# 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**



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 connectors 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.

### Between Series Adapters

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

### 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** — Page 45

**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.



Catalog 1307191
Revised 3-07

www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

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

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

[1]Assembled to cable with polytetrafluorethylene dielectric.
[2]Assembled to cable with polyethylene dielectric.
[3]For Metal Threads
[4]For Polyester Threads



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Japan: 81-44-844-8013
UK: 44-8706-080-208

## 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 |
|---|---|---|---|---|---|---|---|---|---|
| **Connector Material** | | | | | | | | | |
| Collar | Brass QQ-B-626 | Brass QQ-B-626 | Brass | Brass | Brass QQ-B-626 Zinc QQ-Z-363 | — | — | — | Brass QQ-B-626 |
| Outer Contact (Plug) | Brass QQ-B-626 Beryl. Copper QQ-C-530 | Phos. Bronze QQ-B-750 | Brass | Brass | Brass MIL-C-21768 | — | — | — | Brass QQ-B-626 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 Zinc QQ-Z-363 | QQ-Z-363 Brass QQ-B-626 | Brass QQ-B-626 |
| Dielectric | PTFE MIL-P-19468 Polypropylene Gen. Purpose | PTFE MIL-P-19468 | PTFE | PTFE | Polyethylene Polypropylene Polymethylpentene Gen. Purpose | Polymethylpentene Gen. Purpose[1] | PTFE MIL-P-19468 | PTFE MIL-P-19468 Polyester PBT MIL-P-24519 | PTFE MIL-P-19468 Polypropylene, Gen. Purpose |
| Center Contact (Plug) | Brass QQ-B-626 | Brass QQ-B-626 | Brass | Brass | Brass QQ-B-626 | — | — | — | Brass QQ-B-626 Beryl. Copper QQ-C-530 |
| Center Contact (Jack) | Beryl. Copper ASTM-B-643 QQ-C-530 | Beryl. Copper ASTM-B-643 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 Beryl. Copper QQ-C-530 | Phos. Bronze QQ-B-570 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 | — | — | — | — |
| **Connector Primary Finishes[2]** | | | | | | | | | |
| Collar | Silver QQ-S-365 Bright Nickel QQ-N-290 | Silver QQ-S-365 Bright Nickel QQ-N-290 | Silver/ Bright Nickel | Silver/ Bright Nickel | Bright Nickel QQ-N-290 | — | — | — | Silver QQ-S-365 Bright Nickel QQ-N-290 |
| Outer Contacts (Plug & Jack) | QQ-S-365 Gold | Silver QQ-S-365 Bright Nickel QQ-N-290 | Silver/ Bright Nickel | Silver/ 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 Bright Nickel QQ-N-290 |
| Center Contacts (Plug & Jack) | MIL-G-45204 Silver | Gold MIL-G-45204 | Gold | Gold | Tin Lead ASTM-B-545 Silver, QQ-S-365 Gold, MIL-G-45204 | Tin Lead ASTM-B-545 Silver, QQ-S-365 Gold, MIL-G-45204 | Gold MIL-B-45204 | Tin Lead ASTM-B-545 Silver, QQ-S-365 Gold, MIL-G-45204 | Silver QQ-S-365 Gold MIL-G-45204 |
| Ferrule[3] | QQ-S-365 | Silver QQ-S-365 Tin Lead ASTM-B-545 | — | — | Tin Lead ASTM-B-545 | — | — | — | — |

[1]Several pc board connectors have an outer polyester PBT insulator per MIL-P-24519.
[2]If more than one finish is listed, refer to individual catalog page(s) or customer drawings for exact specification.
[3]Ferrules with tin-lead finish are used with nickel plated outer contacts.



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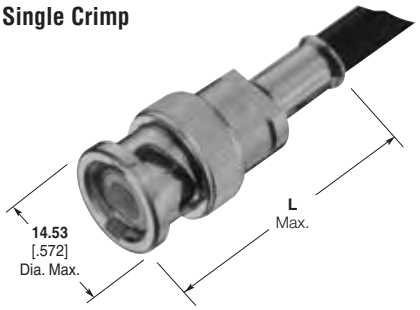
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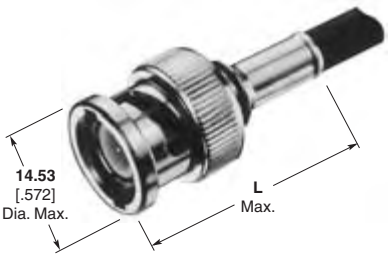
# BNC Connectors, 50 Ohm

## 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 | **33.33** 1.312 | 69245-4 | — | 69471 | **5330876** |
| 174, 188, 188A, 316 | Hex Crimp | Nickel | Polyethylene | Commercial | **33.53** 1.320 | — | 58436-3 | — | **2-5221128-1** |
| | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | 220009-5 | 318450-2 | 220217-3 | **1-5227079-6** |
| | O Crimp | Nickel | PTFE | MIL Type | **30.18** 1.188 | — | 1424050-1 | 220026-1 | **5225395-7** |
| | Single Crimp | Silver | PTFE | MIL Type | **33.33** 1.312 | 69245-2 | — | 69422 | **2-5330061-1** |
| 179, 179A, 179B, 161, 187, 187A, BELDEN 9221 | Hex Crimp | Nickel | Polyethylene | Commercial | **33.53** 1.320 | — | 58436-3 | — | **2-5221128-3** |
| | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | — | 1424050-1 | 220217-3 | **2-5227079-2** |
| | O Crimp | Nickel | PTFE | MIL Type | **30.18** 1.188 | — | — | 220026-1 | **5225395-8** |
| | Single Crimp | Silver | PTFE | MIL Type | **33.33** 1.312 | — | 91910-1 | 69408 | **2-5329446-1** |
| RD 316, 188, Double Braid | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | 69477-4 | 58539-1 | — | **8-5227079-2** |
| BELDEN 8219 | Hex Crimp | Nickel | Polyethylene | Commercial | **33.53** 1.320 | — | 58436-1[2] | — | **2-5221128-7** |
| | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | 220187-1 | 58435-1[1] | 220217-1 | **6-5227079-7**[3] |
| BELDEN 9907, 89907 COMM/ SCOPE 2104 | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | 220187-1 | 318452-2 | 220217-1 | **6-5227079-8**[4] |
| BELDEN 8218 | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | 69477-4 | 58539-1 | 58376-1 | **1-5227079-9** |
| | O Crimp | Nickel | PTFE | MIL Type | **30.18** 1.188 | — | 91904-1 | 69669-2 | **1-5225395-0** |

[1]Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.
[2]Order Tyco Electronics PRO-CRIMPER Coaxial Hex Crimp Hand Tool assembly 58433-2, which includes dies 58436-1.
[3]For use with BELDEN 9907 cable, COMM/SCOPE 3104 cable, and BELDEN 8219 cable only.
[4]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.



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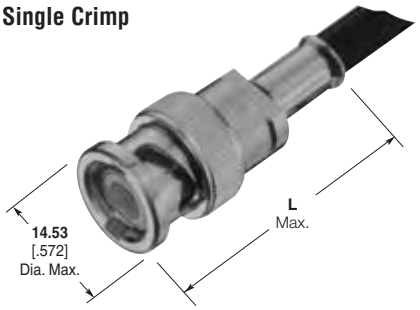
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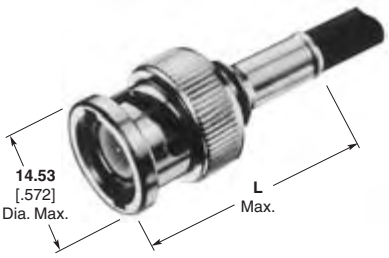
## BNC Connectors, 50 Ohm (Continued)

### 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** 1.320 | — | 58436-1[2] | — | **5221128-1**[3] |
| | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | 220187-1 | 58435-1[1] | 220217-1 | **5227079-5** |
| | O Crimp | Nickel | PTFE | MIL Type | **33.74** 1.328 | 69478-1 | 220189-3 | 69727 | **5225395-1** |
| | Single Crimp | Silver | PTFE | MIL Type | **33.33** 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** 1.320 | — | 58436-1[2] | — | **1-5221128-0** |
| | O Crimp | Nickel | Polyethylene | Commercial | **33.33** 1.312 | 220187-1 | 58435-1[1] | 220217-1 | **4-5227079-3** |
| | O Crimp | Nickel | PTFE | MIL Type | **33.33** 1.312 | 69478-1 | 220189-3 | 69727 | **4-5225395-2** |
| 223, 55, 55A, 55B | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.280 | 220187-1 | 58435-1[1] | 220217-1 | **5227079-6** |
| | O Crimp | Nickel | PTFE | MIL Type | **43.64** 1.718 | 69478-1 | 220189-3 | 69727 | **5225395-3** |
| | Single Crimp | Silver | PTFE | MIL Type | **33.33** 1.312 | — | 91904-3 | 69424 | **2-5329444-2** |
| 142, 142A, 142B, 400 | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | 220187-1 | 58435-1[1] | 220217-1 | **6-5227079-1** |
| | O Crimp | Nickel | PTFE | MIL Type | **30.18** 1.188 | 69478-1 | 220189-3 | 69727 | **5225395-6** |
| | Single Crimp | Silver | PTFE | MIL Type | **33.33** 1.312 | 69331-1 | — | 69429-1 | **2-5330358-2** |

Consult Tyco Electronics for recommended crimp tooling.
[1]Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.
[2]Order Tyco Electronics PRO-CRIMPER Coaxial Hex Crimp Hand Tool assembly 58433-2, which includes dies 58436-1.
[3]Bulk packaged.

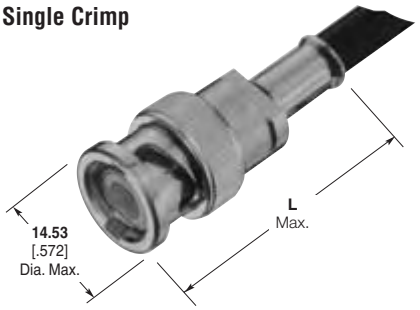
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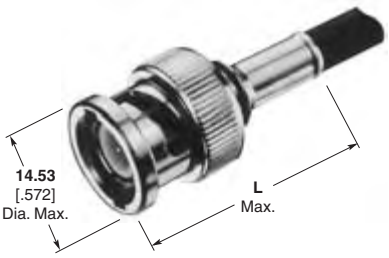
## BNC Connectors, 50 Ohm (Continued)

### 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** 1.320 | — | 58436-1[2] | — | **1-5221128-1** |
| | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | 220187-2 | 58435-1[1] | 220217-2 | **5227079-7** |
| | O Crimp | Nickel | Polyethylene | Commercial | **27.69** 1.090 | 220187-2 | 58435-1[1] | 220217-2 | **1-5227079-1** |
| | O Crimp | Nickel | PTFE | MIL Type | **30.18** 1.188 | — | 58537-1 | — | **5225395-2** |
| | Single Crimp | Silver | PTFE | MIL Type | **33.33** 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** 1.320 | — | 58436-1[2] | — | **1-5221128-1** |
| | O Crimp | Nickel | PTFE | MIL Type | **34.14** 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** 1.312 | — | 58537-1 | — | **5-5227079-3** |
| BELDEN 9104, 9240, 9112, 9167, 9259, 9266, Times FM-59 | Hex Crimp | Nickel | Polyethylene | Commercial | **33.53** 1.320 | — | 58436-1[2] | — | **1-5221128-7** |
| | O Crimp | Nickel | PTFE | MIL Type | **30.94** 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** 1.634 | 69652 | — | 220000 | **5330878** |
| 8, 8A, 213 | O Crimp | Silver | PTFE | MIL Type | **27.31** 1.075 | 220015-1 | — | — | **5225886-1** |
| 11, 11A | O Crimp | Silver | PTFE | MIL Type | **47.63** 1.875 | 220015-1 | — | — | **5225886-4** |
| BELDEN 9914, Times FM-8 | O Crimp | Silver | PTFE | MIL Type | **47.63** 1.875 | 220015-1 | — | — | **5225886-7** |
| Alpha 9847, BELDEN 8213, 9292 | O Crimp | Silver | PTFE | MIL Type | **47.63** 1.875 | 220015-1 | — | — | **225886-5 ♦** |
| 9, 9A, 9B, 214 | O Crimp | Silver | PTFE | MIL Type | **52.38** 2.062 | 220015-1 | — | — | **5225886-1** |

[1]Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.
[2]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

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BERK-TEK is a trademark of Nexans, Inc.

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



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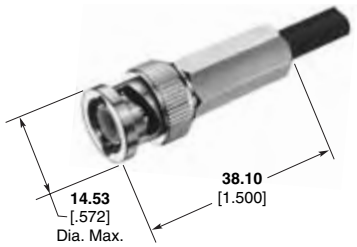
# BNC Connectors, 50 Ohm (Continued)

## 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.

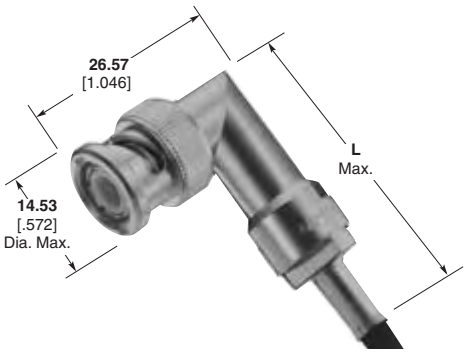
**Mating Twist-On Jack** — Page 52



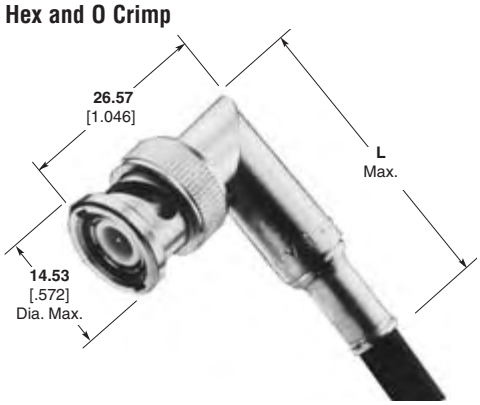

| RG/U Cable | Contact Plating | Body Plating | Dielectric | Style | Part No. |
|---|---|---|---|---|---|
| 59, 59A, 59B | Gold | Nickel | Polymethyl-pentene | Commercial | **5414265-3** |

## 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** 1.553 | — | 58436-3 | — | **5413959-3** |
| | Single Crimp | Gold | Silver | PTFE | MIL Type | **44.45** 1.750 | — | 91910-1 | 69422 | **5331178** |
| 179, 179A, 179B, 161, 187, 187A, BELDEN 9221 | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.45** 1.553 | — | 58436-3 | — | **5413959-4** |
| 180, 180A, 180B, 195, 195A | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.45** 1.553 | — | 58436-3 | — | **5413959-5** |
| BELDEN 9907, 89907, 8219, COMM/SCOPE 2104, 3104 | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.45** 1.553 | — | 58436-1 | — | **5413959-6** |
| 58, 58A, 58B, 58C | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.45** 1.553 | — | 58436-1 | — | **5413959-1** |
| | O Crimp | Gold | Nickel | PTFE | MIL Type | **37.29** 1.468 | 69478-1 | 220189-3 | 69727-1 | **5225974-1** |
| | Single Crimp | Gold | Silver | PTFE | MIL Type | **44.45** 1.750 | — | 91904-1 | 69223-1 | **5331175** |
| 55, 55A, 55B, 223 | O Crimp | Gold | Nickel | PTFE | MIL Type | **37.29** 1.468 | 69478-1 | 220189-3 | 69727-1 | **5225974-2** |
| | Single Crimp | Gold | Silver | PTFE | MIL Type | **44.45** 1.750 | — | 91904-3 | 69429-1 | **5331182** |
| 142, 142A, 142B, 400 | Single Crimp | Gold | Silver | PTFE | MIL Type | **44.45** 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** 1.468 | — | 58537-1 | 69669-1 | **5225974-5** |

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COMM/SCOPE is a trademark of Commscope, Inc.

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



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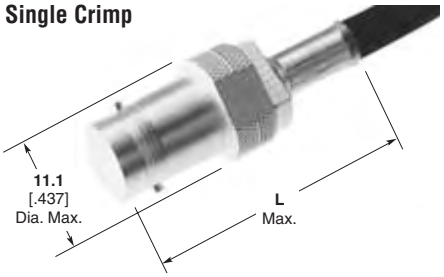
USA: 1-800-522-6752
Canada: 1-905-470-4425
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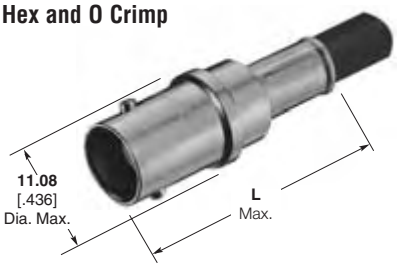
## BNC Connectors, 50 Ohm (Continued)

### 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 | **33.02** 1.300 | — | 58436-3 | — | **5413779-3** |
| | O Crimp | Gold | Nickel | Polypro-pylene | Commercial | **30.48** 1.200 | — | 1424050-1 | 220217-3 | **5228979-7** |
| | O Crimp | Gold | Nickel | PTFE | MIL Type | **30.48** 1.200 | — | 1424050-1 | 220026-1 | **5225396-7** |
| | Single Crimp | Gold | Silver | PTFE | MIL Type | **33.33** 1.312 | — | — | 69422 | **2-5330062-1** |
| 179, 179A, 179B, 161, 187, 187A, BELDEN 9221 | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **33.02** 1.300 | — | 58436-3 | — | **2-5413779-4** |
| 58, 58A, 58B, 58C | O Crimp | Gold | Nickel | Polypro-pylene | Commercial | **30.48** 1.200 | 220187-1 | 58435-1[1] | 220217-1 | **5228979-5** |
| | O Crimp | Gold | Nickel | PTFE | MIL Type | **30.48** 1.200 | — | 91901-1 | 69727 | **5225396-1** |
| 223, 55, 55A, 55B | Single Crimp | Gold | Silver | PTFE | MIL Type | **33.33** 1.312 | 69140-2 | 91904-3 | 69424 | **2-5329452-2** |
| 124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269 | O Crimp | Gold | Nickel | Polypro-pylene | Commercial | **30.48** 1.200 | 220187-2 | 58435-1[1] | 220217-2 | **5228979-6** |
| | O Crimp | Gold | Nickel | PTFE | MIL Type | **30.48** 1.200 | — | 58537-1 | 69669-1 | **5225396-2** |

[1]Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.

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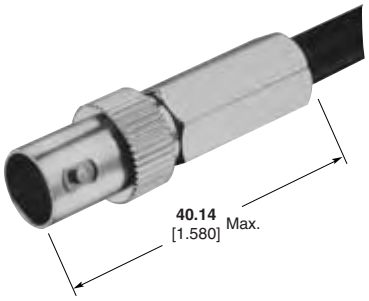
## BNC Connectors, 50 Ohm (Continued)

### Jacks, Twist-On

#### Related Product Data

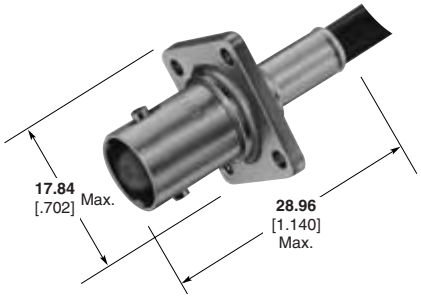
Twist-on jacks must be used with cable that has a solid conductor. These jacks are not recommended for applications where the cable frequently moves or flexes.

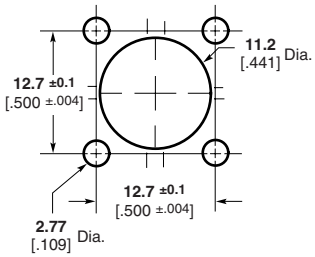
**Mating Twist-On Plug** — Page 50




| 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.



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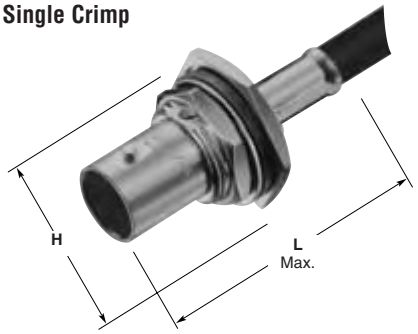
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## BNC Connectors, 50 Ohm (Continued)

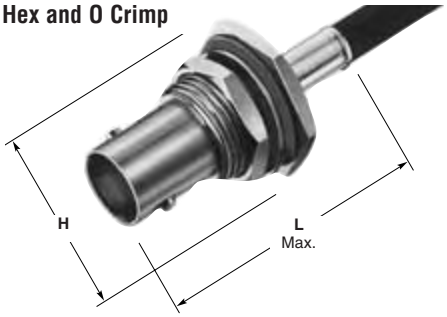
### Bulkhead Jacks, Crimp

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

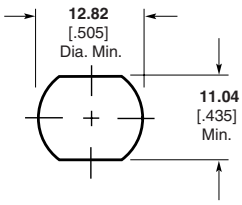
**Single Crimp**

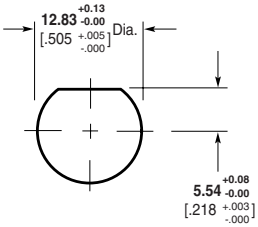



**Hex and O Crimp**




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




**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. |
|---|---|---|---|---|---|---|---|---|---|---|
| 174, 188, 188A, 316 | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **36.83** 1.450 | — | 58436-3 | — | **5413771-3** |
| | O Crimp | Gold | Nickel | Polypro-pylene | Commercial | **34.93** 1.375 | — | — | 220217-3 | **5228980-7** |
| | O Crimp | Gold | Nickel | PTFE | MIL Type | **35.71** 1.406 | — | — | 220026-1 | **5225398-7** |
| | Single Crimp | Gold | Silver | PTFE | MIL Type | **32.13** 1.265 | — | — | 69422 | **2-5330063-1** |
| 179, 179A, 179B, 161, 187, 187A, BELDEN 9221 | O Crimp | Gold | Nickel | PTFE | MIL Type | **35.71** 1.406 | — | 1424050-1 | 220026-1 | **5225398-8** |
| | Single Crimp | Gold | Silver | PTFE | MIL Type | **32.13** 1.265 | — | 91910-1 | 69408 | **2-5329458-1** |
| Times RD316 | O Crimp | Gold | Nickel | PTFE | MIL Type | **35.71** 1.406 | — | 91904-1 | 69669-2 | **1-5225398-5** |

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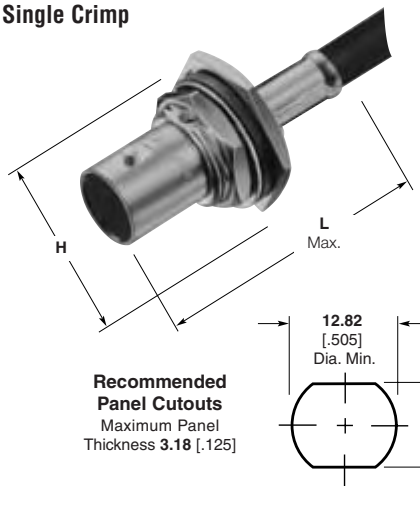
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## BNC Connectors, 50 Ohm (Continued)

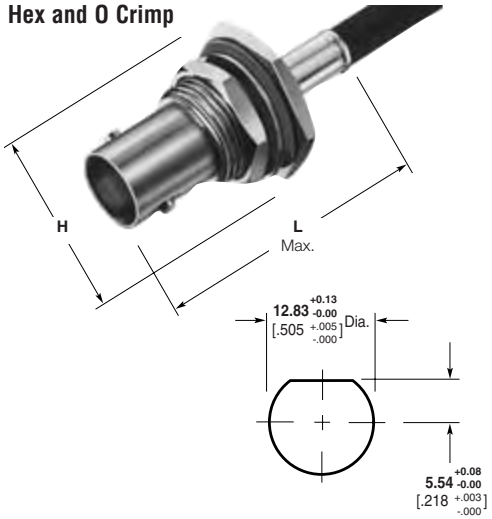
### Bulkhead Jacks, Crimp (Continued)

**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

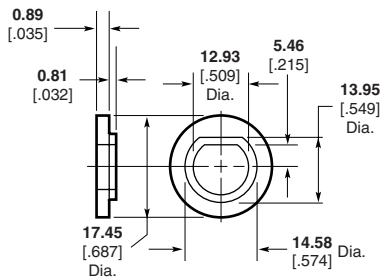
| RG/U Cable | Termination Type | Center Contact Plating | Body Plating | Dielectric | Style | Dim. L | CERTI-CRIMP Hand Tool with Integral Die | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1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

[1]Order Tyco Electronics PRO-CRIMPER Coaxial "O" Crimp Hand Tool assembly 58433-1, which includes dies 58435-1.

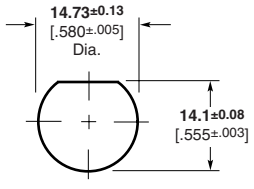
### Panel Insulating Bushings for Bulkhead Jacks

**Material** — Nylon

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




**Part No. 330620 (2 Required)**




**Recommended Panel Cutout**

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



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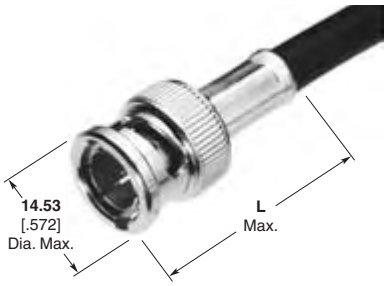
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## BNC Connectors, 50 Ohm (Continued)

### Plugs, for JIS Cables, Crimp

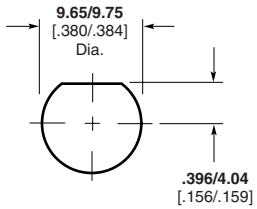
**Plating**
**Body** — Nickel
**Center Contact** — Gold




| 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** |

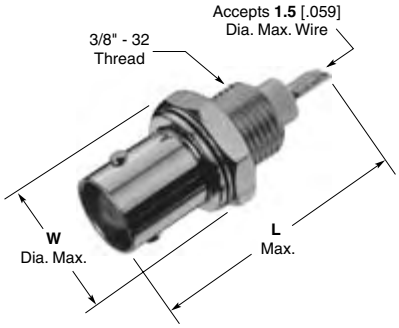
### Bulkhead Solder Jacks, Front Mount

**Body Plating** — Nickel

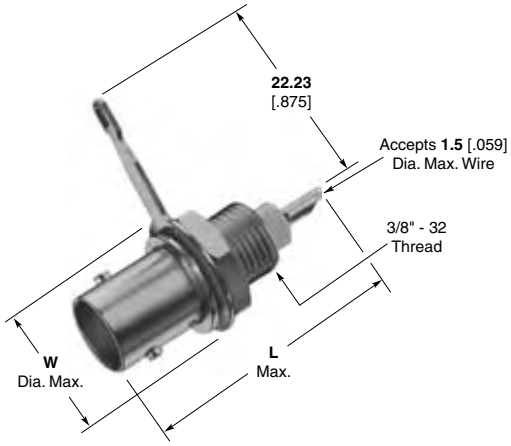



**Recommended Panel Cutout**

**Without Solder Terminal**




**With Solder Terminal**




| Contact Material | Dielectric | Dimensions L | Dimensions W | Panel Thickness | Insulating Bushing | Part No. Without Solder Terminal* | Part No. 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** |
| Gold | VALOX | **33.33**<br>1.312 | **13.09**<br>.515 | **1.17-6.35**<br>.046-.250 | **227223-1** or<br>**221951-1** | — | **5227169-7** |
| | | **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** |
| | PTFE | **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** |
| | | **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** |
| Tin | VALOX | **33.33**<br>1.312 | **13.09**<br>.515 | **1.17-6.35**<br>.046-.250 | **227223-1** or<br>**221951-1** | — | **5227169-5** |
| | | **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.

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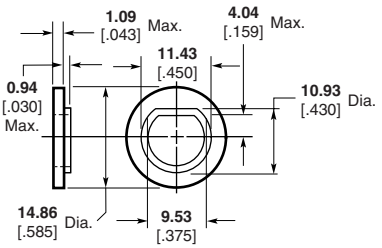
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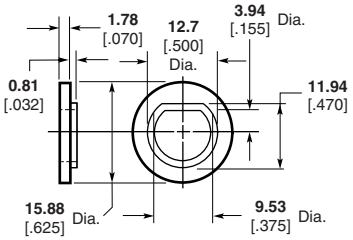
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## BNC Connectors, 50 Ohm (Continued)

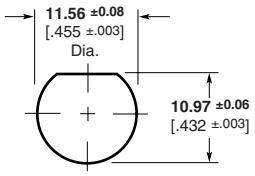
### Insulating Bushings



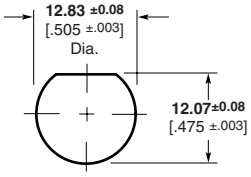

**Part No. 227223-1**




**Part No. 221951-1**




**Recommended Panel Cutout**

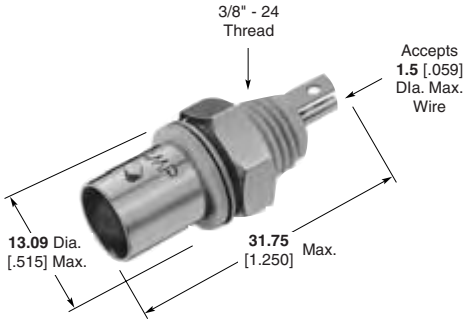


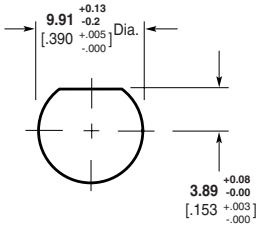

**Recommended Panel Cutout**

### 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** |

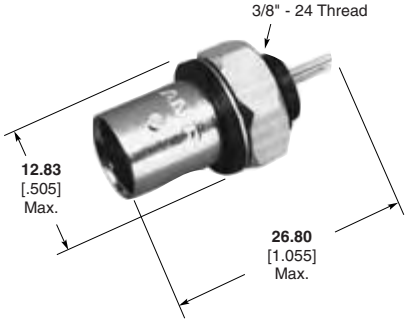


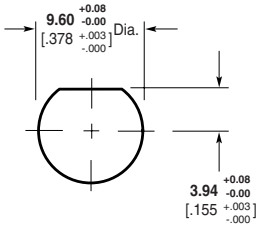

Panel Thickness **1.17-6.35** [.046-.250]

**Recommended Panel Cutout**

**Plating**
**Body** — Nickel
**Center Contact** — Silver
**Dielectric** — Black VALOX
**Flange & Thread Material** — Black VALOX




**Part No. 5414194-1**

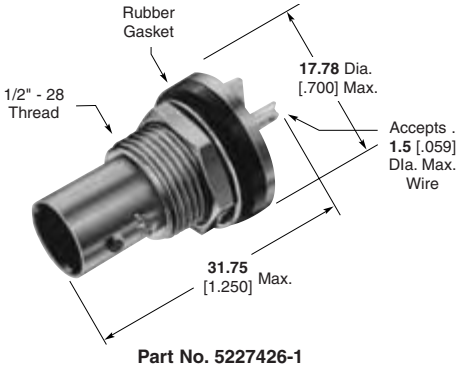



Panel Thickness **1.17-3.18** [.046-.125]

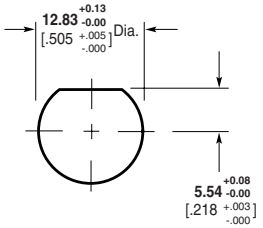
**Recommended Panel Cutout**

### 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.




**Part No. 5227426-1**




Maximum Panel Thickness **6.35** [.250]

**Recommended Panel Cutout**

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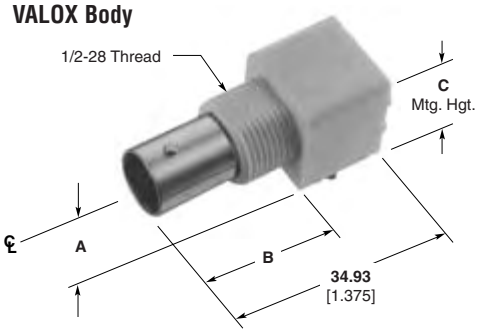
South America: 55-11-2103-6000
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# BNC Connectors, 50 Ohm (Continued)

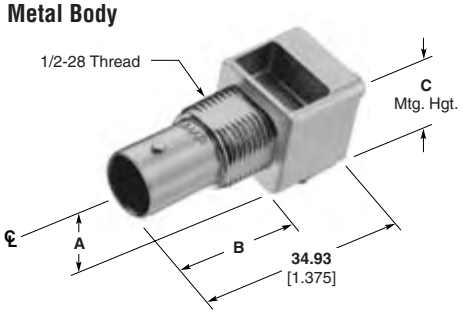
## Right-Angle Jacks PC Board/Panel Mount

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

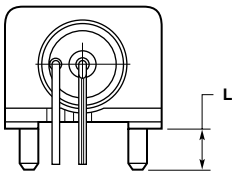
### VALOX Body



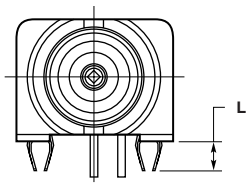

### Metal Body

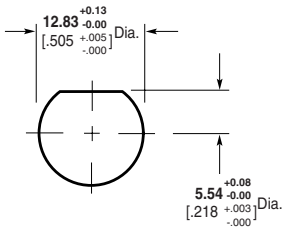



### Mounting Post Style




### Compliant Post




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

**Recommended Panel Cutout**

| Body Material | Center Contact Plating | Dimensions A | B | C | Part No. Without Mounting Posts | With Mounting Posts | L | With Compliant Posts | L |
|---|---|---|---|---|---|---|---|---|---|
| VALOX, White | Tin | **8.59** .338 | **21.21** .835 | **15.88** .625 | **5226990-1** | **5227161-1** | **3.48** .137 | — | — |
| | Gold1 | **8.59** .338 | **21.21** .835 | **15.88** .625 | **5226990-3** | **5227161-3** | **3.48** .137 | — | — |
| | Gold1 | **6.91** .272 | **21.21** .835 | **13.18** .519 | — | **5227161-7** | **3.48** .137 | — | — |
| VALOX, Black | Tin | **8.59** .338 | **21.21** .835 | **15.88** .625 | — | **5227161-2** | **3.48** .137 | — | — |
| | Gold1 | **8.59** .338 | **21.21** .835 | **15.88** .625 | **5226990-6** | **5227161-6** | **3.48** .137 | — | — |
| | Gold1 | **6.91** .272 | **21.21** .835 | **13.18** .519 | — | **5227161-9** | **3.48** .137 | — | — |
| | Gold1 | **6.17** .243 | **21.21** .835 | **11.68** .460 | — | **5415046-1** | — | — | — |
| Metal | Tin | **8.26** .325 | **20.83** .820 | **15.88** .625 | — | **5227661-1** | **3.48** .137 | — | — |
| | Gold1 | **8.26** .325 | **20.83** .820 | **15.88** .625 | **5227676-1** | **5227677-1** | **3.48** .137 | — | — |
| | Gold1 | **6.91** .272 | **20.83** .820 | **12.70** .500 | **1274668-1** | **5413879-1** | **3.48** .137 | — | — |
| | Gold2 | **6.91** .272 | **20.83** .820 | **12.70** .500 | — | **5413879-2** | **3.48** .137 | — | — |
| High Temp. Housing | Gold1 | **6.91** .272 | **21.21** .835 | **13.18** .519 | — | — | — | **5415218-5** | **2.79** .110 |

**Plating:**
Gold1 — 0.00076 [.000030] thick
Gold2 — 0.00127 [.000050] thick
**Note:** If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

### Lockwasher and Jam Nut

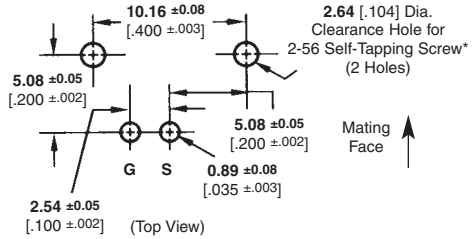


**Part No. 1-329632-2**

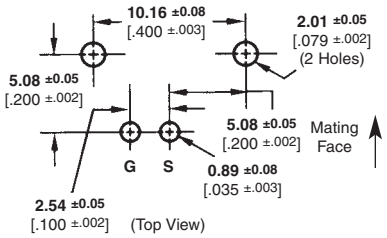


**Part No. 1-329631-2**

### Without Mounting Posts




### With Mounting Posts




**Recommended PC Board Layouts**

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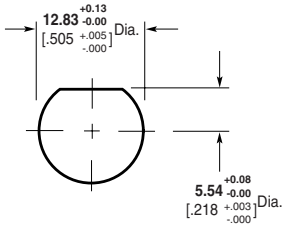
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## BNC Connectors, 50 Ohm (Continued)

### Vertical Jacks
### PC Board/Panel Mount

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




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

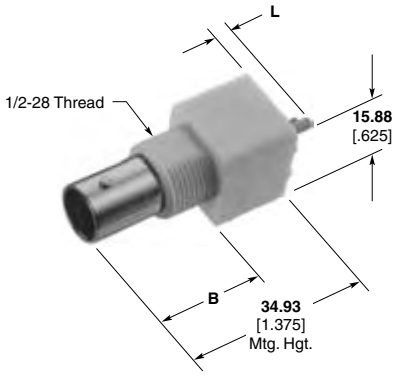
**Recommended Panel Cutout**

### Lockwasher and Jam Nut

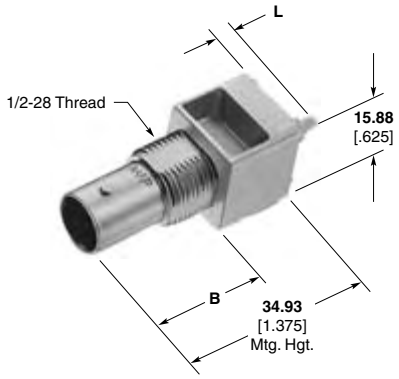


**Part No. 1-329632-2** **Part No. 1-329631-2**

### VALOX Body



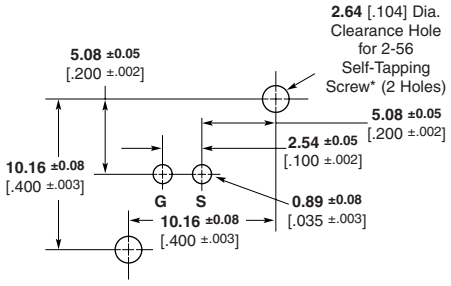

### Metal Body




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

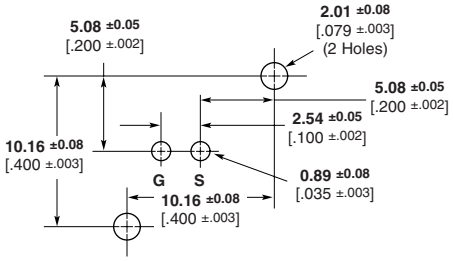
**Note:** If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

### Without Mounting Posts




(Top View)

### With Mounting Posts




(Top View)

**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.**

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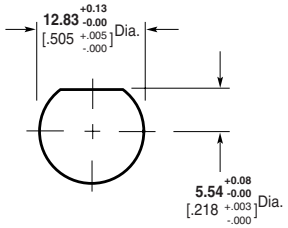
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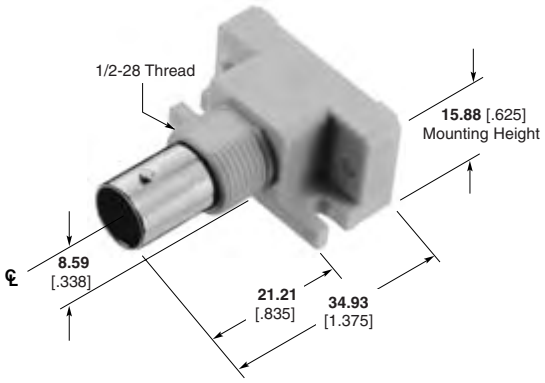
## BNC Connectors, 50 Ohm (Continued)

### 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** |

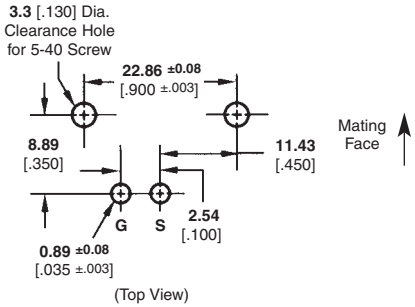
### Lockwasher and Jam Nut



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



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




**Recommended PC Board Layout**

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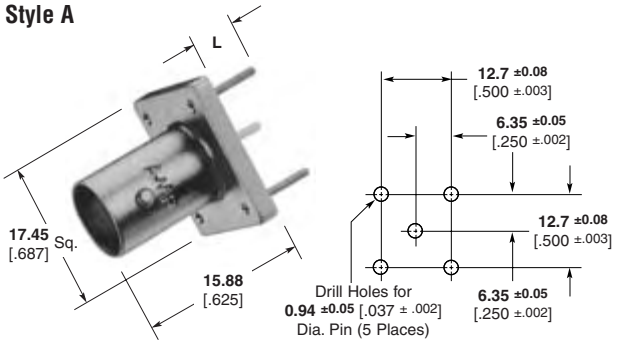
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## BNC Connectors, 50 Ohm (Continued)

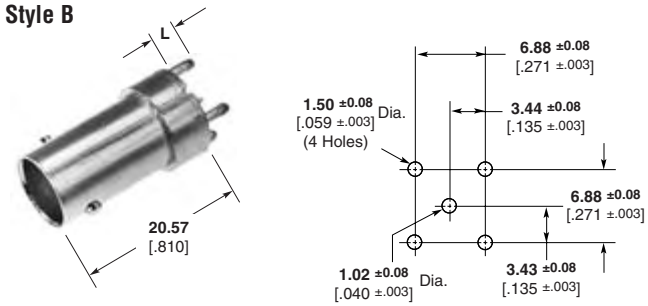
### Vertical Metalized Jacks
### PC Board Mount

**Recommended PC Board Layouts**

**Style A**



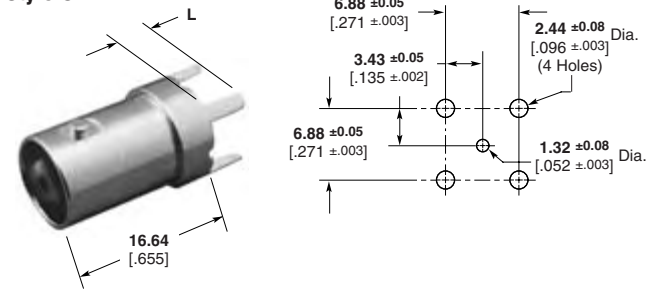

**Style B**



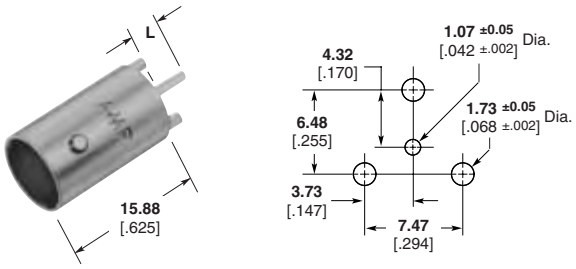

| Body Plating | Center Contact Plating | Dielectric | Style | Leg Length L | Part No. |
|---|---|---|---|---|---|
| Nickel | Silver | VALOX | A | 6.35 .250 | 5227699-1 |
| | Gold | VALOX | A | 6.35 .250 | 5227699-2 |
| | Tin | VALOX | A | 6.35 .250 | 5227699-3 |
| | Gold | VALOX | A | 3.81 .150 | 5414460-1[1]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

[1]With **.76** [.030] standoffs on top of legs.

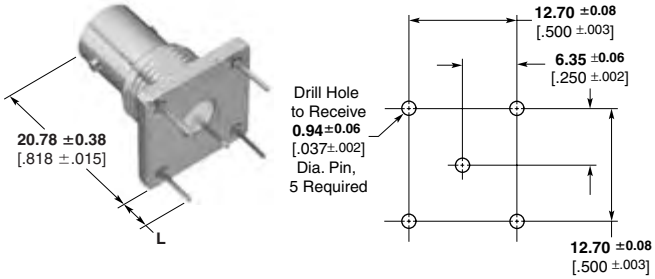
**Style C**




**Style D**




**Style E (Panel Mount)**




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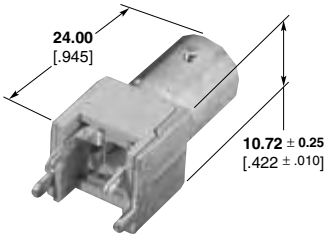
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Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

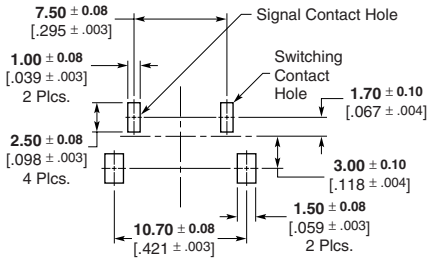
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## BNC Connectors, 50 Ohm (Continued)

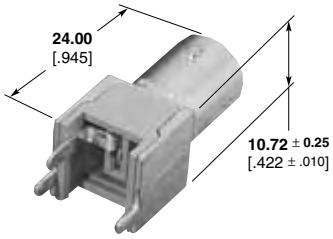
### Vertical Metalized Jacks, PC Board Mount



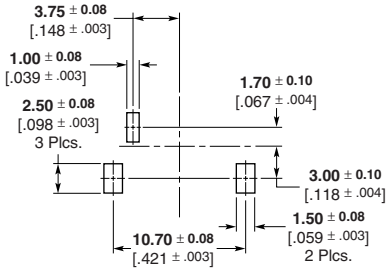

**Part No. 1274314-1**
**(Switching)**




**Recommended**
**PC Board Layout**



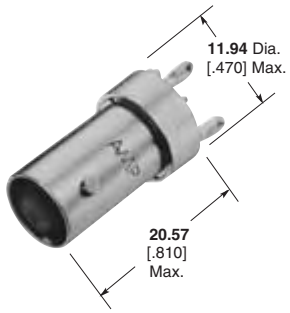

**Part No. 1274315-1**



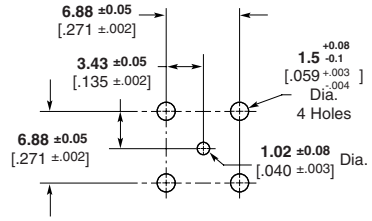

**Recommended**
**PC Board Layout**

| 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



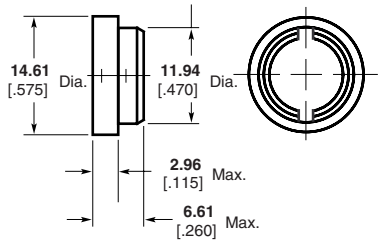

**Part No. 5222006-1**




**Recommended PC Board Layout**
PC Board Thickness Not Less Than **0.99** [.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.



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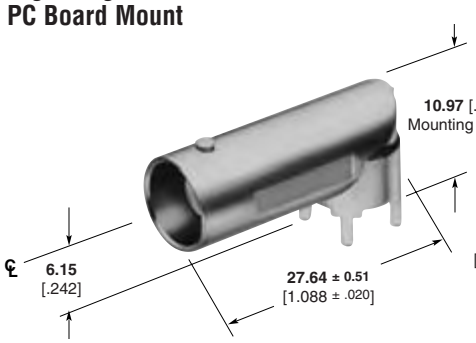
Dimensions are shown for reference purposes only. Specifications subject to change.

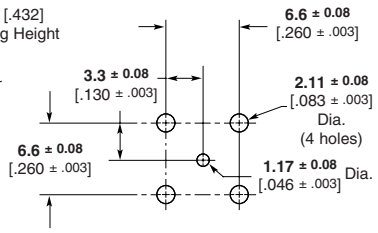
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## BNC Connectors, 50 Ohm (Continued)

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

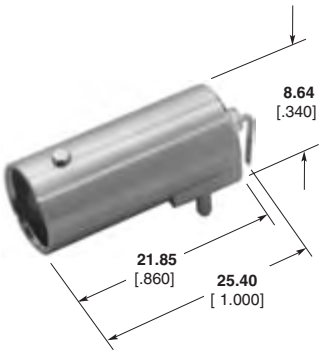


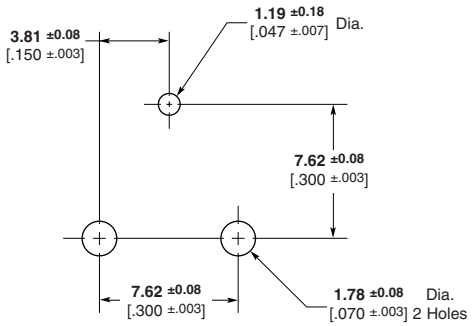




Maximum PC Board Thickness **2.54** [.100]

**Recommended PC Board Layout**

| 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** |

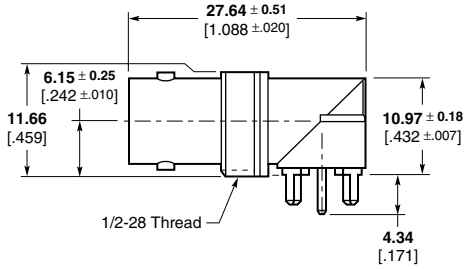


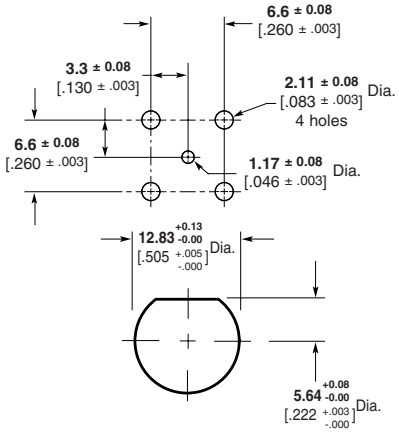

**Recommended PC Board Layouts**

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

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




Lockwasher and Jam Nut see page 59.




Maximum Panel Thickness **6.35** [.250]

**Recommended Panel Cutout**

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

TPX is a trademark of Mitsui Chemicals America, Inc.

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



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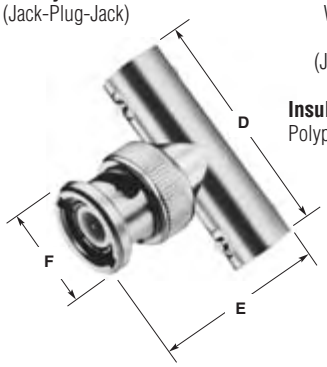
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## BNC Connectors, 50 Ohm (Continued)

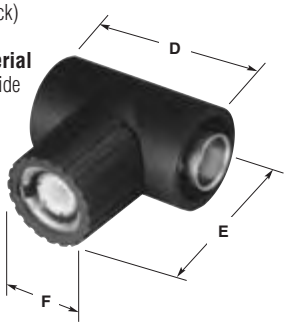
### Tee Adapters

**Style A**
(Jack-Plug-Jack)

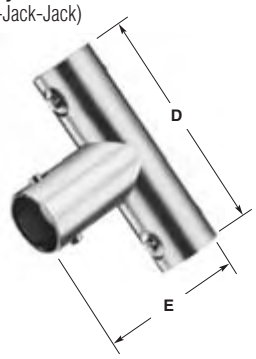



**Style B**
With Insulated Cover
(Jack-Plug-Jack)

**Insulation Material**
Polyphenylene oxide




**Style C**
(Jack-Jack-Jack)




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

[1]Gray insulation cover
[2](Microinches min thickness)
[3](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.



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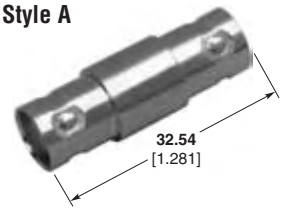
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

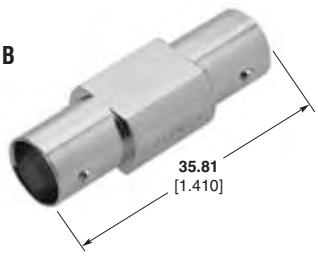
## BNC Connectors, 50 Ohm (Continued)

### Jack-Jack Adapters

**Style A**

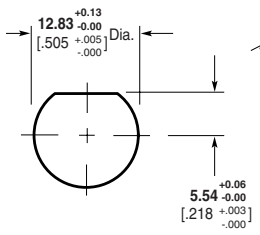


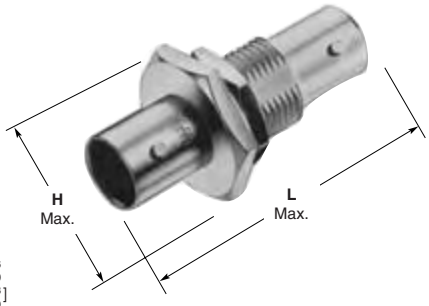

**Style B**




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

### Bulkhead Jack-Jack Adapters



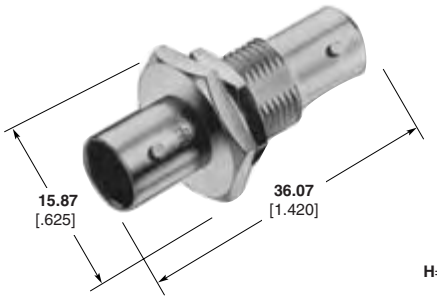

**Recommended Panel Cutout**
**H**= **11/16** across flats, **20.32** [.800] across points.

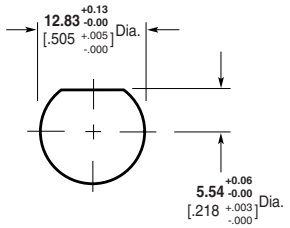
| Body Plating | Center Contact Plating | Dimensions H | Dimensions L | Dielectric | Part No. |
|---|---|---|---|---|---|
| Nickel | Silver | **17.45** .687 | **38.10** 1.500 | PTFE | **330024** |
| Nickel | Gold1 | **17.78** .700 | **36.07** 1.420 | Poly-ethylene | **5228226-1** |
| Nickel | Gold2 | **17.78** .700 | **36.07** 1.420 | Poly-ethylene | **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.

### Isolated Bulkhead Jack-Jack Adapter

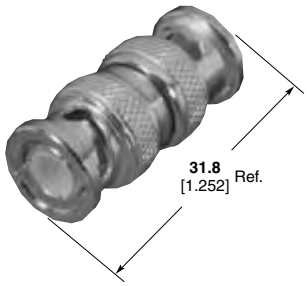
| Body Plating | Center Contact Plating | Dielectric | Part No. |
|---|---|---|---|
| Nickel | Gold | Polymethylpentene | **5414105-1** |




**Recommended Panel Cutout**
**H**= **11/16** across flats, **20.32** [.800] across points.

### Plug-Plug Adapter

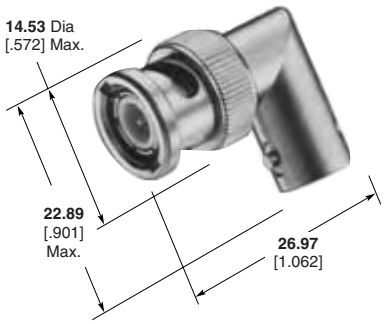



| Contact Plating | Body Plating | Part No. |
|---|---|---|
| Gold | Nickel | **415796-1** |

### 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.



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C. America: 52-55-1106-0803

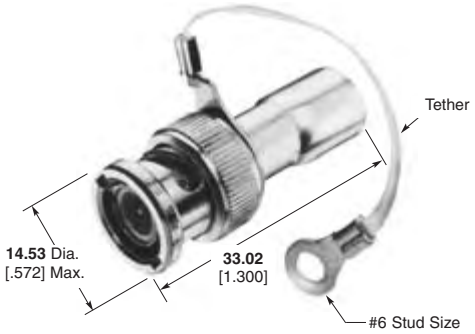
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## BNC Connectors, 50 Ohm (Continued)

### Terminator Plugs 50, 75, 93 Ohm

**Plating**

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



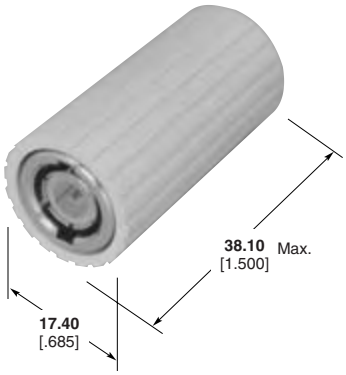

| Resistor Specification | Part No. | |
|---|---|---|
| | With Tether | Without Tether |
| 1 Watt, 50 Ohm | **5221629-1** | **5221629-4** |
| 1 Watt, 75 Ohm | **5221629-2** | **5221629-5** |
| 1 Watt, 93 Ohm | — | **5221629-6** |
| 0.5 Watt, 75 Ohm | — | — |
| 1 Watt, 50 Ohm | **1-5221629-6**[1] | — |

[1] Tether is conductive with #4 stud size

### Insulated Terminators

**Insulation Material**
Polyphenylene oxide

**Long Cover**







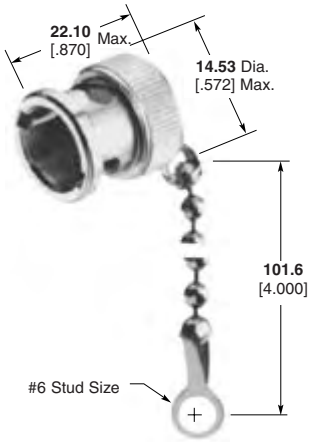
**Short Cover***

| 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

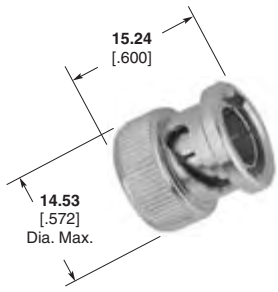
| Body Plating | Part No. |
|---|---|
| Silver | **330022** |
| Nickel | **1-330022-2** |




### Shorting Caps

**Plating**

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




**Part No. 413453-1**

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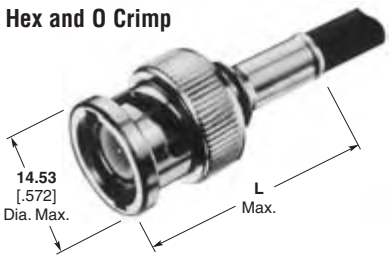
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
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# BNC Connectors, 75 Ohm

## 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 | Polyethelene | Commercial | **29.46** 1.160 | 58425-2 | — | **5413589-8** |
| | O Crimp | Gold | Nickel | Polyethelene | Commercial | **35.56** 1.140 | 318451-2 | — | **5221185-8** |
| AT&T 735A | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **29.46** 1.160 | 58425-2 | — | **1-5413589-0** |
| | O Crimp | Gold | Nickel | Polyethelene | Commercial | **27.69** 1.090 | 58174-1 | 58248-3 | **1-5221185-8** |
| BELDEN 8218 | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **29.46** 1.160 | 58425-2 | — | **5413589-3** |
| | O Crimp | Gold | Nickel | Polyethelene | Commercial | **27.69** 1.090 | 58174-1 | 58248-3 | **5221185-3** |
| 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269 | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **29.46** 1.160 | 58425-1 | — | **5413589-2** |
| | O Crimp | Gold | Nickel | Polyethelene | Commercial | **27.69** 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 | Polyethelene | Commercial | **29.46** 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 | Polyethelene | Commercial | **29.46** 1.160 | 58425-1 | — | **5413589-9** |
| | O Crimp | Gold | Nickel | Polyethelene | Commercial | **27.69** 1.090 | 58536-1 | 58248-2 | **5221185-9** |
| BELDEN 9145, AT&T 734A | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **29.46** 1.160 | 58425-1 | — | **5413589-7** |
| | O Crimp | Gold | Nickel | Polyethelene | Commercial | **27.69** 1.090 | 58536-1 | — | **1-5221185-0** |
| BELDEN 9248, 9114 | O Crimp | Gold | Nickel | Polyethelene | Commercial | **25.65** 1.010 | 58536-1 | — | **5221185-1** |
| 6, 6A | O Crimp | Gold | Nickel | Polyethelene | Commercial | **37.85** 1.490 | 58538-1 | 58248-1 | **5221185-7** |
| BELDEN 8281, 9141, 9231, Western Electric 724, 728, 3049 | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **29.46** 1.160 | 58425-3 | — | **5413589-5** |
| | O Crimp | Gold | Nickel | Polyethelene | Commercial | **28.45** 1.120 | 58538-1 | 58248-1 | **5221185-5** |
| COMM/SCOPE S59 Hec | O Crimp | Gold | Nickel | Polyethelene | Commercial | **28.96** 1.140 | 58536-1 | — | **2-5221185-9** |
| COMM/SCOPE F59 Hec-z | O Crimp | Gold | Nickel | Polyethelene | Commercial | **28.96** 1.140 | 58536-1 | — | **3-5221185-1** |

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COMM/SCOPE is a trademark of Commscope, Inc.

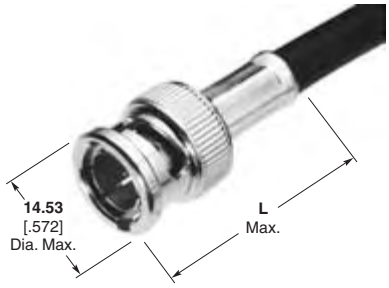
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 75 Ohm (Continued)

### Plugs for JIS Cables, Crimp

#### Plating

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

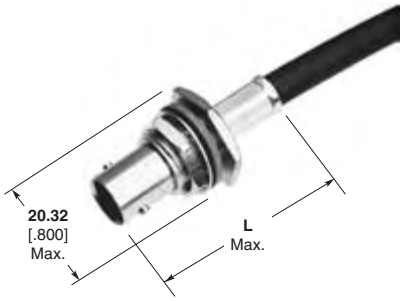



| JIS Cable | Termination Type | Dielectric | Dim. L | Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1 | Part No. |
|---|---|---|---|---|---|
| 3C-2V | Hex Crimp | Polymethylpentene | **29.46**<br>1.160 | 58425-1 | **1-5413589-1** |
| 2.5C-2V | Hex Crimp | Polymethylpentene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



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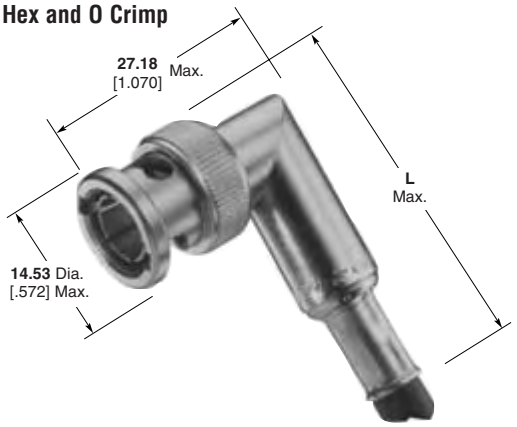
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
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Japan: 81-44-844-8013
UK: 44-8706-080-208

## BNC Connectors, 75 Ohm (Continued)

### Right-Angle Plugs, 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, 187, 187A, 161 BELDEN 9221 | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.45** 1.553 | 58425-2 | — | **5413588-8** |
| AT&T 735A | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.45** 1.553 | 58425-2 | — | **1-5413588-0** |
| AT&T KS 19224 L2, RD179 Double Braid | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.45** 1.553 | 58425-2 | — | **5413588-4** |
| 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269 | Hex Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.45** 1.553 | 58425-1 | — | **5413588-2** |
| | O Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.88** 1.570 | 58536-1 | 58248-2 | **5221402-2** |
| 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 | **39.45** 1.553 | 58425-1 | — | **5413588-9** |
| BELDEN 9145, AT&T 734A | O Crimp | Gold | Nickel | Polymethyl-pentene | Commercial | **39.88** 1.570 | 58536-1 | — | **5221402-4** |

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## 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 | Polyethelene | Commercial | **33.02** 1.300 | 58425-2 | — | **5413760-8** |
| | O Crimp | Gold | Nickel | Polyethelene | Commercial | **30.48** 1.200 | 318451-2 | — | **5221199-5** |
| BELDEN 8218 | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **33.02** 1.300 | 58425-2 | — | **5413760-3** |
| 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269 | O Crimp | Gold | Nickel | Polyethelene | Commercial | **30.48** 1.200 | 58536-1 | 58248-2 | **5221199-2** |
| 302, BELDEN 88241, 89269, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-62 | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **33.02** 1.300 | 58425-1 | — | **5413760-1** |
| BELDEN 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG 59 Type with 20 AWG C.C.) | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **33.02** 1.300 | 58425-1 | — | **5413760-9** |
| BELDEN 9248, 9114 | O Crimp | Gold | Nickel | Polyethelene | Commercial | **30.48** 1.200 | 58536-1 | — | **5221199-1** |

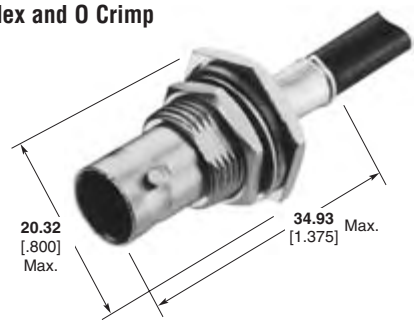
BELDEN is a trademark of Belden Wire and Cable Company.

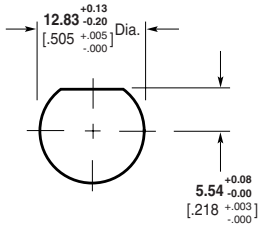
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## 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 | **36.83** 1.450 | 58425-2 | — | **5413590-8** |
| | O Crimp | Gold | Nickel | Polyethelene | Commercial | **34.93** 1.375 | 318451-2 | — | **5221221-5** |
| AT&T KS 19224 L2, RD179 Double Braid | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **36.83** 1.450 | 58425-2 | — | **5413590-4** |
| BELDEN 8218 | Hex Crimp | Gold | Nickel | Polyethelene | Commercial | **36.83** 1.450 | 58425-2 | — | **5413590-3** |
| 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269 | O Crimp | Gold | Nickel | Polyethelene | Commercial | **34.93** 1.375 | 58536-1 | 58248-2 | **5221221-2** |
| 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 | **34.93** 1.375 | 58536-1 | 58248-2 | **5221221-7** |
| BELDEN 9114, 9248 | O Crimp | Gold | Nickel | Polyethelene | Commercial | **34.93** 1.375 | 58536-1 | — | **5221221-1** |

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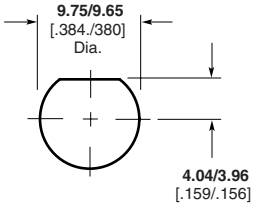
**Note:** Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

## BNC Connectors, 75 Ohm (Continued)

### Bulkhead Solder Jacks Front Mount

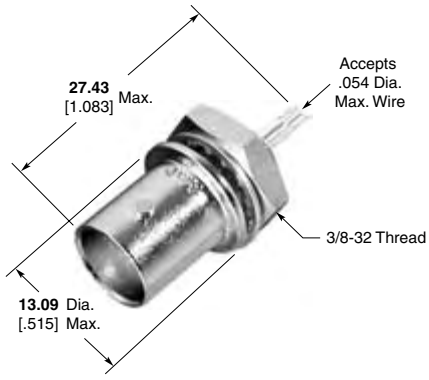
**Plating**

**Body** — Nickel
**Center Contact** — Silver




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

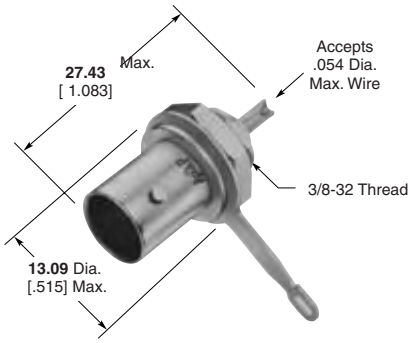
**Recommended Panel Cutout**




**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).

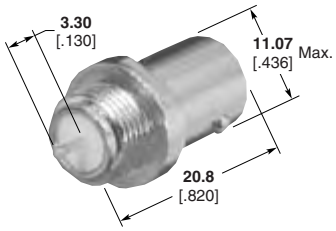



**Part No. 5221244-1**

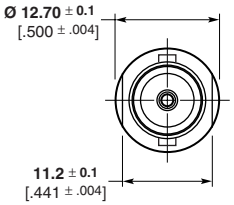
**(with Solder Terminal)**

**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**

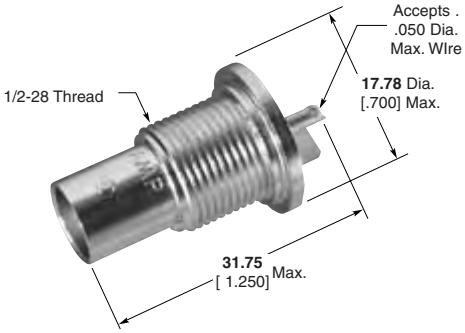



### Bulkhead Solder Jack Rear Mount

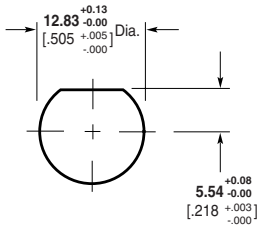
Lockwasher and Jam Nut see page 73.

**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.



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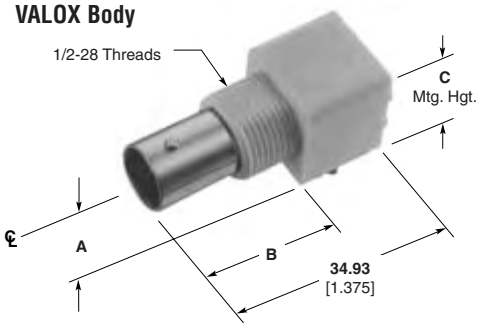
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

## BNC Connectors, 75 Ohm (Continued)

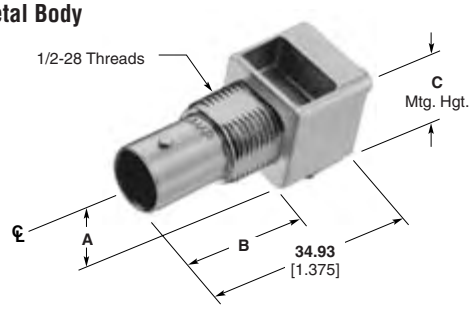
### Right-Angle Jacks PC Board/Panel Mount

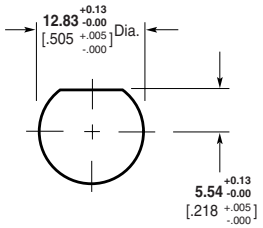
**Outer Shell** — Nickel
**Dielectric** — Polymethylpentene
Lockwasher and Jam Nut see page 73.

**VALOX Body**



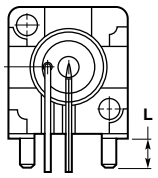

**Metal Body**




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

**Recommended Panel Cutout**



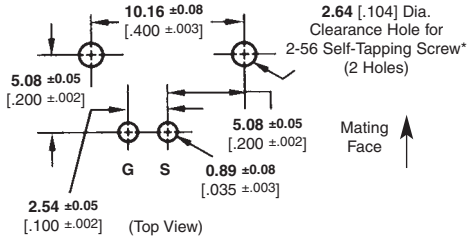

| Body Material | Center Contact Plating | Dimensions A | B | C | L | Part No. Without Mounting Posts | With Mounting Posts |
|---|---|---|---|---|---|---|---|
| VALOX, Black w/ Compliant Posts (Economy)* | Gold3 | **6.17** .243 | **21.21** .835 | **11.68** .460 | **2.79** .110 | — | **5415105-2** |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

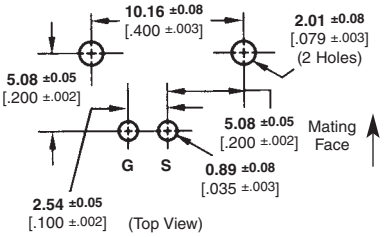
**Plating:**
Gold1 — 0.00076 [.000030] thick
Gold2 — 0.00127 [.000050] thick
**Note:** If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

**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.**

VALOX is a trademark of General Electric Company.

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



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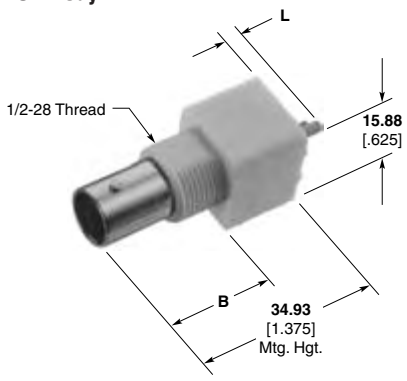
## BNC Connectors, 75 Ohm (Continued)

### Vertical Jacks
### PC Board/Panel Mount

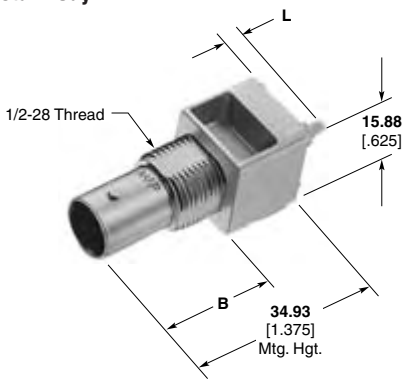
**Plating**

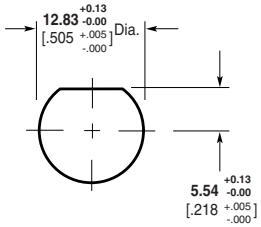
**Outer Shell** — Nickel
**Dielectric** — Polymethylpentene

**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 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 [.000030] thick

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

**Lockwasher and Jam Nut**

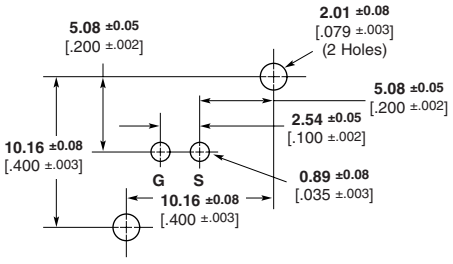


**Part No. 1-329632-2**



**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.



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Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

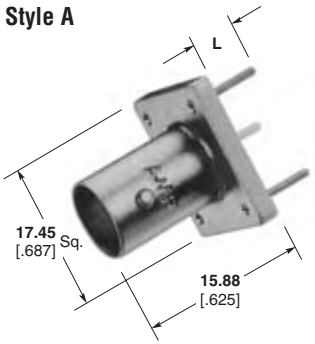
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
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## BNC Connectors, 75 Ohm (Continued)

### Vertical Metalized Jacks PC Board Mount

**Plating**
**Dielectric** — PTFE

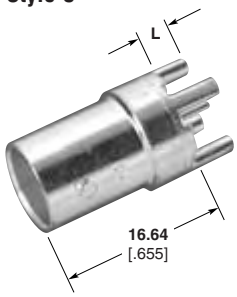
**Style A**

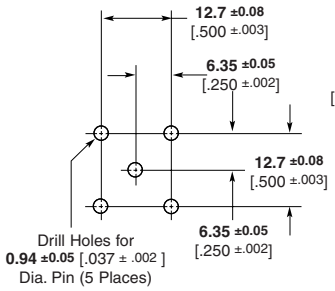


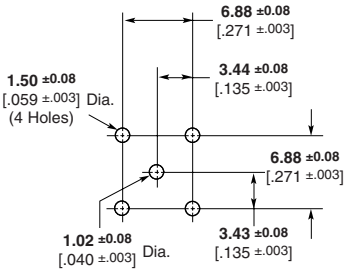

**Style B**

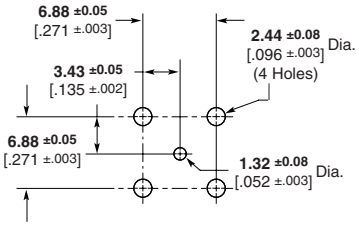



**Style C**



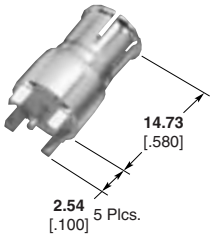



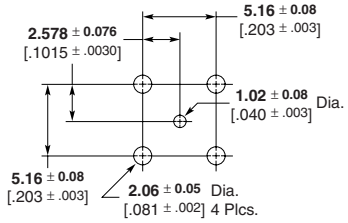




**Recommended PC Board Layout**

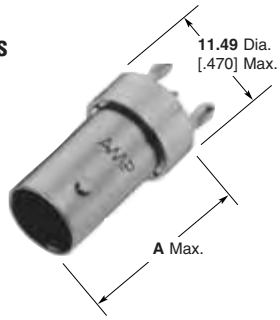
### Style F (Push-On)

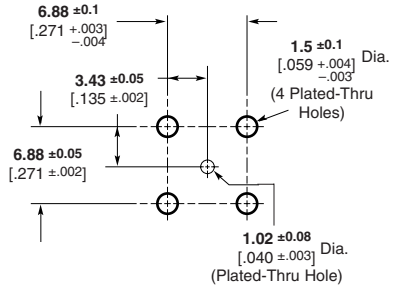



| Body Plating | Center Contact Plating | Style | Leg Length L | Part No. |
|---|---|---|---|---|
| Nickel | Gold | B | 3.30 .130 | 6274291-2 |
| Tin | Gold | B | 3.30 .130 | 6274291-1 |
| Tin | Gold | B | 6.35 .250 | 6274359-1 |
| Tin | Gold | C | 4.44 .175 | 5414394-1 |
| Nickel | Silver | A | 6.35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

### Press Fit Vertical Metalized Jacks PC Board Mount



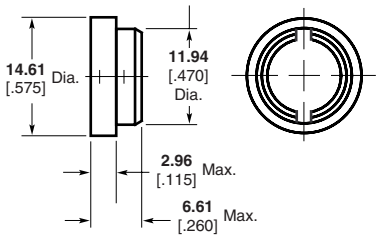




**Recommended PC Board Layout**

| Dim. A | Part No. |
|---|---|
| 20.57 .810 | 5222462-1 |
| 16.26 .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.



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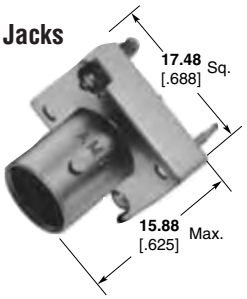
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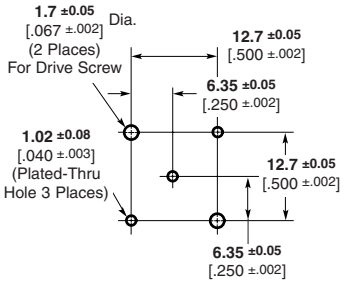
USA: 1-800-522-6752
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UK: 44-8706-080-208

## BNC Connectors, 75 Ohm (Continued)

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



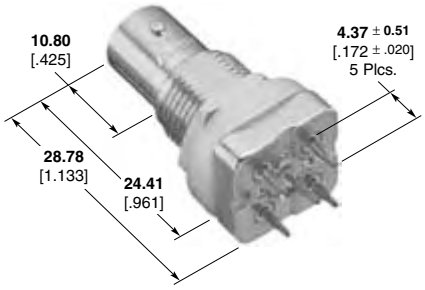




**Recommended PC Board Layout**

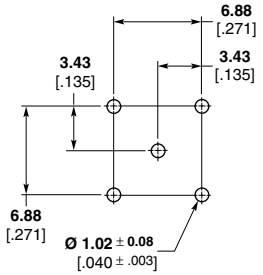
| PC Board Thickness (Min.) | Part No. |
|---|---|
| 2.36 .093 | 5221336-3 |
| 3.17 .125 | 5221336-4 |

### Press Fit, Bulkhead Vertical Metalized Jack

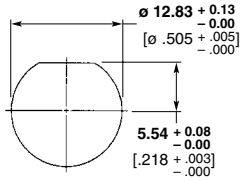
**includes hardware**




**Part No. 6274124-2**

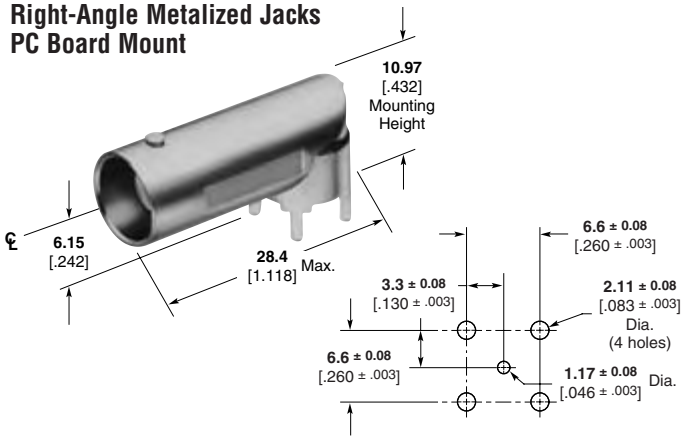



Holes Plated
Through 5 Plcs.




**Recommended PC Board Layout**

### Right-Angle Metalized Jacks PC Board Mount

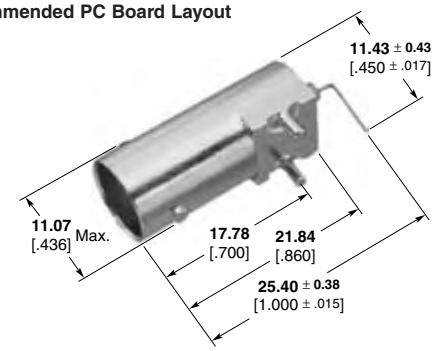


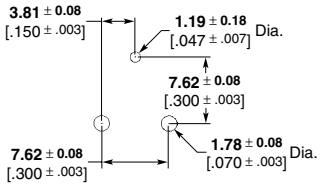

Maximum PC Board Thickness **2.54** [.100]

**Recommended PC Board Layout**

| Body Plating | Dielectric | Contact Plating | Center Contact Dimension | Part No. |
|---|---|---|---|---|
| Nickel | TPX | Gold2 | .171 [.007] | **5413558-1** |
| Tin | PTFE | Gold2 | .171 [.007] | **5413558-2** |
| Nickel | TPX | Gold2 | .131 [.005] | **5413558-3** |
| Nickel | TPX | Gold1 | .171 [.007] | **5413558-5** |

Gold1 — 0.00076 [.000030] thick
Gold2 — 0.00127 [.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.



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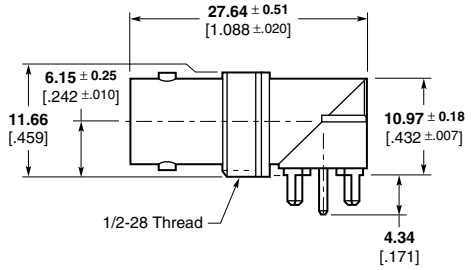
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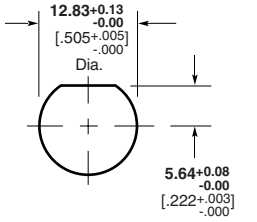
USA: 1-800-522-6752
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UK: 44-8706-080-208

## BNC Connectors, 75 Ohm (Continued)

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



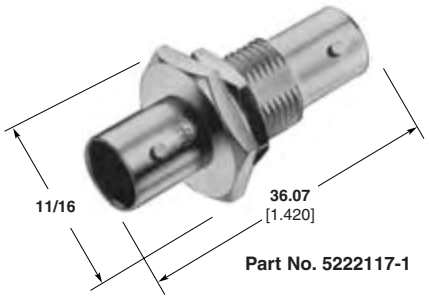

Maximum Panel Thickness **6.35** [.250]
**Recommended Panel Cutout**

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

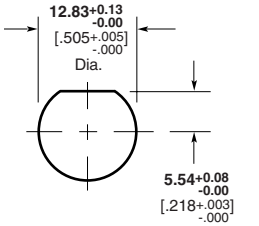
### Bulkhead Jack-Jack Adapter

#### Plating

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




**Part No. 5222117-1**

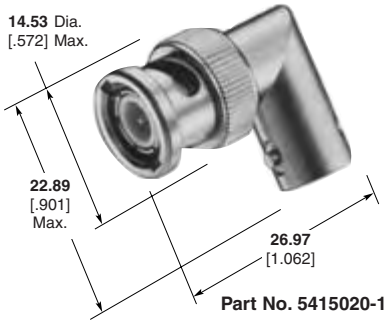



Maximum Panel Thickness **6.35** [.250]
**Recommended Panel Cutout**

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

#### Plating

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

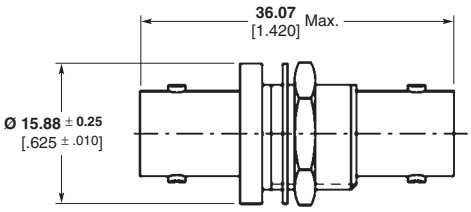


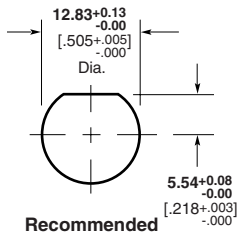

**Part No. 5415020-1**

### Bulkhead Jack-Jack Adapter

#### Plating

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



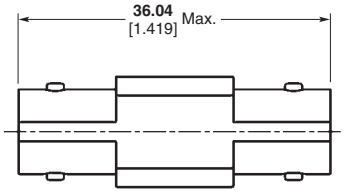

**Recommended Panel Cutout**

**Part No. 1274935-1**

### Jack-Jack Adapter

#### Plating

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




**Part No. 415567-1**

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



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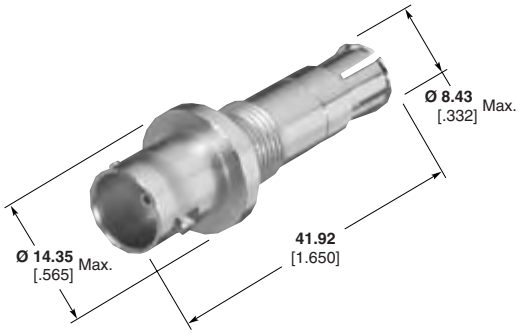
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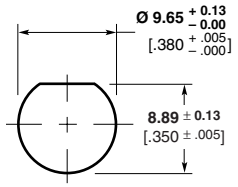
South America: 55-11-2103-6000
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## BNC Connectors, 75 Ohm (Continued)

### Bulkhead Jack-Push On Plug Adapter




Part No. 1274007-1




Recommended Panel Cutout

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