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.

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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/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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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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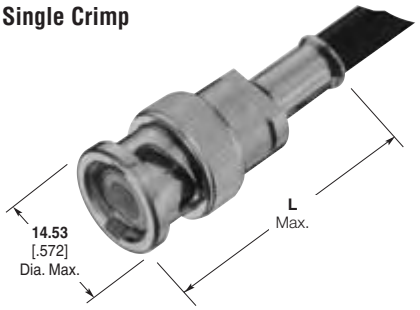
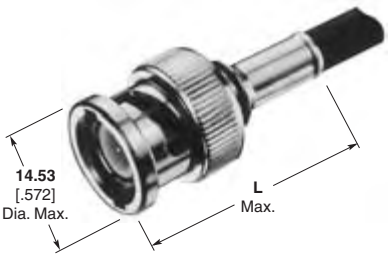
BNC Connectors, 50 Ohm

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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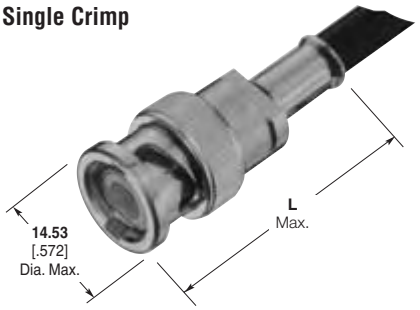
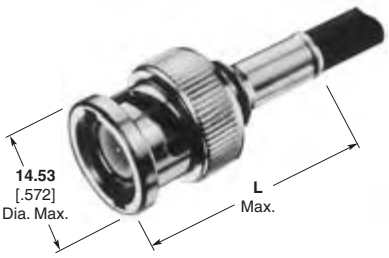
BNC Connectors, 50 Ohm (Continued)

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.

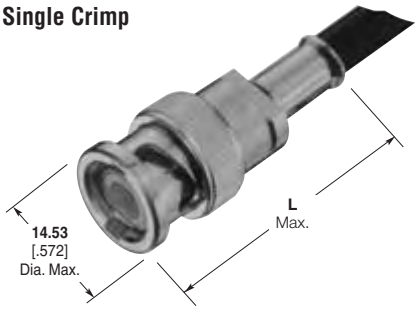
BELDEN is a trademark of Belden Wire and Cable Company.
BERK-TEK is a trademark of Nexans, Inc.
COMM/SCOPE is a trademark of Commscope, Inc.

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

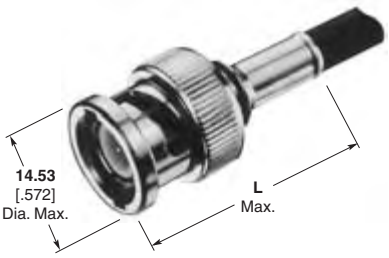
BNC Connectors, 50 Ohm (Continued)

Plugs, Crimp (Continued)

Single Crimp



Hex and O Crimp



RG/U Cable	Termination Type	Body Plating	Dielectric	Style	Dim. L	CERTI-CRIMP Hand Tool with Integral Die	Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1	Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1	Part No.
124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, BELDEN 9291, 9209, 9269	Hex Crimp	Nickel	Polyethylene	Commercial	**33.53** 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

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

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

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

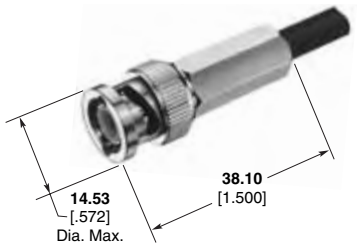
BNC Connectors, 50 Ohm (Continued)

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.

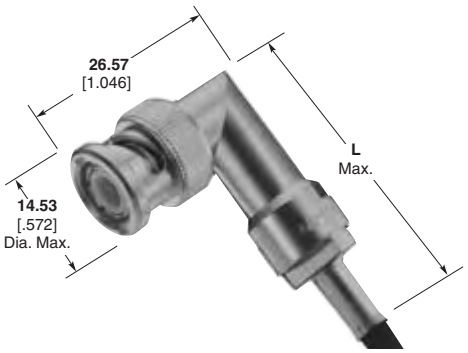
Mating Twist-On Jack — Page 52



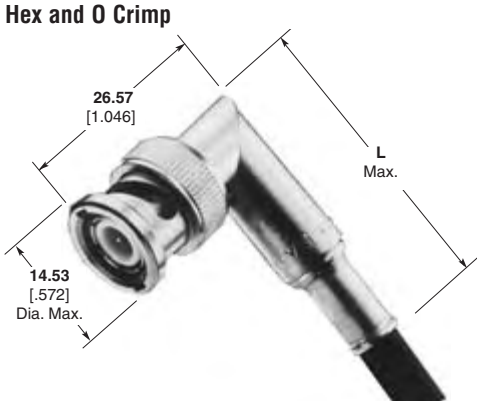
RG/U Cable	Contact Plating	Body Plating	Dielectric	Style	Part No.
59, 59A, 59B	Gold	Nickel	Polymethyl-pentene	Commercial	**5414265-3**

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**

BELDEN is a trademark of Belden Wire and Cable Company.
COMM/SCOPE is a trademark of Commscope, Inc.

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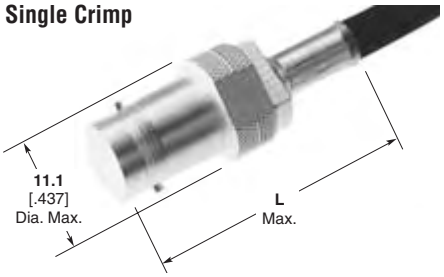
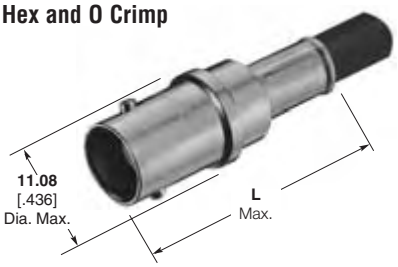
BNC Connectors, 50 Ohm (Continued)

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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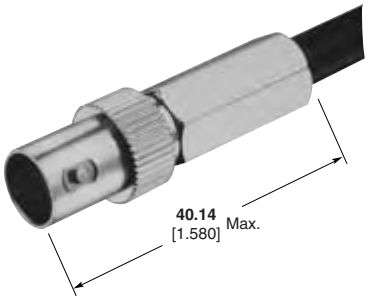
BNC Connectors, 50 Ohm (Continued)

Jacks, Twist-On

Related Product Data

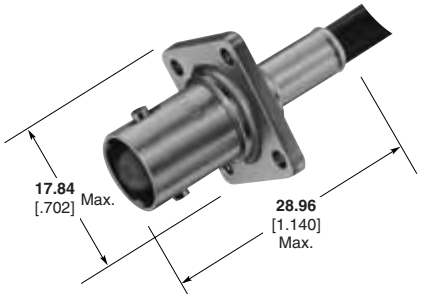
Twist-on jacks must be used with cable that has a solid conductor. These jacks are not recommended for applications where the cable frequently moves or flexes.

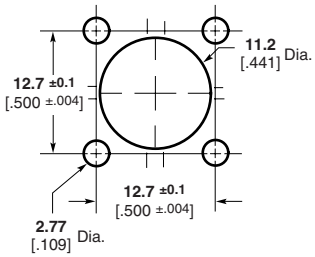
Mating Twist-On Plug — Page 50



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**

BELDEN is a trademark of Belden Wire and Cable Company.

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

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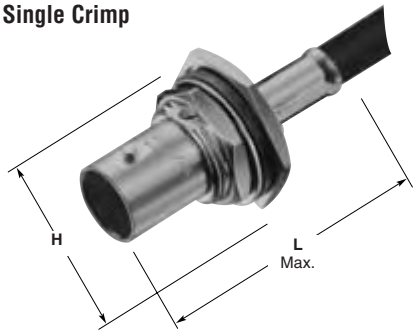
BNC Connectors, 50 Ohm (Continued)

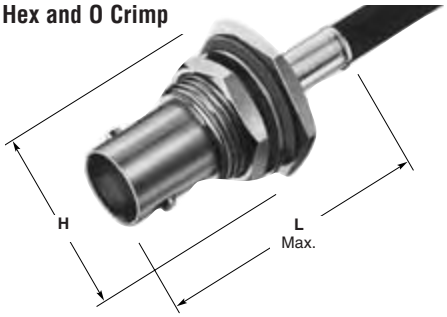
Bulkhead Jacks, Crimp

Note: Panel Insulating Bushings — Page 54

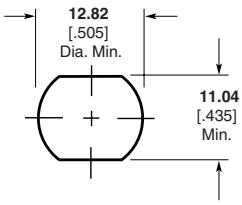
Single Crimp

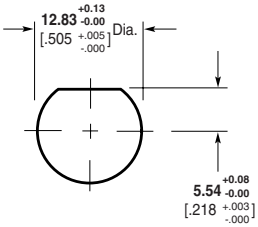


Hex and O Crimp



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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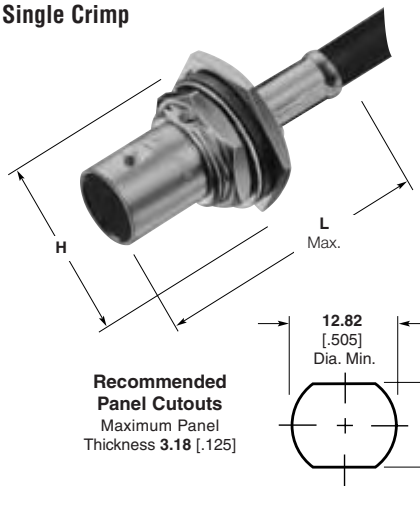
BNC Connectors, 50 Ohm (Continued)

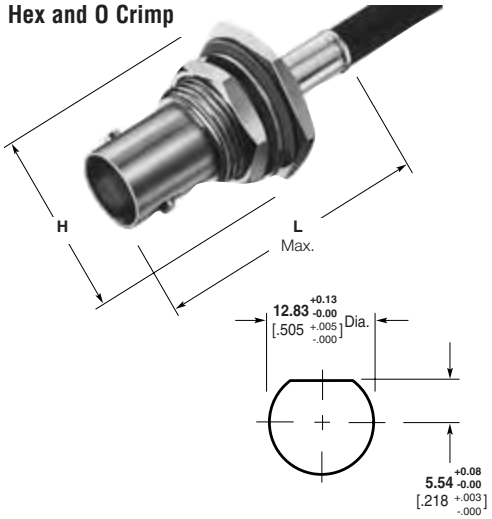
Bulkhead Jacks, Crimp (Continued)

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

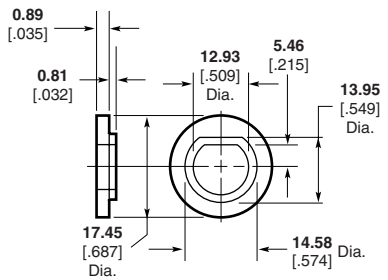
RG/U Cable	Termination Type	Center Contact Plating	Body Plating	Dielectric	Style	Dim. L	CERTI-CRIMP Hand Tool with Integral Die	Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1	Interchangeable Dies for Hand Tool 69710-1 & 626 Pneu. Head 318161-1	Part No.
58, 58A, 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.

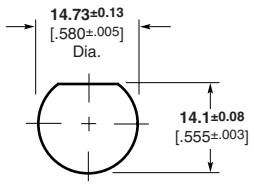
Panel Insulating Bushings for Bulkhead Jacks

Material — Nylon

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



Part No. 330620 (2 Required)



Recommended Panel Cutout

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COMM/SCOPE is a trademark of Commscope, Inc.

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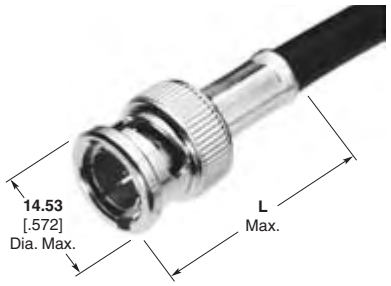
UK: 44-8706-080-208

BNC Connectors, 50 Ohm (Continued)

Plugs, for JIS Cables, Crimp

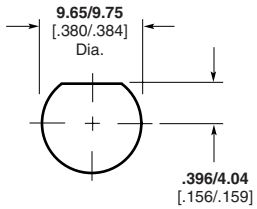
Plating
Body — Nickel
Center Contact — Gold



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** 1.320	58436-1	**3-5221128-1**

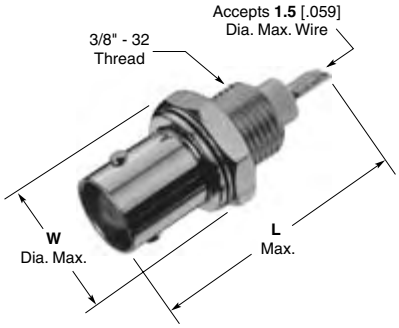
Bulkhead Solder Jacks, Front Mount

Body Plating — Nickel

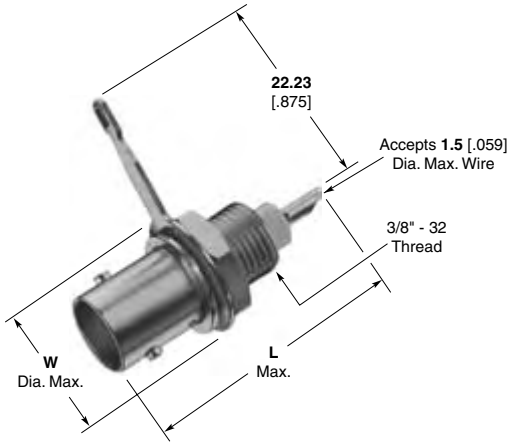


Recommended Panel Cutout

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** 1.060	**13.09** .515	**1.17-3.18** .046-.125	**227223-1** or **221951-1**	**5227754-3**	**5227755-3**
Gold	VALOX	**33.33** 1.312	**13.09** .515	**1.17-6.35** .046-.250	**227223-1** or **221951-1**	—	**5227169-7**
		26.93 1.060	**13.09** .515	**1.17-3.18** .046-.125	**227223-1** or **221951-1**	**5227754-2**	**5227755-2**
	PTFE	**33.33** 1.312	**13.09** .515	**1.17-6.35** .046-.250	**227223-1** or **221951-1**	**5227169-4**	**5227169-8**
		26.93 1.060	**13.09** .515	**1.17-3.18** .046-.125	**227223-1** or **221951-1**	**5227715-3**	**5227716-3**
Tin	VALOX	**33.33** 1.312	**13.09** .515	**1.17-6.35** .046-.250	**227223-1** or **221951-1**	—	**5227169-5**
		26.93 1.060	**13.09** .515	**1.17-3.18** .046-.125	**227223-1** or **221951-1**	**5227754-1**	**5227755-1**

*Includes lockwasher and jam nut.
**Includes solder terminal and jam nut.

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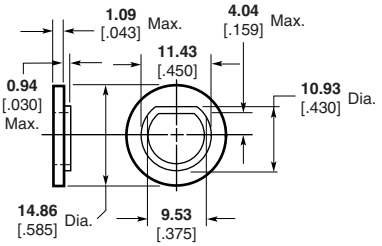
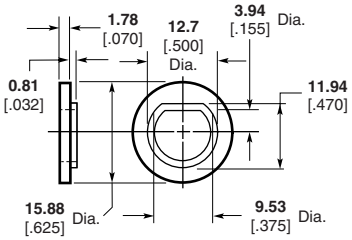
UK: 44-8706-080-208

BNC Connectors, 50 Ohm (Continued)

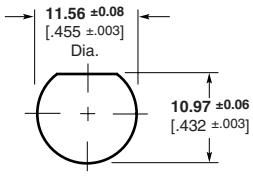
Insulating Bushings



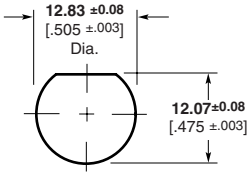
Part No. 227223-1



Part No. 221951-1



Recommended Panel Cutout

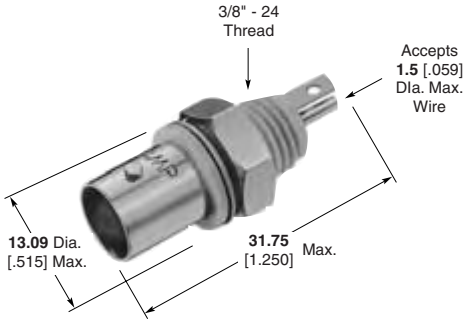


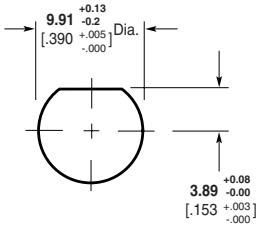
Recommended Panel Cutout

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**

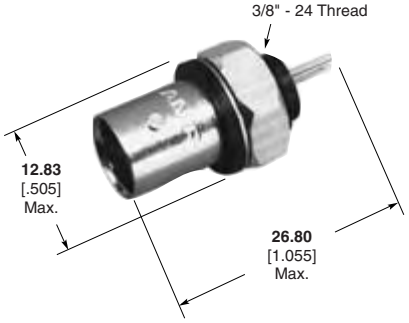




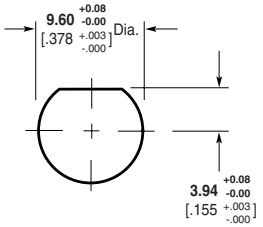
Panel Thickness **1.17-6.35** [.046-.250]

Recommended Panel Cutout

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



Part No. 5414194-1

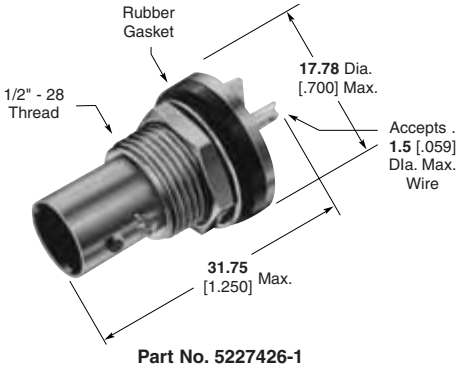


Panel Thickness **1.17-3.18** [.046-.125]

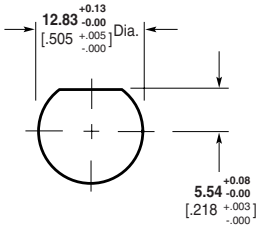
Recommended Panel Cutout

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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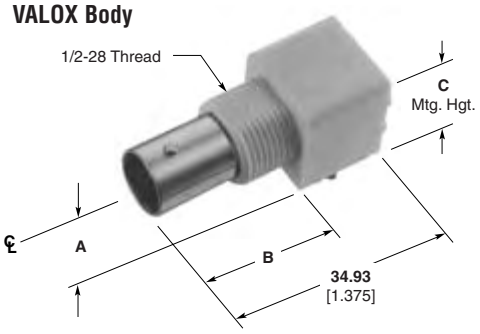
UK: 44-8706-080-208

BNC Connectors, 50 Ohm (Continued)

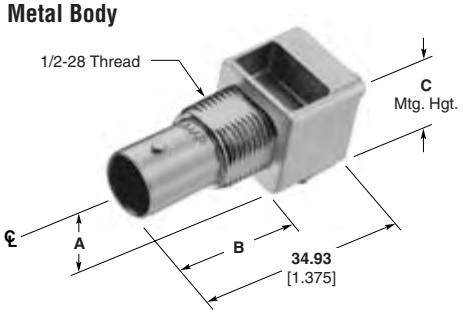
Right-Angle Jacks PC Board/Panel Mount

Body — Nickel
Dielectric — Polymethylpentene

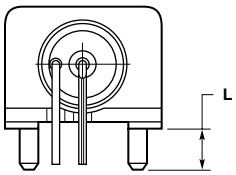
VALOX Body



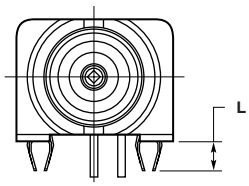
Metal Body

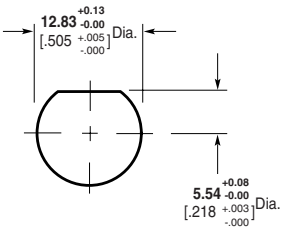


Mounting Post Style



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

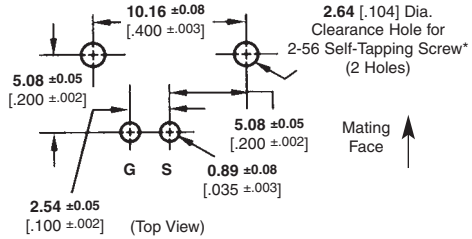
Plating:
Gold1 — 0.00076 [.000030] thick
Gold2 — 0.00127 [.000050] thick
Note: If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

Lockwasher and Jam Nut

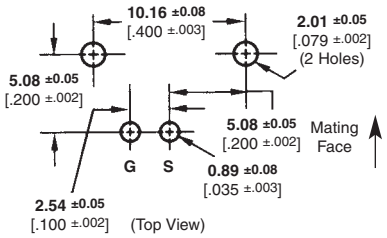
Part No. 1-329632-2

Part No. 1-329631-2

Without Mounting Posts



With Mounting Posts



Recommended PC Board Layouts

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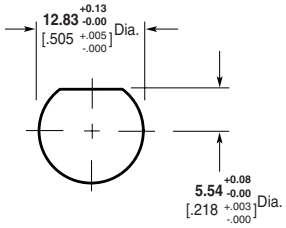
BNC Connectors, 50 Ohm (Continued)

Vertical Jacks PC Board/Panel Mount

Plating
Body — Nickel
Dielectric — Polymethylpentene



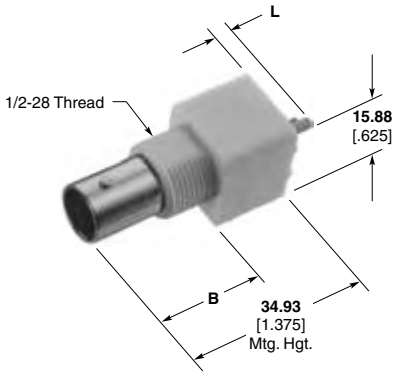
Maximum Panel Thickness **6.1** [.240]

Recommended Panel Cutout

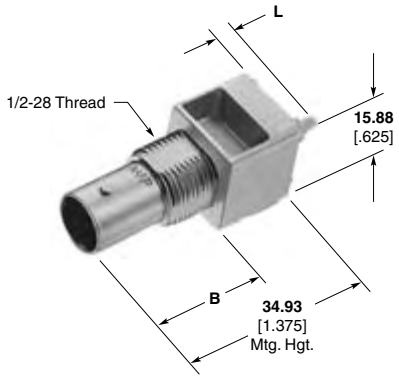
Lockwasher and Jam Nut

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

VALOX Body



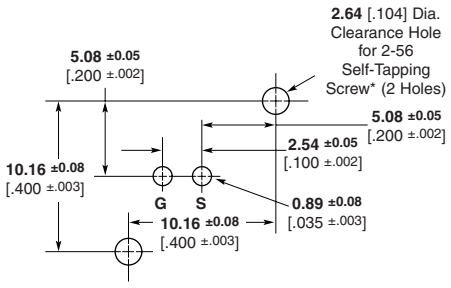
Metal Body



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**

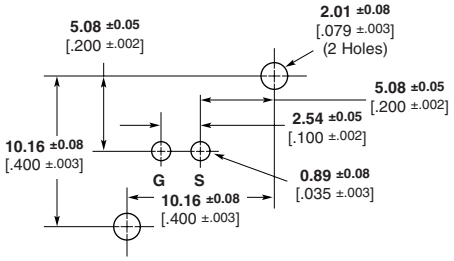
Note: If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

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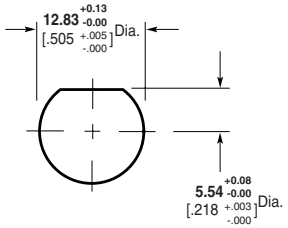
Japan: 81-44-844-8013
UK: 44-8706-080-208

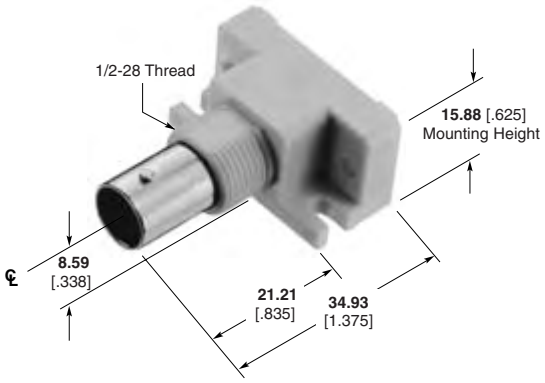
BNC Connectors, 50 Ohm (Continued)

Jacks with Mounting Flanges PC Board/Panel Mount



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

Recommended Panel Cutout

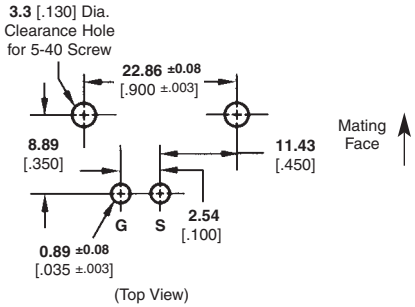


Body Material	Center Contact Plating	Part No.
VALOX, White	Tin	**5226978-1**
	Gold	**5226978-3**

Lockwasher and Jam Nut

Part No. 1-329632-2

Part No. 1-329631-2



Recommended PC Board Layout

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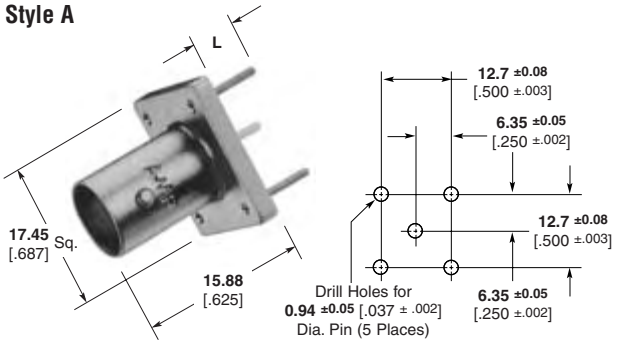
BNC Connectors, 50 Ohm (Continued)

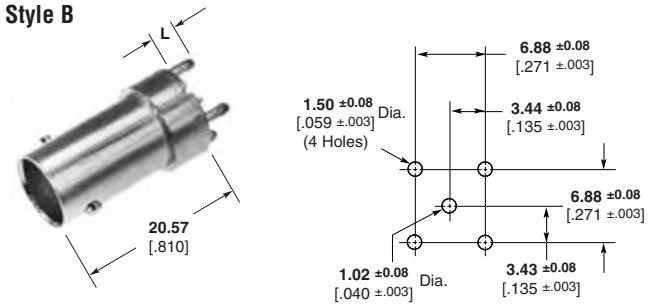
Vertical Metalized Jacks
PC Board Mount

Recommended PC Board Layouts

Style A



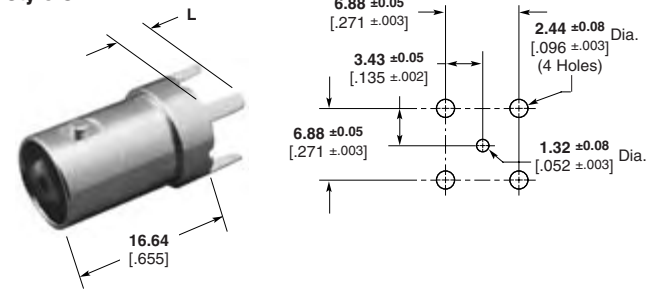
Style B



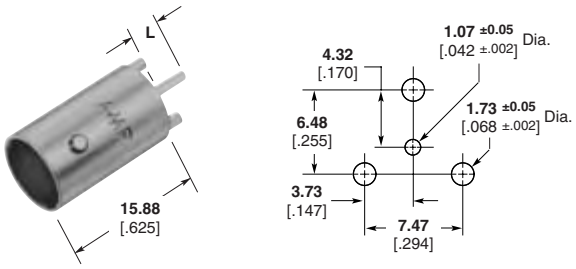
Body Plating	Center Contact Plating	Dielectric	Style	Leg Length L	Part No.
Nickel	Silver	VALOX	A	6.35 .250	5227699-1
	Gold	VALOX	A	6.35 .250	5227699-2
	Tin	VALOX	A	6.35 .250	5227699-3
	Gold	VALOX	A	3.81 .150	5414460-1[1]
	Silver	VALOX	C	4.45 .175	5222420-1
	Gold	VALOX	E	6.35 .250	5415189-1
Tin-Lead	Gold	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.

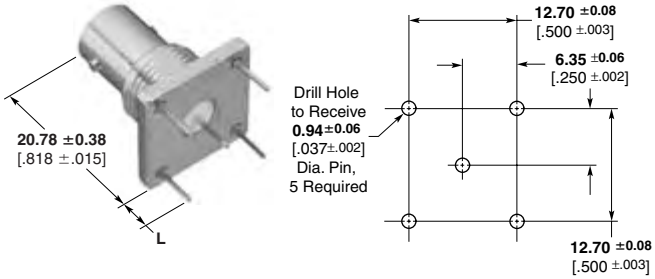
Style C



Style D



Style E (Panel Mount)



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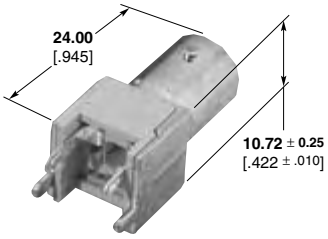
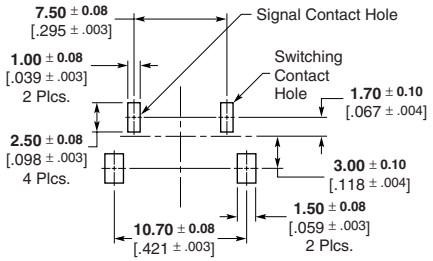
UK: 44-8706-080-208

BNC Connectors, 50 Ohm (Continued)

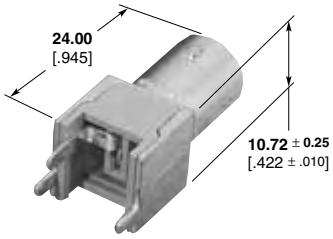
Vertical Metalized Jacks, PC Board Mount



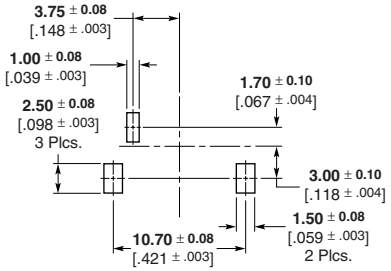
Part No. 1274314-1
(Switching)



Recommended
PC Board Layout



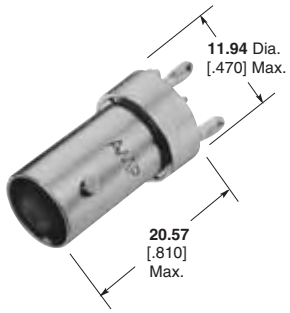
Part No. 1274315-1



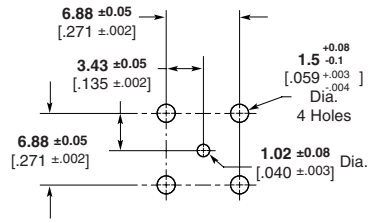
Recommended
PC Board Layout

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



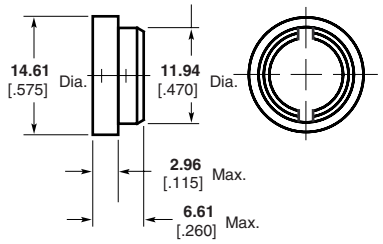
Part No. 5222006-1



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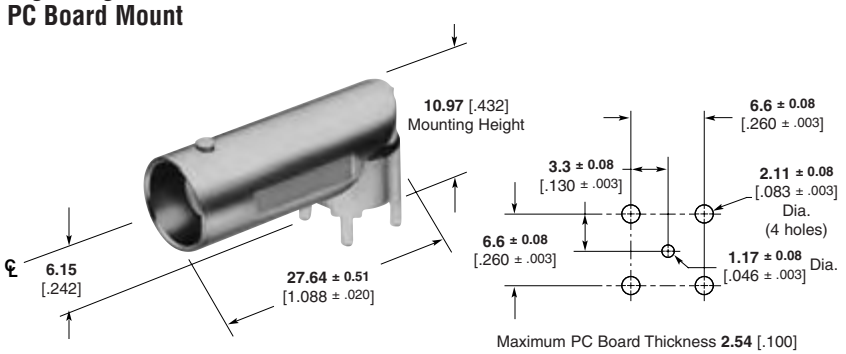
Japan: 81-44-844-8013
UK: 44-8706-080-208

BNC Connectors, 50 Ohm (Continued)

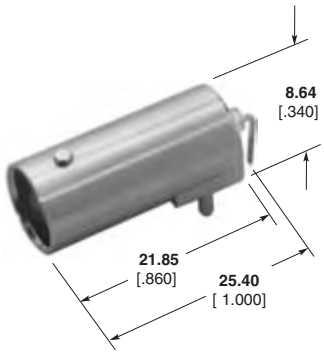
Right-Angle Metalized Jacks, PC Board Mount

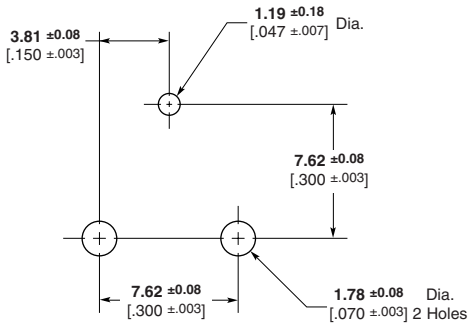


Maximum PC Board Thickness **2.54** [.100]

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**

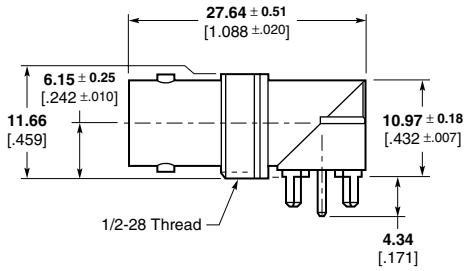




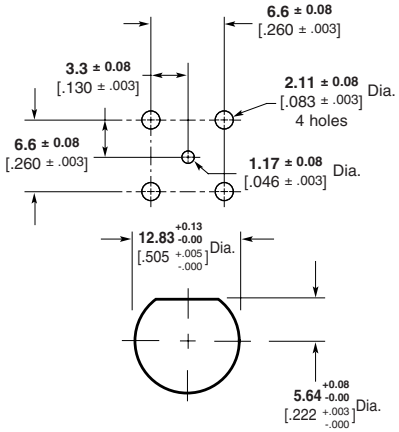
Recommended PC Board Layouts

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.

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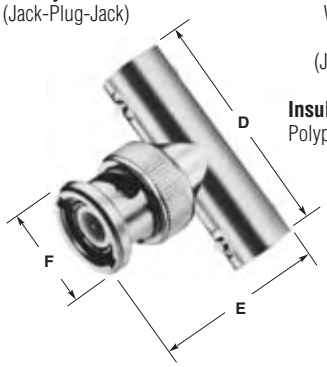
BNC Connectors, 50 Ohm (Continued)

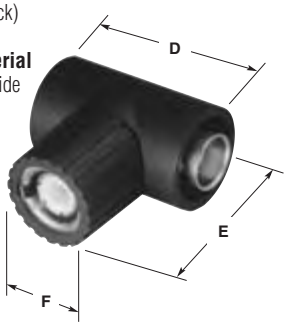
Tee Adapters

Style A
(Jack-Plug-Jack)

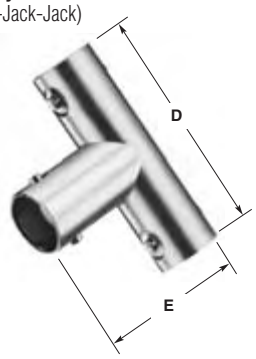


Style B
With Insulated Cover
(Jack-Plug-Jack)

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**

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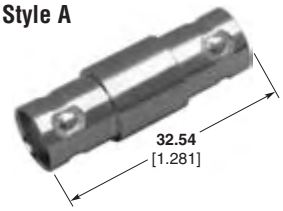
UK: 44-8706-080-208

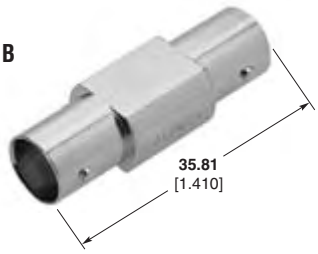
BNC Connectors, 50 Ohm (Continued)

Jack-Jack Adapters

Style A

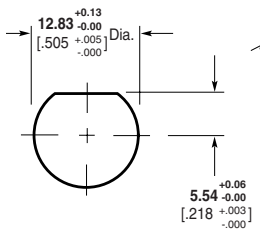


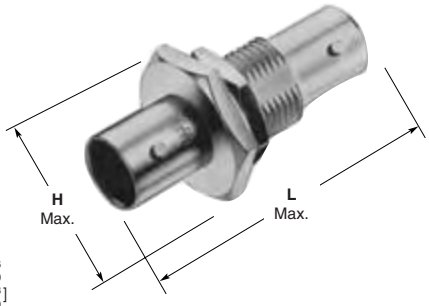
Style B



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





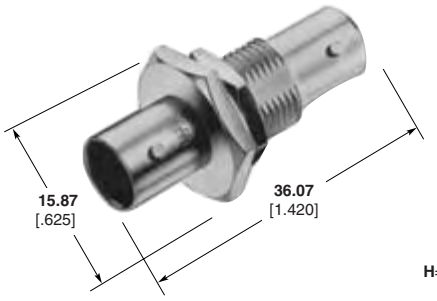
Body Plating	Center Contact Plating	Dimensions H	Dimensions L	Dielectric	Part No.
Nickel	Silver	**17.45** .687	**38.10** 1.500	PTFE	**330024**
Nickel	Gold1	**17.78** .700	**36.07** 1.420	Poly-ethylene	**5228226-1**
Nickel	Gold2	**17.78** .700	**36.07** 1.420	Poly-ethylene	**5228226-3**

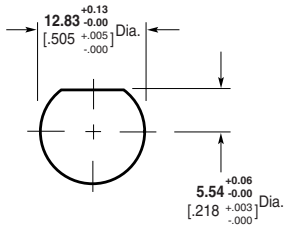
Plating:
Gold1 — 0.00127 [.000050] thick Gold2 — 0.00076 [.000015] thick
Note: If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

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

Isolated Bulkhead Jack-Jack Adapter

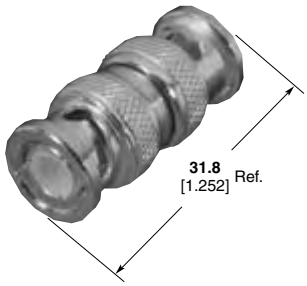
Body Plating	Center Contact Plating	Dielectric	Part No.
Nickel	Gold	Polymethylpentene	**5414105-1**





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

Plug-Plug Adapter

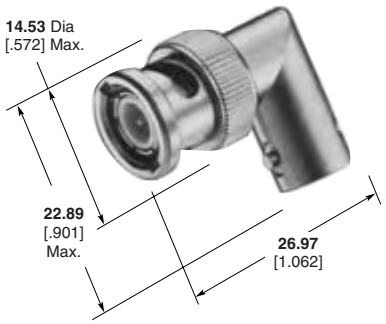


Contact Plating	Body Plating	Part No.
Gold	Nickel	**415796-1**

Right-Angle Adapters

(Jack-Plug)

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



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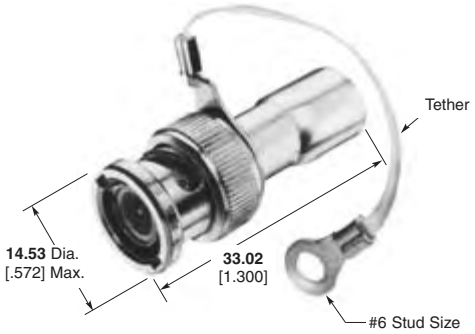
BNC Connectors, 50 Ohm (Continued)

Terminator Plugs 50, 75, 93 Ohm

Plating

Body — Nickel
Center Contact — Gold
Dielectric — Polyethylene



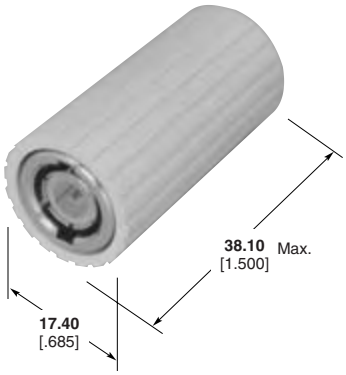
Resistor Specification	Part No.	
	With Tether	Without Tether
1 Watt, 50 Ohm	**5221629-1**	**5221629-4**
1 Watt, 75 Ohm	**5221629-2**	**5221629-5**
1 Watt, 93 Ohm	—	**5221629-6**
0.5 Watt, 75 Ohm	—	—
1 Watt, 50 Ohm	**1-5221629-6**[1]	—

[1] Tether is conductive with #4 stud size

Insulated Terminators

Insulation Material
Polyphenylene oxide

Long Cover



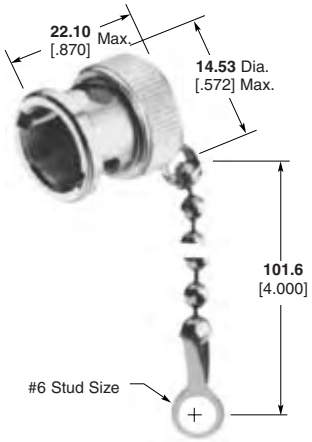
Short Cover*

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

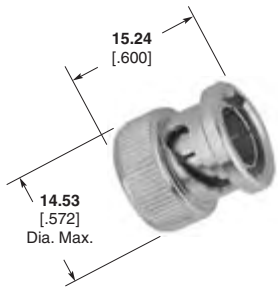
Body Plating	Part No.
Silver	**330022**
Nickel	**1-330022-2**



Shorting Caps

Plating

Body — Nickel
Center Contact — Gold



Part No. 413453-1

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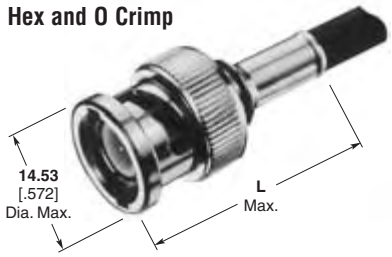
BNC Connectors, 75 Ohm

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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BELDEN is a trademark of Belden Wire and Cable Company.
COMM/SCOPE is a trademark of Commscope, Inc.

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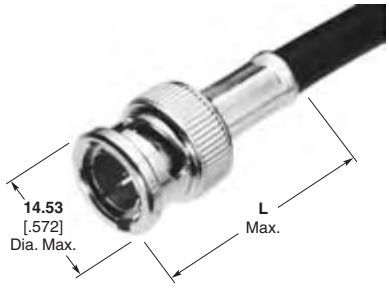
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

BNC Connectors, 75 Ohm (Continued)

Plugs for JIS Cables, Crimp

Plating

Body — Nickel
Center Contact — Gold

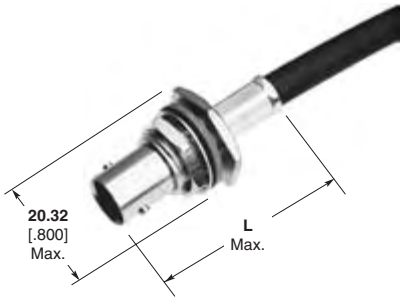


JIS Cable	Termination Type	Dielectric	Dim. L	Interchangeable Dies for PRO-CRIMPER Hand Tool 354940-1 or PRO-CRIMPER Adapter 679304-1	Part No.
3C-2V	Hex Crimp	Polymethylpentene	**29.46** 1.160	58425-1	**1-5413589-1**
2.5C-2V	Hex Crimp	Polymethylpentene	**29.46** 1.160	58425-2	**1-5413589-6**

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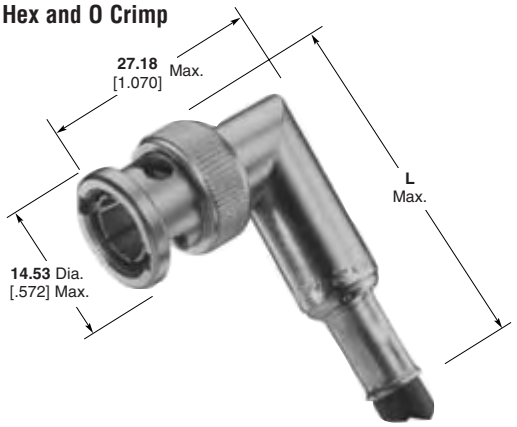
Japan: 81-44-844-8013
UK: 44-8706-080-208

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**

AT&T is a trademark of AT&T Corporation.
BELDEN is a trademark of Belden Wire and Cable Company.

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

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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**

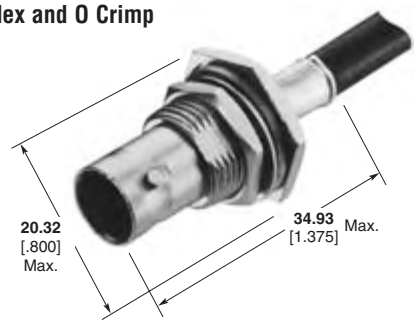
BELDEN is a trademark of Belden Wire and Cable Company.

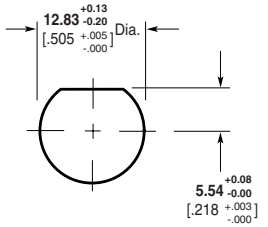
Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.

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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BELDEN is a trademark of Belden Wire and Cable Company.

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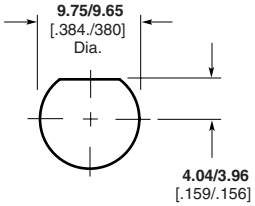
BNC Connectors, 75 Ohm (Continued)

Bulkhead Solder Jacks Front Mount

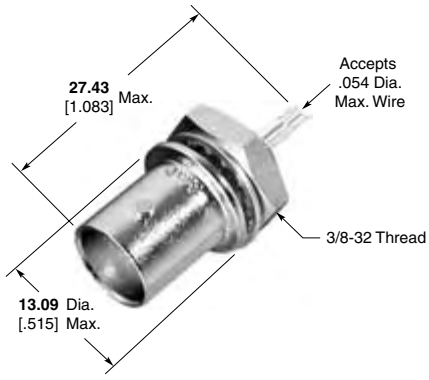
Plating

Body — Nickel
Center Contact — Silver



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

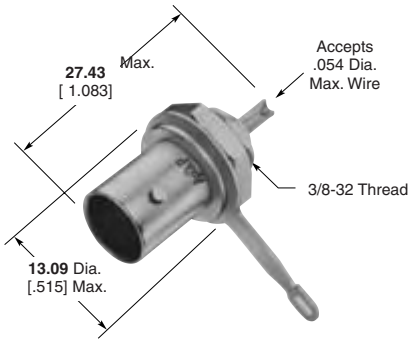
Recommended Panel Cutout



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).

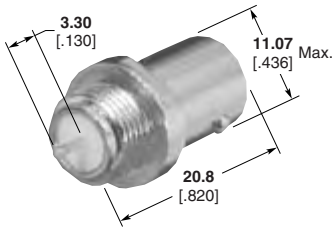


Part No. 5221244-1

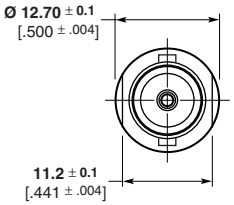
(with Solder Terminal)

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

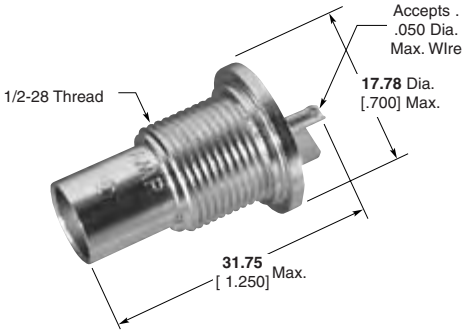


Bulkhead Solder Jack Rear Mount

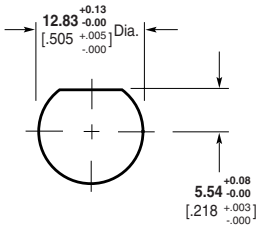
Lockwasher and Jam Nut see page 73.

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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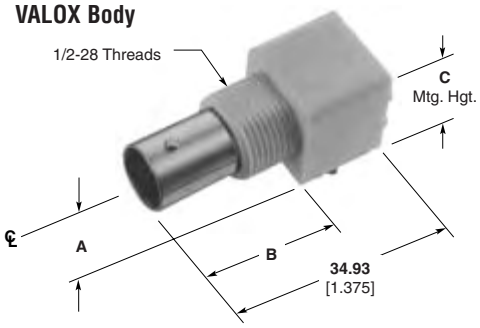
BNC Connectors, 75 Ohm (Continued)

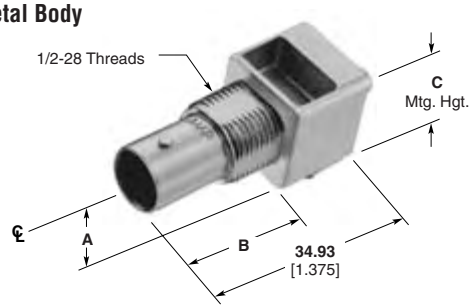
Right-Angle Jacks PC Board/Panel Mount

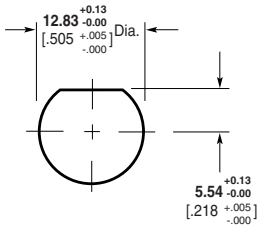
Outer Shell — Nickel
Dielectric — Polymethylpentene
Lockwasher and Jam Nut see page 73.

VALOX Body



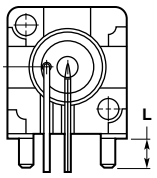
Metal Body





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

Recommended Panel Cutout



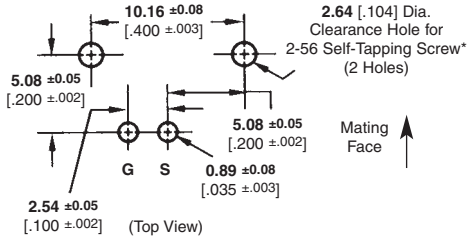
Body Material	Center Contact Plating	Dimensions A	B	C	L	Part No. Without Mounting Posts	With Mounting Posts
VALOX, Black w/ Compliant Posts (Economy)*	Gold3	**6.17** .243	**21.21** .835	**11.68** .460	**2.79** .110	—	**5415105-2**
VALOX, Black (Economy)*	Gold3	**6.17** .243	**21.21** .835	**11.68** .460	**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).

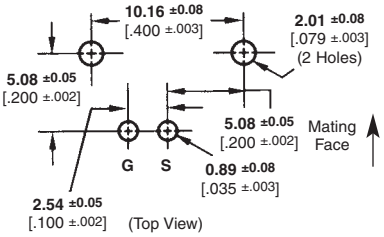
Plating:
Gold1 — 0.00076 [.000030] thick
Gold2 — 0.00127 [.000050] thick
Note: If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

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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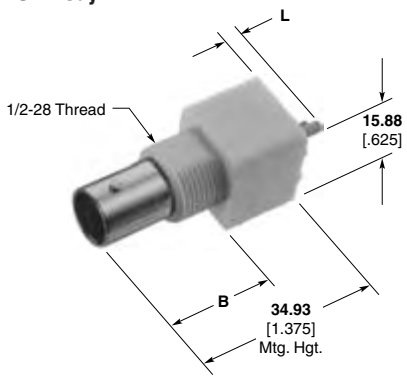
BNC Connectors, 75 Ohm (Continued)

Vertical Jacks PC Board/Panel Mount

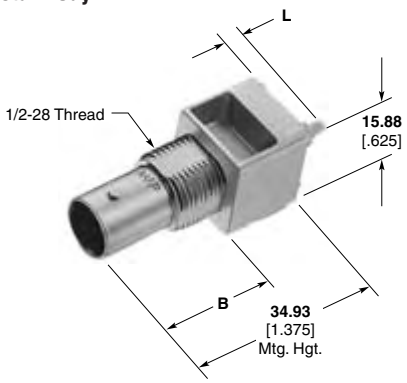
Plating

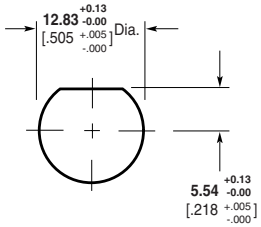
Outer Shell — Nickel
Dielectric — Polymethylpentene

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

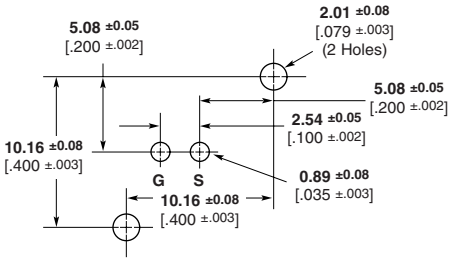
Note: If an Insulating Bushing is required see part number 330620 and Panel Cutout on page 54.

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

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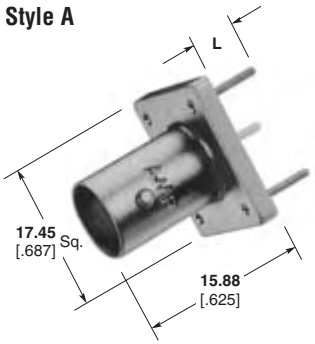
BNC Connectors, 75 Ohm (Continued)

Vertical Metalized Jacks PC Board Mount

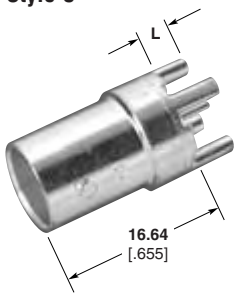
Plating
Dielectric — PTFE

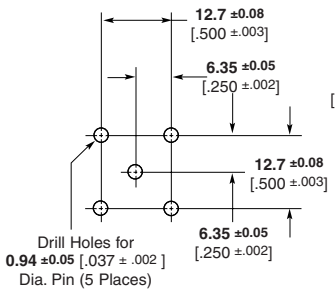
Style A

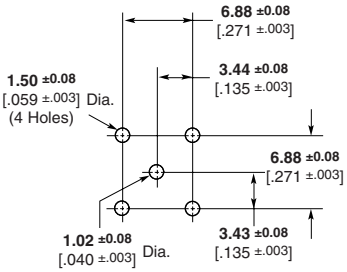


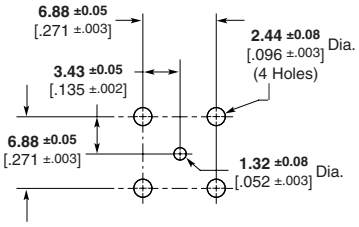
Style B

Style C



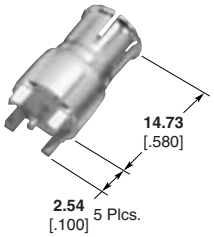


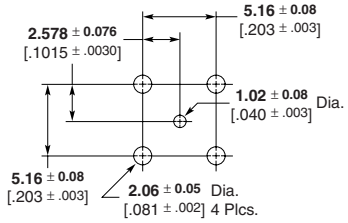




Recommended PC Board Layout

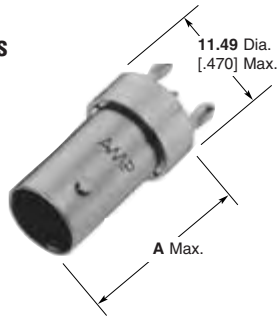
Style F (Push-On)

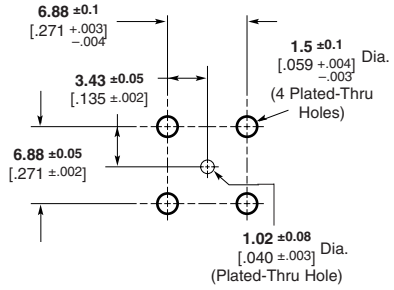




Body Plating	Center Contact Plating	Style	Leg Length L	Part No.
Nickel	Gold	B	3.30 .130	6274291-2
Tin	Gold	B	3.30 .130	6274291-1
Tin	Gold	B	6.35 .250	6274359-1
Tin	Gold	C	4.44 .175	5414394-1
Nickel	Silver	A	6.35 .250	5413986-1
Tin	Gold	F	2.54 .100	6274360-1

Press Fit Vertical Metalized Jacks PC Board Mount



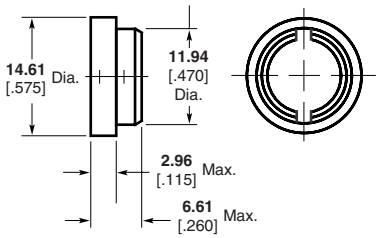


Recommended PC Board Layout

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



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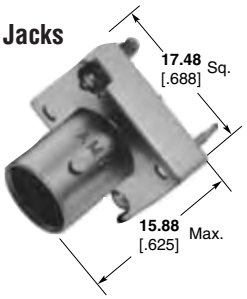
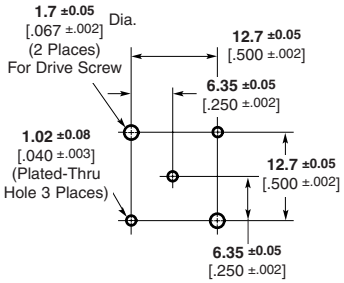
BNC Connectors, 75 Ohm (Continued)

Press Fit
Vertical Metalized Jacks
PC Board Mount
(Continued)

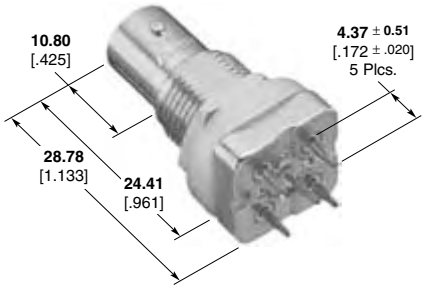




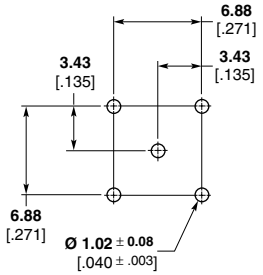
Recommended PC Board Layout

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

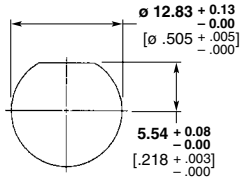
Press Fit, Bulkhead
Vertical Metalized Jack
includes hardware



Part No. 6274124-2

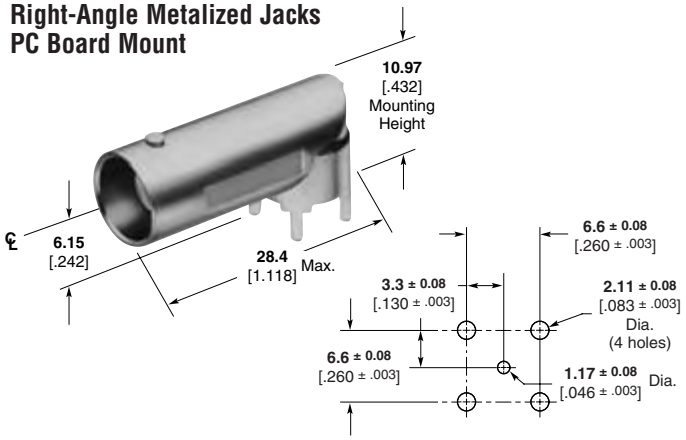


Holes Plated
Through 5 Plcs.



Recommended PC Board Layout

Right-Angle Metalized Jacks
PC Board Mount

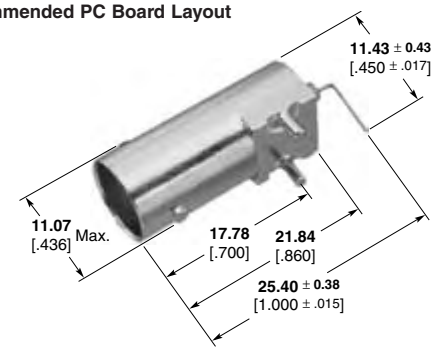


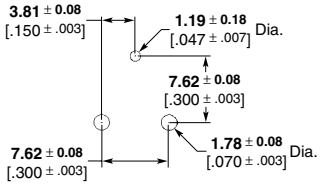
Maximum PC Board Thickness **2.54** [.100]

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.

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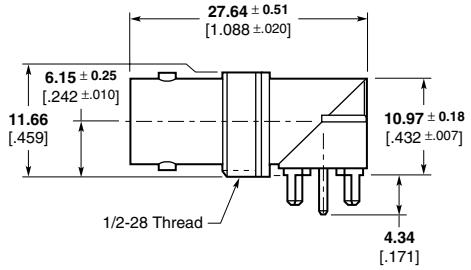
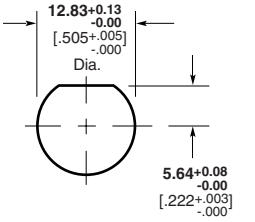
BNC Connectors, 75 Ohm (Continued)

Right-Angle Metalized Jacks PC Board/Panel Mount





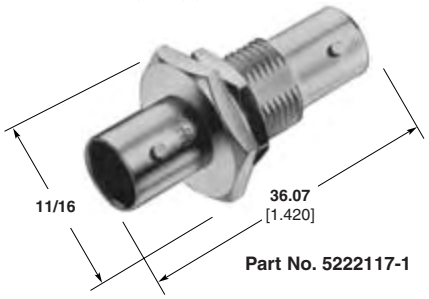
Maximum Panel Thickness **6.35** [.250]
Recommended Panel Cutout

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

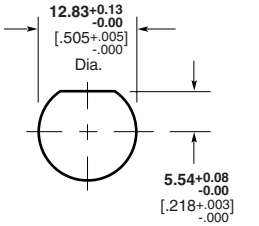
Bulkhead Jack-Jack Adapter

Plating

Body — Nickel
Center Contact — Gold
Dielectric — Polymethylpentene



Part No. 5222117-1

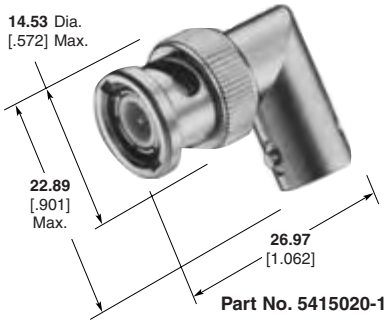


Maximum Panel Thickness **6.35** [.250]
Recommended Panel Cutout

Right-Angle Adapter
(Jack-Plug)

Plating

Body — Nickel
Center Contact — Gold
Dielectric — Polymethylpentene

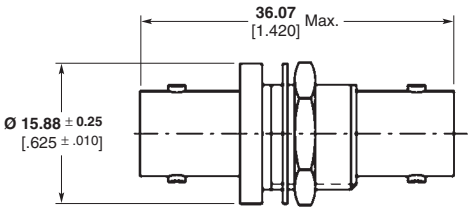


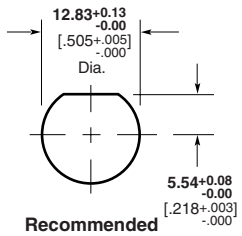
Part No. 5415020-1

Bulkhead Jack-Jack Adapter

Plating

Body — Nickel
Center Contact — Gold
Dielectric — Polymethylpentene





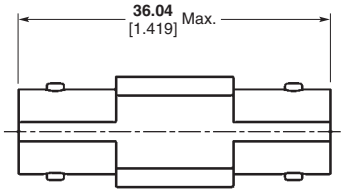
Recommended Panel Cutout

Part No. 1274935-1

Jack-Jack Adapter

Plating

Body — Nickel
Center Contact — Gold
Dielectric — Polymethylpentene



Part No. 415567-1

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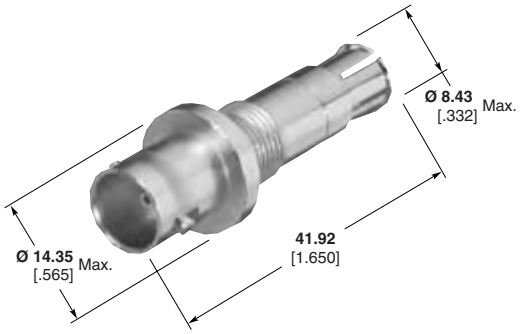
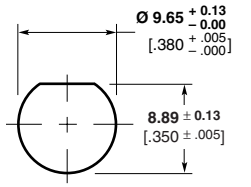
BNC Connectors, 75 Ohm (Continued)

Bulkhead Jack-Push On Plug Adapter



Part No. 1274007-1



Recommended Panel Cutout

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