

Description

Developed in the late 1940's, the BNC is a miniature version of the Type C. BNC stands for Bayonet Neill Concelman and is available in 50 Ohm and 75 Ohm impedance versions.

The BNC product line is a miniature quick connect / disconnect RF connector. It features two bayonet lugs on the female connector; mating is achieved with only a quarter turn of the coupling nut.

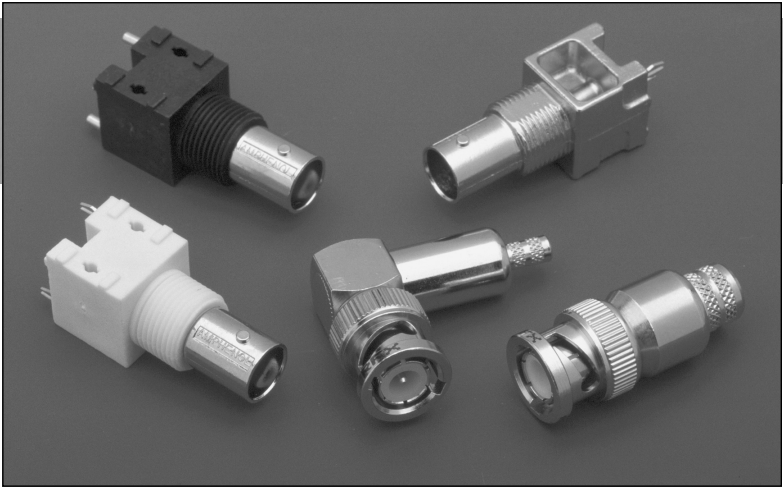
Primary Applications - Ideally suited for cable termination for miniature to subminiature coaxial cable (RG-58, 59, to RG-179, RG-316, etc.)

Features/Benefits

- Bayonet coupling mechanism provides quick mating and unmating.
- 50 and 75 ohm impedance designs allow customers to match impedance to system requirements.
- 50 and 75 ohm connectors are intermateable to ensure nondestructive mating.
- Three grades of connectors are available for military, industrial and commercial applications.

Applications

- Antennas
- Automotive (GPS)
- Base Stations
- Broadcast (75 ohm)
- Cable Assemblies
- Cable Modems
- Components
- Computers/LANs
- Instrumentation
- Network Analyzers
- Oscilloscopes
- Medical Equipment
- Mil-Aerospace
- Networks
- Radios
- Satcom
- Surge Protection
- Telecom



50 ohm  
BNC Cable Connectors

|                    |         |
|--------------------|---------|
| Specifications     | 107     |
| Cable Plugs        | 108-109 |
| Cable Jacks        | 110     |
| Receptacles        | 114-115 |
| PCB Receptacles    | 116-118 |
| Adapters           | 119-121 |
| Caps & Accessories | 122     |

75 ohm

|                        |         |
|------------------------|---------|
| Specifications         | 124     |
| High Performance Plugs | 125-126 |
| Jacks & Receptacles    | 127     |
| PCB Receptacles        | 128-132 |
| Adapters               | 133-134 |

## Description

Amphenol 50 ohm BNC connectors are miniature, lightweight units designed to operate up to 11 GHz and typically yield low reflection through 4 GHz. Designed to accommodate a large variety of RG and industry standard cables, BNC connectors are available in crimp-crimp, clamp-solder, SURETWIST®, and field serviceable termination styles. A full line of printed circuit board receptacles, bulkhead receptacles, resistor terminations, and other accessories complement the product offering.

## Features/Benefits

Amphenol manufactures a full line of BNC connectors to meet all users' needs. Parts which are listed with the appropriate M39012 number in the catalog are **Military Grade** connectors produced in accordance with and actively qualified to the military specification MIL-C-39012. Connectors not listed with the M39012 number constitute the **Industrial Grade** product offering. These connectors provide comparable performance and generally feature nickel plated brass bodies, Teflon insulators, and either gold or silver plated center contacts. Amphenol's **Commercial Grade** connector offering carries the part number designation "RFX" for easy recognition. These low cost connectors typically utilize diecast and molded components. While

performance will not be equal to the Industrial or Military grade products, these connectors are ideal for use on a variety of commercial applications.

Amphenol's 50 ohm BNC connectors (where indicated) are recognized under the Component Program of Underwriter's Laboratories, Inc. They are ideal for use with medical equipment and test instrumentation where safety cannot be compromised.

## Applications

- Computers/LANs
- Test and Measurement
- Medical Equipment
- Telecommunications
- Wireless/Networks



## 50 ohm

|                       |         |
|-----------------------|---------|
| BNC 50 ohm Connectors | 106     |
| Plugs and Jacks       | 108-113 |
| Adapters              | 119     |
| PCB Connectors        | 120-121 |

## ELECTRICAL

|                                      |                                                                                                                                                                                                                                                    |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Impedance                            | 50 ohms nominal ■                                                                                                                                                                                                                                  |
| Frequency range                      | 0-4 GHz w/low reflection                                                                                                                                                                                                                           |
| Voltage rating                       | 500 volts peak                                                                                                                                                                                                                                     |
| Dielectric withstanding voltage      | 1,500 volts rms.                                                                                                                                                                                                                                   |
| VSWR                                 | M39012 straight connectors:<br>1.3 max. 0-4 GHz<br>M39012 right angle:<br>1.35 max. 0-4 GHz                                                                                                                                                        |
| Other (MIL-C-39012 cable connectors) | Contact resistance:<br>center contact 1.5 milliohm<br>outer contact 0.2 milliohm<br>Braid to body 0.1 milliohm<br>RF leakage: - 55 dB minimum at 3 GHz<br>Insertion loss: 0.2 dB maximum at 3 GHz<br>Insulation resistance:<br>5000 megohms (min.) |

## MECHANICAL

|                                    |                                                                           |
|------------------------------------|---------------------------------------------------------------------------|
| Mating                             | 2-stud bayonet coupling per M39012                                        |
| Cable affixment (braid or jacket)  | All crimps: hex braid crimp.<br>Clamps: screw-thread nut and braid clamp. |
| Cable affixment (center conductor) | Crimps: crimp or solder<br>All others: solder only                        |
| Captivated contact                 | All crimps<br>Others: where specified.                                    |
| Cable retention                    | Crimps: 20-100 lbs.<br>All others: 30-70 lbs.                             |

## MATERIAL

|                   |                                                                                   |
|-------------------|-----------------------------------------------------------------------------------|
| Center contacts   | Male: brass<br>Female: Beryllium copper or phosphor bronze. Silver or gold plated |
| Other metal parts | Brass, Nickel finish except M39012 silver.                                        |
| Insulators        | TFE; copolymer of styrene, glass-TFE (hermetically sealed)                        |
| Clamp gaskets     | Synthetic rubber, Silicone rubber                                                 |
| Crimp ferrule     | Copper / Brass                                                                    |

## ENVIRONMENTAL

|                     |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------|
| Temperature range   | TFE insulators:<br>- 65°C to + 165°C<br>Copolymer of Styrene:<br>- 55°C to + 85°C |
| Weatherproof        | Clamps with clamp gaskets.<br>Crimps with heat-shrink tubing.                     |
| Hermetic seals      | Pass helium leak test of 2 X 10 <sup>-8</sup> cc/sec                              |
| Shock               | MIL-Std. 202 method 202                                                           |
| Vibration           | MIL-Std. 202 method 204 (test cond. D)                                            |
| Moisture resistance | MIL-Std. 202 method 106                                                           |
| Corrosion           | MIL-Std. 202 method 101 (test cond. B)                                            |
| Temperature cycling | MIL-Std. 202 method 102 (test cond. D)                                            |
| Altitude            | MIL-Std. 202 method 105 (test cond. C)                                            |

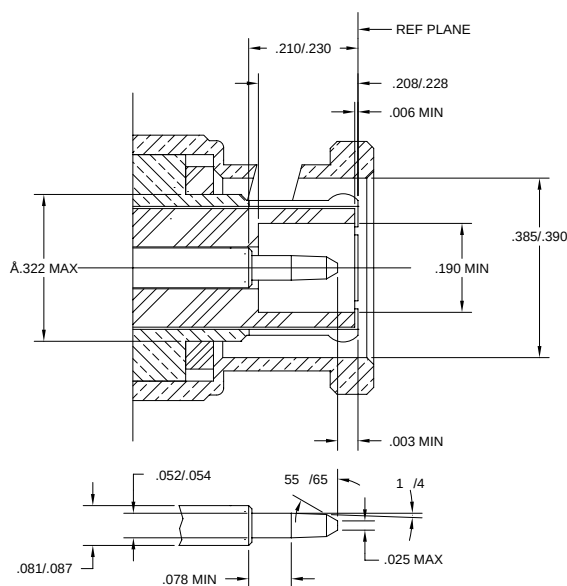
## MILITARY SPECIFICATIONS

|             |                  |
|-------------|------------------|
| MIL-C-39012 | Where applicable |
|-------------|------------------|

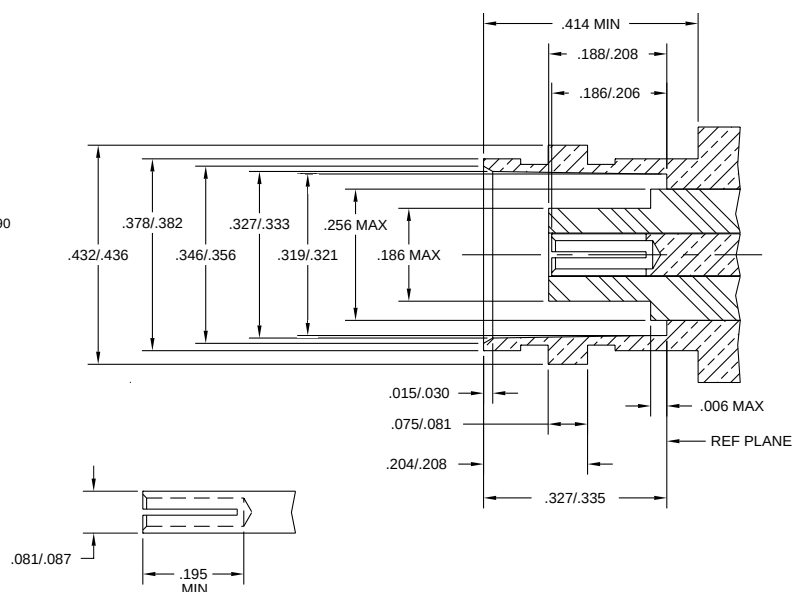
NOTE: These characteristics are typical and may not apply to all connectors.

■ Also see 75 ohm BNC connectors in the following section

## PLUG



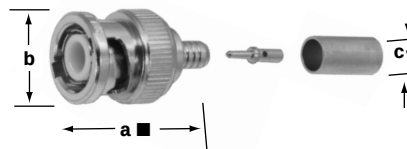
## JACK



# BNC 50 ohm 3-Piece Cable Crimp Plugs

Amphenol®

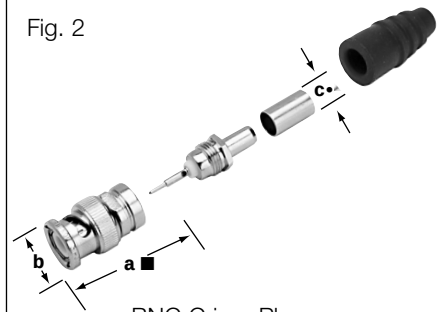
Fig. 1



BNC 3-Piece Crimp Plugs

|             |             |              |              |              |
|-------------|-------------|--------------|--------------|--------------|
| 36650-1003  | 68175-5RFX  | 31-320-1006  | 31-326       | 31-5557-RFX† |
| 36650-3RFX  | 31-242      | 31-320-RFX   | 31-326-RFX   | 31-5558-RFX  |
| 36875       | 31-242-RFX  | 31-321       | 31-4320      | 31-5560-RFX† |
| 68175-1003  | 31-315      | 31-321-1000  | 31-4321      | 31-5559-RFX  |
| 68175-1005  | 31-315-1005 | 31-321-RFX   | 31-4411      | 31-5559-1RFX |
| 68175-1011  | 31-315-RFX  | 31-321-10RFX | 31-4427      | 31-5556-1RFX |
| 68175-11RFX | 31-320      | 31-325       | 31-5556-RFX† |              |

Fig. 2



BNC Crimp Plugs

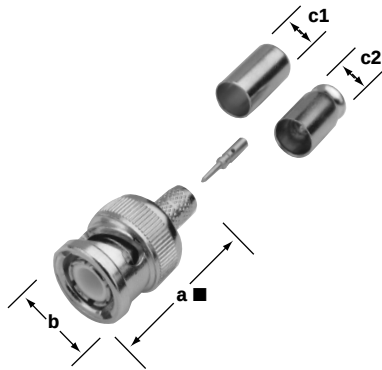
31-351  
31-359  
31-371

## BNC 3-PIECE CRIMP CABLE PLUGS

| Cable<br>RG-/U                            | Cable Attachment |           | Dimensions, inches (millimeters) |            |            | Notes |      |      | Military<br>Number | Amphenol<br>Number | Fig. |
|-------------------------------------------|------------------|-----------|----------------------------------|------------|------------|-------|------|------|--------------------|--------------------|------|
|                                           | Outer            | Inner     | a ■                              | b          | c •        | CAI   | Plt. | Ins. |                    |                    |      |
| 6 TYPE (.314 OD)                          | Crimp            | Crimp     | 1.17(29.7)                       | .571(14.5) | .314(8.0)  | C26   | P7   | D23  | —                  | 31-5558-RFX        | 1    |
| 55, 142, 223, 400                         | Crimp            | Crimp     | 1.27(32.1)                       | .563(14.3) | .220(5.59) | C26   | P15  | D1   | —                  | 36875*             | 1    |
|                                           | Crimp            | Crimp     | 1.20(30.5)                       | .563(14.3) | .220(5.59) | C26   | P15  | D1   | M23329/3-02,3-04   | 31-326*            | 1    |
|                                           | Crimp            | Crimp     | 1.11(28.2)                       | .563(14.3) | .220(5.59) | C26   | P7   | D26  | —                  | 31-326-RFX         | 1    |
|                                           | Crimp            | Crimp     | 1.11(28.2)                       | .563(14.3) | .220(5.59) | C26   | P7   | D26  | —                  | 31-5557-RFX†       | 1    |
| 58                                        | Crimp            | Press Fit | 1.31(33.3)                       | .571(14.5) | .212(5.4)  | C7R   | P7   | D23  | —                  | 31-5800            | ☆    |
| 58, 141                                   | Crimp            | Crimp     | 1.11(28.2)                       | .563(14.3) | .206(5.2)  | C26   | P15  | D1   | M23329/3-01,3-03   | 31-320*            | 1    |
|                                           | Crimp            | Crimp     | 1.17(29.8)                       | .571(14.5) | .210(5.3)  | C26   | P7   | D26  | —                  | 31-320-RFX         | 1    |
|                                           | Crimp            | Solder    | 1.47(37.3)                       | .562(14.3) | .206(5.2)  | C26b  | P15  | D1   | —                  | 31-351*            | 2    |
|                                           | Crimp            | Crimp     | 1.09(27.8)                       | .563(14.3) | .206(5.23) | C26   | P33  | D1   | M39012/16-0013     | 31-4320*           | 1    |
|                                           | Crimp            | Crimp     | 1.28(32.6)                       | .571(14.5) | .181(4.6)  | C26   | P7   | D26  | —                  | 36650-3RFX         | 1    |
| 59 (20 AWG Ctr. Contact)                  | Crimp            | Press Fit | 1.31(33.3)                       | .571(14.5) | .260(6.6)  | C7R   | P7   | D23  | —                  | 31-5556-RFX†       | 1    |
| 59, 62, 140, 210, 302                     | Crimp            | Crimp     | 1.11(28.2)                       | .563(14.3) | .261(6.6)  | C26   | P15  | D26  | —                  | 31-5900            | ☆    |
|                                           | Crimp            | Crimp     | 1.12(28.5)                       | .562(14.3) | .261(6.6)  | C26   | P15  | D1   | M23329/3-05        | 31-321*            | 1    |
|                                           | Crimp            | Crimp     | 1.17(29.8)                       | .571(14.5) | .260(6.6)  | C26   | P7   | D26  | —                  | 31-321-RFX         | 1    |
| 59                                        | Crimp            | Solder    | 1.47(37.3)                       | .563(14.3) | .261(6.6)  | C26b  | P15  | D1   | —                  | 31-359*            | 2    |
|                                           | Crimp            | Crimp     | 1.12(28.5)                       | .562(14.3) | .261(6.6)  | C26   | P33  | D1   | M39012/16-0015     | 31-4321            | 1    |
|                                           | Crimp            | Crimp     | 1.11(28.2)                       | .562(14.3) | .261(6.6)  | C26   | P15  | D1   | —                  | 68175-1005         | 1    |
| 142, 400                                  | Crimp            | Crimp     | 1.17(29.8)                       | .571(14.5) | .260(6.6)  | C26   | P7   | D26  | —                  | 68175-5RFX         | 1    |
|                                           | Crimp            | Crimp     | 1.11(28.2)                       | .563(14.3) | .220(5.6)  | C26   | P33  | D1   | M39012/16-0503     | 31-4427*           | 1    |
|                                           | Crimp            | Crimp     | 1.28(32.6)                       | .571(14.5) | .212(5.4)  | C26   | P7   | D26  | —                  | 68175-11RFX        | 1    |
| Plenum 59, 62                             | Crimp            | Press Fit | 1.31(33.3)                       | .571(14.5) | .212(5.4)  | C7R   | P7   | D23  | —                  | 31-5560-RFX†       | 1    |
|                                           | Crimp            | Solder    | 1.34(34.1)                       | .563(14.3) | .128(3.25) | C26b  | P15  | D9   | —                  | 31-371*            | 2    |
| 174, 179, 187, 188, 316                   | Crimp            | Crimp     | 1.19(30.2)                       | .562(14.3) | .125(3.2)  | C26   | P15  | D1   | —                  | 31-315             | ☆    |
| 174, 188, 316                             | Crimp            | Crimp     | 1.19(30.2)                       | .571(14.5) | .106(2.7)  | C26   | P7   | D23  | —                  | 31-315-RFX         | 1    |
|                                           | Crimp            | Crimp     | 1.19(30.2)                       | .562(14.3) | .117(3.0)  | C26   | P15  | D1   | —                  | 31-242*            | 1    |
| 179, 187                                  | Crimp            | Crimp     | 1.19(30.2)                       | .571(14.5) | .106(2.7)  | C26   | P7   | D23  | —                  | 31-242-RFX         | 1    |
| Dbl. Br. RG-316                           | Crimp            | Crimp     | 1.11(28.2)                       | .562(14.3) | .135(3.4)  | C26   | P16  | D1   | —                  | 31-315-1005        | 1    |
| Belden 8213                               | Crimp            | Crimp     | 1.59(40.5)                       | .562(14.3) | .418(10.6) | C26   | P17  | D1   | —                  | 31-4411            | 1    |
| Belden 8218                               | Crimp            | Crimp     | 1.11(28.2)                       | .562(14.3) | .175(4.4)  | C26   | P15  | D1   | —                  | 31-325*            | 1    |
| Belden 8281, 88281                        | Crimp            | Crimp     | 1.21(30.7)                       | .562(14.3) | .342(8.7)  | C26   | P15  | D1   | —                  | 31-321-1000*       | 1    |
|                                           | Crimp            | Crimp     | 1.17(29.8)                       | .571(14.5) | .334(8.5)  | C26   | P7   | D26  | —                  | 31-321-10RFX       | 1    |
| Belden 9259                               | Crimp            | Crimp     | 1.11(28.2)                       | .562(14.3) | .261(6.6)  | C26   | P15  | D1   | —                  | 68175-1003         | 1    |
| Belden 9907, 89907                        | Crimp            | Crimp     | 1.11(28.2)                       | .562(14.3) | .196(5.0)  | C26   | P15  | D1   | —                  | 31-320-1006        | 1    |
| Belden 1560A, 82259, 89259, Plenum 59, 62 | Crimp            | Crimp     | 1.11(28.2)                       | .563(14.3) | .220(5.6)  | C26   | P15  | D1   | —                  | 68175-1011         | 1    |
| Belden 82907, 88240, 89907, Plenum 58     | Crimp            | Crimp     | 1.11(28.2)                       | .563(14.3) | .175(4.4)  | C26   | P15  | D1   | —                  | 36650-1003         | 1    |
| Plenum 58                                 | Crimp            | Press Fit | 1.28(32.6)                       | .571(14.5) | .181(4.6)  | C26   | P7   | D26  | —                  | 36650-3RFX         | 1    |
| Plenum 58                                 | Crimp            | Press Fit | 1.03(25.0)                       | .563(14.3) | .213(4.6)  | C26   | P7   | D28  | —                  | 31-5559-1RFX       | 1    |
| Plenum 58                                 | Crimp            | Press Fit | 1.03(25.0)                       | .563(14.3) | .26(4.6)   | C7R   | P7   | D23  | —                  | 31-5556-1RFX       | 1    |

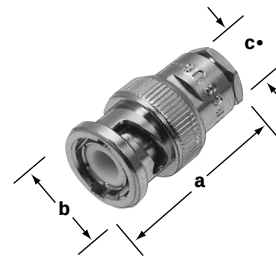
\* recognized under the component program of U.L., Inc. • accommodates cable diameter ☆ see Fig. 1 and table on page 109. ▲ distributor stocked  
■ includes outer ferrule † features preinstalled center contact

Fig. 1



BNC Crimp Plugs for Networking  
**31-5800**  
**31-5900**

Fig. 2



BNC Clamp Plugs

|              |                    |                |
|--------------|--------------------|----------------|
| <b>6775</b>  | <b>31-2</b>        | <b>31-3202</b> |
| <b>9350</b>  | <b>31-2-RFX</b>    | <b>31-3301</b> |
| <b>15875</b> | <b>31-202</b>      | <b>31-3302</b> |
| <b>16300</b> | <b>31-212</b>      |                |
| <b>69475</b> | <b>31-212-1005</b> |                |
| <b>84975</b> | <b>31-212-RFX</b>  |                |

## BNC CRIMP-CRIMP CABLE PLUGS FOR NETWORKING

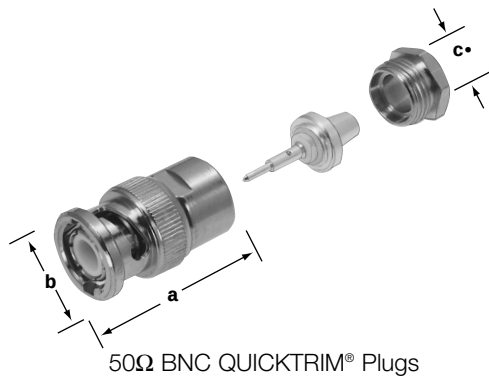
| Cable<br>RG-/U                                                                                                                                                                                                                                          | Dimensions, inches (millimeters) |            |           |            | Notes |      |      | Amphenol<br>Number | Fig. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------|-----------|------------|-------|------|------|--------------------|------|
|                                                                                                                                                                                                                                                         | a ■                              | b          | c • 1     | c • 2      | CAI   | Plt. | Ins. |                    |      |
| 58, 58A, 58B, 58C, 141, Plenum 58, Belden 9907, 89907, Comscope 2104K, 2135, 3104                                                                                                                                                                       | 1.11(28.2)                       | .563(14.3) | .209(5.3) | .181(4.60) | C26   | P15  | D26  | 31-5800            | 1    |
| 59 & 62, RG-59 20GACC, Plenum 59 & 62; Belden 1515A, 8212, 8221, 8241, 8241A, 8241F, 8263, 8279A, 9100, 9209, 9209A, 9240, 9244, 9259, 9274, 9275, 9659, 1426A, 82108, 88241, 82241, 89259, 82259, 1506A; AT&T 734A; Comscope 5553, 2020K, 3037V, 2249K | 1.11(28.2)                       | .563(14.3) | .261(6.6) | .220(5.59) | C26   | P15  | D26  | 31-5900            |      |

## BNC CLAMP CABLE PLUGS

| Cable<br>RG-/U             | Cable Attachment |        | Dimensions, inches (millimeters) |            |            | Notes |      |      | Military<br>Number | Amphenol<br>Number | Fig. |
|----------------------------|------------------|--------|----------------------------------|------------|------------|-------|------|------|--------------------|--------------------|------|
|                            | Outer            | Inner  | a ■                              | b          | c •        | CAI   | Plt. | Ins. |                    |                    |      |
| 6                          | Clamp            | Solder | 1.25(31.8)                       | .563(14.3) | .348(8.8)  | C25   | P1   | D6   | —                  | 9350*              | 2    |
| 8, 9, 11, 213, 214         | Clamp            | Solder | 1.66(42.1)                       | .688(17.5) | .437(11.1) | C25   | P1   | D1   | UG-959/U           | 6775*              |      |
| 55, 58, 141, 142, 223, 400 | Clamp            | Solder | 1.06(27.0)                       | .562(14.3) | .224(5.7)  | C25   | P1   | D1   | UG-88C/U           | 31-202*            |      |
|                            | Clamp            | Solder | 1.06(27.0)                       | .563(14.3) | .221(5.6)  | C25   | P1   | D1   | UG88E/U            | 31-3202*           |      |
| 58, 141, 142, 400          | Clamp            | Solder | .969(24.6)                       | .563(14.3) | .212(5.38) | C25   | P1   | D1   | UG-88/U            | 31-2*              |      |
|                            | Clamp            | Solder | 1.07(27.2)                       | .571(14.5) | .212(5.38) | C25   | P7   | D23  | —                  | 31-2-RFX           |      |
|                            | Clamp            | Solder | 1.06(27.0)                       | .563(14.3) | .224(5.7)  | C25   | P33  | D1   | M39012/16-0101     | 31-3301*           |      |
| 59, 62, 71, 140, 210, 302  | Clamp            | Solder | 1.10(27.9)                       | .562(14.3) | .255(6.5)  | C25   | P1   | D1   | UG260B/U           | 31-212*            |      |
|                            | Clamp            | Solder | 1.07(27.2)                       | .571(14.5) | .256(6.5)  | C25   | P7   | D23  | —                  | 31-212-RFX         |      |
|                            | Clamp            | Solder | 1.06(27.0)                       | .563(14.3) | .255(6.5)  | C25   | P33  | D1   | M39012/16-0102     | 31-3302*           |      |
| 59 (20GA CC)               | Clamp            | Solder | 1.06(27.0)                       | .563(14.3) | .255(6.48) | C25   | P1   | D1   | —                  | 31-212-1005        |      |
| 122                        | Clamp            | Solder | 1.06(27.0)                       | .563(14.3) | .177(4.5)  | C25   | P1   | D1   | UG1033/U           | 84975*             | ▲    |
| 174, 179, 187, 188, 316    | Clamp            | Solder | 1.06(27.0)                       | .563(14.3) | .116(2.9)  | C25   | P1   | D1   | —                  | 69475*             |      |
| 178, 196                   | Clamp            | Solder | 1.00(25.4)                       | .563(14.3) | .094(2.39) | C25   | P1   | D9   | —                  | 15875*             |      |
| 180                        | Clamp            | Solder | 1.00(25.4)                       | .563(14.3) | .150(3.81) | C25   | P1   | D9   | —                  | 16300*             | ▲    |

"b" dimension is body O.D. • accommodates cable diameter ▲ distributor stocked \* recognized under the component program of U.L., Inc.  
■ includes outer ferrule

Fig. 1



50Ω BNC QUICKTRIM® Plugs

**31-30220-1**  
**31-30220-8**  
**31-4541**  
**31-4541-RFX**  
**31-4542**

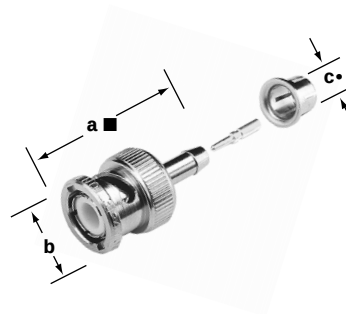
Fig. 2



BNC SURETWIST® Plugs

**31-5136**  
**31-5136-RFX**  
**31-5137**  
**31-5137-RFX**

Fig. 3



BNC FCP Plugs

**31-4700**  
**31-4702**

## BNC CABLE PLUGS

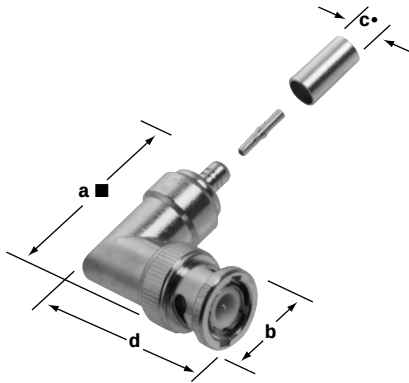
| Cable<br>RG-/U     | Cable Attachment |        | Dimensions, inches (millimeters) |            |            | Notes |      |      | Military<br>Number | Amphenol<br>Number          | Fig. |
|--------------------|------------------|--------|----------------------------------|------------|------------|-------|------|------|--------------------|-----------------------------|------|
|                    | Outer            | Inner  | a ■                              | b          | c •        | CAI   | Plt. | Ins. |                    |                             |      |
| <b>58 B/U</b>      | SURETWIST®       |        | 1.47(37.3)                       | .562(14.3) | .181(4.6)  | C28   | P5   | D15  | —                  | <a href="#">31-5137</a>     | 2 ▲  |
|                    | SURETWIST®       |        | 1.48(37.6)                       | .571(14.5) | .185(4.7)  | C28   | P7   | D23  | —                  | <a href="#">31-5137-RFX</a> | 2 ▲  |
| <b>58</b>          | FCP              | Pliers | 1.06(27.0)                       | .563(14.3) | .206(5.23) | C30   | P1   | D1   | —                  | <a href="#">31-4700*</a>    | 3 ▲  |
|                    | QUICKTRIM®       |        | 1.06(27.0)                       | .563(14.3) | .207(5.3)  | C29   | P1   | D1   | —                  | <a href="#">31-30220-1</a>  | 1    |
| <b>59</b>          | QUICKTRIM®       |        | 1.03(26.2)                       | .562(14.3) | .252(6.2)  | C29   | P1   | D1   | (IBM 1836444)      | <a href="#">31-4541</a>     | 1 ▲  |
|                    | QUICKTRIM®       |        | 1.03(26.2)                       | .562(14.3) | .252(6.2)  | C29   | P7   | D23  | —                  | <a href="#">31-4541-RFX</a> | 1 ▲  |
|                    | SURETWIST®       |        | 1.47(37.3)                       | .562(14.3) | .242(6.1)  | C28   | P5   | D15  | —                  | <a href="#">31-5136</a>     | 2 ▲  |
|                    | SURETWIST®       |        | 1.48(37.6)                       | .571(14.5) | .242(6.1)  | C28   | P7   | D23  | —                  | <a href="#">31-5136-RFX</a> | 2 ▲  |
|                    | FCP              | Pliers | 1.06(27.0)                       | .563(14.3) | .259(6.56) | C30   | P1   | D1   | —                  | <a href="#">31-4702*</a>    | 3 ▲  |
| <b>223</b>         | QUICKTRIM®       |        | 1.06(27.0)                       | .563(14.3) | .225(5.7)  | C29   | P1   | D1   | —                  | <a href="#">31-30220-8</a>  | 1    |
| <b>Belden 9268</b> | QUICKTRIM®       |        | 1.06(27.0)                       | .563(14.3) | .275(6.99) | C29   | P1   | D1   | (IBM 1836447)      | <a href="#">31-4542</a>     | 1    |

• accommodates cable diameter \* recognized under the component program of U.L., Inc. ▲ distributor stocked ■ includes outer ferrule

# BNC 50 ohm Angle Cable Plugs

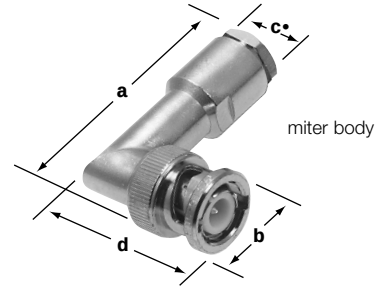
Amphenol®

Fig. 1



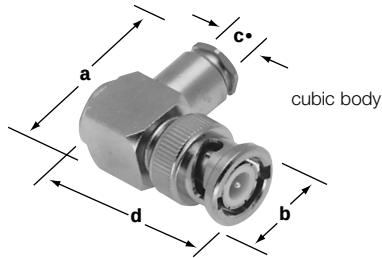
BNC Crimp Angle Plugs  
**31-316, 31-316-RFX**  
**31-335, 31-335-RFX**  
**31-336, 31-336-RFX**  
**31-334**

Fig. 2



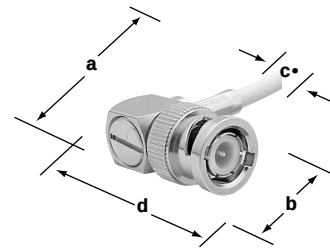
BNC Clamp Angle Plug  
**31-204**

Fig. 3



BNC Clamp Angle Plugs  
**8525**  
**8575**  
**33275**  
**31-850**

Fig. 4



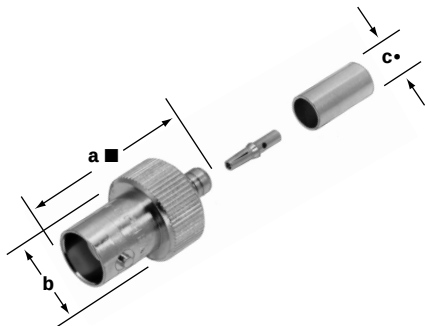
BNC Crimp-Crimp Cube  
**31-5911-RFX**  
**31-5914-RFX**  
**31-5991-RFX**

## BNC ANGLE CABLE PLUGS

| Cable<br>RG-/U             | Cable Attachment |        | Dimensions, inches (millimeters) |            |           |            | Notes |      |      | Military<br>Number | Amphenol<br>Number | Fig. |
|----------------------------|------------------|--------|----------------------------------|------------|-----------|------------|-------|------|------|--------------------|--------------------|------|
|                            | Outer            | Inner  | a                                | b          | c •       | d          | CAI   | Plt. | Ins. |                    |                    |      |
| 55, 58, 141, 142, 223, 400 | Clamp            | Solder | 1.68(42.7)■                      | .562(14.3) | .214(5.5) | 1.09(27.8) | C25   | P1   | D1   | UG-913/U           | <b>31-204*</b>     | 2    |
| 55, 142, 223, 400          | Crimp            | Crimp  | 1.59(30.2)■                      | .562(14.3) | .220(5.6) | 1.19(40.5) | C26a  | P15  | D1   | —                  | <b>31-334*</b>     | 1 ▲  |
| 58, 141                    | Crimp            | Crimp  | 1.59(40.5)■                      | .562(14.3) | .206(5.2) | 1.19(30.2) | C26a  | P15  | D1   | —                  | <b>31-335*</b>     | 1    |
|                            | Crimp            | Crimp  | 1.66(42.2)■                      | .571(14.5) | .210(5.3) | 1.07(27.2) | C26a  | P7   | D23  | —                  | <b>31-335-RFX</b>  | 1    |
| 58, 141, 142, 400          | Clamp            | Solder | 1.00(25.4)■                      | .562(14.3) | .212(5.4) | 1.25(31.8) | C25   | P1   | D1   | (Cubic Body)       | <b>8525*</b>       | 3    |
| 59, 62, 71, 140, 210       | Clamp            | Solder | 1.00(25.4)                       | .562(14.3) | .259(6.6) | 1.25(31.8) | C25   | P1   | D1   | —                  | <b>8575*</b>       | 3 ▲  |
|                            | Clamp            | Solder | 1.25(31.6)                       | .562(14.3) | .259(6.6) | 1.03(26.2) | C25   | P1   | D6   | —                  | <b>31-850*</b>     | 3 ▲  |
| 59, 62, 140, 210           | Crimp            | Crimp  | 1.59(40.5)■                      | .562(14.3) | .259(6.6) | 1.19(30.2) | C26a  | P15  | D1   | —                  | <b>31-336</b>      | 1    |
|                            | Crimp            | Crimp  | 1.66(42.2)■                      | .571(14.5) | .260(6.6) | 1.07(27.2) | C26a  | P7   | D23  | —                  | <b>31-336-RFX</b>  | 1    |
| 174, 179, 187, 188         | Clamp            | Solder | 1.25(31.6)                       | .562(14.3) | .115(2.9) | 1.00(25.4) | C25   | P1   | D1   | (Cubic Body)       | <b>33275*</b>      | 3 ▲  |
| 174, 188, 316              | Crimp            | Crimp  | 1.19(30.2)■                      | .562(14.3) | .115(2.9) | 1.59(40.5) | C26a  | P15  | D1   | —                  | <b>31-316*</b>     | 1    |
| 58, 141                    | Crimp            | Solder | .862(21.9)                       | .571(14.5) | .214(5.5) | 1.07(27.2) | C26a  | P7   | D23  | (Cubic Body)       | <b>31-5911-RFX</b> | 4    |
| 59                         | Crimp            | Solder | .862(21.9)                       | .571(14.5) | .259(6.6) | 1.07(27.2) | C26a  | P7   | D23  | (Cubic Body)       | <b>31-5914-RFX</b> | 4    |
| 316                        | Crimp            | Solder | .862(21.9)                       | .571(14.5) | .115(2.9) | 1.09(27.8) | C26a  | P7   | D23  | (Cubic Body)       | <b>31-5991-RFX</b> | 4    |
| 316 Die Cast               | Crimp            | Solder | .862(21.9)                       | .571(14.5) | .115(2.9) | 1.07(27.2) | C26a  | P7   | D23  | (Cubic Body)       | <b>31-316-RFX</b>  | 1    |

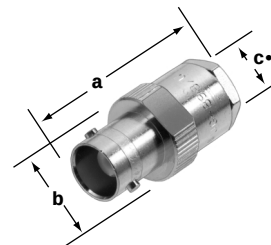
■ includes outer ferrule • accommodates cable diameter \* recognized under the component program of U.L., Inc. ▲ distributor stocked

Fig. 1



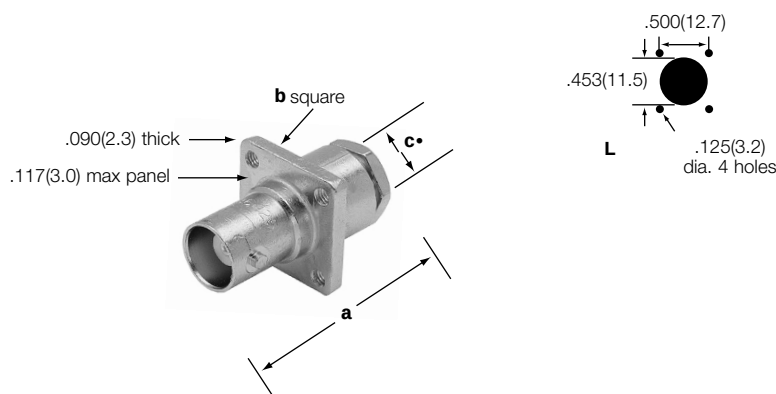
BNC Crimp Jacks  
**36800**  
**36800-RFX**  
**68150**  
**31-317**  
**31-4327**  
**31-317-RFX**

Fig. 2



BNC Clamp Jack  
**31-15**  
**31-5**  
**31-5-RFX**  
**31-315-RFX**

Fig. 3



BNC Panel Jack  
**86425**

## BNC CABLE JACKS

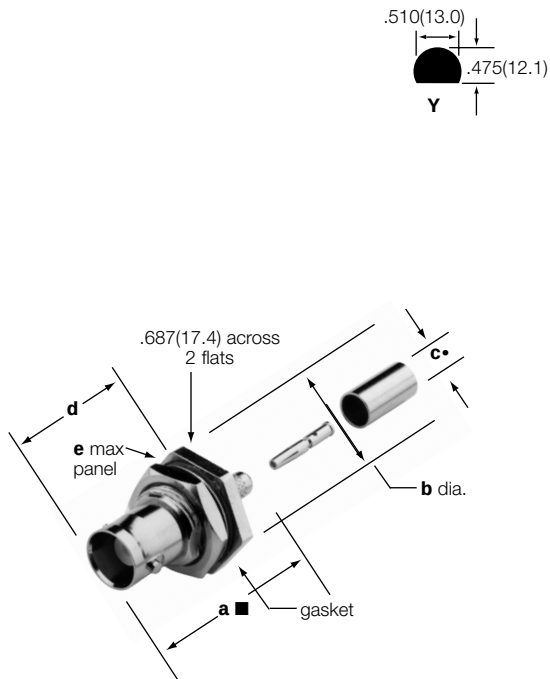
| Cable RG/U                     | Cable Attachment |        | Dimensions, inches (millimeters) |            |           | Construction Notes |      |      | Military Number | Amphenol Number   | Fig. |
|--------------------------------|------------------|--------|----------------------------------|------------|-----------|--------------------|------|------|-----------------|-------------------|------|
|                                | Outer            | Inner  | a ■                              | b          | c •       | CAI                | Plt. | Ins. |                 |                   |      |
| <b>58, 141</b>                 | Crimp            | Crimp  | 1.17(29.8)                       | .562(14.3) | .206(5.2) | C26a               | P33  | D1   | M39012/17-0013  | <b>31-4327*</b>   | 1    |
|                                | Crimp            | Crimp  | 1.17(29.7)                       | .510(13.0) | .206(5.2) | C26a               | P15  | D1   | —               | <b>36800*</b>     | 1    |
|                                | Crimp            | Crimp  | 1.32(33.5)                       | .435(11.0) | .210(5.3) | C26a               | P7   | D23  | —               | <b>36800-RFX</b>  | 1    |
| <b>59, 62, 71, 140, 210</b>    | Clamp            | Solder | 1.14(29.0)                       | .562(14.3) | .259(6.6) | C25                | P1   | D1   | UG-261/U        | <b>31-15*</b>     | 2 ▲  |
| <b>174, 188, 316</b>           | Crimp            | Crimp  | 1.19(30.2)                       | .571(14.5) | .106(2.7) | C26a               | P15  | D23  | —               | <b>31-315-RFX</b> | 2    |
| <b>223</b>                     | Clamp            | Solder | 1.14(29.0)                       | .562(14.3) | .220(5.0) | C25                | P1   | D1   | UG-89/U         | <b>31-5</b>       | 2 ▲  |
| <b>174, 188, 316</b>           | Crimp            | Crimp  | 1.07(27.3)                       | .453(11.5) | .106(2.7) | C26a               | P15  | D23  | —               | <b>31-317-RFX</b> | 1    |
| <b>174, 188, 316</b>           | Crimp            | Crimp  | 1.39(35.3)                       | .562(14.3) | .125(3.2) | C26a               | P15  | D1   | —               | <b>31-317*</b>    | 1    |
| <b>174, 179, 187, 188, 316</b> | Clamp            | Solder | 1.14(29.0)                       | .687(17.5) | .117(3.0) | C25                | P1   | D1   | —               | <b>86425*</b>     | 3    |
| <b>59, 62, 140, 210</b>        | Crimp            | Crimp  | 1.18(30.0)                       | .510(13.0) | .261(6.6) | C26a               | P15  | D1   | —               | <b>68150*</b>     | 1 ▲  |
| <b>223</b>                     | Clamp            | Clamp  | 1.14(29.0)                       | .562(14.3) | .220(5.0) | C25                | P1   | D1   | —               | <b>31-5-RFX</b>   | 2    |

• accommodates cable diameter \* recognized under the component program of U.L., Inc. ▲ distributor stocked ■ includes outer ferrule

# BNC 50 ohm Bulkhead Cable Jacks

Amphenol®

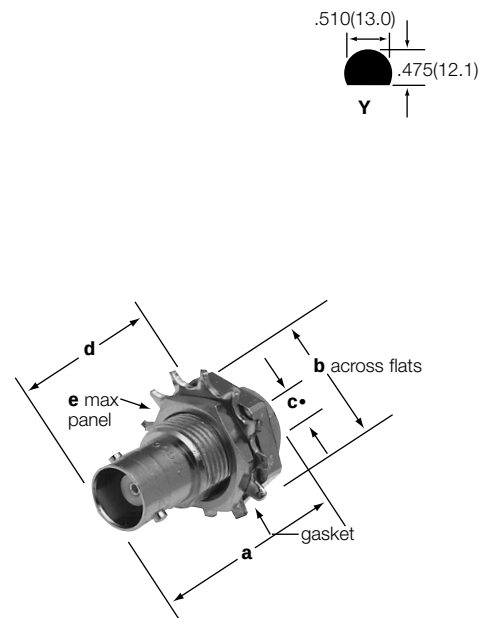
Fig. 1



BNC Crimp Bulkhead Jacks

**95700**      **31-318-RFX**  
**31-245**      **31-342**  
**31-245-RFX**      **31-342-RFX**  
**31-318**      **31-343-1002**  
**31-318-1001**      **31-343-RFX**

Fig. 2



BNC Clamp Bulkhead Jacks

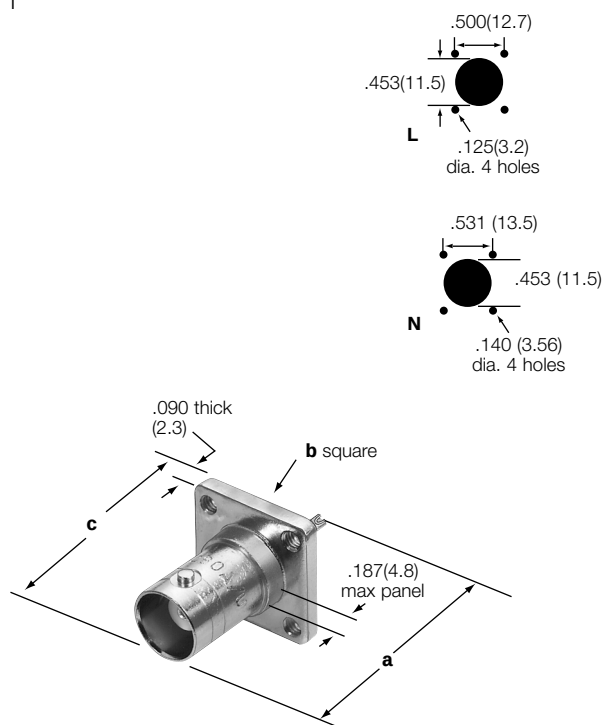
**86350**  
**86850**  
**31-206**  
**31-207**

## BNC BULKHEAD CABLE JACKS

| Cable<br>RG-/U             | Cable Attachment |        | Dimensions, inches (millimeters) |                |            |            |           | CAI  | Plt. | Ins. | Mtg.<br>Hole | Military<br>Number | Amphenol<br>Number | Fig. |
|----------------------------|------------------|--------|----------------------------------|----------------|------------|------------|-----------|------|------|------|--------------|--------------------|--------------------|------|
|                            | Outer            | Inner  | a ■                              | b              | c •        | d          | e         |      |      |      |              |                    |                    |      |
| <b>55, 142, 223</b>        | Crimp            | Crimp  | 1.41(35.8)                       | .795(20.2) dia | .220(5.6)  | .812(20.6) | .250(6.4) | C26a | P17  | D1   | Y            | —                  | <b>95700*</b>      | 1    |
| <b>58, 141</b>             | Crimp            | Crimp  | 1.41(35.7)                       | .795(20.2) dia | .206(5.2)  | .812(20.6) | .250(6.4) | C26a | P15  | D1   | Y            | —                  | <b>31-342</b>      | 1 ▲  |
| <b>58, 141, 142, 223</b>   | Crimp            | Crimp  | 1.38(35.1)                       | .687(17.5) hex | .210(5.3)  | .709(18.0) | .138(3.5) | C26a | P7   | D23  | Y            | —                  | <b>31-342-RFX</b>  | 1 ▲  |
| <b>58, 141, 142, 400</b>   | Clamp            | Solder | 1.12(28.6)                       | .687(17.6) hex | .224(5.7)  | .798(20.3) | .218(5.5) | C25  | P1   | D1   | Y            | UG-909/U           | <b>31-206*</b>     | 2    |
| <b>59, 62, 140, 210</b>    | Clamp            | Solder | 1.12(28.6)                       | .687(17.6) hex | .257(6.5)  | .798(20.3) | .218(5.5) | C25  | P1   | D1   | Y            | UG-910/U           | <b>31-207*</b>     | 2    |
|                            | Crimp            | Crimp  | 1.38(35.1)                       | .687(17.5) hex | .260(6.6)  | .709(18.0) | .138(3.5) | C26a | P7   | D23  | Y            | —                  | <b>31-343-RFX</b>  | 1    |
| <b>Plenum 59 (20 AWG)</b>  | Crimp            | Crimp  | 1.41(35.8)                       | .795(20.2) dia | .220(5.6)  | .812(20.6) | .250(6.4) | C26a | P15  | D1   | Y            | —                  | <b>31-343-1002</b> | 1    |
| <b>174,179,187,188,316</b> | Clamp            | Solder | 1.14(29.0)                       | .687(17.5) hex | .115(2.9)  | .798(20.3) | .250(6.4) | C25  | P1   | D1   | Y            | —                  | <b>86350*</b>      | 2 ▲  |
| <b>174, 188, 316</b>       | Crimp            | Crimp  | 1.48(37.0)                       | .795(20.2) dia | .120(3.0)  | .812(20.6) | .250(6.4) | C26a | P16  | D1   | Y            | —                  | <b>31-318*</b>     | 1 ▲  |
|                            | Crimp            | Crimp  | 1.43(36.4)                       | .687(17.5) hex | .106(2.7)  | .812(20.6) | .138(3.5) | C26a | P7   | D23  | Y            | —                  | <b>31-318-RFX</b>  | 1 ▲  |
| <b>178, 196</b>            | Clamp            | Solder | 1.14(29.0)                       | .687(17.5) dia | .098(2.5)  | .798(20.3) | .250(6.4) | C25  | P1   | D1   | Y            | —                  | <b>86850*</b>      | 2    |
| <b>179, 187</b>            | Crimp            | Crimp  | 1.49(37.8)                       | .795(20.2) dia | .120(3.0)  | .812(20.6) | .250(6.4) | C26a | P15  | D1   | Y            | —                  | <b>31-245*</b>     | 1    |
|                            | Crimp            | Crimp  | 1.43(36.3)                       | .687(17.4) hex | .106(2.7)  | .709(18.0) | .138(3.5) | C26a | P7   | D23  | Y            | —                  | <b>31-245-RFX</b>  | 1    |
| <b>Dbl. Br. 316</b>        | Crimp            | Crimp  | 1.41(35.8)                       | .795(20.2) dia | .135(3.42) | .812(20.6) | .250(6.4) | C26a | P15  | D1   | Y            | —                  | <b>31-318-1001</b> | 1    |

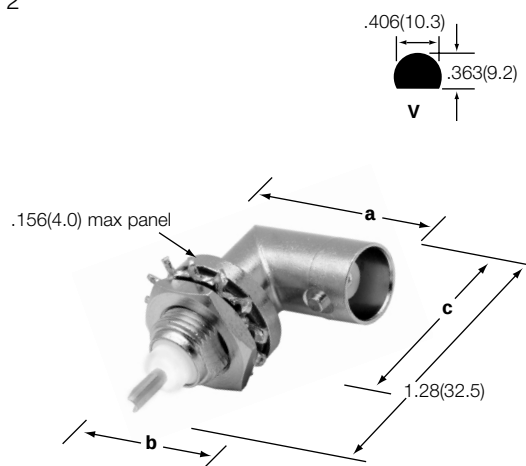
● accommodates cable diameter \* recognized under the component program of U.L., Inc. ▲ distributor stocked ■ includes outer ferrule

Fig. 1



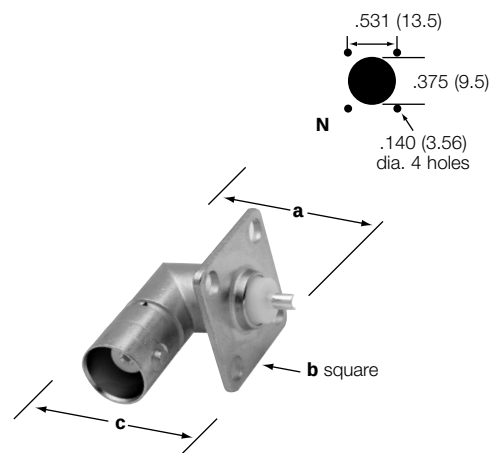
BNC Panel Receptacles  
4 hole Square Flange, Rear or Front Mount  
**4500**  
**31-105**  
**31-203**  
**31-203-RFX**

Fig. 2



BNC Angle Bulkhead Receptacle  
**31-222**

Fig. 3



BNC Angle Panel Receptacle  
**5675**

## BNC PANEL AND ANGLE BULKHEAD RECEPTACLES

| Description                                                                    | Terminal Type | Dimensions, inches (millimeters) |            |            | Notes |      | Mtg. Hole | Military Number | Amphenol Number   | Fig. |
|--------------------------------------------------------------------------------|---------------|----------------------------------|------------|------------|-------|------|-----------|-----------------|-------------------|------|
|                                                                                |               | a                                | b          | c          | Plt.  | Ins. |           |                 |                   |      |
| Panel Receptacle 4 hole Square Flange<br>No. 3-56 Tapped Flange Holes          | Solder Cup    | 1.06(27.0)                       | .687(17.5) | .719(18.3) | P1    | D1   | L         | UG-290A/U       | <b>31-203</b>     | 1    |
| Panel Receptacle 4 hole Square Flange<br>.125" Dia. Flange Holes               | Solder Cup    | 1.06(27.0)                       | .687(17.5) | .719(18.3) | P7    | D23  | L         | —               | <b>31-203-RFX</b> |      |
| Panel Receptacle 4 hole Square Flange<br>.120" Dia. Flange Holes, Styrene Ins. | Solder Cup    | 1.03(26.2)                       | .687(17.5) | .719(18.3) | P1    | D6   | L         | —               | <b>31-105*</b>    |      |
| Panel Receptacle 4 hole Square Flange<br>.136" Dia. Flange Holes, Styrene Ins. | Turret        | 1.08(27.4)                       | .750(19.1) | .609(15.5) | P1    | D6   | N         | UG-185/U        | <b>4500*</b>      | 2    |
| Angle, External Tooth Lockwasher                                               | Solder Cup    | .906(23.0)                       | .594(15.1) | .625(15.8) | P1    | D1   | V         | UG-1098/U       | <b>31-222*</b> □  |      |
| Angle Panel Receptacle 4 hole Flange<br>.136"(3.5mm) Diameter Holes            | Solder Cup    | .928(23.6)                       | .642(16.3) | .642(16.3) | P1    | D1   | N         | UG-535/U        | <b>5675*</b>      |      |

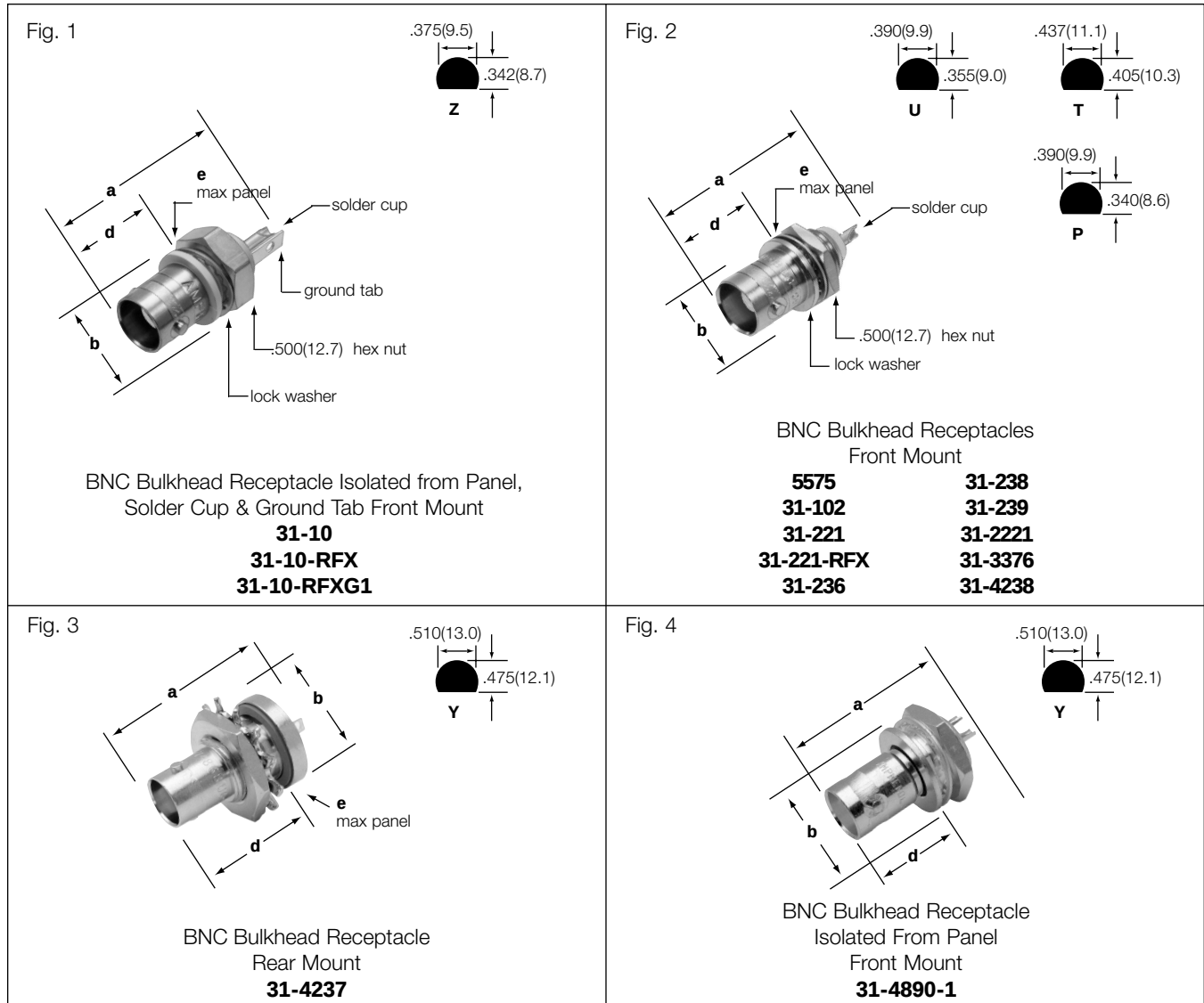
\* recognized under the component program of U.L., Inc.

▲ distributor stocked

□ IBM 01620666

# BNC 50 ohm Bulkhead Receptacles

Amphenol®



## BNC BULKHEAD RECEPTACLES

| Description                                            | Terminal Type | Dimensions, inches (mm) |            |            |           | Notes |       | Mtg. Hole | Military Number | Amphenol Number             | Fig. |
|--------------------------------------------------------|---------------|-------------------------|------------|------------|-----------|-------|-------|-----------|-----------------|-----------------------------|------|
|                                                        |               | a                       | b          | d          | e         | Plt.  | Ins.  |           |                 |                             |      |
| Front Mount, Isolated from Panel                       | Solder Cup    | 1.19(30.2)              | .500(12.7) | .471(12.0) | .187(4.8) | P1    | D22   | Z         | —               | <a href="#">31-10*</a>      | 1 ▲  |
|                                                        | Solder Cup    | 1.18(30.0)              | .500(12.7) | .471(12.0) | .125(3.2) | P1    | D22   | Z         | —               | <a href="#">31-10-RFX</a>   | 1 ▲  |
| Front Mount                                            | Solder Cup    | 1.18(30.0)              | .500(12.7) | .471(12.0) | .187(4.8) | P7    | D22   | Z         | —               | <a href="#">31-10-RFXG1</a> | 1 ▲  |
| Front Mount                                            | Solder Cup    | 1.06(27.0)              | .500(12.7) | .484(12.3) | .125(3.2) | P1    | D1    | U         | UG-1094/U       | <a href="#">31-221*†</a>    | 2 ▲  |
|                                                        |               | 1.06(27.0)              | .500(12.7) | .472(12.0) | .125(3.2) | P7    | D23   | U         | —               | <a href="#">31-221-RFX</a>  | 2 ▲  |
|                                                        |               | 1.06(27.0)              | .500(12.7) | .469(11.9) | .156(4.0) | P1    | D1    | T         | UG-625B/U       | <a href="#">31-236*</a>     | 2 ▲  |
|                                                        |               | 1.19(30.2)              | .500(12.7) | .481(12.3) | .250(6.4) | P1    | D1    | U         | UG-1094A/U      | <a href="#">31-2221</a>     | 2 ▲  |
| Front Mount, Gold Plated Contact                       | Solder Cup    | 1.19(30.2)              | .500(12.7) | .484(12.3) | .250(6.4) | P34   | D1    | U         | M39012/21-0002  | <a href="#">31-3376*</a>    | 2 ▲  |
| Front Mount, Pressurized                               | Solder Cup    | 1.30(32.9)              | .578(14.7) | .594(15.1) | .250(6.4) | P1    | D9    | P         | UG-657A/U       | <a href="#">31-239*</a>     | 2 ▲  |
| Front Mount, Pressurized                               | Solder Cup    | 1.30(32.9)              | .578(14.7) | .594(15.1) | .250(6.4) | P1    | D9    | P         | UG-657/U        | <a href="#">31-102*</a>     | 2 ▲  |
| Fr. Mount, Gold Plated Contact                         | Spade         | 1.20(30.6)              | .594(15.1) | .516(13.1) | .250(6.4) | P33   | D1    | U         | M39012/24-0002  | <a href="#">31-4238*</a>    | 2 ▲  |
| Hermetic External Tooth Lockwasher                     | Spade         | 1.20(30.6)              | .594(15.1) | .516(13.1) | .250(6.4) | P1    | D1/11 | U         | UG-912/U        | <a href="#">31-238*</a>     | 2 ▲  |
| Front Mount                                            | Solder Cup    | 1.06(27.0)              | .500(12.7) | .472(12.0) | .156(4.0) | P1    | D1    | T         | UG-625/U        | <a href="#">5575*</a>       | 2 ▲  |
| Rear Mount, Hermetic                                   | Spade         | 1.34(34.0)              | .687(17.4) | .831(21.1) | .250(6.4) | P33   | D1/11 | Y         | M39012/24-0001  | <a href="#">31-4237*</a>    | 3 ▲  |
| Front Mount Isolated from Panel Metal Mounting Threads | Solder Cup    | 1.06(27.0)              | .625(15.9) | .571(14.5) | .187(4.7) | P4    | D1    | Y         | —               | <a href="#">31-4890-1</a>   | 4    |

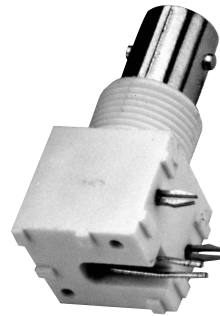
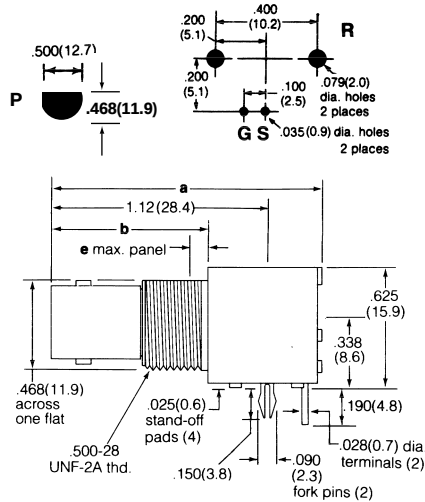
\* recognized under the component program of U.L., Inc.

▲ distributor stocked

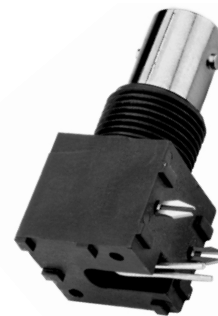
† includes grounding lug

Fig. 1

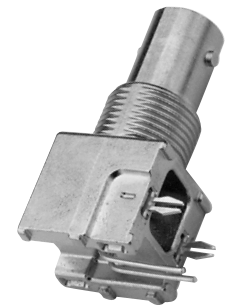
Standard Height 50 ohm BNC Printed Circuit Board Right Angle Bulkhead Receptacles ☆



Isolated from Panel  
White Valox Housing  
**31-5431▲** (Round Pins)  
**31-5431-1010** (Fork Pins)  
**31-5431-10RFX**



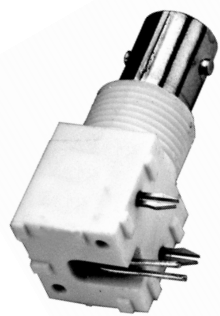
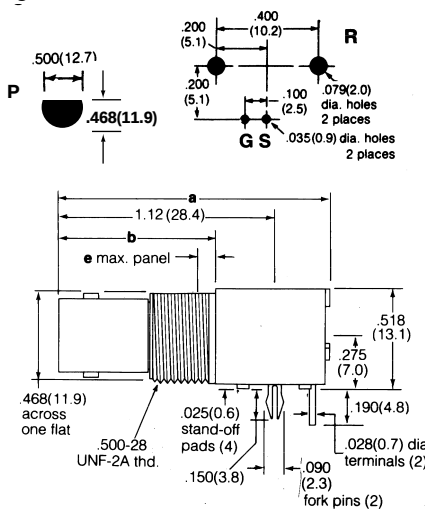
Isolated from Panel  
Black Valox Housing  
**31-5538** (Round Pins)  
**31-5538-1010** (Fork Pins)  
**31-5538-10RFX**



Metal Housing  
**31-5640▲** (Round Pins)  
**31-5640-1010** (Fork Pins)

Fig. 2

Low Profile 50 ohm BNC Printed Circuit Board Bulkhead Receptacles ☆



Isolated from Panel  
White Valox Housing  
**31-5486▲** (Round Pins)  
**31-5486-1010** (Fork Pins)  
**31-5486-10RFX**



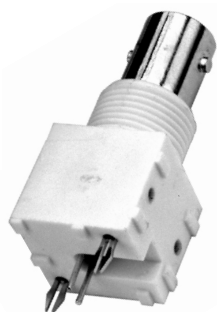
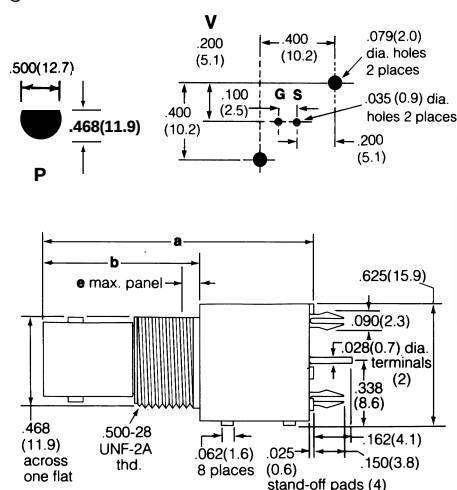
Isolated from Panel  
Black Valox Housing  
**31-5540** (Round Pins)  
**31-5540-1010** (Fork Pins)  
**31-5540-10RFX**



Metal Housing  
**31-5637** (Round Pins)

Fig. 3

Vertical 50 ohm BNC Printed Circuit Board Bulkhead Receptacles ☆



Isolated from Panel  
White Valox Housing  
**31-5493▲** (Round Pins)  
**31-5493-1010** (Fork Pins)



Isolated from Panel  
Black Valox Housing  
**31-5539** (Round Pins)  
**31-5539-1010▲** (Fork Pins)  
**31-5539-10RFX**

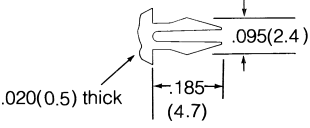
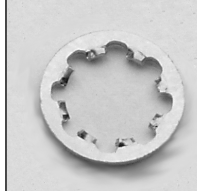
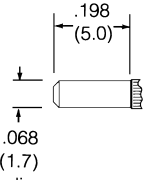
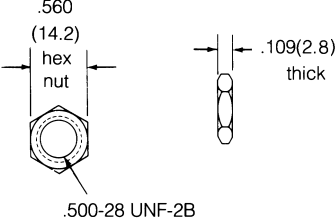
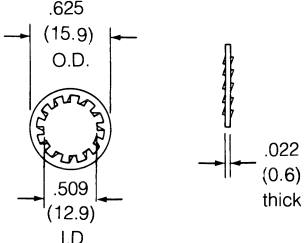


Metal Housing  
**31-5633** (Round Pins)  
**31-5633-1010** (Fork Pins)

▲ distributor stocked ☆ Jam nuts and lockwashers sold separately.

# BNC 50 ohm PCB Receptacles and Accessories

Amphenol®

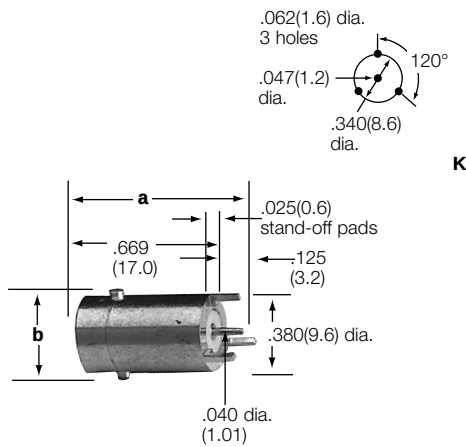
|                                                                                                                                                                                            |                                                                                                                                                                                   |                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Fork Pin holds connectors rigidly to P.C. Board for high temperature and mass production assembly</p> | <p>Fig. 4</p>                                                                                   | <p>Fig. 5</p>                                                                                      |
|  <p>Round Pin (Standard)</p>                                                                              |  <p>Pkg. of 100, Hex Nut for BNC Bulkhead PCB Receptacles<br/><b>31-5652▲</b> Nickel Plated</p> |  <p>Pkg. of 100, Lockwasher for BNC PCB Bulkhead Receptacles<br/><b>31-5653▲</b> Nickel Plated</p> |

## BNC PRINTED CIRCUIT BOARD BULKHEAD RECEPTACLES AND ACCESSORIES

| Description                                                     | Terminal Type                   | Dimensions, inches (millimeters) |                    |           | Notes                                             |                                 | Mtg. Hole  | Notes              | MTG. Pin Type | Imp | Amphenol Number               | Fig. |     |                    |       |                              |                         |
|-----------------------------------------------------------------|---------------------------------|----------------------------------|--------------------|-----------|---------------------------------------------------|---------------------------------|------------|--------------------|---------------|-----|-------------------------------|------|-----|--------------------|-------|------------------------------|-------------------------|
|                                                                 |                                 | a                                | b                  | e         | Plt.                                              | Ins.                            |            |                    |               |     |                               |      |     |                    |       |                              |                         |
| Standard Height Printed Circuit Angle Bulkhead Receptacle (J)☆  | Blunt Posts for Signal & Ground | 1.40(35.6)                       | .810(20.6)         | .250(6.4) | P26                                               | D17                             | R/P        | Iso. White Housing | Round         | 50Ω | <a href="#">31-5431</a>       | 1    |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P26                                               | D17                             |            |                    | Fork          | 50Ω | <a href="#">31-5431-1010</a>  |      |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P26                                               | D20                             | R/P        | Iso. Black Housing | Round         | 50Ω | <a href="#">31-5538</a>       | 1    |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P26                                               | D20                             |            |                    | Fork          | 50Ω | <a href="#">31-5538-1010</a>  |      |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P25                                               | D20                             | R/P        |                    | Stamp         | 50Ω | <a href="#">31-5538-10RFX</a> |      |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P26                                               | D22                             | R/P        | Metal Housing      | Round         | 50Ω | <a href="#">31-5640</a>       |      |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P26                                               | D22                             |            |                    | Fork          | 50Ω | <a href="#">31-5640-1010</a>  |      |     |                    |       |                              |                         |
| Low Profile Printed Circuit Angle Bulkhead Receptacle (J)☆      | Blunt Posts for Signal & Ground | 1.40(35.6)                       | .810(20.6)         | .250(6.4) | P25                                               | D17                             | R/P        | Iso. White Housing | Fork          | 50Ω | <a href="#">31-5431-10RFX</a> | 1    |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P26                                               | D17                             | R/P        | Iso. White Housing | Fork          | 50Ω | <a href="#">31-5486</a>       |      |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P26                                               | D20                             | R/P        | Iso. Black Housing | Round         | 50Ω | <a href="#">31-5540</a>       | 2    |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P26                                               | D20                             |            |                    | Fork          | 50Ω | <a href="#">31-5540-1010</a>  |      |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P26                                               | D22                             | R/P        | Metal Housing      | Round         | 50Ω | <a href="#">31-5637</a>       |      |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | Vertical Printed Circuit Bulkhead Receptacle (J)☆ | Blunt Posts for Signal & Ground | 1.40(35.6) | .810(20.6)         | .250(6.4)     | P26 | D17                           |      | V/P | Iso. White Housing | Round | 50Ω                          | <a href="#">31-5493</a> |
|                                                                 |                                 |                                  |                    |           |                                                   |                                 |            |                    |               | P26 | D17                           | Fork |     |                    | 50Ω   | <a href="#">31-5493-1010</a> |                         |
| P26                                                             | D20                             | V/P                              | Iso. Black Housing | Round     |                                                   |                                 |            |                    |               | 50Ω | <a href="#">31-5539</a>       |      |     |                    |       |                              |                         |
| P26                                                             | D20                             |                                  |                    | Fork      |                                                   |                                 |            |                    |               | 50Ω | <a href="#">31-5539-1010</a>  |      |     |                    |       |                              |                         |
| P26                                                             | D22                             | V/P                              | Metal Housing      | Round     |                                                   |                                 |            |                    |               | 50Ω | <a href="#">31-5633</a>       |      |     |                    |       |                              |                         |
| P26                                                             | D22                             |                                  |                    | Fork      |                                                   |                                 |            |                    |               | 50Ω | <a href="#">31-5633-1010</a>  |      |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P25                                               | D13                             | R/P        | Iso. White Housing | Fork          | 50Ω | <a href="#">31-5486-10RFX</a> | 2    |     |                    |       |                              |                         |
|                                                                 |                                 |                                  |                    |           | P25                                               | D20                             | R/P        | Iso. Black Housing | Fork          | 50Ω | <a href="#">31-5540-10RFX</a> | 2    |     |                    |       |                              |                         |
| Hex Nut for BNC Bulkhead PCB Receptacles, Package of 100 ea.    |                                 |                                  |                    |           | P3                                                | —                               | —          | Nickel Plated      | —             | —   | <a href="#">31-5652</a>       | 4    |     |                    |       |                              |                         |
| Lockwasher for BNC Bulkhead PCB Receptacles, Package of 100 ea. |                                 |                                  |                    |           | P3                                                | —                               | —          | Nickel Plated      | —             | —   | <a href="#">31-5653</a>       | 5    |     |                    |       |                              |                         |

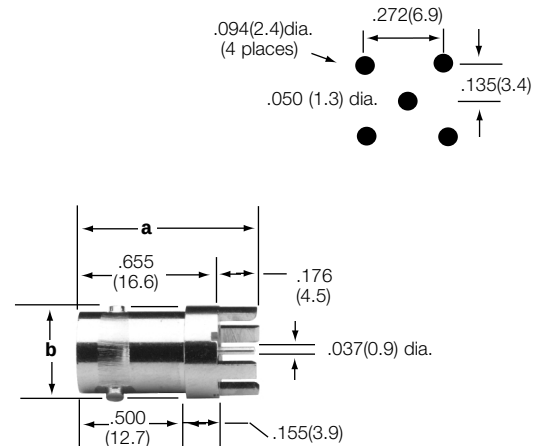
☆ Jam nuts and lockwashers sold separately. See Figs. 4 & 5 ▲ distributor stocked

Fig. 1



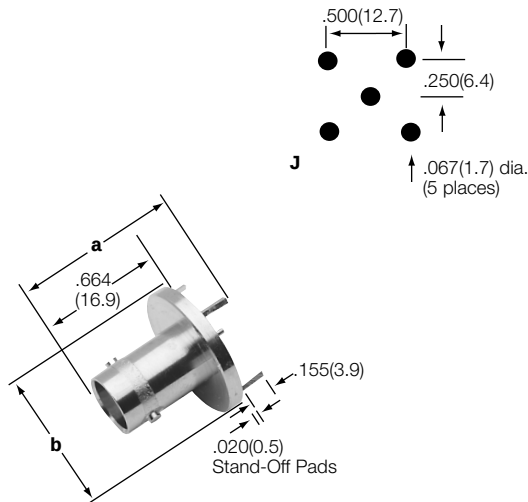
BNC PCB Receptacle (Jack)  
Post Terminal, 3 Legs  
.380" (9.6mm) Dia. Base  
**31-5329**

Fig. 2



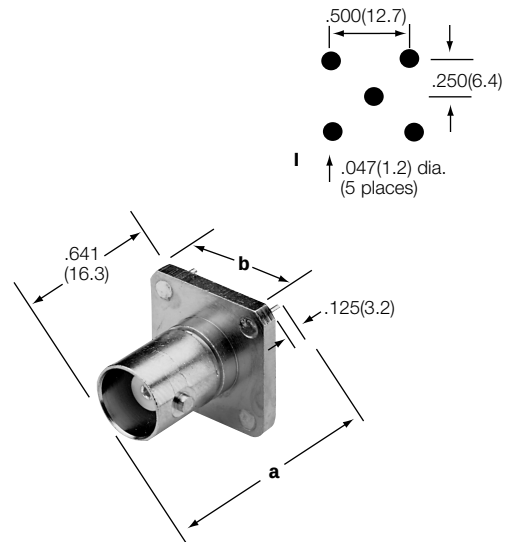
BNC PCB Receptacle (Jack)  
Post Terminal, 4 Legs  
.433" (11.0mm) Dia. Base  
**31-5329-51RFX**  
**31-5329-52RFX**

Fig. 3



BNC PCB Receptacle (Jack)  
Post Terminal, 4 Legs  
**31-4758**

Fig. 4

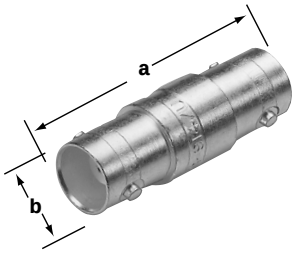
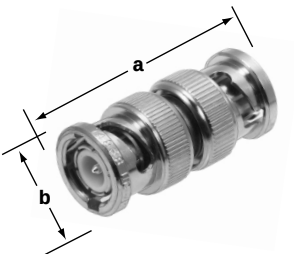
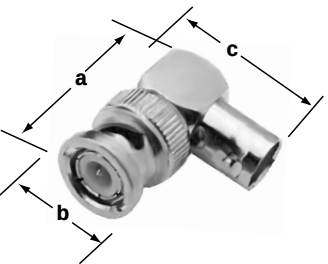
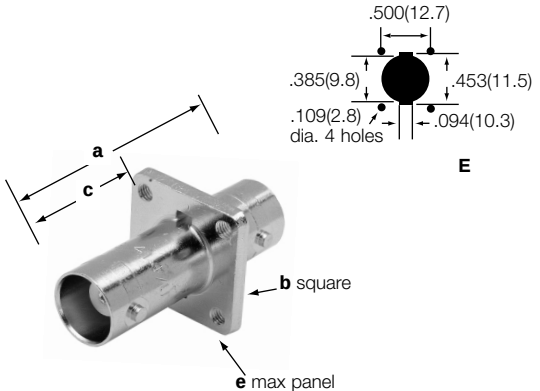


BNC PCB Receptacle (Jack)  
Post Terminal, 4 Legs  
**18225**

## PRINTED CIRCUIT BOARD RECEPTACLES

| Description                                                                                                  | Terminal Type | Dimensions, inches (mm) |                | Notes |      |      | Mtg. Hole | Amphenol Number      | Fig. |
|--------------------------------------------------------------------------------------------------------------|---------------|-------------------------|----------------|-------|------|------|-----------|----------------------|------|
|                                                                                                              |               | a                       | b              | Plt.  | Ins. | Imp. |           |                      |      |
| PCB Receptacle, 3 Legs .125(3.2) Long/Post Terminal .040(1.0) Dia. x .125(3.2) Long/.025(0.6) Stand-off Pads | Blunt Post    | .794(20.2)              | .434(11.0)     | P6    | D1   | 50Ω  | K         | <b>31-5329</b>       | 1    |
| PCB Receptacle, 4 Legs .176(4.5) Long/Post terminal .037(0.9) Dia. Silver Contact                            | Blunt Post    | .831(21.1)              | .433(11.0) dia | P1    | D25  | 50Ω  | F         | <b>31-5329-51RFX</b> | 2 ▲  |
| PCB Receptacle, 4 Legs .176(4.5) Long/Post terminal .037(0.9) Dia. Gold Contact                              | Blunt Post    | .831(21.1)              | .433(11.0) dia | P17   | D25  | 50Ω  | F         | <b>31-5329-52RFX</b> | 2 ▲  |
| PCB Receptacle, 4 Legs .155(3.9) Long/.020(0.5) Stand-off Pads/Post terminal .040(1.0) Dia.                  | Blunt Post    | .819(20.8)              | .812(20.6) dia | P1    | D1   | 50Ω  | J         | <b>31-4758</b>       | 3    |
| PCB Receptacle, 4 Legs and Post Terminal .040(1.0) Dia. x .125(3.2) Long                                     | Blunt Post    | .766(19.4)              | .688(17.5) dia | P1    | D1   | 50Ω  | I         | <b>18225</b>         | 4    |

▲ distributor stocked

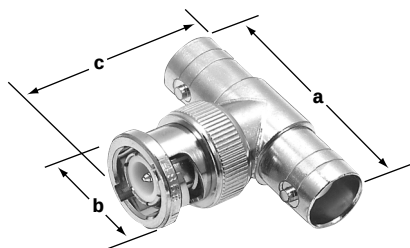
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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Fig. 1</p>  <p>BNC Straight Adapters - Jack/Jack<br/><b>31-219</b><br/><b>31-219-RFX</b></p> | <p>Fig. 2</p>  <p>BNC Straight Adapters - Plug/Plug<br/><b>31-218</b><br/><b>31-218-RFX</b></p> |
| <p>Fig. 3</p>  <p>BNC Angle Adapters - Jack/Plug<br/><b>31-9</b><br/><b>31-9-RFX</b></p>        | <p>Fig. 4</p>  <p>BNC Panel Adapter - Jack/Jack<br/><b>47000</b></p>                            |

## BNC ADAPTERS - STRAIGHT, ANGLE, PANEL MOUNT

| Description                     |           | Dimensions, inches (millimeters) |            |            |           | Notes |      | Mtg. Hole | Military Number | Amphenol Number            | Fig. |
|---------------------------------|-----------|----------------------------------|------------|------------|-----------|-------|------|-----------|-----------------|----------------------------|------|
|                                 |           | a                                | b          | c          | e         | Plt.  | Ins. |           |                 |                            |      |
| Straight                        | Jack-Jack | 1.28(32.5)                       | .437(11.1) | —          | —         | P1    | D1   | —         | UG-914/U        | <a href="#">31-219*</a>    | 1 ▲  |
|                                 |           |                                  |            |            |           | P7    | D26  | —         | —               | <a href="#">31-219-RFX</a> | 1 ▲  |
| Straight                        | Plug-Plug | 1.25(31.8)                       | .562(14.3) | —          | —         | P1    | D1   | —         | UG-491A/U       | <a href="#">31-218*</a>    | 2 ▲  |
|                                 |           |                                  |            |            |           | P7    | D1   | —         | —               | <a href="#">31-218-RFX</a> | 2 ▲  |
| Angle                           | Jack-Plug | 1.06(27.0)                       | .562(14.3) | 1.02(25.8) | —         | P1    | D1   | —         | UG-306/U        | <a href="#">31-9*‡</a>     | 3 ▲  |
|                                 |           | 1.06(27.0)                       | .562(14.3) | 1.02(25.8) | —         | P1    | D1   | —         | —               | <a href="#">31-9-RFX</a>   | 3 ▲  |
|                                 |           | 1.09(27.6)                       | .594(15.1) | 1.02(25.8) | —         | P34   | D1   | —         | M55339/14-00306 | <a href="#">31-4561</a>    | 3    |
| Panel, 3-56 Tapped Flange Holes | Jack-Jack | 1.28(32.5)                       | .688(17.5) | .691(17.6) | .250(6.4) | P1    | D1   | E         | —               | <a href="#">47000*</a>     | 4    |

\* recognized under the component program of U.L., Inc. ▲ distributor stocked ‡ IBM 6028521

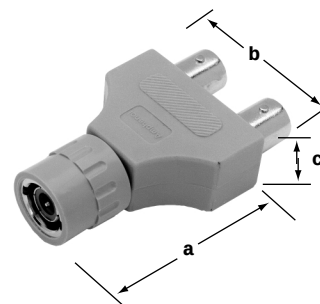
Fig. 1



Tee Adapters - Jack-Plug-Jack

**31-208**  
**31-208-RFX**  
**31-208-1051**  
**31-2208**

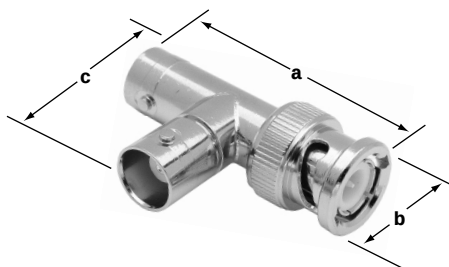
Fig. 2



BNC Overmolded Tee Adapter  
Jack-Plug-Jack

**31-5693**

Fig. 3



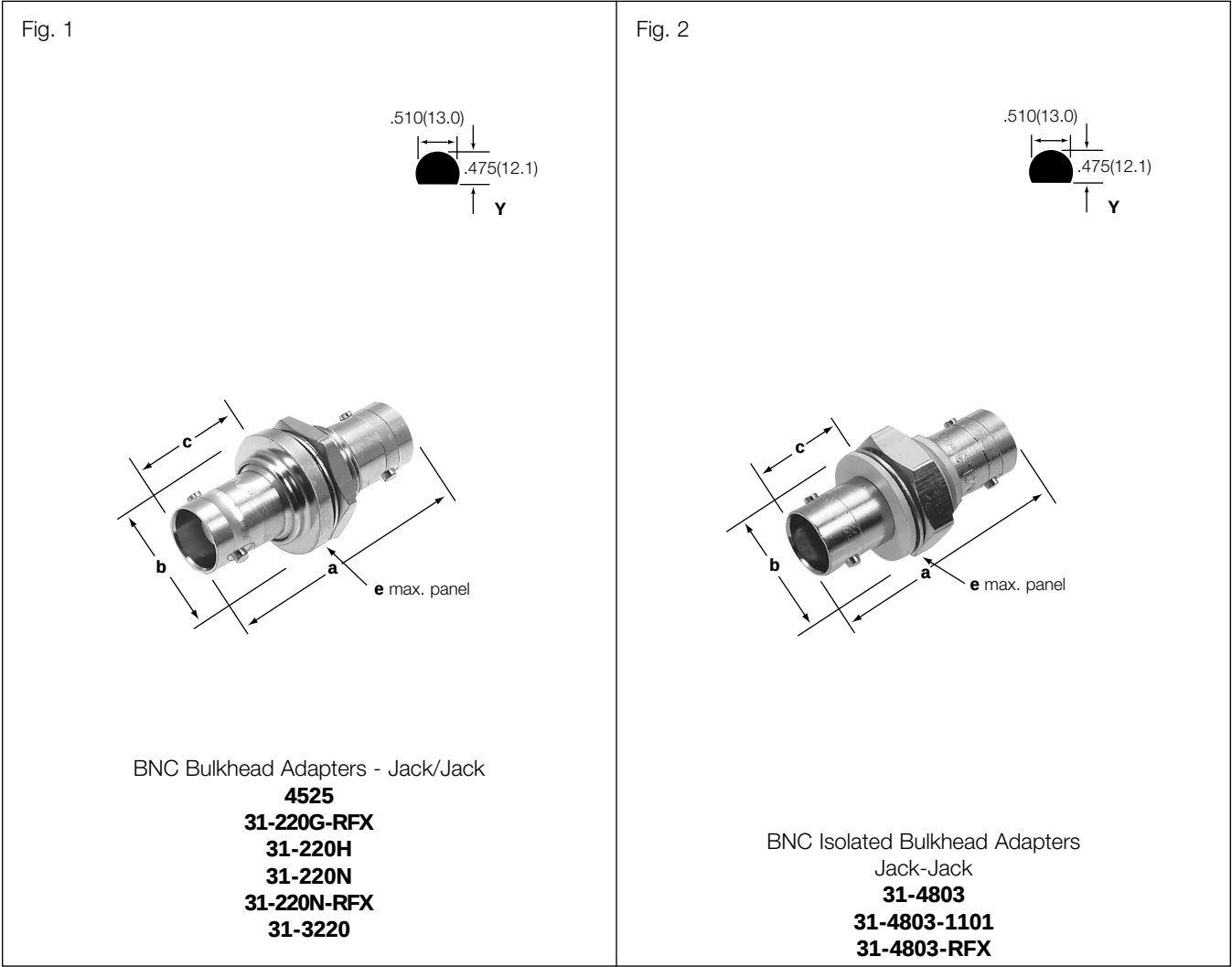
BNC Tee Adapter  
Plug-Jack-Jack

**21900**

## BNC TEE ADAPTERS

| Description     |                | Dimensions, inches (millimeters) |            |            | Notes |      | Military Number | Amphenol Number             | Fig. |   |
|-----------------|----------------|----------------------------------|------------|------------|-------|------|-----------------|-----------------------------|------|---|
|                 |                | a                                | b          | c          | Plt.  | Ins. |                 |                             |      |   |
| Tee             | Jack-Plug-Jack | 1.28(32.5)                       | .562(14.3) | 1.06(27.0) | P1    | D1   | UG-274A/U       | <a href="#">31-208*</a>     | 1    | ▲ |
| Tee             | Jack-Plug-Jack | 1.30(33.0)                       | .571(14.5) | 1.04(26.3) | P7    | D23  | —               | <a href="#">31-208-RFX</a>  | 1    | ▲ |
| Tee             | Jack-Plug-Jack | 1.28(32.5)                       | .562(14.3) | 1.06(27.0) | P15   | D1   | —               | <a href="#">31-208-1051</a> | 1    |   |
| Tee             | Jack-Plug-Jack | 1.28(32.5)                       | .562(14.3) | 1.06(27.0) | P4    | D1   | UG-274B/U       | <a href="#">31-2208*</a>    | 1    |   |
| Tee, Overmolded | Jack-Plug-Jack | 1.72(43.6)                       | 1.32(33.5) | .550(14.0) | P7    | D14  | —               | <a href="#">31-5693</a>     | 2    | ▲ |
| Tee             | Plug-Jack-Jack | 1.53(38.9)                       | .375(9.52) | 1.00(25.4) | P1    | D9   | —               | <a href="#">21900*</a>      | 3    |   |

\* recognized under the component program of U.L., Inc. ▲ distributor stocked



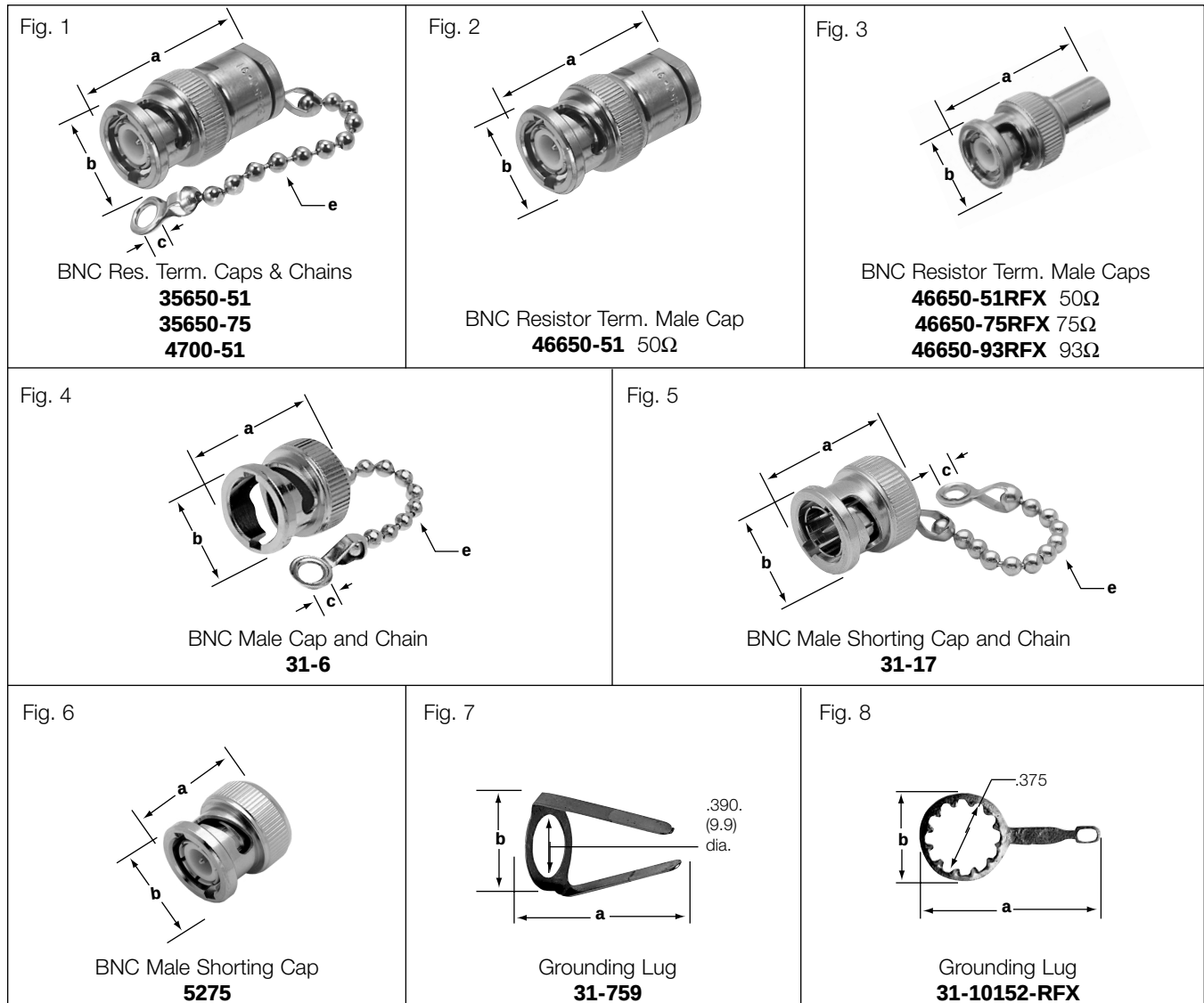
BNC BULKHEAD ADAPTERS

| Description         |           | Dimensions, inches (millimeters) |             |            |           | Notes |      | Mtg. Hole | Military Number | Amphenol Number | Fig. |   |
|---------------------|-----------|----------------------------------|-------------|------------|-----------|-------|------|-----------|-----------------|-----------------|------|---|
|                     |           | a                                | b           | c          | e         | Plt.  | Ins. |           |                 |                 |      |   |
| Sealed, 50 PSI      | Jack-Jack | 1.40(35.6)                       | .687(17.45) | .683(17.3) | .187(4.8) | P1    | D1   | Y         | UG-492A/U       | 31-220H *‡      | 1    | ▲ |
|                     | Jack-Jack | 1.53(38.9)                       | .688(17.5)  | .672(17.0) | .281(7.1) | P4    | D1   | Y         | UG-492D/U       | 31-3220*        | 1    | ▲ |
| Gasketed            | Jack-Jack | 1.56(39.6)                       | .689(17.5)  | .681(17.3) | .295(7.5) | P7    | D23  | Y         | —               | 31-220G-RFX     | 1    | ▲ |
|                     | Jack-Jack | 1.40(35.6)                       | .800(20.3)  | .659(16.7) | .160(4.1) | P1    | D1   | Y         | —               | 4525*           | 1    | ▲ |
| Non-sealed          | Jack-Jack | 1.40(35.6)                       | .800(20.3)  | .664(16.9) | .187(4.8) | P1    | D1   | Y         | —               | 31-220N         | 1    | ▲ |
|                     |           | 1.28(32.5)                       | .610(15.5)  | .492(12.5) | .216(5.5) | P7    | D23  | Y         | —               | 31-220N-RFX     | 1    | ▲ |
| Isolated from Panel | Jack-Jack | 1.28(32.5)                       | .625(15.9)  | .460(11.7) | .187(4.8) | P1    | D12  | Y         | —               | 31-4803         | 2    | ▲ |
|                     |           | 1.28(32.5)                       | .625(15.9)  | .460(11.7) | .187(4.8) | P15   | D12  | Y         | —               | 31-4803-1101    | 2    |   |
|                     |           | 1.28(32.5)                       | .625(15.9)  | .460(11.7) | .187(4.8) | P15   | D12  | Y         | —               | 31-4803-RFX     | 2    |   |

\* recognized under the component program of U.L., Inc. ▲ distributor stocked ‡ IBM 5252764

# BNC 50 ohm Caps & Accessories

Amphenol®



## BNC CAPS & ACCESSORIES

| Description                                                                                         |     | Dimensions, inches (millimeters) |            |           |            | Notes |      | Military Number | Amphenol Number      | Fig. |
|-----------------------------------------------------------------------------------------------------|-----|----------------------------------|------------|-----------|------------|-------|------|-----------------|----------------------|------|
|                                                                                                     |     | a                                | b          | c         | e          | Plt.  | Ins. |                 |                      |      |
| Male Cap & Chain<br>Resistor Terminated, 1% 1/2watt                                                 | 50Ω | 1.19(30.2)                       | .562(14.3) | .144(3.7) | 3.50(88.9) | P1    | D1   | —               | <b>35650-51*</b>     | 1 ▲  |
|                                                                                                     | 75Ω |                                  |            |           |            | P1    | D1   | —               | <b>35650-75*</b>     | 1 ▲  |
|                                                                                                     | 51Ω |                                  |            |           |            | P1    | D6   | MX-554          | <b>4700-51*</b>      | 1 ▲  |
| Male Cap, Resistor Terminated,<br>1% 1 watt                                                         | 51Ω | 1.12(28.6)                       | .562(14.3) | —         | —          | P1    | D1   | —               | <b>46650-51*</b>     | 2 ▲  |
| Male Cap, Resistor Terminated,<br>1% 1 watt                                                         | 50Ω | 1.11(28.1)                       | .571(14.5) | —         | —          | P1    | D23  | —               | <b>46650-51RFX</b>   | 3 ▲  |
|                                                                                                     | 75Ω |                                  |            |           |            |       |      |                 | <b>46650-75RFX</b>   | 3 ▲  |
|                                                                                                     | 93Ω |                                  |            |           |            |       |      |                 | <b>46650-93RFX</b>   | 3 ▲  |
| Male Cap & Chain                                                                                    |     | .688(17.5)                       | .563(14.3) | .130(3.3) | 2.25(57.2) | P3    | —    | CW-123/U        | <b>31-6*</b>         | 4 ▲  |
| Male Shorting Cap & Chain                                                                           |     | .688(17.5)                       | .563(14.3) | .144(3.7) | 2.50(63.5) | P1    | —    | CW-159/U        | <b>31-17*</b>        | 5 ▲  |
| Male Shorting Cap                                                                                   |     | .594(15.1)                       | .563(14.3) | —         | —          | P1    | —    | —               | <b>5275*</b>         | 6 ▲  |
| Pkg. of 25 Lugs Used Inside Panel on Front Mount<br>Bulkhead Receptacles to Ground Cable Shield*    |     | .961(24.4)                       | .578(14.7) | —         | —          | P3    | —    | (IBM 2245373)   | <b>31-759*</b>       | 7 ▲  |
| Pkg. of 25 Lugs Used Inside Panel on Front Mount<br>Bulkhead Receptacles for Ground Wire to Circuit |     | 1.156(29.4)                      | .578(14.7) | —         | —          | P8    | —    | —               | <b>31-10152-RFX*</b> | 8 ▲  |

■ IBM 3110787 \* recognized under the component program of U.L., Inc. ▲ distributor stocked

Description

To meet the need for higher performance, impedance matched cable interconnections, Amphenol offers a full line of 75 ohm BNC connectors. These connectors can be used in a variety of applications where true 75 ohm performance is needed to insure lower signal distortion.

Features/Benefits

Designed for the most popular 75 ohm cables used in broadcast and CATV applications as well as for plenum cables and others — these connectors feature crimp-crimp cable affixment for quick and reliable installation.

Two distinct types of 75Ω BNCs are available. Both types mate with each other and with 50Ω BNCs.

- Type 1 is designated 75Ω BNC-T1 and provides constant 75Ω performance with low VSWR DC to 4 GHz.
- Type 2 is designated 75Ω BNC-T2 and is usable with low reflection DC to 1 GHz. For applications above 1 GHz, Type 1 is recommended.

Applications

- Broadcast
- Satellite TV Earth Stations
- Telecommunications
- LAN
- Test and Measurement
- Security Transmission Systems
- Telecom
- Computer Networks
- HDTV



75 ohm

|                     |         |
|---------------------|---------|
| 75 ohm Connectors   | 123     |
| BNC Plugs and Jacks | 125-132 |
| Adapters            | 133-134 |

# BNC 75 ohm Specifications

Amphenol®

## ELECTRICAL

|                                 |                                                                                            |
|---------------------------------|--------------------------------------------------------------------------------------------|
| Impedance                       | 75 ohms nominal                                                                            |
| Frequency range                 | 0-4 GHz                                                                                    |
| Voltage rating                  | 500 volts rms                                                                              |
| Dielectric withstanding voltage | 1,500 volts rms.                                                                           |
| Insulation resistance           | 5,000 megohms min.                                                                         |
| VSWR                            | Type 1:<br>1.5 + 0.1 f(GHz)<br>DC to 4 GHz<br>Type 2:<br>1.00 + 0.25 f(GHz)<br>DC to 1 GHz |

\* These characteristics are typical and may not apply to all connectors.

## MATERIAL

|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| Body, coupling sleeve, male contact | Brass                                       |
| Female contact                      | Beryllium copper or phosphor bronze         |
| Crimp ferrule                       | Copper alloy                                |
| Plating                             | Contacts: gold<br>Other metal parts: Nickel |

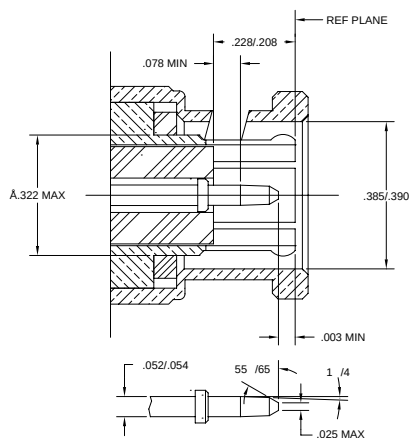
## MECHANICAL

|                 |                     |
|-----------------|---------------------|
| Mating          | 2-stud bayonet lock |
| Cable affixment | Crimp-Crimp         |

## ENVIRONMENTAL

|                     |                                                                                   |
|---------------------|-----------------------------------------------------------------------------------|
| Temperature range   | TFE insulators:<br>- 65°C to + 165°C<br>Copolymer of Styrene:<br>- 55°C to + 85°C |
| Weatherproof        | Clamps with clamp gaskets.<br>Crimps with heat-shrink tubing.                     |
| Hermetic seals      | Pass helium leak test of 2 X 10 <sup>-8</sup> cc/sec                              |
| Shock               | MIL-Std. 202 method 202                                                           |
| Vibration           | MIL-Std. 202 method 204 (test cond. D)                                            |
| Moisture resistance | MIL-Std. 202 method 106                                                           |
| Corrosion           | MIL-Std. 202 method 101 (test cond. B)                                            |
| Temperature cycling | MIL-Std. 202 method 102 (test cond. D)                                            |
| Altitude            | MIL-Std. 202 method 105 (test cond. C)                                            |

## PLUG



## JACK

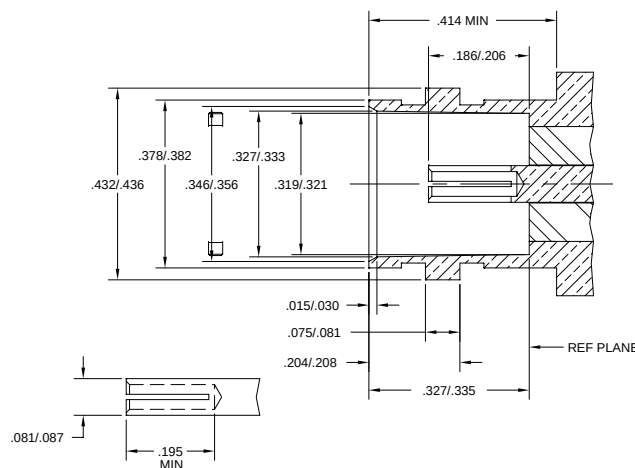
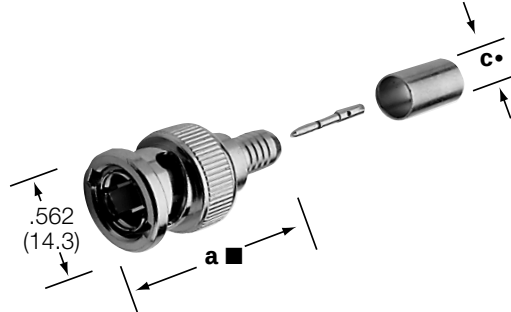


Fig. 1



75Ω BNC Crimp Plugs

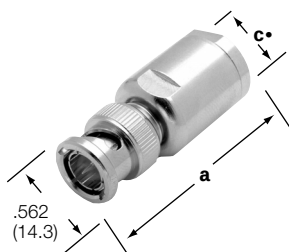
|                      |                     |                      |                      |
|----------------------|---------------------|----------------------|----------------------|
| <b>31-70000</b>      | <b>31-70222</b>     | <b>31-71008</b>      | <b>31-71013-1000</b> |
| <b>31-70000-1000</b> | <b>31-70234</b>     | <b>31-71008-1000</b> | <b>31-71032</b>      |
| <b>31-70008</b>      | <b>31-70235</b>     | <b>31-71008-2000</b> | <b>31-71033</b>      |
| <b>31-70008-1000</b> | <b>31-70236</b>     | <b>31-71008-1RFX</b> | <b>31-71034</b>      |
| <b>31-70008-3000</b> | <b>31-70237</b>     | <b>31-71008-RFX</b>  | <b>31-71035</b>      |
| <b>31-70013</b>      | <b>31-70238</b>     | <b>31-71013</b>      | <b>31-71064</b>      |
| <b>31-70013-1000</b> | <b>31-71000-RFX</b> | <b>31-71013-RFX</b>  | <b>31-71065</b>      |
|                      |                     |                      | <b>31-71066</b>      |

## 75Ω BNC PLUGS AND ANGLE PLUGS

| Cable<br>RG-/U                                                     | Connector<br>Configuration | Cable Attachment |       | Dimensions, inches (millimeters) |            |   | Notes |      |      | 75Ω<br>Type | Amphenol<br>Number             | Fig. |
|--------------------------------------------------------------------|----------------------------|------------------|-------|----------------------------------|------------|---|-------|------|------|-------------|--------------------------------|------|
|                                                                    |                            | Outer            | Inner | a ■                              | c •        | d | CAI   | Plt. | Ins. |             |                                |      |
| RG-6 Type .295" O.D. max.<br>Belden 9248, 1694A<br>(Single Shield) | Plug                       | Crimp            | Crimp | 1.35(34.3)                       | .300(7.6)  | — | C31   | P15  | D1   | T1          | <a href="#">31-70000</a> ☆     | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.21(30.7)                       | .300(7.6)  | — | C32   | P7   | D26  | T2          | <a href="#">31-71000-RFX</a> ☆ | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.25(31.8)                       | .300(7.6)  | — | C31   | P15  | D1   | T1          | <a href="#">31-70000-1000</a>  | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.21(30.7)                       | .300(7.6)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71064</a>       | 1 ▲  |
| 59, 62<br>Belden 8241, 8263,<br>8279, 9209                         | Plug                       | Crimp            | Crimp | 1.25(31.7)                       | .261(6.6)  | — | C31   | P16  | D1   | T1          | <a href="#">31-70008</a>       | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.12(28.6)                       | .261(6.6)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71008</a>       | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.17(29.8)                       | .260(6.6)  | — | C32   | P7   | D26  | T2          | <a href="#">31-71008-RFX</a>   | 1 ▲  |
| 59 (20GA CC)<br>Belden 1426A, 1505A<br>9100, 9278                  | Plug                       | Crimp            | Crimp | 1.25(31.8)                       | .261(6.6)  | — | C31   | P15  | D1   | T1          | <a href="#">31-70008-3000</a>  | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.12(28.5)                       | .261(6.6)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71008-1000</a>  | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.17(29.8)                       | .261(6.6)  | — | C32   | P7   | D26  | T2          | <a href="#">31-71008-1RFX</a>  | 1 ▲  |
| Plenum 59, Belden 88241<br>82259, 89259                            | Plug                       | Crimp            | Crimp | 1.11(28.2)                       | .220(5.6)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71008-2000</a>  | 1 ▲  |
| Plenum 59 (20GA CC)<br>Belden 82108                                | Plug                       | Crimp            | Crimp | 1.11(28.2)                       | .220(5.6)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71035</a>       | 1 ▲  |
| DbI Shield 59 (20GA CC)                                            | Plug                       | Crimp            | Crimp | 1.36(34.5)                       | .334(8.5)  | — | C31   | P15  | D1   | T1          | <a href="#">31-70222</a>       | 1 ▲  |
| 179, 187                                                           | Plug                       | Crimp            | Crimp | 1.33(33.5)                       | .120(3.0)  | — | C31   | P15  | D1   | T1          | <a href="#">31-70013</a>       | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.19(30.2)                       | .120(3.0)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71013</a>       | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.19(30.2)                       | .106(2.7)  | — | C32   | P17  | D23  | T2          | <a href="#">31-71013-RFX</a>   | 1 ▲  |
| DbI. Br. 179                                                       | Plug                       | Crimp            | Crimp | 1.25(31.7)                       | .175(4.4)  | — | C31   | P15  | D1   | T1          | <a href="#">31-70013-1000</a>  | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.11(28.2)                       | .175(4.4)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71013-1000</a>  | 1 ▲  |
| ATT 728B, Belden 9231                                              | Plug                       | Crimp            | Crimp | 1.36(34.5)                       | .342(8.7)  | — | C31   | P16  | D1   | T1          | <a href="#">31-70022</a>       | 1 ▲  |
| ATT 734A                                                           | Plug                       | Crimp            | Crimp | 1.25(31.7)                       | .261(6.6)  | — | C31   | P15  | D1   | T1          | <a href="#">31-70008-1000</a>  | 1 ▲  |
| Belden 8218                                                        | Plug                       | Crimp            | Crimp | 1.11 (28.2)                      | .175(4.4)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71033</a>       | 1 ▲  |
| Belden 8281, 88281                                                 | Plug                       | Crimp            | Crimp | 1.21 (30.7)                      | .342(8.7)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71032</a>       | 1 ▲  |
| Belden 89248, (Plenum)                                             | Plug                       | Crimp            | Crimp | 1.35 (34.3)                      | .250 (6.4) | — | C31   | P15  | D1   | T1          | <a href="#">31-70000</a> ☆     | 1 ▲  |
| Belden 9290, 1152A<br>(Double Shield)                              | Plug                       | Crimp            | Crimp | 1.21 (30.7)                      | .314(8.0)  | — | C32   | P7   | D26  | T2          | <a href="#">31-71000-RFX</a> ☆ | 1 ▲  |
|                                                                    | Plug                       | Crimp            | Crimp | 1.21 (30.7)                      | .314(8.0)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71065</a>       | 1 ▲  |
| Belden 89292                                                       | Plug                       | Crimp            | Crimp | 1.62 (41.1)                      | .418(10.6) | ※ | C32   | P15  | D1   | T2          | <a href="#">31-71034</a>       | 1 ▲  |
| Quad 59 Headend Cable                                              | Plug                       | Crimp            | Crimp | 1.12 (28.6)                      | .287(7.3)  | — | C32   | P15  | D1   | T2          | <a href="#">31-71066</a>       | 1 ▲  |
| Belden 1694                                                        | Plug                       | Crimp            | Crimp | 1.00(25.4)                       | .260(6.6)  | — | C26a  | P7   | D1   | T1          | <a href="#">31-70234</a>       | 1    |
| Belden 8281                                                        | Plug                       | Crimp            | Crimp | 1.00(25.4)                       | .260(6.6)  | — | C26a  | P7   | D1   | T1          | <a href="#">31-70235</a>       | 1    |
| Belden 8218                                                        | Plug                       | Crimp            | Crimp | 1.00(25.4)                       | .260(6.6)  | — | C26a  | P7   | D1   | T1          | <a href="#">31-70236</a>       | 1    |
| Belden 734A                                                        | Plug                       | Crimp            | Crimp | 1.00(25.4)                       | .260(6.6)  | — | C26a  | P7   | D1   | T1          | <a href="#">31-70237</a>       | 1    |
| Belden 735A                                                        | Plug                       | Crimp            | Crimp | 1.00(25.4)                       | .260(6.6)  | — | C26a  | P7   | D1   | T1          | <a href="#">31-70238</a>       | 1    |

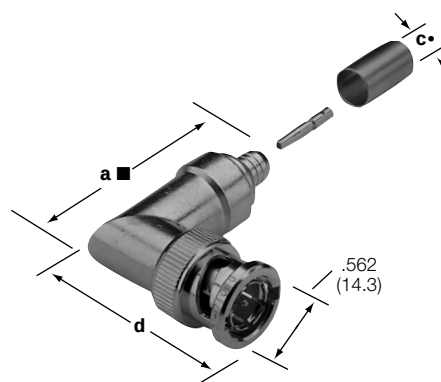
• accommodates cable diameter ■ includes outer ferrule ☆ supplied with two crimp ferrules ▲ Distributor Stocked ※ OD = .590(15.0)

Fig. 1



75Ω BNC Clamp Plug  
**6775-75**

Fig. 2



75Ω BNC Crimp Angle Plugs  
**31-70015-1000**      **31-71010-RFX**  
**31-70082**            **31-70239**  
**31-71010**            **31-70240**

## 75Ω BNC PLUGS AND ANGLE PLUGS

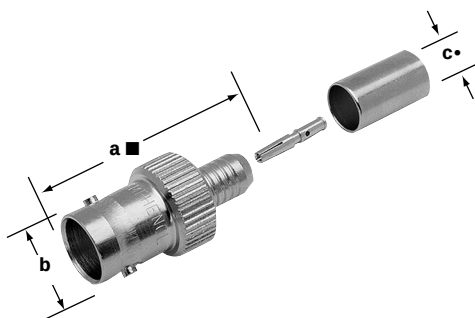
| Cable<br>RG-/U                              | Connector<br>Configuration | Cable Attachment |        | Dimensions, inches (millimeters) |            |            | Notes |      |      | 75Ω<br>Type | Amphenol<br>Number   | Fig. |
|---------------------------------------------|----------------------------|------------------|--------|----------------------------------|------------|------------|-------|------|------|-------------|----------------------|------|
|                                             |                            | Outer            | Inner  | a ■                              | c •        | d          | CAI   | Plt. | Ins. |             |                      |      |
| <b>11</b>                                   | Plug                       | Clamp            | Solder | 1.75(44.4)                       | .443(11.2) | —          | C25   | P1   | D1   | T2          | <b>6775-75</b>       | 1    |
| <b>59, 62 Belden 8241, 8263, 8279, 9209</b> | Angle Plug                 | Crimp            | Crimp  | 1.66(42.2)                       | .261(6.6)  | 1.24(31.5) | C32   | P15  | D1   | T2          | <b>31-71010</b>      | 2    |
|                                             | Angle Plug                 | Crimp            | Crimp  | 1.66(42.2)                       | .260(6.6)  | 1.07(27.3) | C32   | P7   | D23  | T2          | <b>31-71010-RFX</b>  | 2    |
| <b>ATT 735A</b>                             | Angle Plug                 | Crimp            | Solder | 1.09(27.7)                       | .158(4.0)  | .894(22.7) | C31   | P15  | D1   | T1          | <b>31-70082</b>      | 2    |
| <b>ATT 19224-L2</b>                         | Angle Plug                 | Crimp            | Crimp  | 1.63(41.4)                       | .175(4.4)  | 1.24(31.5) | C31   | P16  | D1   | T1          | <b>31-70015-1000</b> | 2    |
| <b>AT&amp;T 734A†</b>                       | Angle Plug                 | Crimp            | Crimp  | .571(14.5)                       | .295(7.5)  | 1.36(34.5) | C31   | P7   | D1   | T1          | <b>31-70239</b>      | 2    |
| <b>AT&amp;T 735A†</b>                       | Angle Plug                 | Crimp            | Crimp  | .571(14.5)                       | .295(7.5)  | 1.36(34.5) | C31   | P7   | D1   | T1          | <b>31-70240</b>      | 2    |

• accommodates cable diameter ■ includes outer ferrule ☆ supplied with two crimp ferrules ▲ Distributor Stocked ※ OD = .590(15.0) † Low Cost

# BNC 75 ohm Jacks & Receptacles

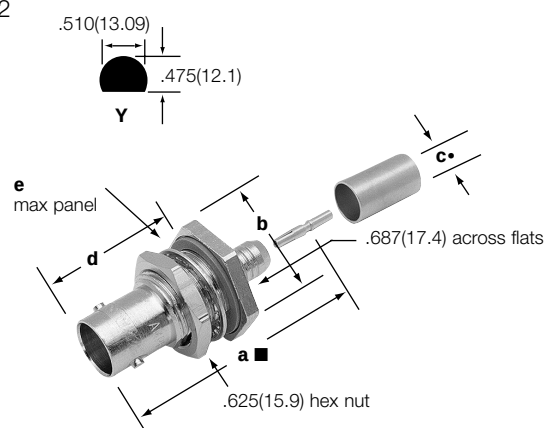
Amphenol®

Fig. 1



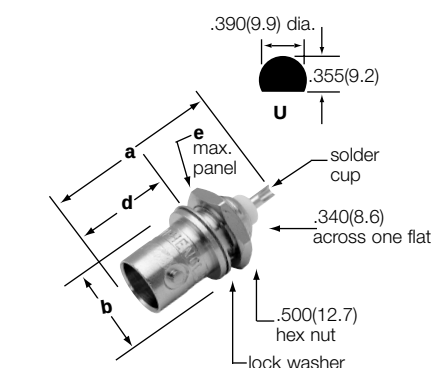
75Ω BNC Crimp Jacks  
**31-70009**  
**31-71014-RFX**

Fig. 2



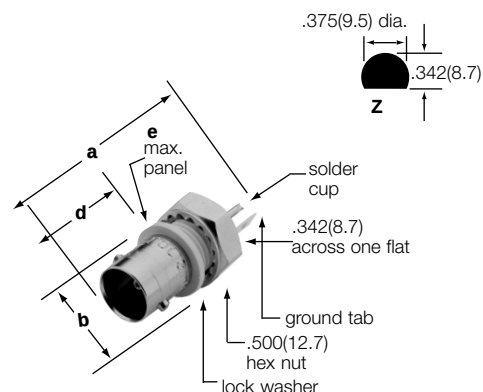
75Ω BNC Crimp Bulkhead Jacks  
**31-70016**  
**31-70016-1000**  
**31-71011**  
**31-71011-RFX**  
**31-71016**  
**31-71016-RFX**

Fig. 3



75Ω BNC Receptacles (J) Front Mount  
**31-221-75RFX**  
**31-70018**  
**31-71004**

Fig. 4



75Ω BNC Receptacle (J) Isolated from Panel  
with Solder Cup & Ground Tab  
**31-10-75**  
**31-10-75 RFXG2**

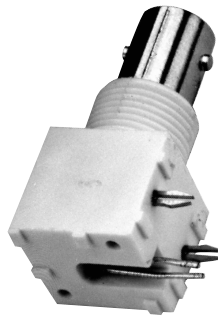
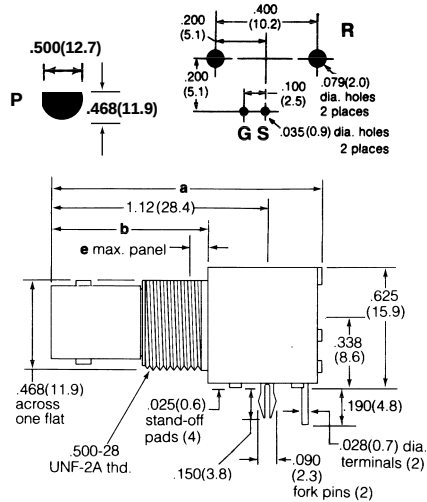
## 75Ω BNC JACKS & RECEPTACLES

| Cable RG/U                                          | Connector Type | Dimensions, inches (millimeters) |               |           |            |           | Notes |      |      | Mtg. Hole | 75Ω Type | Amphenol Number       | Fig. |
|-----------------------------------------------------|----------------|----------------------------------|---------------|-----------|------------|-----------|-------|------|------|-----------|----------|-----------------------|------|
|                                                     |                | a ■                              | b             | c •       | d          | e         | CAI   | Plt. | Ins. |           |          |                       |      |
| <b>59, Belden</b>                                   | Jack           | 1.18(30.0)                       | .510(12.9)    | .261(6.6) | —          | —         | C31   | P17  | D1   | —         | T1       | <b>31-70009</b>       | 1    |
| <b>8241, 8263</b>                                   | Bulkh. Jack    | 1.41(35.7)                       | .795(20.2)dia | .261(6.6) | .812(20.6) | .250(6.4) | C32   | P15  | D1   | Y         | T2       | <b>31-71011</b>       | 2    |
| <b>59, 62, 140, 210</b>                             | Bulkh. Jack    | 1.38(35.1)                       | .687(17.5)    | .260(6.6) | .710(18.0) | .138(3.5) | C32   | P7   | D23  | Y         | T2       | <b>31-71011-RFX</b>   |      |
| <b>179, 187</b>                                     | Jack           | 1.37(35.0)                       | .435(11.0)    | .106(2.7) | —          | —         | C32   | P7   | D23  | —         | T2       | <b>31-71014-RFX</b>   | 1    |
|                                                     | Bulkh. Jack    | 1.48(37.7)                       | .687(17.4)hex | .120(3.0) | .812(20.6) | .250(6.4) | C31   | P17  | D1   | Y         | T1       | <b>31-70016</b>       | 2    |
|                                                     |                | 1.41(35.7)                       | .795(20.2)dia | .120(3.0) | .812(20.6) | .250(6.4) | C32   | P15  | D1   | Y         | T2       | <b>31-71016</b>       |      |
|                                                     |                | 1.43(36.4)                       | .687(17.4)hex | .106(2.7) | .710(18.0) | .138(3.5) | C32   | P7   | D23  | Y         | T2       | <b>31-71016-RFX</b>   |      |
| <b>Dbl. Br. 179 ATT 19224-L2</b>                    | Bulkh. Jack    | 1.48(37.7)                       | .687(17.4)hex | .175(4.4) | .812(20.6) | .250(6.4) | C31   | P15  | D1   | Y         | T1       | <b>31-70016-1000</b>  | 2    |
| Bulkhead Receptacle (J)<br>Front Mount              |                | 1.06(27.0)                       | .490(12.4)    | —         | .472(12.0) | .125(3.2) | —     | P15  | D1   | U         | T2       | <b>31-71004</b>       | 3    |
|                                                     |                | 1.06(27.0)                       | .490(12.4)    | —         | .472(12.0) | .250(6.4) | —     | P15  | D1   | U         | T1       | <b>31-70018</b>       |      |
|                                                     |                | 1.05(26.7)                       | .500(12.7)    | —         | .475(12.1) | .138(3.5) | —     | P7   | D23  | U         | T2       | <b>31-221-75RFX</b>   |      |
| Bulkhead Receptacle (J)<br>Frnt Mt, Iso. from Panel |                | 1.19(30.2)                       | .490(12.4)    | —         | .472(12.0) | .187(4.7) | —     | P15  | D12  | Z         | T2       | <b>31-10-75</b>       | 4    |
| Bulkhead Receptacle (J)<br>Frnt Mt, Iso. from Panel |                | 1.19(30.2)                       | .490(12.4)    | —         | .472(12.0) | .187(4.7) | —     | P7   | D12  | Z         | T2       | <b>31-10-75-RFXG2</b> | 4    |

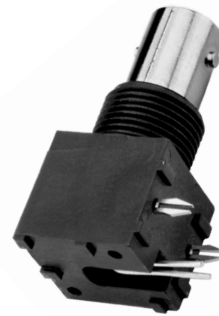
■ Includes outer ferrule • accommodates cable diameter ▲ Distributor Stocked

Fig. 1

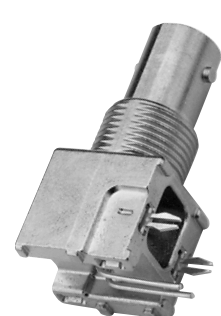
Standard Height BNC Printed Circuit Board Right Angle Bulkhead Receptacles ☆



Isolated from Panel  
White Valox Housing  
**31-71047** (Round Pins)  
**31-71047-1010** (Fork Pins)



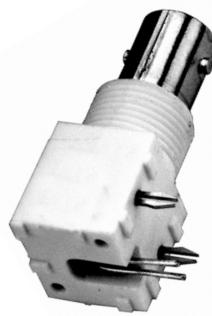
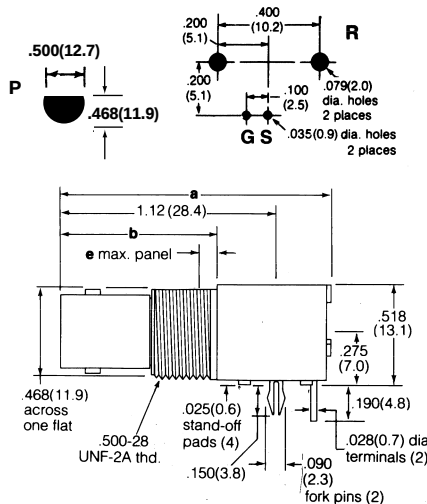
Isolated from Panel  
Black Valox Housing  
**31-71046** (Round Pins)  
**31-71046-1010** (Fork Pins)



Metal Housing  
**31-71043** (Round Pins)  
**31-71043-1010▲**  
(Fork Pins)

Fig. 2

Low Profile BNC Printed Circuit Board Bulkhead Receptacles ☆



Isolated from Panel  
White Valox Housing  
**31-71052** (Round Pins)  
**31-71052-1010** (Fork Pins)  
**31-71052-10RFX**



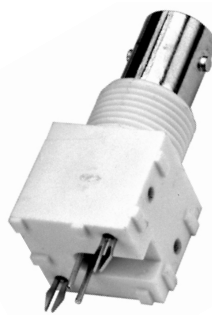
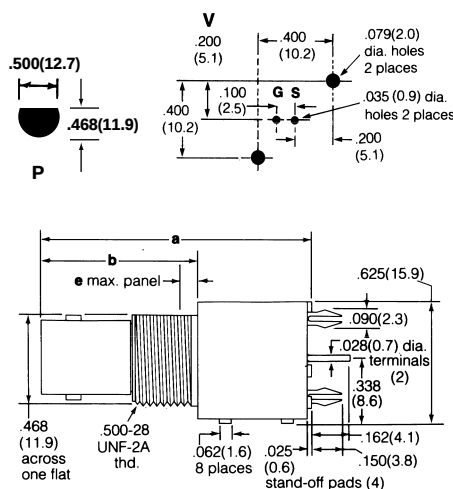
Isolated from Panel  
Black Valox Housing  
**31-71053** (Round Pins)  
**31-71053-1010** (Fork Pins)



Metal Housing  
**31-71042** (Round Pins)

Fig. 3

Vertical BNC Printed Circuit Board Bulkhead Receptacles ☆



Isolated from Panel  
White Valox Housing  
**31-71058** (Round Pins)  
**31-71058-1010** (Fork Pins)

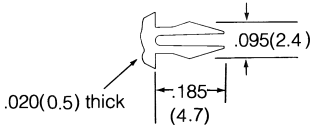
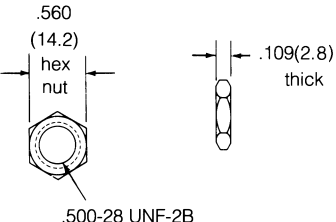
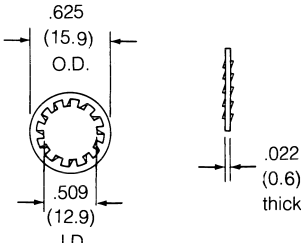
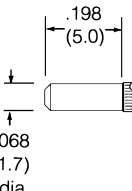


Isolated from Panel  
Black Valox Housing  
**31-71059** (Round Pins)  
**31-71059-1010** (Fork Pins)



Metal Housing  
**31-71045** (Round Pins)  
**31-71045-1010**  
(Fork Pins)

☆ Jam nuts and lockwashers sold separately. ▲ distributor stocked

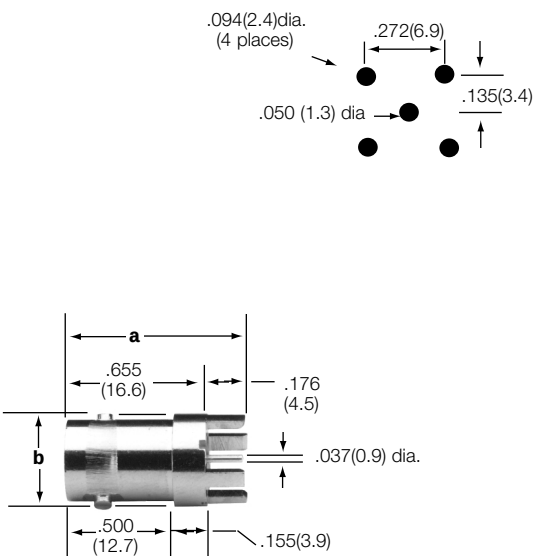
|                                                                                                                                                                                            |                                                                                                                                                                                                 |                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Fork Pin holds connectors rigidly to P.C. Board for high temperature and mass production assembly</p> | <p>Fig. 4</p>  <p>Pkg. of 100, Hex Nut for BNC Bulkhead PCB Receptacles<br/><b>31-5652▲</b> Nickel Plated</p> | <p>Fig. 5</p>  <p>Pkg. of 100, Lockwasher for BNC PCB Bulkhead Receptacles<br/><b>31-5653▲</b> Nickel Plated</p> |
|  <p>Round Pin (Standard)</p>                                                                              |                                                                                                                                                                                                 |                                                                                                                                                                                                     |

## BNC PRINTED CIRCUIT BOARD BULKHEAD RECEPTACLES

| Description                                                     | Terminal Type                   | Dimensions, inches (millimeters) |            |                          | Notes |      | Mtg. Hole | Notes              | Mtg. Pin Type | Imp | Amphenol Number                | Fig |
|-----------------------------------------------------------------|---------------------------------|----------------------------------|------------|--------------------------|-------|------|-----------|--------------------|---------------|-----|--------------------------------|-----|
|                                                                 |                                 | a                                | b          | e                        | Plt.  | Ins. |           |                    |               |     |                                |     |
| Standard Height Printed Circuit Angle Bulkhead Receptacle (J)☆  | Blunt Posts for Signal & Ground | 1.40(35.6)                       | .810(20.6) | .250(6.4)                | P26   | D17  | R/P       | Iso. White Housing | Round         | 75Ω | <a href="#">31-71047</a>       | 1   |
|                                                                 |                                 |                                  |            |                          | P26   | D17  |           |                    | Fork          | 75Ω | <a href="#">31-71047-1010</a>  |     |
|                                                                 |                                 |                                  |            |                          | P26   | D20  | R/P       | Iso. Black Housing | Round         | 75Ω | <a href="#">31-71046</a>       |     |
|                                                                 |                                 |                                  |            |                          | P26   | D20  |           |                    | Fork          | 75Ω | <a href="#">31-71046-1010</a>  |     |
|                                                                 |                                 |                                  |            |                          | P26   | D22  | R/P       | Metal Housing      | Round         | 75Ω | <a href="#">31-71043</a>       |     |
|                                                                 |                                 |                                  |            |                          | P26   | D22  |           |                    | Fork          | 75Ω | <a href="#">31-71043-1010</a>  |     |
| Low Profile Printed Circuit Angle Bulkhead Receptacle (J)☆      | Blunt Posts for Signal & Ground | 1.40(35.6)                       | .810(20.6) | .250(6.4)                | P26   | D17  | R/P       | Iso. White Housing | Round         | 75Ω | <a href="#">31-71052</a>       | 2   |
|                                                                 |                                 |                                  |            |                          | P26   | D17  |           |                    | Fork          | 75Ω | <a href="#">31-71052-1010</a>  |     |
|                                                                 |                                 |                                  |            |                          | P26   | D17  |           |                    | Fork          | 75Ω | <a href="#">31-71052-10RFX</a> |     |
|                                                                 |                                 |                                  |            |                          | P26   | D20  | R/P       | Iso. Black Housing | Round         | 75Ω | <a href="#">31-71053</a>       |     |
|                                                                 |                                 |                                  |            |                          | P26   | D20  |           |                    | Fork          | 75Ω | <a href="#">31-71053-1010</a>  |     |
|                                                                 |                                 |                                  |            |                          | P26   | D22  | R/P       | Metal Housing      | Round         | 75Ω | <a href="#">31-71042</a>       |     |
| P26                                                             | D22                             | Fork                             | 75Ω        | <a href="#">31-71042</a> |       |      |           |                    |               |     |                                |     |
| Vertical Printed Circuit Bulkhead Receptacle (J)☆               | Blunt Posts for Signal & Ground | 1.40(35.6)                       | .810(20.6) | .250(6.4)                | P26   | D17  | V/P       | Iso. White Housing | Round         | 75Ω | <a href="#">31-71058</a>       | 3   |
|                                                                 |                                 |                                  |            |                          | P26   | D17  |           |                    | Fork          | 75Ω | <a href="#">31-71058-1010</a>  |     |
|                                                                 |                                 |                                  |            |                          | P26   | D20  | V/P       | Iso. Black Housing | Round         | 75Ω | <a href="#">31-71059</a>       |     |
|                                                                 |                                 |                                  |            |                          | P26   | D20  |           |                    | Fork          | 75Ω | <a href="#">31-71059-1010</a>  |     |
|                                                                 |                                 |                                  |            |                          | P26   | D22  | V/P       | Metal Housing      | Round         | 75Ω | <a href="#">31-71045</a>       |     |
|                                                                 |                                 |                                  |            |                          | P26   | D22  |           |                    | Fork          | 75Ω | <a href="#">31-71045-1010</a>  |     |
| Hex Nut for BNC Bulkhead PCB Receptacles, Package of 100 ea.    |                                 |                                  |            |                          | P3    | —    | —         | Nickel Plated      | —             | —   | <a href="#">31-5652</a>        | 4   |
| Lockwasher for BNC Bulkhead PCB Receptacles, Package of 100 ea. |                                 |                                  |            |                          | P3    | —    | —         | Nickel Plated      | —             | —   | <a href="#">31-5653</a>        | 5   |

☆ Jam nuts and lockwashers sold separately. See Figs. 4 & 5 ▲ distributor stocked

Fig. 1



BNC PCB Receptacle (Jack)  
Post Terminal, 4 Legs  
.433" (11.0mm) Dia. Base  
**31-5329-72RFX**

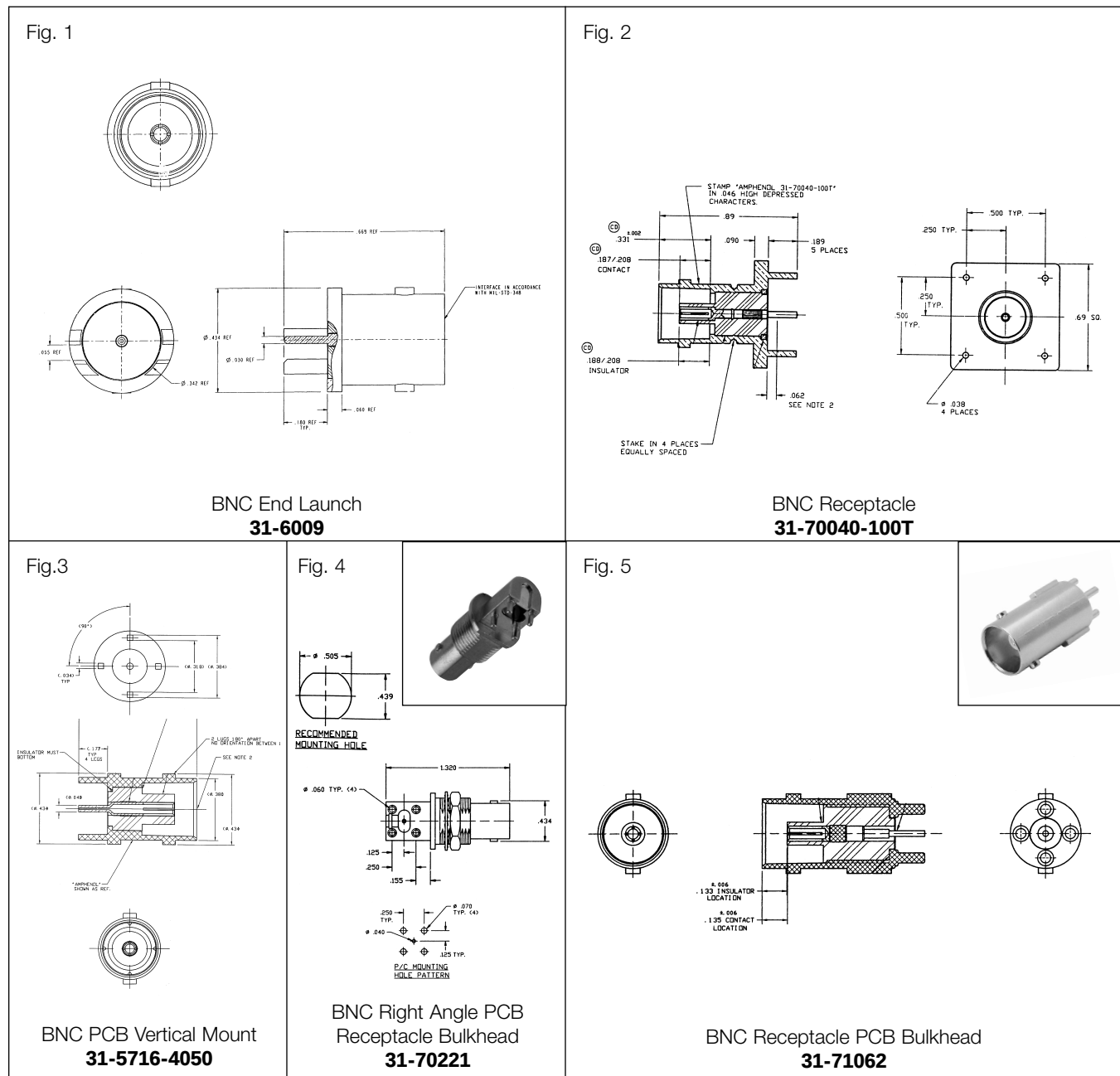
PRINTED CIRCUIT BOARD RECEPTACLE

| Description                                                                       | Terminal Type | Dimensions, inches (mm) |                | Notes |      | Mtg. Hole | Amphenol Number               | Fig. |
|-----------------------------------------------------------------------------------|---------------|-------------------------|----------------|-------|------|-----------|-------------------------------|------|
|                                                                                   |               | a                       | b              | Plt.  | Ins. |           |                               |      |
| PCB Receptacle, Vertical, 4 Legs .176(4.5) Long/<br>Post terminal .037(0.9)" Dia. | Blunt Post    | .831(21.1)              | .433(11.0) dia | P17   | D25  | F         | <a href="#">31-5329-72RFX</a> | 1 ▲  |

▲ distributor stocked

# BNC 75 ohm Jacks - Printed Circuit Board

Amphenol®



## 75Ω BNC JACKS

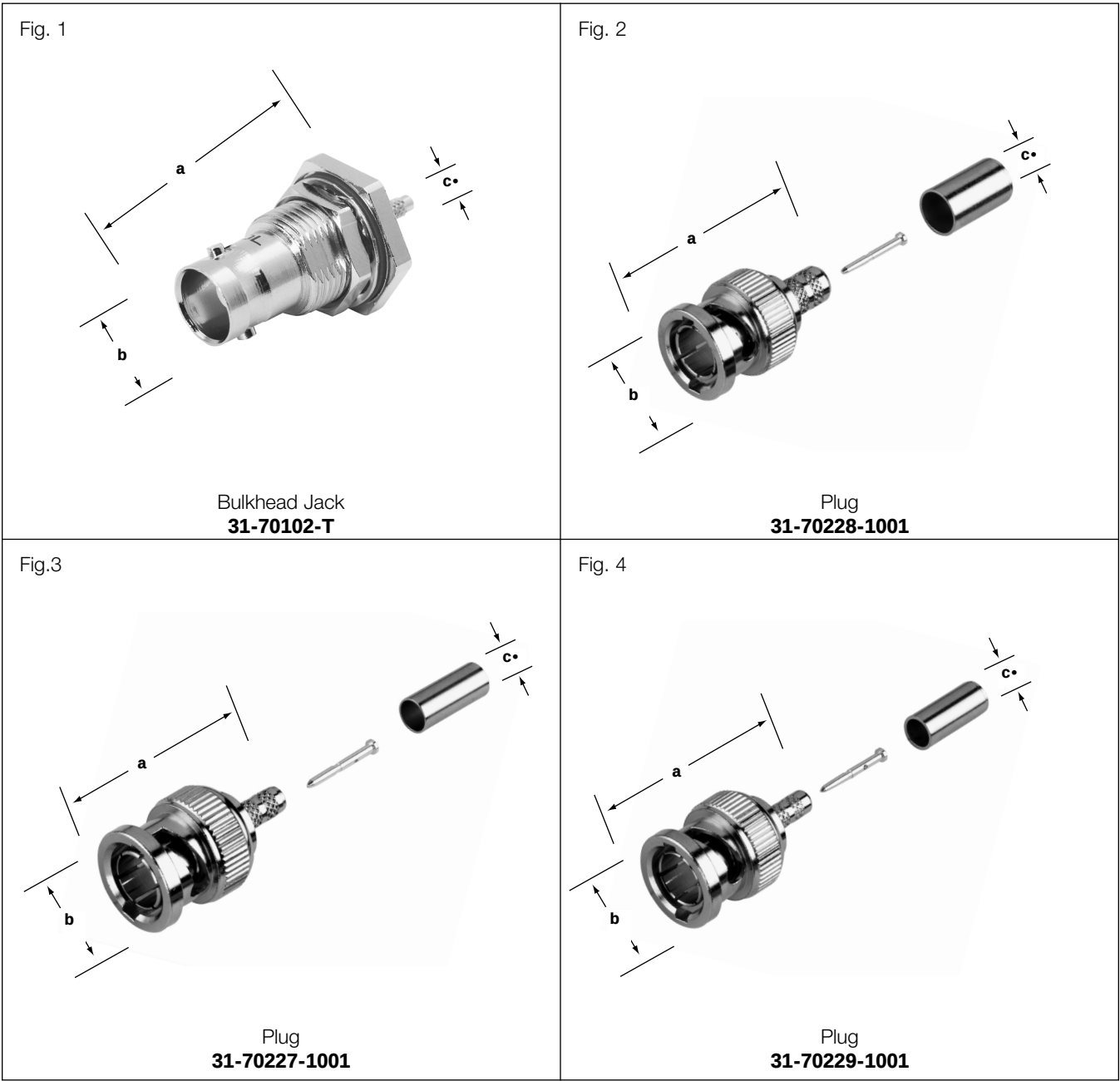
| Description                | Terminal Type | Dimensions, inches (millimeters) |            |           | Notes |      | Mtg. Hole | UG No. | 75Ω | Amphenol Number               | Fig. |
|----------------------------|---------------|----------------------------------|------------|-----------|-------|------|-----------|--------|-----|-------------------------------|------|
|                            |               | a                                | b          | c         | Plt.  | Ins. |           |        |     |                               |      |
| PCB Vertical Mount         | Blunt Post    | .716(18.2)                       | .434(11.0) | .177(4.5) | P17   | D1   | —         | —      | T2  | <a href="#">31-5716-4050</a>  | 3    |
| End Launch Rec.            | Blunt Post    | .668(17.0)                       | .434(11.0) | .060(1.5) | P17   | D1   | —         | —      | T1  | <a href="#">31-6009</a>       | 1    |
| Receptacle                 | Blunt Post    | .890(22.6)                       | .380(9.7)  | .189(4.8) | P17   | D1   | —         | —      | T1  | <a href="#">31-70040-100T</a> | 2    |
| Rt. Angle PCB Rec Bulkhead | Blunt Post    | 1.32(33.5)                       | .434(11.0) | .158(4.0) | P17   | D1   | —         | —      | T1  | <a href="#">31-70221</a>      | 4    |
| Rec. PCB Bulkhead          | Blunt Post    | .880(22.4)                       | .380(9.7)  | .160(4.1) | P17   | D1   | —         | —      | T1  | <a href="#">31-71062</a>      | 5    |

▲ distributor stocked

BNC 75 ohm

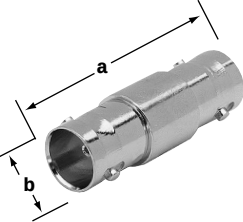
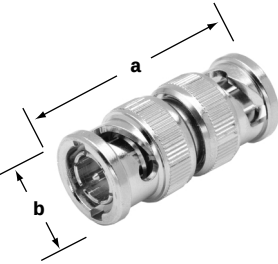
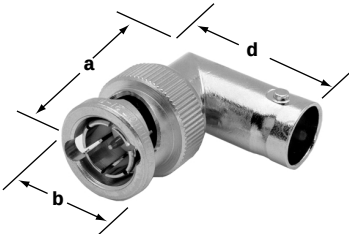
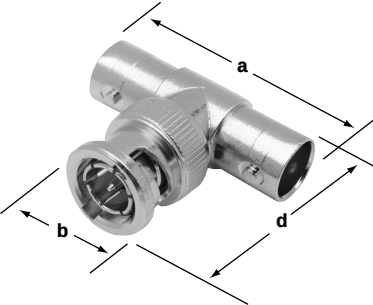
Amphenol®

High Performance Beryllium Copper Outer Contacts



HIGH PERFORMANCE

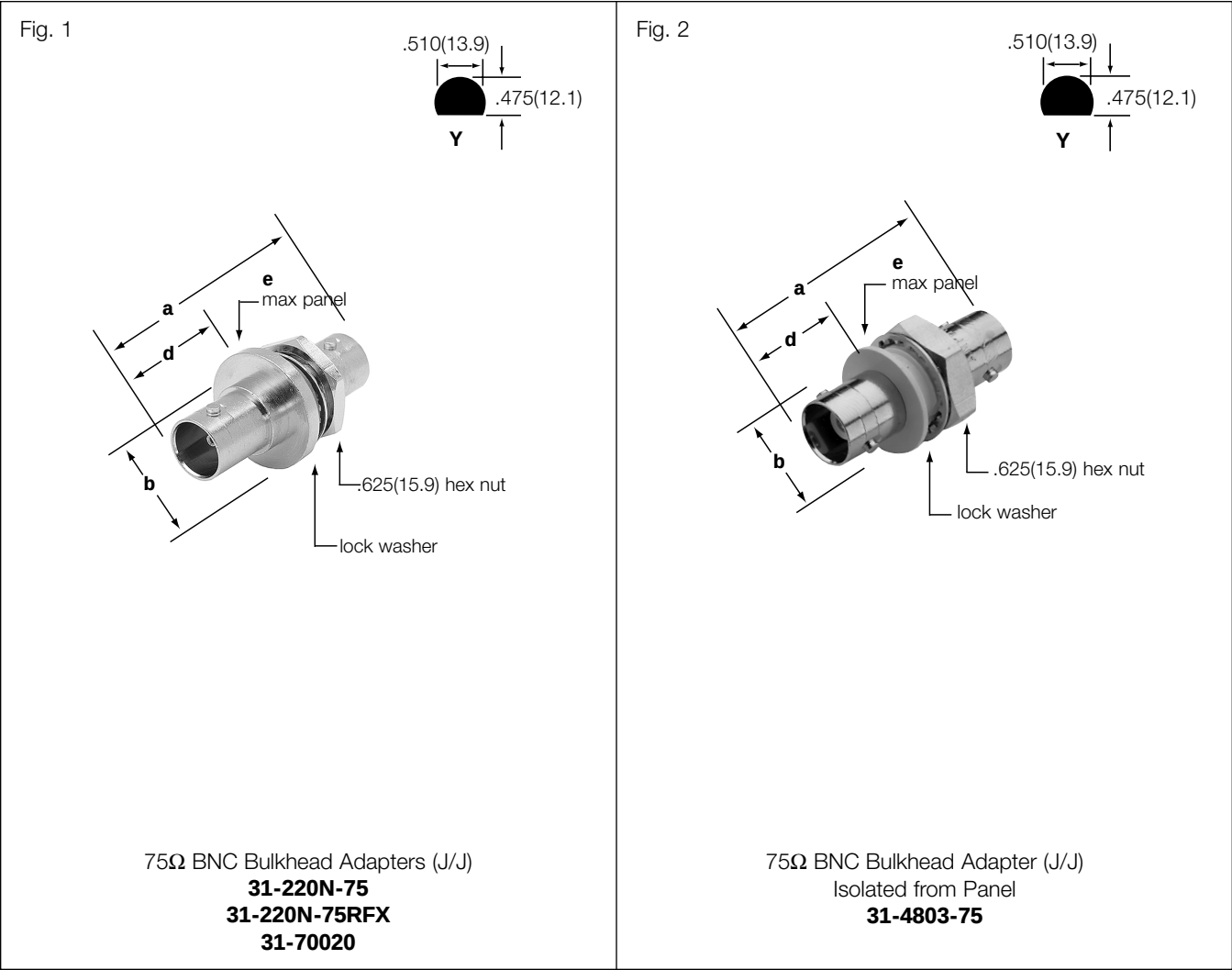
| Description   | Cable                 | Dimensions, inches (millimeters) |      |      | Notes |      | Mtg. Hole | UG No. | 75Ω | Amphenol Number | Fig. |
|---------------|-----------------------|----------------------------------|------|------|-------|------|-----------|--------|-----|-----------------|------|
|               |                       | a                                | b    | c    | Plt.  | Ins. |           |        |     |                 |      |
| Bulkhead Jack | Rockwell 425-1129-000 | 1.417                            | .687 | .128 | P7    | CA   | —         | —      | T1  | 31-70102-T      | 1    |
| Plug          | 734A                  | 1.20                             | .563 | .226 | P7    | CA   | —         | —      | T1  | 31-70228-1001   | 2    |
| Plug          | L910                  | 1.20                             | .563 | .106 | P7    | CA   | —         | —      | T1  | 31-70227-1001   | 3    |
| Plug          | 735A                  | 1.20                             | .563 | .141 | P7    | CA   | —         | —      | T1  | 31-70229-1001   | 4    |

|                                                                                                                                                                         |                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Fig. 1</p>  <p>75Ω BNC Adapter (J/J)<br/><b>31-219-75</b><br/><b>31-70019</b></p>   | <p>Fig. 2</p>  <p>75Ω BNC Adapter (P/P)<br/><b>31-218-75RFX</b></p>    |
| <p>Fig.3</p>  <p>75Ω BNC Adapter (P/J)<br/><b>31-9-75</b><br/><b>31-9-75-RFX</b></p> | <p>Fig. 4</p>  <p>75Ω BNC Tee Adapter (J/P/J)<br/><b>31-70036</b></p> |

75Ω BNC ADAPTERS

| Description |                | Dimensions, inches (millimeters) |            |            | Notes |      | Mtg. Hole | UG No. | 75Ω Type | Amphenol Number              | Fig. |
|-------------|----------------|----------------------------------|------------|------------|-------|------|-----------|--------|----------|------------------------------|------|
|             |                | a                                | b          | d          | Plt.  | Ins. |           |        |          |                              |      |
| Straight    | Jack-Jack      | 1.28(32.5)                       | .434(11.0) | —          | P15   | D1   | —         | —      | T2       | <a href="#">31-219-75</a>    | 1    |
| Straight    | Jack-Jack      | 1.40(35.6)                       | .434(11.0) | —          | P17   | D1   | —         | —      | T1       | <a href="#">31-70019</a>     | 1 ▲  |
| Straight    | Plug-Plug      | 1.33(33.7)                       | .571(14.5) | —          | P15   | D1   | —         | —      | T2       | <a href="#">31-218-75RFX</a> | 2    |
| Angle       | Jack-Plug      | 1.02(25.9)                       | .562(14.3) | .405(10.3) | P15   | D9   | —         | —      | T2       | <a href="#">31-9-75</a>      | 3 ▲  |
| Tee         | Jack-Plug-Jack | 1.28(32.5)                       | .562(14.3) | 1.04(26.3) | P15   | D1   | —         | —      | T1       | <a href="#">31-70036</a>     | 4    |

▲ distributor stocked



75Ω BNC BULKHEAD ADAPTERS

| Description  |           | Dimensions, inches (millimeters) |            |            |           | Notes |      | Mtg. Hole | UG No. | 75Ω Type | Amphenol Number               | Fig. |
|--------------|-----------|----------------------------------|------------|------------|-----------|-------|------|-----------|--------|----------|-------------------------------|------|
|              |           | a                                | b          | d          | e         | Plt.  | Ins. |           |        |          |                               |      |
| Gasketed     | Jack-Jack | 1.40(35.6)                       | .750(19.0) | .666(16.9) | .172(4.4) | P15   | D1   | Y         | —      | T1       | <a href="#">31-70020</a>      | 1    |
| Not Gasketed | Jack-Jack | 1.28(32.5)                       | .750(19.0) | .492(12.5) | .216(5.5) | P7    | D23  | Y         | —      | T2       | <a href="#">31-220N-75RFX</a> | 1 ▲  |
| Not Gasketed | Jack-Jack | 1.40(35.6)                       | .800(20.3) | .664(16.8) | .181(4.6) | P17   | D1   | Y         | —      | T2       | <a href="#">31-220N-75</a>    | 1    |
| Isolated     | Jack-Jack | 1.28(32.5)                       | .625(15.9) | .460(11.7) | .190(4.8) | P17   | D12  | Y         | —      | T2       | <a href="#">31-4803-75</a>    | 2 ▲  |

▲ distributor stocked



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