



## Specifications for BNC Connectors

BNC style connectors are miniature, light-weight, weatherproof interconnecting devices characterized by their two-stud, quick disconnect bayonet lock coupling arrangement. Their design functions satisfactorily from DC to 11 GHz in static applications, or from DC to 4GHz in applications involving vibration. The connectors typically yield a low VSWR (reflected signal) to 4GHz. Primary applications include radio telecommunications, broadcast equipment, medical equipment, computer, Precision Video, High definition studio broadcast, video switching and test instrumentation where frequent coupling and de-coupling are necessary. Bomar's BNCs are available in an extensive variety of configurations and cable sizes and are impedance matched to either 50 ohm or 75 ohm.

| MATERIALS                     |                          |                        |  |
|-------------------------------|--------------------------|------------------------|--|
| Connector Parts               | Material                 | Equivalent Standard    |  |
| Connector Body and Parts      | Brass                    | ISOCuZn38Pb2 Body Part |  |
| Male Contact Pin              | Brass                    | QQ-B-626               |  |
| Commercial Grade              | Zinc Alloy/Brass         | -----                  |  |
| Outer Contact                 | Brass                    | QQ-B-750               |  |
| Socket Contact                | Beryllium Copper         | QQ-C-530 / MIL-H-7199  |  |
| -----                         | Phosphor Copper          | CuBe2                  |  |
| Crimp Ferrule                 | Annealed Copper          | QQ-C-576               |  |
| Insulators, Standard Versions | Teflon                   | L-P403 / BS4271        |  |
| -----                         | Delrin                   | Grade B                |  |
| Rubber Gaskets                | Silicone Rubber          | ASTM-E1418PSI          |  |
| Plating                       | Nickel (Silver Optional) | MIL-G-45204            |  |

| ELECTRICAL                       |                      |         |                      |
|----------------------------------|----------------------|---------|----------------------|
| Requirement                      | Performance          |         | Test † Specification |
| Impedance                        | 50Ω                  | 75Ω     |                      |
| Frequency Range                  | 0-4GHz               | 0-1 GHz | -----                |
| VSWR                             | 1.30 Max.            |         | MIL-C-39012          |
| RF Insertion Loss                | 0.2 db Min. at 3 GHz |         | MIL-C-39012          |
| RF Leakage                       | -55 db Min. at 3 GHz |         | MIL-C-39012          |
| Test Voltage ( At Sea Level)     | 1500V rms            |         | MIL-STD-202          |
| Working Voltage ( At Sea Level ) | 500V rms             |         | MIL-STD-202          |
| Insulation Resistance            | 5000 Meg ohms Min.   |         | MIL-STD-202          |
| Contact Resistance               | 3 Milli ohms Max.    |         | MIL-C-39012          |

| MECHANICAL & ENVIRONMENTAL    |                                   |  |                      |
|-------------------------------|-----------------------------------|--|----------------------|
| Requirement                   | Performance                       |  | Test † Specification |
| Durability                    | 500 Insertions & Extractions Min. |  | MIL-C-39012          |
| Shock                         | 50 G                              |  | MIL-STD-202          |
| Vibration                     | 20 G from 80-2000 Hz              |  | MIL-STD-202          |
| Cable Retention (Cable Types) | 60 lbs. Minimum Pull Test         |  | MIL-C-39012          |
| Coupling Nut                  | 60 lbs. Maximum                   |  | MIL-C-39012          |
| Temperature Range             | Teflon: -55 to +199 C             |  | -----                |
|                               | Delrin: -40 to +85 C              |  | -----                |
| Moisture Resistance           | Continuous Test                   |  | MIL-STD-202          |
| Salt Spray                    | 48 Hours                          |  | MIL-STD-202          |

†Products are made to conform to the Mil standard but are for commercial applications and are not QPL

|                                                                                           |   |
|-------------------------------------------------------------------------------------------|---|
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## BNC 3 Piece Crimp

BNC three piece crimp connectors feature semi-captive contacts that “click” into place assuring perfect installation. Each crimp pin has a vent hole for optional soldering. Soldering is recommended for all stranded conductors 26 AWG or smaller.

| Part Number<br>(Male)                                                                         | Gender | (I.D.)<br>** | Fig. No. | RG/U Cable                           |
|-----------------------------------------------------------------------------------------------|--------|--------------|----------|--------------------------------------|
| 310A205A                                                                                      | ✓      | .200 In.     | Fig. 1   | 6, 21 AWG Center Conductor           |
| 310A205A18                                                                                    | ✓      | .200 In.     | Fig. 1   | 6 CATV, 18 AWG Center Conductor      |
| 310A205F                                                                                      | ✓      | .124 In.     | Fig. 1   | 58A/U, 58C/U Stranded, 141, Thin PVC |
| 310A205FS                                                                                     | ✓      | .124 In.     | Fig. 1   | 58/U Solid Conductor                 |
| 310A205FV                                                                                     | ✓      | .125 In.     | Fig. 2   | 58/U Thin-Net Plenum                 |
| 310A205FV2                                                                                    | ✓      | .125 In.     | Fig. 2   | Mini 59, RGB Cable (23 AWG)          |
| 310A205FV3                                                                                    | ✓      | .125 In.     | Fig. 2   | Mini 59, RGB Cable (26 AWG)          |
| 310A204G                                                                                      | ✓      | .150 In.     | Fig. 1   | 59, 62, 210                          |
| 310A205G20                                                                                    | ✓      | .150 In.     | Fig. 1   | RG59 20 AWG Center Cond.             |
| 310A205G23                                                                                    | ✓      | .150 In.     | Fig. 1   | Belden 8241                          |
| 310A205MV                                                                                     | ✓      | .125 In.     | Fig. 3   | 174, 178, 196, Mini RGB Cable 50 Ω   |
| 310B205MV                                                                                     | ✓      | .125 In.     | Fig. 3   | 174, 178, 196, Mini RGB Cable 75 Ω   |
| 310A205N                                                                                      | ✓      | .090 In.     | Fig. 3   | 179, 187                             |
| 310A205P                                                                                      | ✓      | .125 In.     | Fig. 1   | 223                                  |
| 310B205Q                                                                                      | ✓      | .205 In.     | Fig. 1   | Belden 8281 True 75 Ohms             |
| 310A204T                                                                                      | ✓      | .150 In.     | Fig. 2   | 59, 62, Plenum                       |
| 310A208W2                                                                                     | ✓      | .103 In.     | Fig.1    | Mini 59, RGB Cable (26 AWG)          |
| ✓ RoHS compliant ** crimp shank <a href="#">REQUEST QUOTE</a> <a href="#">REQUEST DRAWING</a> |        |              |          |                                      |



Fig.1

Fig.2



Fig.3

[Click Here for Connector Dimensions/Stripping Dimensions](#)

## BNC Twist-On and 2 Piece Crimp

BNC Twist-On connectors are field installable and require no tooling other than a stripping tool for the cable preparation. The center conductor is inserted into Bomar's unique Posi-Con™ contact, as the connector is twisted onto the cable's outer jacket.

BNC 2 Piece crimp connectors make use of a fully captivated pin. Just insert the center conductor into the connector body, slide the ferrule over the braid, and apply a single hex-crimp to the ferrule. These connectors are easy to install and reliable and are recommended only for the lower data transmission speeds.

| Part Number                                                                    | Gender   | Fig. No. | RG/U Cable                       |
|--------------------------------------------------------------------------------|----------|----------|----------------------------------|
| 310A405A                                                                       | ✓ Male   | Fig. 8   | 6, Thick net                     |
| 310A405F                                                                       | ✓ Male   | Fig. 8   | 58A/U Solid Cond, 141, Thin PVC  |
| 310A405F1                                                                      | ✓ Male   | Fig. 8   | 58/U Solid Cond. -.172" - .178"  |
| 310A405F2                                                                      | ✓ Male   | Fig. 8   | 58/U Thin Plenum - .158" - .162" |
| 310A405F3                                                                      | ✓ Male   | Fig. 8   | Thin Plenum .150"                |
| 310A405G                                                                       | ✓ Male   | Fig. 8   | 59, 62, 210 PVC                  |
| 310A405T                                                                       | ✓ Male   | Fig. 8   | 59, 62, 210 Plenum               |
| 320A405F                                                                       | ✓ Female | Fig. 8A  | 58 Solid (PVC)                   |
| 320A405G                                                                       | ✓ Female | Fig. 8A  | 59, 62, 210 (PVC)                |
| 310X205F                                                                       | ✓ Male   | Fig. 6   | RG58 (PVC)                       |
| 310X205G                                                                       | ✓ Male   | Fig. 6   | RG59, 62 (PVC)                   |
| 320X205F                                                                       | ✓ Female | Fig. 7   | RG58 (PVC)                       |
| 320X205G                                                                       | ✓ Female | Fig. 7   | RG59, 62 (PVC)                   |
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Fig.8A



Fig.8



Fig.6



Fig.7

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## BNC Connectors

### BNC Standard Clamp

BNC standard clamp style is a simplified version of the original military clamp style. It is required that the contact be soldered to the center conductor

of the cable.

| Part Number |  | Gender | Fig. No. | RG/U Cable        |
|-------------|-----------------------------------------------------------------------------------|--------|----------|-------------------|
| 310A105A    |  | Male   | 9        | 6                 |
| 310A105D    |  | Male   | 9        | 11A               |
| 310A105F    |  | Male   | 9        | 58, 58A, 58C, 141 |
| 310A105G    |  | Male   | 9        | 59, 62, 210       |
| 310A105M    |  | Male   | 9        | 174, 188, 316     |
| 320A105F*   |  | Female | N/S      | 58, 58A, 58C, 141 |
| 320A105G*   |  | Female | N/S      | 59, 62, 214       |



Figure 9



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## BNC Specialty Broadcast Plugs

[Click here for complete Broadcast Catalog](#)

Broadcast grade BNC connectors are perfectly matched to 75 ohm impedance's. The superior plugs are for studio wiring and other broadcast uses. Solid precision machined brass, not die-cast, hold up under the toughest conditions. Here, we are showing the eight most popular but there are many more versions matched to the popular cable manufacturer's part number.



| Part Number |    | Gender | Belden Cable |
|-------------|--------------------------------------------------------------------------------------|--------|--------------|
| SBC1505A    |    | Male   | 1505A        |
| SBC1694A    |    | Male   | 1694A        |
| SBC1695A    |    | Male   | 1695A        |
| SBC1855A    |   | Male   | 1855A        |
| SBC7731A    |  | Male   | 7731A        |
| SBC8218     |  | Male   | 8218         |
| SBC8241     |  | Male   | 8241         |
| SBC8281     |  | Male   | 8281         |

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## BNC Bulkhead Jacks

Versions are available for front mounting, (F/M) rear mounting, (R/M) crimp types, bulkhead mount grounded, or bulkhead mount isolated. (Color-coded available.) These jacks are held into the panel by a hex-nut and lock washer. All units feature nickel plated, brass bodies, and gold phosphor-bronze contacts



Figure 13



Figure 14



Figure 15



Figure 16

| Part Number |  | Description                         | Fig No. | Hole ID | Dwg                                                                                   |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------|---------|---------|---------------------------------------------------------------------------------------|
| 321A245A    |  | R/M Crimp, RG6                      | 13      | .500    |  |
| 321A245F    |  | R/M Crimp, RG58 , Thin-net PVC      | 13      | .500    |  |
| 321A245FV   |  | R/M Crimp, Thin-Net Plenum          | 13      | .500    |  |
| 321A245G    |  | R/M Crimp, RG59, 62, 210            | 13      | .500    |  |
| 321A245M    |  | R/M Crimp, RG174, 188, 196, 316     | 13      | .500    |  |
| 321B245M*   |  | R/M Crimp, RG174, 188, 196, 316     | 13      | .500    |  |
| 321B245N*   |  | R/M Crimp, RG179, 187               | N/S     | .500    |  |
| 326A515     |  | F/M Solder (Grounded)               | 14      | .375    |  |
| 326R515     |  | F/M Solder (Isolated) White Bushing | 15      | .375    |  |
| 326R515RD   |  | F/M Solder (Isolated) Red Bushing   | 16      | .375    |  |
| 326R515GN   |  | F/M Solder (Isolated) Green Bushing | 16      | .375    |  |
| 326R515BL   |  | F/M Solder (Isolated) Blue Bushing  | 16      | .375    |  |

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 RoHS compliant



## BNC Panel Jacks and Plugs

BNC panel plugs and jacks are of machined brass construction for maximum reliability and quality. All contacts are plated with a minimum of five micro-inches of gold. The square panel types mount on .500 inch centers. The bulkhead type mounts into a .380 "D" shaped panel hole. All connector bodies are bright-nickel plated.

| Part Number |   | Description                | Notations              | Fig. No. | Dwg. |
|-------------|---|----------------------------|------------------------|----------|------|
| 316A524C    | ✓ | Male Bulkhead Panel Mount  | .380" Mtg. Hole        | 19       |      |
| 317A507     | ✓ | Male Panel Mount           | .500 Mtg. Hole Centers | 20       |      |
| 321A205F    | ✓ | Female Panel Mount, Crimp  | Fits RG58/U Cables     | 21       | ---  |
| 321A205G    | ✓ | Female Panel Mount, Crimp  | Fits RG59, 62, 210     | 21       | ---  |
| 321A205M    | ✓ | Female Panel Mount, Crimp  | Fits RG174, 178, 196   | 21       | ---  |
| 327A507     | ✓ | Female Panel Mount, Solder | .500 Mtg. Hole Centers | 22       | ---  |

✓ RoHS compliant

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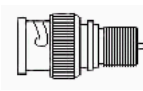


Figure 19

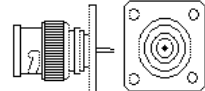


Figure 20

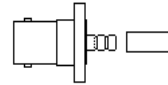


Figure 21



Figure 22

## BNC PC Board Vertical Jacks

BNC vertical mount jacks are available in straight PC mounts and "through-panel" styles. The "through-panel", 364 Series, is made in both isolated and grounded versions and are ideal for applications where multiple insertions will require a connector which can endure the stress of higher torque.

| Part Number |   | Body Plating or Material | Description                        | Insul. Mat. | Con. Plating | "L" Dim | Fig. No. | Dwg. |
|-------------|---|--------------------------|------------------------------------|-------------|--------------|---------|----------|------|
| 361A514*    | ✓ | Nickel / Brass           | Straight PC Mount 50Ω              | Teflon      | Gold         | .717    | 26       | ---  |
| 361A505*    | ✓ | Nickel / Brass           | Straight PC Mount 50 Ω             | Delrin      | Gold         | .914    | 27       | ---  |
| 361A534*    | ✓ | Nickel / Brass           | 3 Post PC Mount 50 Ω               | Delrin      | Gold         | .788    | 27A      |      |
| 361A505APF  | ✓ | Nickel/Zinc              | 4 Post W/ Press Fit Center Pin 50Ω | Delrin      | Gold         | .925    | 27B      |      |
| 361A705APF  | ✓ | Nickel/Zinc              | 4 Post W/ Press Fit Center Pin 75Ω | Delrin      | Gold         | .925    | 27B      |      |
| 364S595     | ✓ | White Valox              | PC Mount, Thru-Panel, 50 Ω         | Delrin      | Gold         | 1.36    | 23       |      |
| 364S595B    | ✓ | Black Valox              | PC Mount, Thru-Panel, 50 Ω         | Delrin      | Gold         | 1.36    | 24       |      |
| 364S595M    | ✓ | Nickel/Zinc              | PC Mount, Thru-Panel, 50 Ω         | Delrin      | Gold         | 1.36    | 25       |      |
| 364S795*    | ✓ | White Valox              | PC Mount, Thru-Panel, 75 Ω         | Delrin      | Gold         | 1.36    | 23       |      |
| 364S795B*   | ✓ | Black Valox              | PC Mount, Thru-Panel, 75 Ω         | Delrin      | Gold         | 1.36    | 24       |      |
| 364S795M*   | ✓ | Nickel/Zinc              | PC Mount, Thru-Panel, 75 Ω         | Delrin      | Gold         | 1.3     | 25       |      |

✓ RoHS compliant reflow or wave solder

✓ RoHS compliant wave solder only

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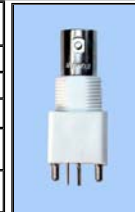


Fig. 23

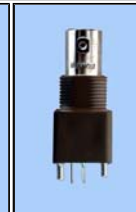


Fig. 24



Fig. 25

S

S

S

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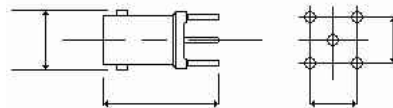


Fig. 26



The press-fit center pin locks the connector into the PC board so it is held firmly for reflow or wave soldering.

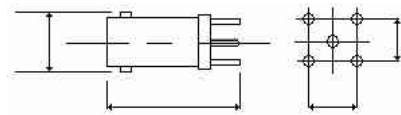


Fig. 27B

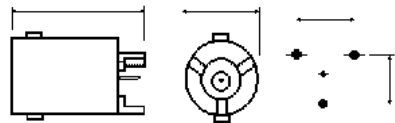


Fig. 27A

\* Denotes that items are not popular and may require a special minimum quantity requirement.

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## BNC Connectors

### BNC PC Board Right Angle JacksX

These BNC jacks are manufactured to the highest standards to assure stability in maintaining impedance matching at 50 ohm and 75 ohm applications. The 50 ohm versions have been approved by most of the U.S. manufacturers of LAN cards, and the 75 ohm is in wide use in High Definition Video applications which require the use of a True 75 ohm connector. Contacts are phosphor bronze and will remain resilient even after hundreds of insertions.

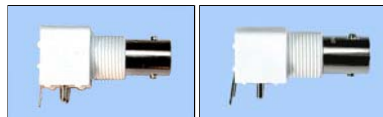


Fig. 28 ig.



Fig. 29

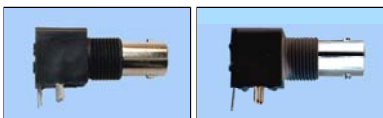


Fig. 30



Fig. 31

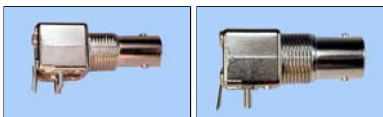


Fig. 32



Fig. 33

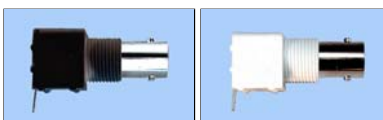


Fig. 34



Fig. 35

| Part Number   |   | Body Material | Description                     | Imp. | Height F.M.S. | Contact Plating | Fig. No. | Dwg. |
|---------------|---|---------------|---------------------------------|------|---------------|-----------------|----------|------|
| 364M095       | ✓ | Nickel/Zinc   | 4 Post Low Profile, Metal       | 50Ω  | .453          | Gold            | 38       | ✓    |
| 364M0975      | ✓ | Nickel /Zinc  | 4 Post Low Profile, Metal       | 75Ω  | .453          | Gold            | 38       | ✓    |
| 364A595       | ✓ | White Valox   | Standard Profile W/ Posts       | 50Ω  | .610          | Gold            | 28       | ✓    |
| 364A595T      | ✓ | White Valox   | Standard Profile W/ Posts (TPX) | 50Ω  | .610          | Gold            | 28       | ✓    |
| 364A595NP*    | ✓ | White Valox   | Standard Profile WO Posts       | 50Ω  | .610          | Gold            | 35       | ✓    |
| 364A595NPT*   | ✓ | White Valox   | Standard Profile WO Posts (TPX) | 50Ω  | .610          | Gold            | 35       | ✓    |
| 364A595B      | ✓ | Black Valox   | Standard Profile W/ Posts       | 50Ω  | .610          | Gold            | 30       | ✓    |
| 364A595BT     | ✓ | Black Valox   | Standard Profile W/ Posts (TPX) | 50Ω  | .610          | Gold            | 30       | ✓    |
| 364A595BNP*   | ✓ | Black Valox   | Standard Profile WO Posts       | 50Ω  | .610          | Gold            | 35       | ✓    |
| 364A595BNPT*  | ✓ | Black Valox   | Standard Profile WO Posts (TPX) | 50Ω  | .610          | Gold            | 35       | ✓    |
| 364A595BL     | ✓ | White Valox   | Lo Profile W/ Posts             | 50Ω  | .515          | Gold            | 29       | ✓    |
| 364A595BLT    | ✓ | White Valox   | Lo Profile W/ Posts (TPX)       | 50Ω  | .515          | Gold            | 29       | ✓    |
| 364A595BLNP*  | ✓ | White Valox   | Lo-Profile W/O Posts            | 50Ω  | .515          | Gold            | 34       | ✓    |
| 364A595BLB    | ✓ | Black Valox   | Lo-Profile W/ Posts             | 50Ω  | .515          | Gold            | 31       | ✓    |
| 364A595BLBT   | ✓ | Black Valox   | Lo-Profile W/ Posts (TPX)       | 50Ω  | .515          | Gold            | 31       | ✓    |
| 364A595BLBNP* | ✓ | Black Valox   | Lo-Profile W/O Posts            | 50Ω  | .515          | Gold            | 34       | ✓    |
| 364M595       | ✓ | Nickel /Zinc  | Standard Profile W/ Posts       | 50Ω  | .620          | Gold            | 32       | ✓    |
| 364M595T      | ✓ | Nickel /Zinc  | Standard Profile W/ Posts (TPX) | 50Ω  | .620          | Gold            | 32       | ✓    |
| 364M595M      | ✓ | Nickel /Zinc  | Super Lo-Profile W/ Clips       | 50Ω  | .340          | Gold            | 35A      | ✓    |
| 364M595MT     | ✓ | Nickel /Zinc  | Super Lo-Profile W/ Clips (TPX) | 50Ω  | .340          | Gold            | 35A      | ✓    |
| 364M595L      | ✓ | Nickel / Zinc | Lo-Profile W/ Posts             | 50Ω  | .529          | Gold            | 33       | ✓    |
| 364M595LT     | ✓ | Nickel / Zinc | Lo-Profile W/ Posts (TPX)       | 50Ω  | .529          | Gold            | 33       | ✓    |
| 364A795       | ✓ | White Valox   | Standard Profile W/ Posts (TPX) | 75Ω  | .610          | Gold            | 28       | ✓    |
| 364A795T      | ✓ | White Valox   | Standard Profile W/ Posts       | 75Ω  | .610          | Gold            | 28       | ✓    |
| 364A795B      | ✓ | Black Valox   | Standard Profile W/ Posts       | 75Ω  | .610          | Gold            | 30       | ✓    |



Fig. 36 (top) Fig. 37

|             |   |              |                                 |     |      |      |     |     |
|-------------|---|--------------|---------------------------------|-----|------|------|-----|-----|
| 364A795BT   | ✓ | Black Valox  | Standard Profile W/ Posts (TPX) | 75Ω | .610 | Gold | 30  | ✖   |
| 364A795BL   | ✓ | White Valox  | Lo-Profile W/ Posts             | 75Ω | .515 | Gold | 29  | ✖   |
| 364A795BLT  | ✓ | White Valox  | Lo-Profile W/ Posts (TPX)       | 75Ω | .515 | Gold | 29  | ✖   |
| 364A795BLB  | ✓ | Black Valox  | Lo-Profile W/ Posts             | 75Ω | .515 | Gold | 31  | ✖   |
| 364A795BLBT | ✓ | Black Valox  | Lo-Profile W/ Posts (TPX)       | 75Ω | .515 | Gold | 31  | ✖   |
| 364M795     | ✓ | Metal        | Standard Profile W/ Posts       | 75Ω | .620 | Gold | 32  | ✖   |
| 364M795T    | ✓ | Metal        | Standard Profile W/ Posts (TPX) | 75Ω | .620 | Gold | 32  | ✖   |
| 364M795L    | ✓ | Metal        | Lo-Profile W/ Posts             | 75Ω | .529 | Gold | 33  | ✖   |
| 364M795LT   | ✓ | Metal        | Lo-Profile W/ Posts (TPX)       | 75Ω | .529 | Gold | 33  | ✖   |
| 364F595BL   | ✓ | White Valox  | 9400pF 500V Decoupled           | 50Ω | .515 | Gold | 36  | --- |
| 364F595BLB  | ✓ | Black Valox  | 9400 pF 500V Decoupled          | 50Ω | .515 | Gold | 37  | --- |
| 364H595BL   | ✓ | White Valox  | 9400 pF 1500V Decoupled         | 50Ω | .515 | Gold | 36  | --- |
| 364H595BLB  | ✓ | Black Valox  | 9400 pF 1500V Decoupled         | 50Ω | .515 | Gold | 37  | --- |
| 364NT       | ✓ | Zinc/Brass   | Jam Nut ( 364 Series)           | N/A | ---- | ---- | 36N | ✖   |
| 364LW       | ✓ | Zinc/ Steel  | Lock Washer ( 364Series)        | N/A | ---- | ---- | 37N | ✖   |
| 364 KNT     | ✓ | Brass/Nickel | Knurled Nut (364 Series)        | N/A | ---- | ---- | 38N | ✖   |

☒ RoHS compliant reflow or wave solder    ☒ RoHS compliant wave solder  
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(TPX) insulator for re-flow solder



## Hardware

|                                                                                                                            |                   |                  |
|----------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|
|                                                                                                                            | Fig. 36N          | Fig. 37N         |
| <b>Note:</b><br>Mounting hardware is optional and must be ordered separately. Hardware is not sold without the connectors. | <b>364NT</b><br>  | <b>364LW</b><br> |
|                                                                                                                            | Fig. 38N          |                  |
|                                                                                                                            | <b>364KNT</b><br> |                  |

\* Denotes that items are not popular and may require a special minimum order quantity.    [REQUEST QUOTE](#)    [REQUEST DRAWING](#)

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## BNC V-Bite® PC Edge Mount

The **V-Bite®** is an industry award winning design PCB connector with all the advantages a designer could want. It edge mounts to the board which offers the lowest profile and utilizes very little PCB real estate. It lends itself to surface mount and through-hole soldering techniques. There are versions for IR and convection reflow soldering. Because the connector locks into place both above and below the PCB it disperses rotational torque relief to the board and not the solder points. The **V-Bite®** design offers the lowest VSWR ratings due to the straight through-put contact design. No right angles for reflection. Available in 50 and 75 ohm, threaded and non-threaded. Other options for PCB thickness available. Other interfaces available.

( See "F", BNC Twin and TNC sections.)

| Part Number |   | Description                                   | Imp | Contact     | Fig. No. | Dwg. |
|-------------|---|-----------------------------------------------|-----|-------------|----------|------|
| 361V504ER   | ✓ | BNC Jack W/ Teflon For Reflow Solder          | 50Ω | Brass./Gold | 39A      |      |
| 361V504ET   | ✓ | BNC Threaded Jack W/ Teflon For Reflow Solder | 50Ω | Brass./Gold | 39       |      |
| 361V504EFT  | ✓ | BNC Threaded Jack W/ Teflon Insulator/Flange  | 50Ω | Brass./Gold | 39B      |      |
| 361V509E    | ✓ | BNC Jack W/ Polyethylene Insulator            | 50Ω | Brass./Tin  | 39A      |      |
| 361V509ET   | ✓ | BNC Threaded Jack W/ Polyethylene Insulator   | 50Ω | Brass./Tin  | 39       | ---  |
| 361V704ER   | ✓ | BNC Jack W/ Teflon For Reflow Solder          | 75Ω | Brass./Gold | 39A      |      |
| 361V704ET   | ✓ | BNC Threaded Jack W/ Teflon For Reflow Solder | 75Ω | Brass./Gold | 39       |      |
| 361V704EFT  | ✓ | BNC Threaded Jack W/ Teflon Insulator/Flange  | 75Ω | Brass./Gold | 39B      |      |
| 361V709E    | ✓ | BNC Jack W/ Polyethylene Insulator            | 75Ω | Brass./Gold | 39A      | ---  |
| 361V709ET   | ✓ | BNC Threaded Jack W/ Polyethylene Insulator   | 75Ω | Brass./Gold | 39       | ---  |
| 361KNT      | ✓ | Knurled Nut (361 Series)                      | NA  | ---         | ---      |      |
| 3M61V704    | ✓ | Mini- BNC Jack W/ Teflon for Reflow Solder    | 75Ω | Brass./Gold | 39C      |      |

✓ RoHS compliant reflow or wave solder    ✓ RoHS compliant wave solder only    [REQUEST QUOTE](#)    [REQUEST DRAWING](#)



**Low Profile .270 High FMS**

**Anti Rotational**

**VSWR 1.15:1**

**Patented V-Bite® Snaps Into PCB**

**Surface Mount Center Contact**

**Pick & Place Version Available**



Fig. 39



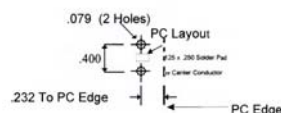
Fig. 39A



Fig. 39B



Fig. 39C



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## BNC Reduced Size PCB Right Angle Mount

**The Super Low™** Profile BNC PC jack reduces the amount of board space needed to mount a PC jack. Board clips hold the unit in place for soldering. The smallest, lowest profile right angle BNC jack available.

**The Lo-Deco™** features a four post design that offers greater stability after wave soldering. Also featured is a gold plated contact and nickel plated cast zinc body. Smooth, sleek and aesthetically pleasing design is tumbled to remove casting lines.

| Part Number |   | Description                | Imp. | Contact    | Fig. No. | Dwg. |
|-------------|---|----------------------------|------|------------|----------|------|
| 364M595M    | ✓ | BNC Super Low Profile Jack | 50Ω  | Phos./Gold | 35A      |      |
| 364M595MT   | ✓ | BNC Super Low Profile Jack | 50Ω  | Phos./Gold | 35A      |      |
| 364M795M    | ✓ | BNC Super Low Profile Jack | 75Ω  | Phos./Gold | 35A      |      |
| 364M795MT   | ✓ | BNC Super Low Profile Jack | 75Ω  | Phos./Gold | 35A      |      |



PC Layout for Super Low Profile



Fig. 38

\*Denotes that items are not popular and may require a special minimum order quantity.

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## BNC Connectors

**Right Angle or Vertical Stacked:** When board space becomes a serious issue and you still need the robust, full size, BNC connectors, a dual stacked right angle or vertical version will do the trick. Assembly insertion time is cut in half as well. The Dual 364 series is available in both Valox isolated and all metal construction.

(shown with closed back option FS)



Fig. 38A



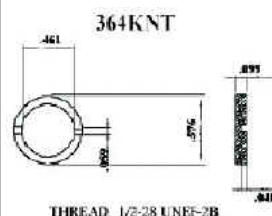
Fig. 38B



Fig. 40D



Fig. 38C



THREAD 1/2-28 UNEF-2B



|             |                                                                                     | Right Angle                         |      |              |         |                                                                                       |
|-------------|-------------------------------------------------------------------------------------|-------------------------------------|------|--------------|---------|---------------------------------------------------------------------------------------|
| Part Number |  | Description                         | Imp. | Contact      | Fig.No. | Dwg.                                                                                  |
| 364A2595    |  | Dual Right Angle, White Valox       | 50Ω  | Phos./Gold   | 38A     |  |
| 364A2595T   |  | Dual Right Angle, White Valox (TPX) | 50Ω  | Phos./Gold   | 38A     |  |
| 364A2795    |  | Dual Right Angle, White Valox       | 75Ω  | Phos./Gold   | 38A     |  |
| 364A2795T   |  | Dual Right Angle, White Valox (TPX) | 75Ω  | Phos./Gold   | 38A     |  |
| 364A2595B   |  | Dual Right Angle, Black Valox       | 50Ω  | Phos./Gold   | 38A     |  |
| 364A2795B   |  | Dual Right Angle, Black Valox       | 75Ω  | Phos./Gold   | 38A     |  |
| 364M2595    |  | Dual Right Angle, Metal             | 50Ω  | Phos./Gold   | 38B     |  |
| 364M2595T   |  | Dual Right Angle, Metal (TPX)       | 50Ω  | Phos./Gold   | 38B     |  |
| 364M2795    |  | Dual Right Angle, Metal             | 75Ω  | Phos./Gold   | 38B     |  |
| 364M2795T   |  | Dual Right Angle, Metal (TPX)       | 75Ω  | Phos./Gold   | 38B     |  |
| 3M64M2795   |  | Dual Right Angle, Metal Mini-BNC    | 75Ω  | Phos-Gold    | 38C     |  |
| 364KNT      |  | Knurled Nut for Dual BNC            | N/A  | Brass/Nickel | 38D     |  |
|             |                                                                                     | Vertical                            |      |              |         |                                                                                       |
| Part Number |  | Description                         | Imp. | Contact      | Fig.No. |  |
| 364S2595    |  | Dual Vertical, White Valox          | 50Ω  | Phos./Gold   | 40D     |  |
| 364S2795    |  | Dual Vertical, White Valox          | 75Ω  | Phos./Gold   | 40D     |  |
| 364S2595B   |  | Dual Vertical, Black Valox          | 50Ω  | Phos./Gold   | 40D     |  |
| 364S2795B   |  | Dual Vertical, Black Valox          | 75Ω  | Phos./Gold   | 40D     |  |
| 364S2595M   |  | Dual Vertical, Metal                | 50Ω  | Phos./Gold   | ----    |  |
| 364S2795M   |  | Dual Vertical, Metal                | 75Ω  | Phos./Gold   | ----    |  |
|             |                                                                                     | Tool                                |      |              |         |                                                                                       |

Fig. 38D

Fig. 38E

| Part Number                                                                                                                                                                                                           | RoHS | Description                      | Imp. | Contact      | Fig.No. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------|------|--------------|---------|
| BD36400                                                                                                                                                                                                               | -    | Hex Shafted Tool for Knurled Nut | N/A  | Steel/Nickel | 38E     |
| <div> <div>  RoHS compliant reflow or wave solder </div> <div>  RoHS compliant wave solder only </div> </div> <div> <a href="#">QUOTE</a> <a href="#">REQUEST DRAWING</a> </div> <div> <a href="#">REQUEST</a> </div> |      |                                  |      |              |         |
| Note:Hardware is optional and must be ordered separately                                                                                                                                                              |      |                                  |      |              |         |

## BNC Multi-Port PC Jacks (Non-Threaded)

**Side By Side:** These right angle units are available in dual or quad configurations. These units are not threaded for panel installation using a jam nut. Up one fourth the installation time.

| Part Number                                                                                                                                                                                                           | RoHS | Description                                | Imp. | Contact    | Fig.No. |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------|------|------------|---------|
| 365A2595                                                                                                                                                                                                              |      | Dual Right Angle, Side By Side White Valox | 50Ω  | Phos./Gold | 38B     |
| 365A2795                                                                                                                                                                                                              |      | Dual Right Angle, Side By Side White Valox | 75Ω  | Phos./Gold | 38B     |
| 365A2595B                                                                                                                                                                                                             |      | Dual Right Angle, Side By Side Black Valox | 50Ω  | Phos./Gold | 38B     |
| 365A2795B                                                                                                                                                                                                             |      | Dual Right Angle, Side By Side Black Valox | 75Ω  | Phos./Gold | 38B     |
| 365A4595                                                                                                                                                                                                              |      | Quad Right Angle, Side By Side White Valox | 50Ω  | Phos./Gold | NS      |
| 365A4795                                                                                                                                                                                                              |      | Quad Right Angle, Side By Side White Valox | 75Ω  | Phos./Gold | NS      |
| 365A4595B                                                                                                                                                                                                             |      | Quad Right Angle, Side By Side Black Valox | 50Ω  | Phos./Gold | NS      |
| 365A4795B                                                                                                                                                                                                             |      | Quad Right Angle, Side By Side Black Valox | 75Ω  | Phos./Gold | NS      |
| <div> <div>  RoHS compliant reflow or wave solder </div> <div>  RoHS compliant wave solder only </div> </div> <div> <a href="#">QUOTE</a> <a href="#">REQUEST DRAWING</a> </div> <div> <a href="#">REQUEST</a> </div> |      |                                            |      |            |         |



Fig.38B

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## BNC Adapters

These sturdy within-series BNC adapters are available in all standard designs. Additionally, several unique constructions compliment the product group and allow adaptations for every conceivable application. All connector bodies are plated with bright nickel. Male contacts are brass, female contacts are phosphor bronze. All contacts are plated with 5 micro inches of gold.

| Part Number |                                                                                   | Description                                                  | Fig. No. |
|-------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------|----------|
| 330A505     |  | Male/ Male Inline Barrel Splice                              | 35       |
| 332A505     |  | Female/Female Inline Splice                                  | 36       |
| 335A544     |  | Female/Female Inline Bulkhead Mount (Grounded)               | 37       |
| 335R544     |  | Female/Female Inline Isolated Bulkhead (Metal Outer Thread)  | 37       |
| 343A205F    |  | Crimp "T" Adapter for RG58 Cable                             | 41       |
| 343A205G    |  | Crimp "T" Adapter for RG59, 62 Cables                        | 41       |
| 343A505     |  | Female/Male/Female "T" Adapter (Yes, it runs with Netware™ ) | 38       |
| 345A505     |  | Female/Female/Female "T" Adapter                             | 39       |
| 351A505     |  | Female/Male Right Angle Adapter                              | 40       |
| 383U505     |  | The Goalie™                                                  | 42       |
| 383U205F    |  | The Goalie Brute™ Crimp Version for RG58 Cable               | 45       |
| 383U205G    |  | The Goalie Brute™ Crimp Version for RG59, 62 Cables          | 45       |
| 383K505*    |  | The Goalie Brute™                                            | 43       |
| 383P505*    |  | The Insulated Goalie                                         | 44       |
| 353U205F*   |  | Male/Female/Female Right Angle Double-Down™Crimp for RG58    | 49       |
| 353U205G*   |  | Male/Female/Female Right Angle Double-Down™ Type for RG59    | 49       |
| 353U505*    |  | Male/Female/Female Right Angle Double-Down™                  | 48       |
| 393U205F*   |  | Male/Female/Female Straight Double-Down™Crimp for RG58       | 47       |
| 393U205G*   |  | Male/Female/Female Straight Double-Down™Crimp for RG59       | 47       |
| 393U505*    |  | Male/Female/Female Straight Double-Down™                     | 46       |

 RoHS compliant

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[REQUEST DRAWING](#)

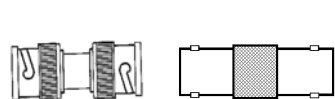
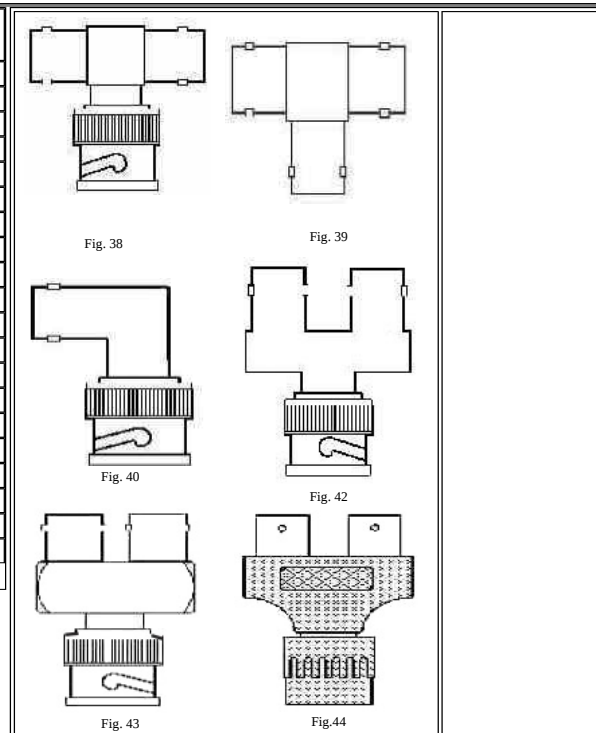


Fig. 35

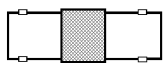


Fig. 36

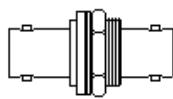


Fig. 37

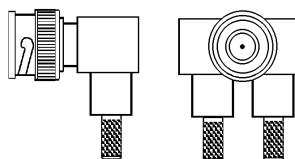


Fig. 48

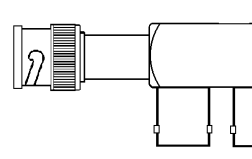


Fig. 46

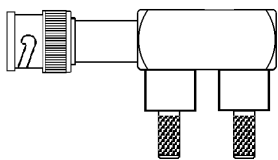


Fig. 41

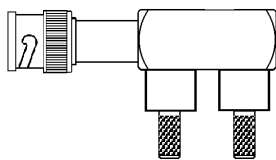


Fig. 49

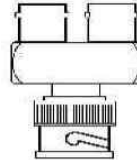


Fig. 45

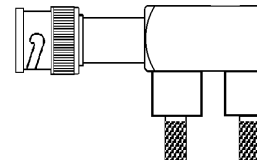
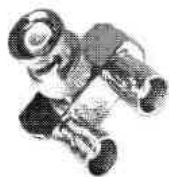


Fig. 47

## Specialty LAN Adapters

Double Down™ adapters are designed to allow parallel cables entering a patch panel, or a BNC LAN terminal port to be guided at a right angle to the input jack. Two versions accomplish this: one is a right angle with side-by-side jacks for areas with little rear clearance, and the other is a straight version for installations where width between panel jacks is limited. Crimp types are for permanent installations. Goalie, and Goalie Brute allow parallel cable 90° entry which require a minimum of rotational cable space.



\*Minimum quantity Requirements May Apply - Contact Sales



## BNC Connectors

### BNC Terminators

BNC terminators are available in standard 1% tolerance versions and in the economy 5% tolerance styles. The standard types have removable color coded caps for easy identification. The economy type are color coded as well but caps are not removable.

| Part Number                                                                  |  | Description                         | Fig. No. |
|------------------------------------------------------------------------------|--|-------------------------------------|----------|
| 310X054A                                                                     |  | 50 $\Omega$ with Red Cap            | 50       |
| 310C054                                                                      |  | 50 $\Omega$ with Grounding Chain    | 51       |
| 310X074                                                                      |  | 75 $\Omega$ with Blue Cap           | 50       |
| HBC310X075                                                                   |  | 75 $\Omega$ Precision .1% Tolerance | 52       |
| 310X094                                                                      |  | 93 $\Omega$ with Yellow Cap         | 50       |
| HBC310X075                                                                   |  | 75 $\Omega$ Precision .1% Tolerance | 53       |
| EJ175                                                                        |  | 50 $\Omega$ Economy                 | N/S      |
| EJ177                                                                        |  | 75 $\Omega$ Economy                 | N/S      |
| EJ179                                                                        |  | 93 $\Omega$ Economy                 | N/S      |
| RoHS compliant <a href="#">REQUEST QUOTE</a> <a href="#">REQUEST DRAWING</a> |  |                                     |          |



Fig. 50



Fig. 51



Fig. 52

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### Coax Crimp Tools

Professional grade hex-crimp tools for coaxial connectors are available in ratchet and non-ratcheting types, both provide dependable service. Ratchet tools feature replaceable dies. Included is a convenient release mechanism to unlatch the ratchet in the event of an improper crimp. Each tool also crimps the contact pin to the conductor.

| Part Number | Description                                        |
|-------------|----------------------------------------------------|
| BD10100     | Hex Crimp Ratchet for "F" Types, RG59, RG6         |
| BDHD100     | Hex Crimp Ratchet for Belden 8281                  |
| BDHD200     | Hex Crimp Ratchet for BNC/TNC RG58,59,62 and MV    |
| BDHD100     | Hex Crimp Ratchet for Mini-RG59                    |
| BD11012     | Hex Crimp Ratchet for "N" Crimp RG11, RG213, RG214 |
| BDHD100     | Hex Crimp Ratchet for BNC/TNC RG6, RG59            |

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S

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Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)