 5414105-1 |



#### Recommended Panel Cutout

H= 11/16 across flats, 20.32 [.800] across points.

### Plug-Plug Adapter

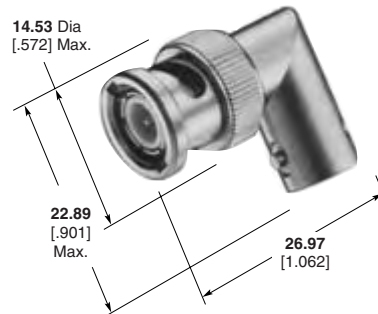


| Contact Plating | Body Plating | Part No. |
|-----------------|--------------|----------|
| Gold            | Nickel       | 415796-1 |

### Right-Angle Adapters

(Jack-Plug)

| Body Plating | Center Contact Plating | Dielectric        | Part No.  |
|--------------|------------------------|-------------------|-----------|
| Nickel       | Silver                 | PTFE              | 5329517   |
| Nickel       | Gold                   | PTFE              | 5222165-2 |
| Nickel       | Gold                   | Polymethylpentene | 5414666-1 |



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

## BNC Connectors, 50 Ohm (Continued)

### Terminator Plugs 50, 75, 93 Ohm

#### Plating

**Body** — Nickel  
**Center Contact** — Gold  
**Dielectric** — Polyethylene



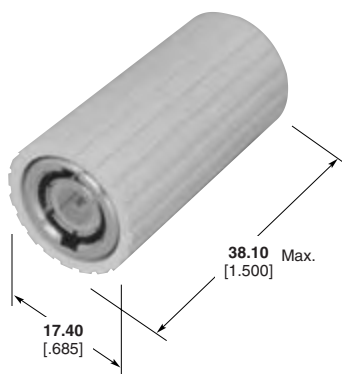
| Resistor Specification | Part No.                 |                |
|------------------------|--------------------------|----------------|
|                        | With Tether              | Without Tether |
| 1 Watt, 50 Ohm         | 5221629-1                | 5221629-4      |
| 1 Watt, 75 Ohm         | 5221629-2                | 5221629-5      |
| 1 Watt, 93 Ohm         | —                        | 5221629-6      |
| 0.5 Watt, 75 Ohm       | —                        | —              |
| 1 Watt, 50 Ohm         | 1-5221629-6 <sup>1</sup> | —              |

<sup>1</sup> Tether is conductive with #4 stud size

### Insulated Terminators

**Insulation Material**  
Polyphenylene oxide

#### Long Cover

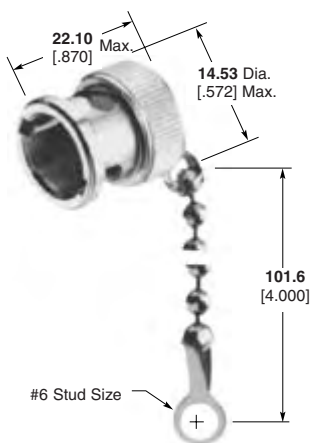


| Register Specification | Color | Cover Style | Part No.  |
|------------------------|-------|-------------|-----------|
| 1 Watt, 50 Ohm         | Gray  | Long        | 5413557-1 |
|                        |       | Short       | 5413364-2 |
|                        | Black | Long        | 5413557-2 |

\* The Short Cover is required when mating the Terminator with a Tee Adapter.

### Jack Covers

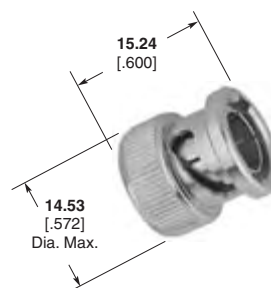
| Body Plating | Part No.   |
|--------------|------------|
| Silver       | 330022     |
| Nickel       | 1-330022-2 |



### Shorting Caps

#### Plating

**Body** — Nickel  
**Center Contact** — Gold



**Part No. 413453-1**

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

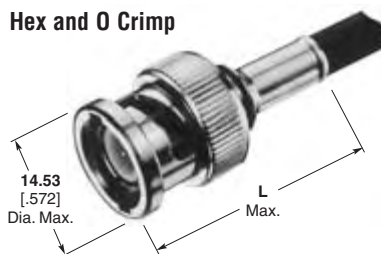


## BNC Connectors, 75 Ohm

### Plugs, Crimp

These connectors have been designed for optimum performance and have a true 75 ohm impedance the complete length of the connector. The crimp die tooling listed below is different from the equivalent 50 ohm connectors.

### Hex and O Crimp



### Plugs

| RG/U Cable                                                                                  | Termination Type | Center Contact Plating | Body Plating | Dielectric   | Style      | Dim. L         | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.    |
|---------------------------------------------------------------------------------------------|------------------|------------------------|--------------|--------------|------------|----------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------|
| 179, 179A, 179B, 187, 187A, 161, BELDEN 9221                                                | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | 29.46<br>1.160 | 58425-2                                                                                 | —                                                                    | 5413589-8   |
|                                                                                             | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 35.56<br>1.140 | 318451-2                                                                                | —                                                                    | 5221185-8   |
| AT&T 735A                                                                                   | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | 29.46<br>1.160 | 58425-2                                                                                 | —                                                                    | 1-5413589-0 |
|                                                                                             | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 27.69<br>1.090 | 58174-1                                                                                 | 58248-3                                                              | 1-5221185-8 |
| BELDEN 8218                                                                                 | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | 29.46<br>1.160 | 58425-2                                                                                 | —                                                                    | 5413589-3   |
|                                                                                             | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 27.69<br>1.090 | 58174-1                                                                                 | 58248-3                                                              | 5221185-3   |
| 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269                               | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | 29.46<br>1.160 | 58425-1                                                                                 | —                                                                    | 5413589-2   |
|                                                                                             | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 27.69<br>1.090 | 58536-1                                                                                 | 58248-2                                                              | 5221185-2   |
| 302, BELDEN 89269, 88241, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-62               | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | 29.46<br>1.160 | 58425-1                                                                                 | —                                                                    | 5413589-1   |
| BELDEN 8212, 9104, 9112, 9167, 9240, 9259, 9266, Times FM-59, (RG 59 Type with 20 AWG C.C.) | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | 29.46<br>1.160 | 58425-1                                                                                 | —                                                                    | 5413589-9   |
|                                                                                             | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 27.69<br>1.090 | 58536-1                                                                                 | 58248-2                                                              | 5221185-9   |
| BELDEN 9145, AT&T 734A                                                                      | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | 29.46<br>1.160 | 58425-1                                                                                 | —                                                                    | 5413589-7   |
|                                                                                             | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 27.69<br>1.090 | 58536-1                                                                                 | —                                                                    | 1-5221185-0 |
| BELDEN 9248, 9114                                                                           | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 25.65<br>1.010 | 58536-1                                                                                 | —                                                                    | 5221185-1   |
| 6, 6A                                                                                       | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 37.85<br>1.490 | 58538-1                                                                                 | 58248-1                                                              | 5221185-7   |
| BELDEN 8281, 9141, 9231, Western Electric 724, 728, 3049                                    | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | 29.46<br>1.160 | 58425-3                                                                                 | —                                                                    | 5413589-5   |
|                                                                                             | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 28.45<br>1.120 | 58538-1                                                                                 | 58248-1                                                              | 5221185-5   |
| COMM/SCOPE S59 Hec                                                                          | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 28.96<br>1.140 | 58536-1                                                                                 | —                                                                    | 2-5221185-9 |
| COMM/SCOPE F59 Hec-z                                                                        | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | 28.96<br>1.140 | 58536-1                                                                                 | —                                                                    | 3-5221185-1 |

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COMM/SCOPE is a trademark of Commscope, Inc.

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

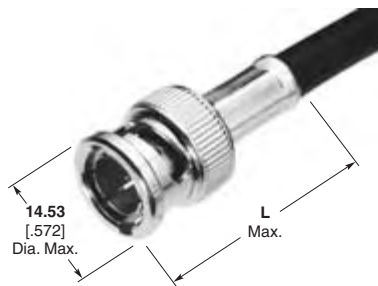
## BNC Connectors, 75 Ohm (Continued)

### Plugs for JIS Cables, Crimp

#### Plating

**Body** — Nickel

**Center Contact** — Gold



| JIS Cable | Termination Type | Dielectric        | Dim.<br>L      | Interchangeable Dies<br>for PRO-CRIMPER<br>Hand Tool 354940-1<br>or<br>PRO-CRIMPER<br>Adapter 679304-1 | Part No.    |
|-----------|------------------|-------------------|----------------|--------------------------------------------------------------------------------------------------------|-------------|
| 3C-2V     | Hex Crimp        | Polymethylpentene | 29.46<br>1.160 | 58425-1                                                                                                | 1-5413589-1 |
| 2.5C-2V   | Hex Crimp        | Polymethylpentene | 29.46<br>1.160 | 58425-2                                                                                                | 1-5413589-6 |

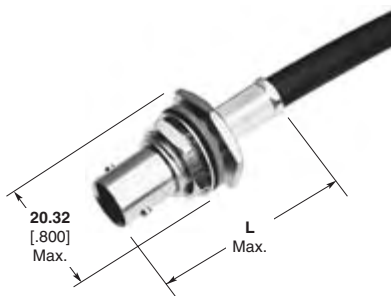
### Bulkhead Jacks for JIS Cables, Crimp

#### Plating

**Body** — Nickel

**Center Contact** — Gold

**Dielectric** — Polymethylpentene



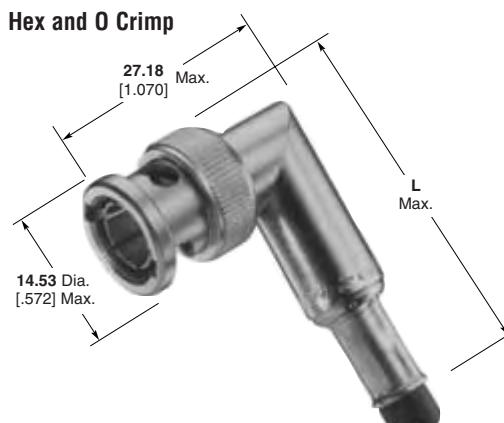
| JIS Cable | Termination Type | Dielectric | Dim.<br>L      | Interchangeable Dies<br>for PRO-CRIMPER<br>Hand Tool 354940-1<br>or<br>PRO-CRIMPER<br>Adapter 679304-1 | Part No.   |
|-----------|------------------|------------|----------------|--------------------------------------------------------------------------------------------------------|------------|
| 1.5C-2V   | Hex Crimp        | 75Ω        | 36.83<br>1.450 | 58425-2                                                                                                | 5413590-4* |

\*Packaged in 100 pieces per bag.

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

## BNC Connectors, 75 Ohm (Continued)

### Right-Angle Plugs, Crimp



| RG/U Cable                                                                                  | Termination Type | Center Contact Plating | Body Plating | Dielectric         | Style      | Dim. L                | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.           |
|---------------------------------------------------------------------------------------------|------------------|------------------------|--------------|--------------------|------------|-----------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|--------------------|
| 179, 179A, 179B, 187, 187A, 161 BELDEN 9221                                                 | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | <b>39.45</b><br>1.553 | 58425-2                                                                                 | —                                                                    | <b>5413588-8</b>   |
| AT&T 735A                                                                                   | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | <b>39.45</b><br>1.553 | 58425-2                                                                                 | —                                                                    | <b>1-5413588-0</b> |
| AT&T KS 19224 L2, RD179 Double Braid                                                        | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | <b>39.45</b><br>1.553 | 58425-2                                                                                 | —                                                                    | <b>5413588-4</b>   |
| 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269                               | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | <b>39.45</b><br>1.553 | 58425-1                                                                                 | —                                                                    | <b>5413588-2</b>   |
|                                                                                             | O Crimp          | Gold                   | Nickel       | Polymethyl-pentene | Commercial | <b>39.88</b><br>1.570 | 58536-1                                                                                 | 58248-2                                                              | <b>5221402-2</b>   |
| BELDEN 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG 59 Type with 20 AWG C.C.) | Hex Crimp        | Gold                   | Nickel       | Polymethyl-pentene | Commercial | <b>39.45</b><br>1.553 | 58425-1                                                                                 | —                                                                    | <b>5413588-9</b>   |
| BELDEN 9145, AT&T 734A                                                                      | O Crimp          | Gold                   | Nickel       | Polymethyl-pentene | Commercial | <b>39.88</b><br>1.570 | 58536-1                                                                                 | —                                                                    | <b>5221402-4</b>   |

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

## BNC Connectors, 75 Ohm (Continued)

### Jacks, Crimp

### Hex and O Crimp



| RG/U Cable                                                                                  | Termination Type | Center Contact Plating | Body Plating | Dielectric   | Style      | Dim. L                | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.         |
|---------------------------------------------------------------------------------------------|------------------|------------------------|--------------|--------------|------------|-----------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------|
| 179, 179A, 179B, 161, 187, 187A, BELDEN 9221                                                | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | <b>33.02</b><br>1.300 | 58425-2                                                                                 | —                                                                    | <b>5413760-8</b> |
|                                                                                             | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | <b>30.48</b><br>1.200 | 318451-2                                                                                | —                                                                    | <b>5221199-5</b> |
| BELDEN 8218                                                                                 | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | <b>33.02</b><br>1.300 | 58425-2                                                                                 | —                                                                    | <b>5413760-3</b> |
| 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269                               | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | <b>30.48</b><br>1.200 | 58536-1                                                                                 | 58248-2                                                              | <b>5221199-2</b> |
| 302, BELDEN 88241, 89269, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-62               | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | <b>33.02</b><br>1.300 | 58425-1                                                                                 | —                                                                    | <b>5413760-1</b> |
| BELDEN 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG 59 Type with 20 AWG C.C.) | Hex Crimp        | Gold                   | Nickel       | Polyethylene | Commercial | <b>33.02</b><br>1.300 | 58425-1                                                                                 | —                                                                    | <b>5413760-9</b> |
| BELDEN 9248, 9114                                                                           | O Crimp          | Gold                   | Nickel       | Polyethylene | Commercial | <b>30.48</b><br>1.200 | 58536-1                                                                                 | —                                                                    | <b>5221199-1</b> |

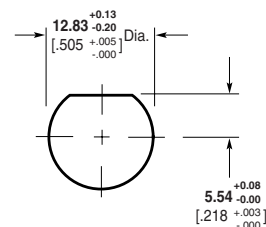
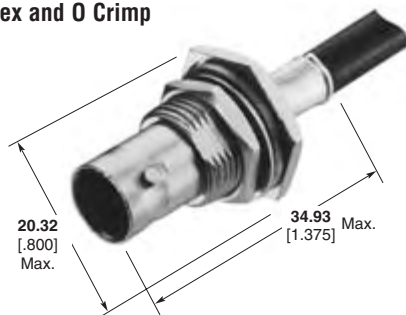
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**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 75 Ohm (Continued)

### Bulkhead Jacks, Crimp

### Hex and O Crimp



Maximum Panel Thickness 6.1 [.240]

**Recommended Panel Cutout**

| RG/U Cable                                                                                 | Termination Type | Center Contact Plating | Body Plating | Dielectric   | Style      | Dim. L                | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1 | Part No.         |
|--------------------------------------------------------------------------------------------|------------------|------------------------|--------------|--------------|------------|-----------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------|
| 179, 179A, 179B, 161, 187, 187A, BELDEN 9221                                               | Hex Crimp        | Gold                   | Nickel       | Polyethelene | Commercial | <b>36.83</b><br>1.450 | 58425-2                                                                                 | —                                                                    | <b>5413590-8</b> |
|                                                                                            | O Crimp          | Gold                   | Nickel       | Polyethelene | Commercial | <b>34.93</b><br>1.375 | 318451-2                                                                                | —                                                                    | <b>5221221-5</b> |
| AT&T KS 19224 L2, RD179 Double Braid                                                       | Hex Crimp        | Gold                   | Nickel       | Polyethelene | Commercial | <b>36.83</b><br>1.450 | 58425-2                                                                                 | —                                                                    | <b>5413590-4</b> |
| BELDEN 8218                                                                                | Hex Crimp        | Gold                   | Nickel       | Polyethelene | Commercial | <b>36.83</b><br>1.450 | 58425-2                                                                                 | —                                                                    | <b>5413590-3</b> |
| 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269                              | O Crimp          | Gold                   | Nickel       | Polyethelene | Commercial | <b>34.93</b><br>1.375 | 58536-1                                                                                 | 58248-2                                                              | <b>5221221-2</b> |
| BELDEN 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59 (RG 59 Type with 20 AWG C.C.) | O Crimp          | Gold                   | Nickel       | Polyethelene | Commercial | <b>34.93</b><br>1.375 | 58536-1                                                                                 | 58248-2                                                              | <b>5221221-7</b> |
| BELDEN 9114, 9248                                                                          | O Crimp          | Gold                   | Nickel       | Polyethelene | Commercial | <b>34.93</b><br>1.375 | 58536-1                                                                                 | —                                                                    | <b>5221221-1</b> |

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

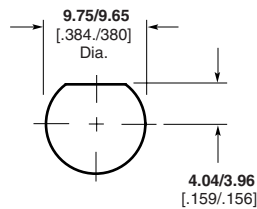
## BNC Connectors, 75 Ohm (Continued)

### Bulkhead Solder Jacks Front Mount

#### Plating

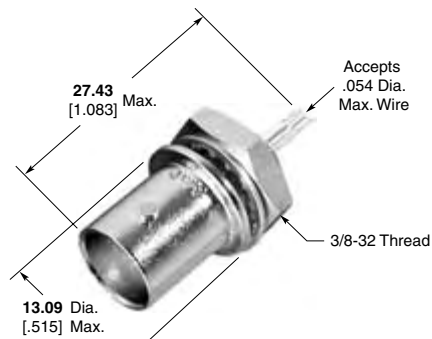
Body — Nickel

Center Contact — Silver



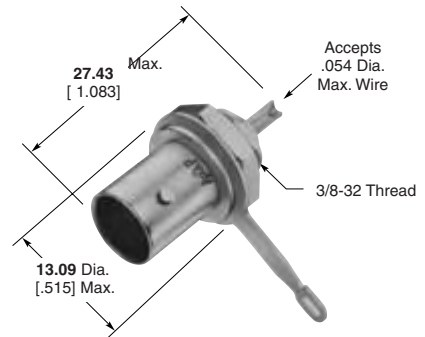
Maximum Panel Thickness 3.18 [.125]

#### Recommended Panel Cutout



**Part No. 5415187-1**  
(without Solder Terminal)

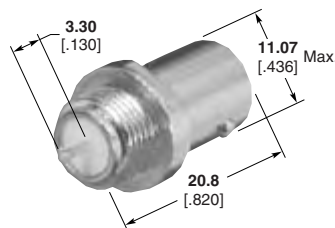
**Note:** If insulating bushing required use part no. 227223-1 or 221951-1 (for details, reference page 55).



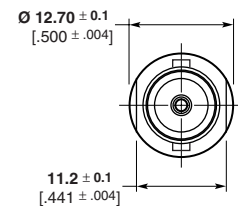
**Part No. 5221244-1**  
(with Solder Terminal)

**Note:** If insulating bushing required use part no. 227223-1 or 221951-1 (for details, reference page 55).

### Bulkhead Jack PC Board Mount



**Part No. 6274086-1**



### Bulkhead Solder Jack Rear Mount

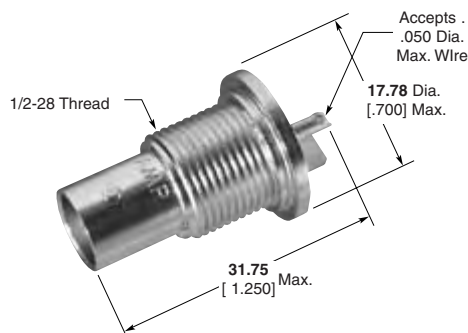
Lockwasher and Jam Nut see page 73.

#### Plating

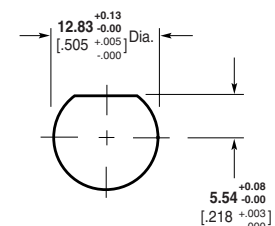
Body — Nickel

Center Contact — Gold

Dielectric — Polymethylpentene



**Part No. 5414217-1**



Maximum Panel Thickness 6.35 [.250]

#### Recommended Panel Cutout

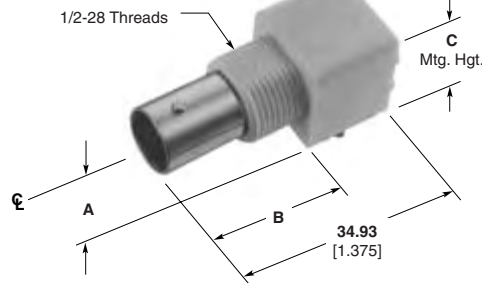
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 75 Ohm (Continued)

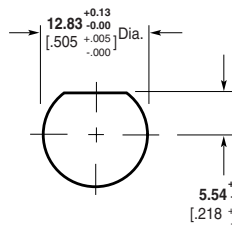
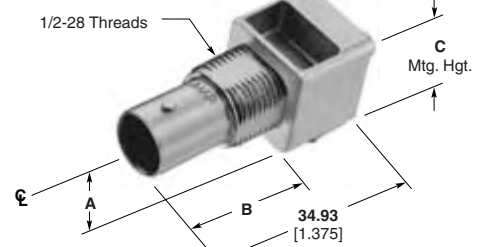
### Right-Angle Jacks PC Board/Panel Mount

**Outer Shell** — Nickel  
**Dielectric** — Polymethylpentene  
 Lockwasher and Jam Nut see page 73.

#### VALOX Body

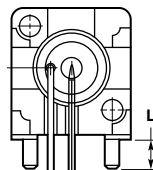


#### Metal Body



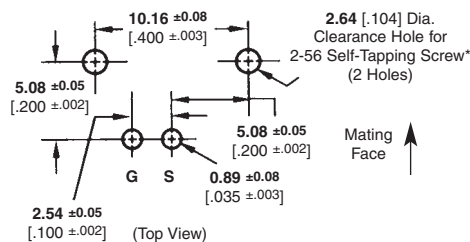
Maximum Panel Thickness 6.1 [2.40]

#### Recommended Panel Cutout

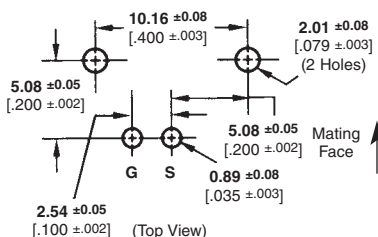


### Recommended PC Board Layouts

#### Without Mounting Posts



#### With Mounting Posts



\* Screw for panel thickness of 2.38 [3/32] or greater  
**Part No. 221108-2.**  
 Screw for panel thickness of less than 2.38 [3/32]  
**Part No. 221108-4.**

| Body Material                              | Center Contact Plating | Dimensions   |               |               |              | Part No.               |                     |
|--------------------------------------------|------------------------|--------------|---------------|---------------|--------------|------------------------|---------------------|
|                                            |                        | A            | B             | C             | L            | Without Mounting Posts | With Mounting Posts |
| VALOX, Black w/ Compliant Posts (Economy)* | Gold3                  | 6.17<br>.243 | 21.21<br>.835 | 11.68<br>.460 | 2.79<br>.110 | —                      | 5415105-2           |
| VALOX, Black (Economy)*                    | Gold3                  | 6.17<br>.243 | 21.21<br>.835 | 11.68<br>.460 | 4.01<br>.158 | —                      | 5415105-1           |
| VALOX, White                               | Gold1                  | 6.91<br>.272 | 21.21<br>.835 | 13.88<br>.519 | 3.48<br>.137 | —                      | 5413194-1           |
| VALOX, White (Economy)*                    | Gold1                  | 6.91<br>.272 | 21.21<br>.835 | 13.88<br>.519 | 3.48<br>.137 | —                      | 5415634-2           |
| VALOX, Black                               | Gold1                  | 6.91<br>.272 | 21.21<br>.835 | 13.88<br>.519 | 3.48<br>.137 | —                      | 5413194-2           |
| VALOX, Black (Economy)*                    | Gold1                  | 6.91<br>.272 | 21.21<br>.835 | 13.88<br>.519 | 3.48<br>.137 | —                      | 5415634-1           |
| VALOX, Black (Economy)*                    | Gold1                  | 8.59<br>.338 | 21.21<br>.835 | 15.88<br>.625 | 3.48<br>.137 | —                      | 5415633-1           |
| VALOX, White                               | Gold2                  | 8.59<br>.338 | 21.21<br>.835 | 15.88<br>.625 | 3.48<br>.137 | —                      | 5414459-1           |
| Metal                                      | Gold1                  | 8.25<br>.325 | 20.83<br>.820 | 15.88<br>.625 | 2.16<br>.085 | —                      | 5222092-1           |
| Metal                                      | Gold1                  | 8.25<br>.325 | 20.83<br>.820 | 15.88<br>.625 | —            | 5222093-1              | —                   |
| Metal (Economy)*                           | Gold1                  | 8.25<br>.325 | 20.83<br>.820 | 15.88<br>.625 | 3.48<br>.137 | —                      | 5414409-1           |
| Metal with Compliant Posts (Economy)*      | Gold1                  | 6.91<br>.272 | 20.83<br>.820 | 12.70<br>.500 | 3.48<br>.137 | —                      | 5415417-1           |
| Metal with Compliant Posts (Economy)*      | Tin                    | 8.56<br>.337 | 21.21<br>.835 | 15.88<br>.625 | 3.48<br>.137 | —                      | 5415419-1           |
| Metal                                      | Gold1                  | 8.25<br>.325 | 20.83<br>.820 | 15.88<br>.625 | 3.48<br>.137 | —                      | 5222092-3           |
| Metal                                      | Gold1                  | 6.91<br>.272 | 20.83<br>.820 | 12.70<br>.500 | 3.48<br>.137 | —                      | 5414907-1           |
| Metal                                      | Gold1                  | 6.91<br>.272 | 20.83<br>.820 | 12.70<br>.500 | —            | 6274072-1              | —                   |
| Metal (Economy)*                           | Gold1                  | 6.91<br>.272 | 20.83<br>.820 | 12.70<br>.500 | 3.48<br>.137 | —                      | 6274084-1           |

\*Economy connector uses 50 Ω part with smaller dielectric and stamped and formed contact, Phosphor Bronze contact material (Compare to regular connector which is 75 Ω, screw machined Beryllium Copper).

#### Plating:

Gold1 — 0.00076 [0.00030] thick  
 Gold2 — 0.00127 [0.00050] thick

**Note:** If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

VALOX is a trademark of General Electric Company.

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



## BNC Connectors, 75 Ohm (Continued)

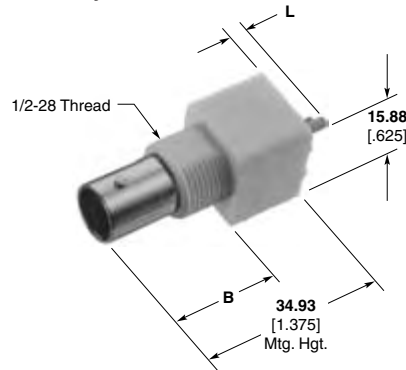
### Vertical Jacks PC Board/Panel Mount

#### Plating

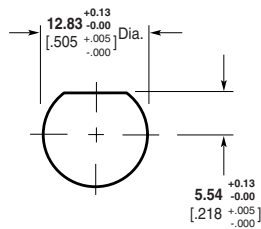
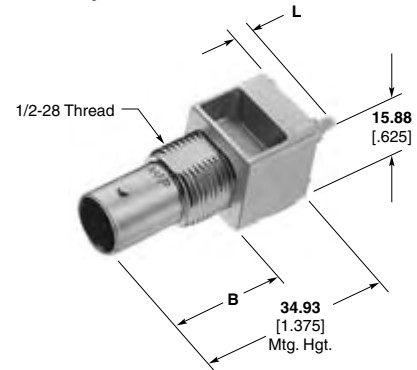
**Outer Shell**—Nickel

**Dielectric**—Polymethylpentene

#### VALOX Body



#### Metal Body



Maximum Panel Thickness 6.1 [.240]

#### Recommended Panel Cutout

| Body Material           | Contact Plating | Dim. B     | Dim. L    | Part No.  |
|-------------------------|-----------------|------------|-----------|-----------|
| VALOX, Black (Economy)* | Gold1           | 21.21 .835 | 3.48 .137 | 5415632-1 |
| VALOX, White (Economy)* | Gold1           | 21.21 .835 | 3.48 .137 | 5415632-2 |
| Metal                   | Gold1           | 20.83 .820 | 3.48 .137 | 5222132-1 |
| Metal (Economy)*        | Tin             | 21.21 .835 | 3.48 .137 | 5415520-1 |

\*Economy connector uses 50  $\Omega$  part with smaller dielectric and stamped and formed contact, Phosphor Bronze contact material (Compare to regular connector which is 75  $\Omega$ , screw machined Beryllium Copper).

#### Plating:

Gold1—0.00076 [.000030] thick

**Note:** If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

#### Lockwasher and Jam Nut



Part No.  
1-329632-2



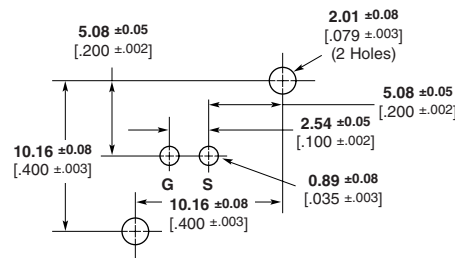
Part No.  
1-329631-2

\* Screw for panel thickness of 2.38 [3/32] or greater

Part No. 221108-2.

Screw for panel thickness of less than 2.38 [3/32]

Part No. 221108-4.



(Top View)

#### Recommended PC Board Layout

VALOX is a trademark of General Electric Company.

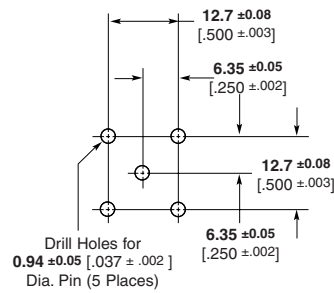
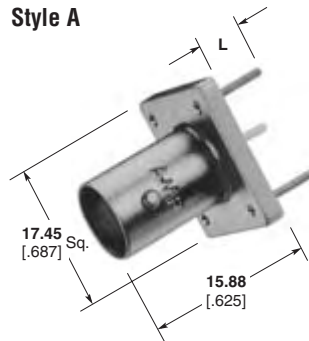
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 75 Ohm (Continued)

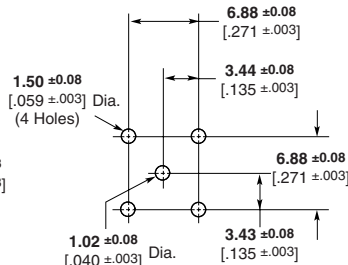
### Vertical Metalized Jacks PC Board Mount

Plating  
Dielectric — PTFE

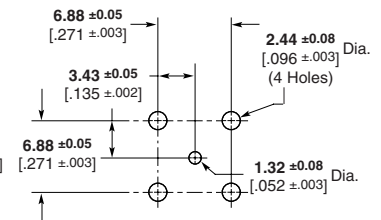
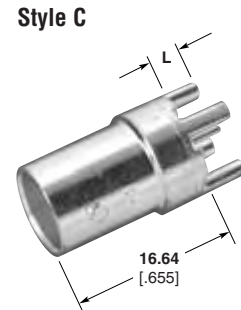
Style A



Style B

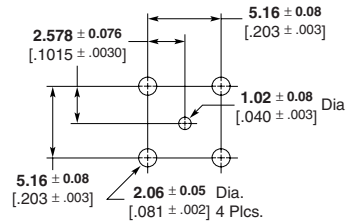
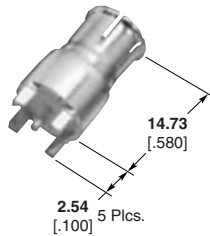


Style C



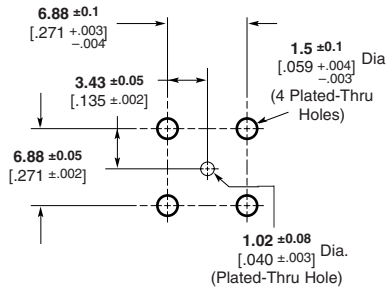
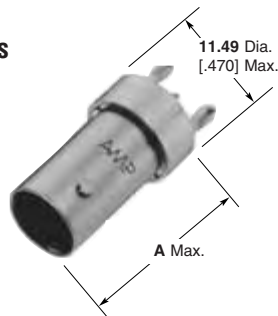
Recommended PC Board Layout

Style F (Push-On)



| Body Plating | Center Contact Plating | Style | Leg Length L | Part No.  |
|--------------|------------------------|-------|--------------|-----------|
| Nickel       | Gold                   | B     | 3.30<br>.130 | 6274291-2 |
| Tin          | Gold                   | B     | 3.30<br>.130 | 6274291-1 |
| Tin          | Gold                   | B     | 6.35<br>.250 | 6274359-1 |
| Tin          | Gold                   | C     | 4.44<br>.175 | 5414394-1 |
| Nickel       | Silver                 | A     | 6.35<br>.250 | 5413986-1 |
| Tin          | Gold                   | F     | 2.54<br>.100 | 6274360-1 |

### Press Fit Vertical Metalized Jacks PC Board Mount

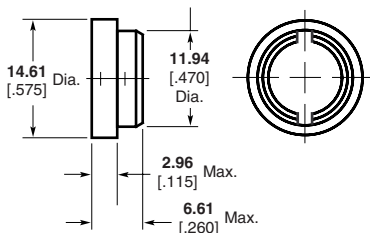


Recommended PC Board Layout

| Dim. A        | Part No.  |
|---------------|-----------|
| 20.57<br>.810 | 5222462-1 |
| 16.26<br>.640 | 5414088-1 |

### Insulating Bushing

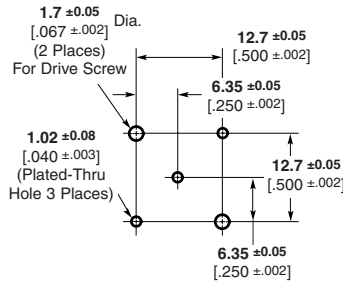
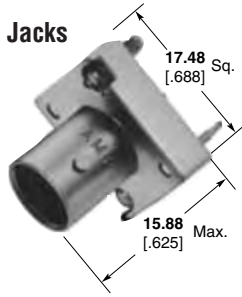
Material — Nylon  
Part No. 222163-1  
Only to be used on Part Nos.  
5222462-1 and 5222006-1



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

## BNC Connectors, 75 Ohm (Continued)

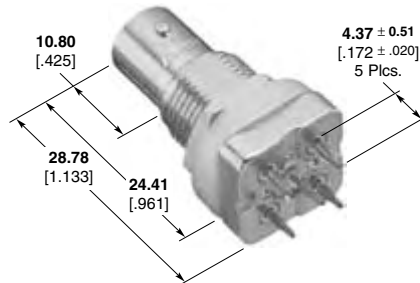
### Press Fit Vertical Metalized Jacks PC Board Mount (Continued)



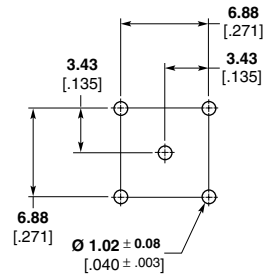
Recommended PC Board Layout

| PC Board Thickness (Min.) | Part No.  |
|---------------------------|-----------|
| 2.36<br>.093              | 5221336-3 |
| 3.17<br>.125              | 5221336-4 |

### Press Fit, Bulkhead Vertical Metalized Jack includes hardware

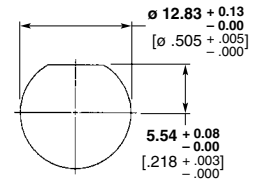


Part No. 6274124-2

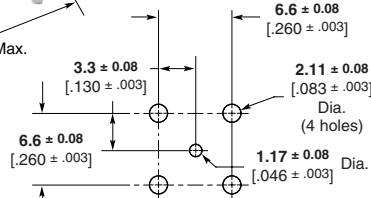
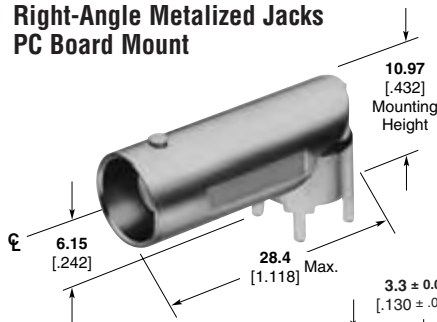


Holes Plated  
Through 5 Plcs.

Recommended  
PC Board Layout



### Right-Angle Metalized Jacks PC Board Mount

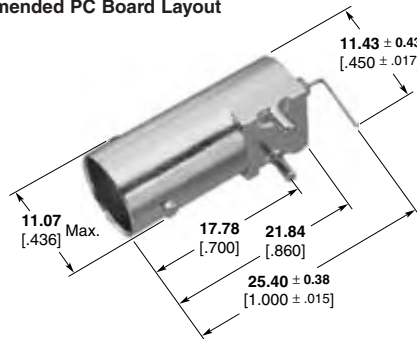


Maximum PC Board Thickness 2.54 [0.100]

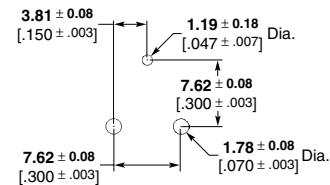
Recommended PC Board Layout

| Body Plating | Dielectric | Contact Plating | Center Contact Dimension | Part No.  |
|--------------|------------|-----------------|--------------------------|-----------|
| Nickel       | TPX        | Gold2           | .171 [0.007]             | 5413558-1 |
| Tin          | PTFE       | Gold2           | .171 [0.007]             | 5413558-2 |
| Nickel       | TPX        | Gold2           | .131 [0.005]             | 5413558-3 |
| Nickel       | TPX        | Gold1           | .171 [0.007]             | 5413558-5 |

Gold1 — 0.00076 [0.000030] thick  
Gold2 — 0.00127 [0.000050] thick



Part No. 6274127-1

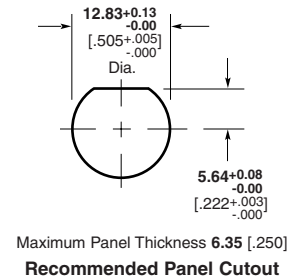
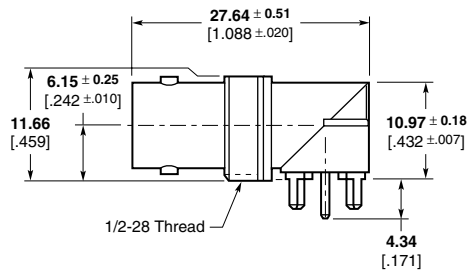


TPX is a trademark of Mitsui Chemicals America, Inc.

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

## BNC Connectors, 75 Ohm (Continued)

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

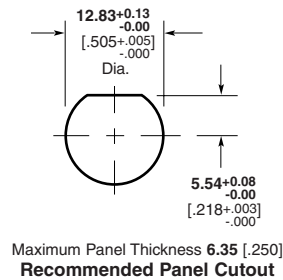
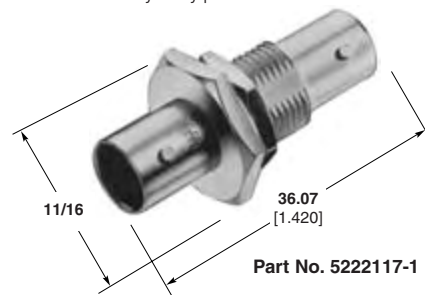


| Body Plating | Dielectric | Part No.  |
|--------------|------------|-----------|
| Tin          | PTFE       | 6274425-2 |

### Bulkhead Jack-Jack Adapter

#### Plating

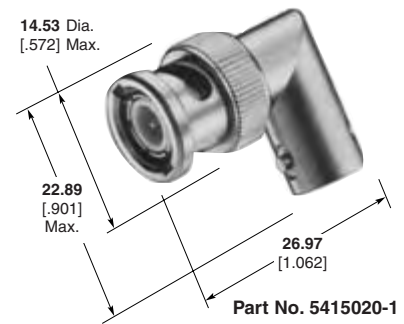
**Body** — Nickel  
**Center Contact** — Gold  
**Dielectric** — Polymethylpentene



### Right-Angle Adapter (Jack-Plug)

#### Plating

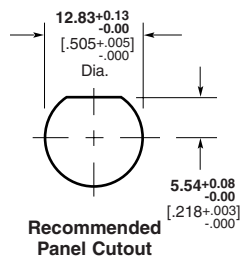
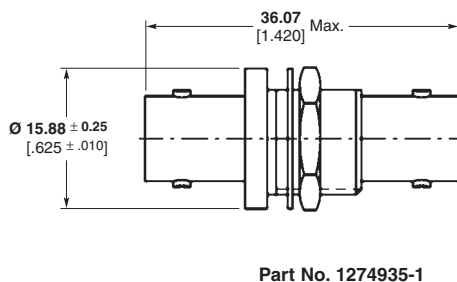
**Body** — Nickel  
**Center Contact** — Gold  
**Dielectric** — Polymethylpentene



### Bulkhead Jack-Jack Adapter

#### Plating

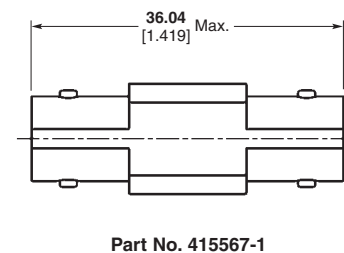
**Body** — Nickel  
**Center Contact** — Gold  
**Dielectric** — Polymethylpentene



### Jack-Jack Adapter

#### Plating

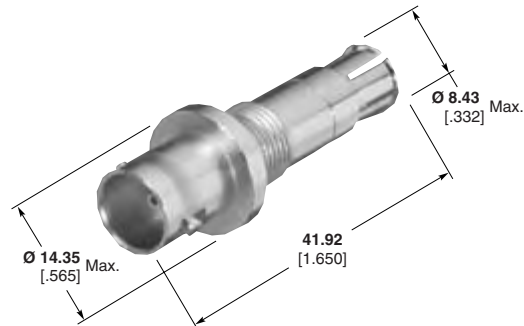
**Body** — Nickel  
**Center Contact** — Gold  
**Dielectric** — Polymethylpentene



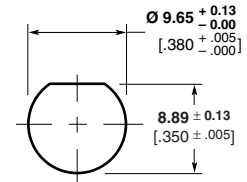
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 75 Ohm (Continued)

### Bulkhead Jack-Push On Plug Adapter



Part No. 1274007-1



Recommended Panel Cutout

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

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