

# Connectors

## 75Ω BNC Connectors

### Applications

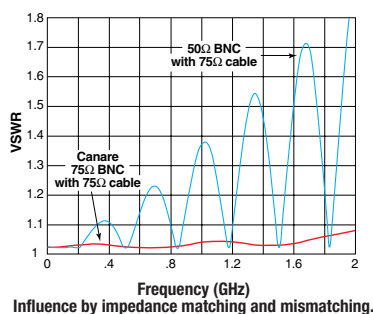
- SMPTE 259M & 292M compliant
- Serial Digital Video (SDI)
- HDTV upgrades (DTV)
- NTSC Analog
- Test equipment
- Satellite headends
- Telcom

### Features

- True 75Ω construction; Crimp Pin & Sleeve
- DC to 2 GHz;  $\geq 26$  dB Return Loss ( $\leq 1.1$  VSWR)
- Mechanically mates with common 50Ω BNC
- Elongated Body for better finger grip
- Superior cable pull strength
- Gold Plated Contact Pin 'Snap Locks' into place
- Beryllium Copper Outer Contact

Canare offers a full line of high performance MIL-C-39012 true 75Ω BNC connectors with impedance matched performance characteristics and specifications that properly address the latest generations of high bandwidth digital video equipment.

Importantly, Canare 75Ω BNC connectors offer excellent mechanical pull strength and very low digital signal reflections; RL  $\geq 26$ dB (VSWR  $\leq 1.1$ ) DC to 2GHz.

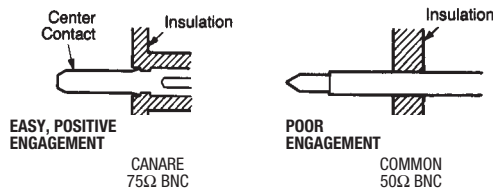


Note: Mismatch of terminating 75Ω video coax cable with 50Ω BNC connectors will result in signal degradation and reduced picture quality at today's ultra high analog and digital video transmission rates.

PTFE dielectric is designed with an exclusive **air gap** compensation circuit that maintains a constant 75Ω matched impedance, even if variances in contact pin crimping occur.

#### Captive Contact Pin

Canare BNC crimp pins snap and lock into place to prevent pin migration, the leading cause of most BNC connector failure.



Gold plated center crimp pin offers low contact resistance, superior mating properties and corrosion resistance.



#### Characteristics of alloys

|                  | COMPRESSION LIMIT VALUE kb (kg f/mm <sup>2</sup> ) |
|------------------|----------------------------------------------------|
| BERYLLIUM COPPER | 150                                                |
| PHOSPHOR BRONZE  | 100                                                |
| SPRING BRASS     | 50                                                 |

Beryllium Copper outer contact is extremely resilient to constant flexing.

**Elongated Body** design for better finger grip action.

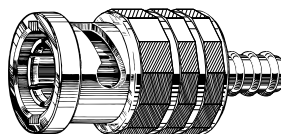
Special Nickel Plated Bell Brass remains brilliant even after many years of field service. Mechanically mate with all 50Ω type BNC connectors.

Canare Dual Crimp BNC connectors are a more reliable and rugged assembly than quick "twist-on" style BNC plugs.



Our longer Sleeves offer a wider crimping surface area for improved cable pull strength.

#### Low-Priced Type (DC to 1GHz)



Same center crimp pin & crimp sleeve with BCP-C. Die-cast body made affordable price possible.



The connector on the left is a commonly used 50Ω BNC. Notice that the dielectric (white ring) is visible at the top of the outer contact. The Canare plug on the right is a true 75Ω BNC connector. Its dielectric material is recessed... Your visual assurance that there will be proper 75Ω impedance matching between the source equipment, interconnecting cables, patchbay and load equipment. The end result: no signal reflections (VSWR) for longer cable runs and enhanced system performance.

## 75Ω BNC Crimp Plugs

Popular 75Ω BNC Connectors, Ideal for Digital Video and High-end Computer Graphics

## ■ BCP-C Series (Straight Type)

| Model      | Suitable Cable           |                                      | Center Pin | Sleeve  | Boot  | Die Set            |
|------------|--------------------------|--------------------------------------|------------|---------|-------|--------------------|
|            | Canare                   | Belden (suggested)                   |            |         |       |                    |
| BCP-C1     | L-1.5C2VS, V*-1.5C       | 83264, 83267                         | Solder     | BN7022  | CB01  | TCD-1DB            |
| BCP-C25    | L-2.5C2V                 | —                                    | BN1018A    | BN7029C | CB02  | TCD-35CA           |
| BCP-C25F   | L-2.5CFB                 | 1855A, 8218, 1417B, 1418B            | B11014E    | BN7029C | CB02  | TCD-35CA           |
| BCP-C31    | L-3C2W                   | —                                    | B11014E    | BN7011  | CB04  | TCD-31C            |
| ★ BCP-C32  | —                        | 1506A, 1824A, 1825A, 1826A, 643948   | B11016E    | BN7026A | CB03  | TCD-35CA           |
| BCP-C3B    | L-3C2VS, L-3C2V, V*-3C   | —                                    | B11014E    | BN7003A | CB03  | TCD-35CA           |
| BCP-C3F    | L-3CFB, LS-3CFB, V*-3CFB | —                                    | B11015E    | BN7003A | CB03  | TCD-35CA           |
| BCP-VC3    | V*-3C                    | —                                    | B11014E    | BN7052A | CB02  | TCD-35CA           |
| ★ BCP-C42  | —                        | 1505F                                | B11016E    | BN7011  | —     | TCD-31C            |
| BCP-C4B    | LV-61S                   | 8241, 8279, RG-59B/U                 | B11015E    | BN7015A | CB04  | TCD-451CA, TCD-4CA |
| BCP-C4F    | L-4CFB, LS-4CFB, V*-4CFB | 1505A, 8212, 8241F, 9167, 9259, 9659 | B11016E    | BN7015A | CB04  | TCD-451CA, TCD-4CA |
| ★ BCP-C51  | —                        | 728A, 8281, 8281B                    | B11016E    | BN7002  | —     | TCD-451CA          |
| BCP-C52    | L-5C2W                   | —                                    | B11016E    | BN7014  | —     | TCD-451CA          |
| ★ BCP-C53A | —                        | 1694A, 9066, 9116, 9118, 9248        | B11020D    | BN7046  | CB05A | TCD-35CA           |
| ★ BCP-C55A | —                        | 1695A, 89120, 87120, 633948, 9116P   | B11020D    | BN7045A | CB04  | TCD-35CA           |
| BCP-C5B    | L-5C2VS, L-5C2V, V*-5C   | —                                    | B11016E    | BN7016  | CB05A | TCD-35CA           |
| BCP-VC5    | V*-5C                    | —                                    | B11016E    | BN7045A | CB05A | TCD-35CA           |
| BCP-C5FA   | L-5CFB, LS-5CFB, V*-5CFB | —                                    | B11020D    | B75004A | CB05A | TCD-5CF, TCD-55FA  |
| BCP-C6HD   | L-6CHD                   | —                                    | BN1083A    | BN7074A | —     | TCD-67HD           |
| ★ BCP-C71A | —                        | 7731A, 9064, 9292, 1617A, 9011       | BN1043A    | BN7021A | —     | TCD-7CA            |
| BCP-C77A   | LV-77S                   | 8281F                                | B11016E    | B75004A | CB05A | TCD-5CF, TCD-55FA  |
| BCP-C7FA   | L-7CFB                   | —                                    | BN1012B    | BN7021A | —     | TCD-7CA            |
| BCP-C7HD   | L-7CHD                   | —                                    | BN1082A    | BN7021A | —     | TCD-67HD           |

•Standard package (20pcs / 100pcs)

★Custom models. Please ask us for ordering lot.

## ■ BCP-LC Series (Right Angle Type)

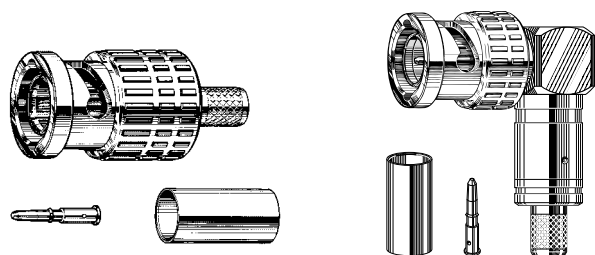
| Model    | Suitable Cable           |                    | Center Pin | Sleeve  | Boot | Die Set           |
|----------|--------------------------|--------------------|------------|---------|------|-------------------|
|          | Canare                   | Belden (suggested) |            |         |      |                   |
| BCP-LC3  | L-3C2VS, L-3C2V, V*-3C   | —                  | B11014E    | BN7003A | —    | TCD-35CA          |
| BCP-LC3F | L-3CFB, LS-3CFB, V*-3CFB | —                  | B11015E    | BN7003A | —    | TCD-35CA          |
| BCP-LC5  | L-5C2VS, L-5C2V, V*-5C   | —                  | B11016E    | BN7016  | —    | TCD-35CA          |
| BCP-LC5F | L-5CFB, LS-5CFB, V*-5CFB | —                  | B11020D    | B75004A | —    | TCD-5CF, TCD-55FA |

•Standard package (20pcs)

- High performance of 1.1 or less VSWR up to 2GHz. <Fig.1> (VSWR 1.1 or less up to 1GHz for BCP-C25, BCP-C25F)
- Use of crimping to attach the connectors ensures quick, reliable installation. <Fig. 2>
- Lock mechanism used on insulation improves reliability by preventing shifting or detaching of the contact pin.

- Gold plating on the contact pin prevents deterioration, even after years of use.
- Elongated body design enables easy attachment and removal.

Be sure to use the Canare crimping tool for installing connectors on cables.



BCP-C3B

BCP-LC3

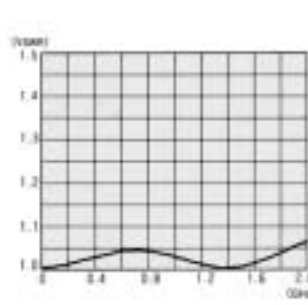
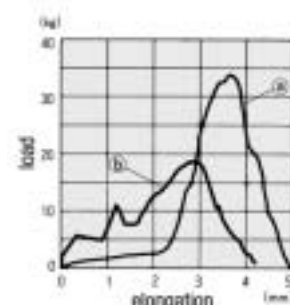


Fig. 1 VSWR for BCP-C3B

Fig. 2 (a) Cable Pull Test for BCP-C3B+3C-2V  
(b) Cable Pull Test for BCP-C25+2.5C-2V

## 75Ω BNC Crimp Plugs (Low-Priced)

Canare is prepared to offer international prices to customers concerned with reducing product cost. These are die-cast body 75Ω BNC connectors.

### ■ BCP-PC Series (Straight Type)

| Model           | Suitable Cable           |                                      | Center Pin | Sleeve  | Boot  | Die Set            |
|-----------------|--------------------------|--------------------------------------|------------|---------|-------|--------------------|
|                 | Canare                   | Belden (suggested)                   |            |         |       |                    |
| <b>BCP-PC3</b>  | L-3C2VS, L-3C2V, V*-3C   | —                                    | B11014E    | BN7003A | CB03  | TCD-35CA           |
| <b>BCP-PC3F</b> | L-3CFB, LS-3CFB, V*-3CFB | —                                    | B11015E    | BN7003A | CB03  | TCD-35CA           |
| <b>BCP-PC4</b>  | LV-61S                   | 8241, 8279, RG-59B/U                 | B11015E    | BN7015A | CB04  | TCD-451CA, TCD-4CA |
| <b>BCP-PC4F</b> | L-4CFB, LS-4CFB, V*-4CFB | 1505A, 8212, 8241F, 9167, 9259, 9659 | B11016E    | BN7015A | CB04  | TCD-451CA, TCD-4CA |
| <b>BCP-PC5</b>  | L-5C2VS, L-5C2V, V*-5C   | —                                    | B11016E    | BN7016  | CB05A | TCD-35CA           |
| <b>BCP-PC5F</b> | L-5CFB, LS-5CFB, V*-5CFB | —                                    | B11020D    | B75004A | CB05A | TCD-35CA           |

•Standard package (20pcs)

- 1.1 or less VSWR up to 1GHz. <Fig. 1>
- A new design has been adopted that requires less force to crimp the sleeve.
- The connector body is produced using the pressing process, which greatly lowers cost.
- Compatible with existing BCP-C series crimp tool.
- Lock mechanism used on insulation improves reliability by preventing shifting or detaching of the contact pin.
- Gold plating on the contact pin and external contact prevents deterioration, even after years of use.

Be sure to use the Canare crimping tool for installing connectors on cables.

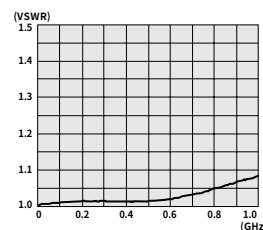
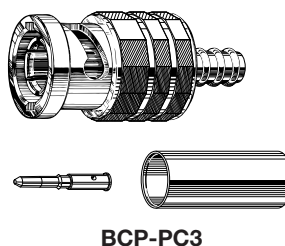


Fig. 1 VSWR for BCP-PC3

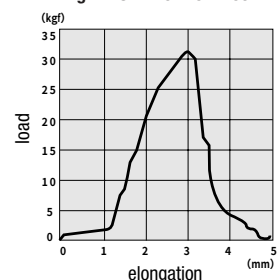


Fig. 2 Cable Pull Test for BCP-PC3+3C-2V

## 75Ω BNC Solder Plugs

### ■ BCP-PC Series (Straight Type)

| Model           | Suitable Cable                                                     |                    | Center Pin | Sleeve | Boot | Die Set |
|-----------------|--------------------------------------------------------------------|--------------------|------------|--------|------|---------|
|                 | Canare                                                             | Belden (suggested) |            |        |      |         |
| <b>BCP-H3B</b>  | L-3C2VS, L-3C2V, L-3CFB, LS-3CFB                                   | —                  | —          | —      | —    | —       |
| <b>BCP-H31F</b> | L-3CFW                                                             | —                  | —          | —      | —    | —       |
| <b>BCP-H5B</b>  | L-5C2VS, L-5C2V, L-5CFB, LS-5CFB                                   | —                  | —          | —      | —    | —       |
| <b>BCP-H51F</b> | L-5CFW                                                             | —                  | —          | —      | —    | —       |
| <b>BCP-H5/1</b> | L-3C2VS, L-3C2V, L-3CFB, LS-3CFB, L-5C2VS, L-5C2V, L-5CFB, LS-5CFB | —                  | —          | —      | —    | —       |

•Standard package (20pcs)

- 1.1 or less VSWR up to 1GHz. <Fig. 3>
- The tubular (ferrule) section is silver plated to make soldering easier.
- The cable stripper can be used for the Canare crimp BNC plugs as well, thus saving on extra equipment. (Excluding BCP-C1)

Be sure to use the Canare crimping tool for installing connectors on cables.

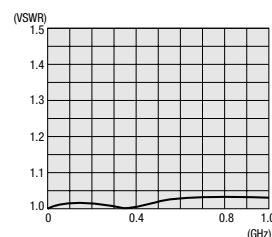
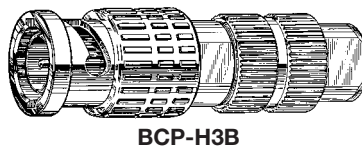


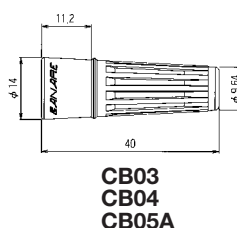
Fig. 3 VSWR for BCP-H5/1

## Cable Boots

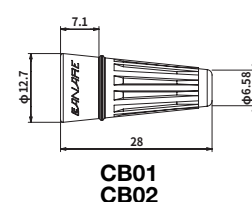
| Model        | Color |     |     |     |     |     |     |     |     |     | Material      |
|--------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------------|
|              | BLK   | BRN | RED | ORN | YEL | GRN | BLU | PPL | GRY | WHT |               |
| <b>CB01</b>  | ●     |     | ●   |     | ●   | ●   | ●   |     |     | ●   | Elastomer     |
| <b>CB02</b>  | ●     |     |     |     |     |     |     |     |     |     |               |
| <b>CB03</b>  | ●     | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |               |
| <b>CB04</b>  | ●     | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |               |
| <b>CB05A</b> | ●     | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   | ●   |               |
| <b>CB24</b>  | ●     |     | ●   |     | ●   | ●   | ●   |     |     | ●   | Rubber (EPDM) |
| <b>CB25</b>  | ●     |     | ●   |     | ●   | ●   | ●   |     |     | ●   |               |
| <b>CB26</b>  | ●     |     | ●   |     | ●   | ●   | ●   |     |     | ●   |               |

•Standard package (20pcs / 100pcs)

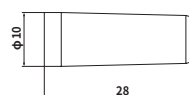
- Covering the connector-to-cable joint with the cable boot helps prevent cable damage at the connector sleeve stress point due to flexing and fatigue.



CB03  
CB04  
CB05A



CB01  
CB02



CB24  
CB25  
CB26

## 75Ω BNC Receptacles

BNC Receptacles that emphasize 75Ω impedance matching (conforms to MIL-C39012)

## ■ Panel Mount

| Model        | Description                        | Matching Cable |
|--------------|------------------------------------|----------------|
| BCJ-R        | Jack to Solder Pin                 | —              |
| BCJ-R/1      | Jack to Solder Cup with Ground Lug | —              |
| BCJ-FC1      | Panel Jack                         | 1.5C - 2V      |
| BCJ-FC1-7/16 | Panel Jack                         | 1.5C - 2V      |
| BCJ-JR       | Jack to Jack                       | —              |

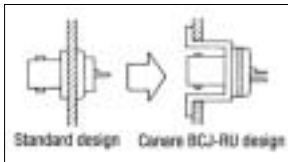
•Standard package (20pcs / 100pcs)

## ■ Recessed Bulkhead Receptacles

| Model     | Description                               | Matching Cable |
|-----------|-------------------------------------------|----------------|
| BCJ-RU    | Jack to Solder Cup                        | —              |
| BCJ-RUC1  | Panel Jack                                | 1.5C-2V        |
| BCJ-JRU   | Jack to Jack                              | —              |
| BCJ-RUD   | Jack to Solder Pin Neutrik D Type         | —              |
| BCJ-RUDB  | Jack to Solder Pin Neutrik D Type (Black) | —              |
| BCJ-JRUD  | Jack to Jack Neutrik D Type               | —              |
| BCJ-JRUDB | Jack to Jack Neutrik D Type (Black)       | —              |

•Standard package (20pcs / 100pcs)

- 1.1 or less VSWR up to 2GHz. (1.1 up to 1GHz for the Panel Jack type)
- Beryllium copper (gold plated) is used on the center contact for its superior spring characteristics.
- Center contact for the solder pin connectors are solder type.
- The recessed flush-mount configuration is designed to prevent damage on the flange type connectors.
- Two types of flange are available: ITT XLR-F77 and Neutrik D compatible.
- The panel jack connectors are based on a space-saving configuration designed for use with internally hard-wired equipment.
- Cable for the panel jack type is covered by crimp sleeve on the cable connect side. Center contact is solder type.



Registered design

For crimping sleeve of the panel jack types, be sure to use the Canare crimping tool TCD-1DB.

- A ground lug can be provided for the BCJ-R connector. Information is available on request.

## ■ Panel Hole Dimensions

| BCJ-R | ★BCJ-R/1<br>★BCJ-JR | BCJ-FC1 | ★BCJ-FC1-7/16 | BCJ-RUC1<br>BCJ-RU<br>BCJ-JRU | BCJ-RUD<br>BCJ-RUDB<br>BCJ-JRUD<br>BCJ-JRUDB |
|-------|---------------------|---------|---------------|-------------------------------|----------------------------------------------|
|       |                     |         |               |                               |                                              |

★ Indicate connectors that accept isolation bushing. Mounting hole for isolation bushing IU-7/16 should be adopted.

## Isolation Bushing

| Model   | Description                                                                        |
|---------|------------------------------------------------------------------------------------|
| IU-7/16 | ABS plastic, Color: White (standard stock). Black, Green, Red and Yellow (custom*) |

•Standard package (20pcs)

\*MOQ: 5000pcs

- Used to isolate connector and panel.

**Caution:** Be sure to remove the locknut and washer on the target connector when installing the isolation bushing.

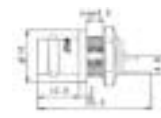
Mountable panel thickness:

1.2~1.5mm: BCJ-FPLVA, BCJ-FPLHA, BCJ-R/1

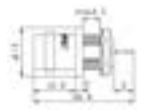
1.2~3.0mm: BCJ-FPC, BCJ-FPC02, BCJ-JR, BCJ-FPLV01



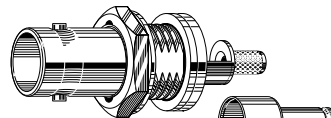
BCJ-R/1



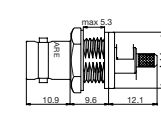
BCJ-R/1



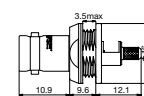
BCJ-R



BCJ-FC1-7/16



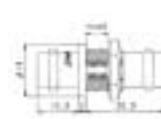
BCJ-FC1-7/16



BCJ-FC1



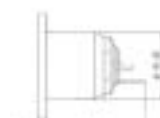
BCJ-JR



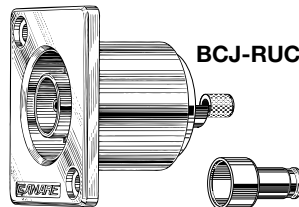
BCJ-JR



BCJ-RU



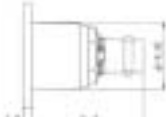
BCJ-RU (PBF)



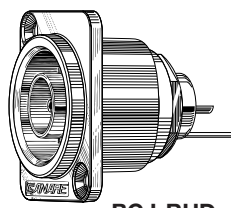
BCJ-RUC1



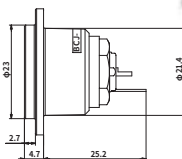
BCJ-RUC1



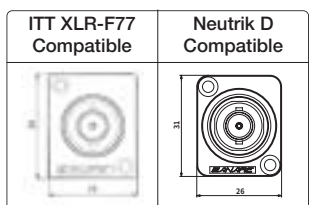
BCJ-JRU



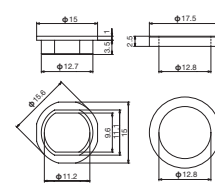
BCJ-RUD



BCJ-RUD



IU-7/16



Panel Hole Dimensions

## 75Ω BNC PC Board Mounted Receptacles

### Key Features and Benefits

- True 75Ω PC Board Mounted Receptacle
- ≤1.2 VSWR DC 2.5GHz; ≤1.1 VSWR DC 1.0GHz
- Gold Plated Beryllium Copper Center Contact
- Securely Mounts to PC Board with Chassis Support

### ■ BCJ-BP Series

| Model      | Description                        | Two-stud Position | Panel Mount                                       |
|------------|------------------------------------|-------------------|---------------------------------------------------|
| BCJ-BPLH   | BNC Jack Right Angle Mount         | Horizontal        | Front: M2.6-6 screw<br>(Extra M2.6 tap at bottom) |
| BCJ-BPLH2P | Dual BNC Jack, Right Angle Mount   |                   |                                                   |
| BCJ-BPLH3P | Triple BNC Jack, Right Angle Mount |                   |                                                   |
| BCJ-BPC2P  | Dual BNC Jack, Straight Mount      | —                 | Front: M2.6-6 screw                               |

\* M2.6-6 screws are not included.



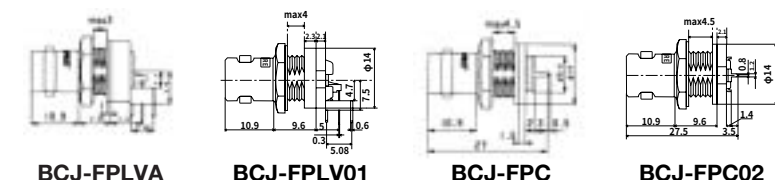
BCJ-BPLH BCJ-BPLH2P BCJ-BPLH3P

|                 | BCJ-BPLH              | BCJ-BPLH2P            | BCJ-BPLH3P            | BCJ-BPC2P             |
|-----------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Panel Hole Dim. |                       |                       |                       |                       |
| PC Hole Dim.    |                       |                       |                       |                       |
|                 | t1.6<br>(BOTTOM VIEW) | t1.6<br>(BOTTOM VIEW) | t1.6<br>(BOTTOM VIEW) | t1.6<br>(BOTTOM VIEW) |

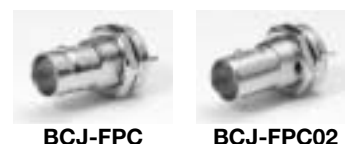
### ■ BCJ-FP Series

| Model      | Description                          | Two-stud Position | Panel Mount                    |
|------------|--------------------------------------|-------------------|--------------------------------|
| BCJ-FPLVA  | BNC Jack Right Angle Mount           | Vertical          | Front: Hex nut and lock washer |
| BCJ-FPLV01 | Low Cost BNC Jack, Right Angle Mount |                   |                                |
| BCJ-FPLHA  | BNC Jack Right Angle Mount           | Horizontal        | Front: Hex nut and lock washer |
| BCJ-FPC    | BNC Jack, Straight Mount             | —                 |                                |
| BCJ-FPC02  | Low Cost BNC Jack, Straight Mount    | —                 |                                |

\* Hex nut and lockwasher are included.



BCJ-FPLVA BCJ-FPLV01 BCJ-FPLHA

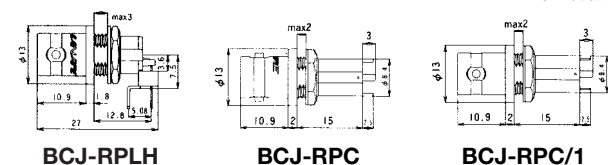


BCJ-FPC BCJ-FPC02

### ■ BCJ-RP Series

| Model     | Description                | Two-stud Position | Panel Mount                     |
|-----------|----------------------------|-------------------|---------------------------------|
| BCJ-RPLV  | BNC Jack Right Angle Mount | Vertical          | Rear:<br>Hex nut and lockwasher |
| BCJ-RPLH  | BNC Jack Right Angle Mount | Horizontal        |                                 |
| BCJ-RPC   | BNC Jack, Straight Mount   | —                 |                                 |
| BCJ-RPC/1 | BNC Jack, Straight Mount   | —                 |                                 |

\* Hex nut and lockwasher are included.



BCJ-RPLV BCJ-RPLH



BCJ-RPC BCJ-RPC/1

|                 | BCJ-FPLVA<br>BCJ-FPLV01 | BCJ-FPC<br>BCJ-FPC02 | BCJ-FPLHA | BCJ-RPC/1<br>BCJ-RPC<br>BCJ-RPLH |
|-----------------|-------------------------|----------------------|-----------|----------------------------------|
| Panel Hole Dim. |                         |                      |           |                                  |
| PC Hole Dim.    |                         |                      |           |                                  |
|                 | t1.6                    | t1.6                 | t1.6      | t1.6                             |



## 75Ω BNC / 75Ω N Type Connectors

### 75Ω BNC Jack Plug

| Model  | Matching Cable                                 | Boot | Die Set            |
|--------|------------------------------------------------|------|--------------------|
| BCJ-C4 | RG-59 B/U, LV-61S,<br>Belden 8241, 8279, 88241 | CB25 | TCD-4CA, TCD-451CA |

•Standard package (20pcs)

- 1.1 or less VSWR up to 1.5GHz, 1.2 or less up to 2.4GHz.
- Beryllium copper (gold plated) is used on the center contact for its superior spring characteristics. (Center contact is soldered.)

Be sure to use the Canare crimping tool for installing connectors on cables.

### 75Ω BNC Extension Adapter

| Model | Description  |
|-------|--------------|
| BCJ-J | Jack to Jack |

•Standard package (20pcs / 100pcs)

- Beryllium copper is used on the center contact for its superior spring characteristics.
- 1.1 or less VSWR up to 2GHz. <Fig. 1>

### 75Ω BNC Termination Plugs

Designed for True 75Ω Termination

| Model     | Description                                        |
|-----------|----------------------------------------------------|
| BCP-PT    | Low-Priced 75Ω Termination (1.0GHz Type)           |
| BCP-TA    | Standard 75Ω Termination (2.0GHz Type)             |
| BCP-TA-CH | Standard 75Ω Termination (2.0GHz Type) with String |

•Standard package (20pcs / 100pcs)

- Includes 1/4 watt resistance.
- 1.1 or less VSWR up to 2GHz. (Up to 1GHz for BCP-PT) <Fig. 2>

### BNC Dust Caps

| Model     | Description                      |
|-----------|----------------------------------|
| BCJ-DC    | Polyethylene (Black)             |
| BCJ-DC-CH | Polyethylene (Black) with string |

•Standard package (20pcs / 100pcs)

- Protects unused BNC receptacles from dirt and dust.

### 75Ω N Type Plug

| Model    | Matching Cable |
|----------|----------------|
| NCP-H8HD | L-8CHD         |

•Standard package (1pc)

- Gold plating on the contact pin prevents deterioration, even after years of use.
- 1.1 or less VSWR up to 2GHz. <Fig. 3>
- Solder type

Tools required: 17mm and 21mm wrenches

**Caution:** The connecting section of the N type connector uses a shape that conforms to the IEC169-16's 75Ω impedance standard. Note that the 50Ω N type and other connectors that do not conform to this specification can not be connected.

### 75Ω N Type to BNC Adapter

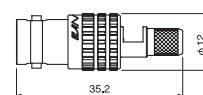
| Model    | Description     |
|----------|-----------------|
| NCJ-BCJR | N (F) - BNC (F) |

•Standard package (1pc)

- Beryllium copper (gold plated) is used on the center contact for its superior spring characteristics.
- 1.1 or less VSWR up to 2GHz. <Fig. 4>
- Panel mountable as well. For isolation from the panel, use Canare isolation bushing IU-7/16.



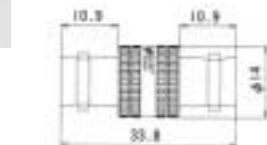
BCJ-C4



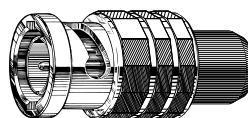
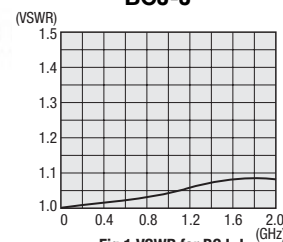
BCJ-C4



BCJ-J



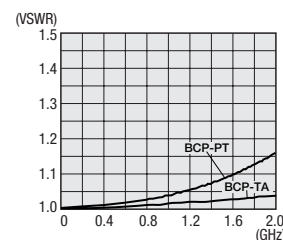
BCJ-J



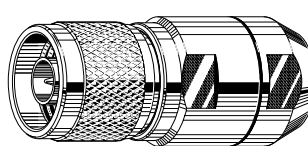
BCP-PT



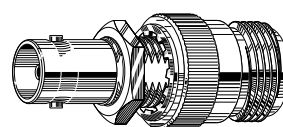
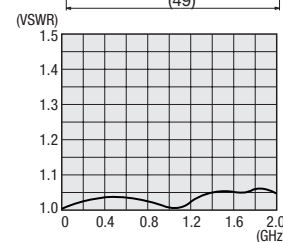
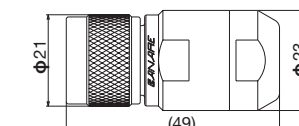
BCP-TA



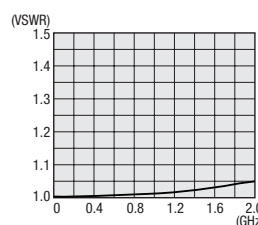
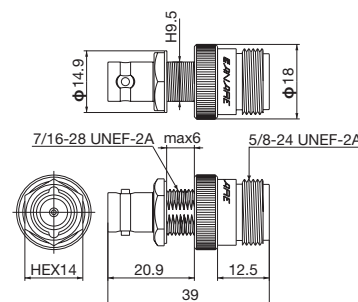
BCJ-DC



NCP-H8HD



NCJ-BCJR



Panel Hole Dimensions



# 75Ω Triaxial Connectors

## 75Ω Triaxial Connectors

Canare CC series cover global triaxial interconnection. CC-F series are ideal for interconnecting European triax system and CC-K series for American triax system.

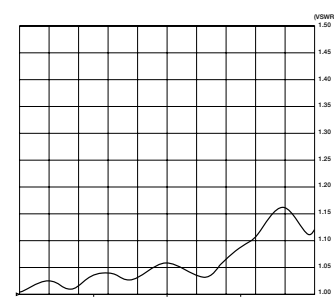
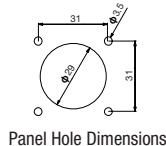
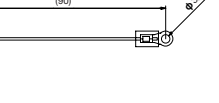
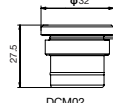
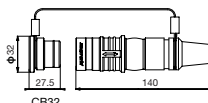
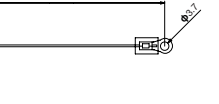
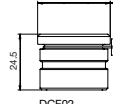
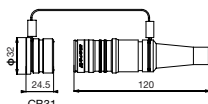
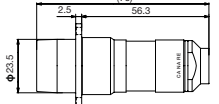
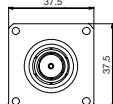
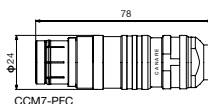
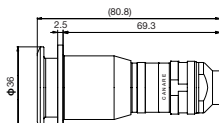
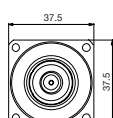
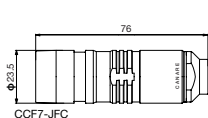
### Key Features and Benefits

- True 75Ω, DC 1.5GHz; ≥20dB Return Loss (≤1.2 VSWR)
- Push-lock mechanism
- Crimp and solder type are available
- Sturdy construction
- no cable stress when detaching to prevent cable break

## CC-F Series

Cable compatibility meets European interconnecting requirements.

| Model         | Description                    | Suitable Cable |                    | Boot/Cap | Tools          |
|---------------|--------------------------------|----------------|--------------------|----------|----------------|
|               |                                | Canare         | Belden (suggested) |          |                |
| CCF5-JF       | Female cable mount             | L-5CFTX        | 7783A              | CB16     | —              |
| CCM5-PF       | Male cable mount               |                |                    | CB17     |                |
| CCF5-JFR      | Female panel mount             |                |                    | DCF02    |                |
| CCM5-PFR      | Male panel mount               |                |                    | DCM02    |                |
| NEW CCF5-JFC  | Crimp type, Female cable mount | L-5CFTX        | 7783A              | CB31     | TC-1 + TCD-65C |
| NEW CCM5-PFC  | Crimp type, Male cable mount   |                |                    | CB32     |                |
| NEW CCF5-JFRC | Crimp type, Female panel mount |                |                    | DCF02    |                |
| NEW CCM5-PFRC | Crimp type, Male panel mount   |                |                    | DCM02    |                |
| NEW CCF7-JFC  | Crimp type, Female cable mount | L-7CFTX        | 7784A              | CB31     | TC-2 + TCD-96C |
| NEW CCM7-PFC  | Crimp type, Male cable mount   |                |                    | CB32     |                |
| NEW CCF7-JFRC | Crimp type, Female panel mount |                |                    | DCF02    |                |
| NEW CCM7-PFRC | Crimp type, Male panel mount   |                |                    | DCM02    |                |
| CCF10-JF      | Female cable mount             | 10CFTX-SC      | —                  | CB18     | —              |
| CCM10-PF      | Male cable mount               |                |                    | CB19     |                |
| CCF10-JFR     | Female panel mount             |                |                    | DCF02    |                |
| CCM10-PFR     | Male panel mount               |                |                    | DCM02    |                |

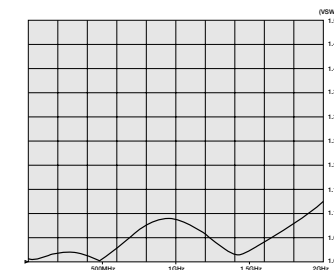
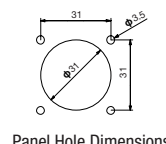
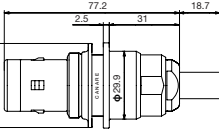
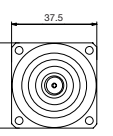
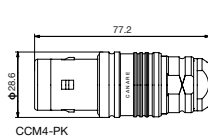
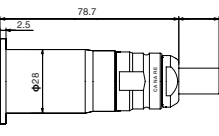
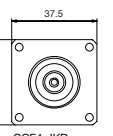
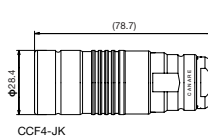


VSWR for CCx7-F

## CC-K Series

Cable compatibility meets American interconnecting requirements.

| Model    | Description                    | Suitable Cable |                    | Boot/Cap | Tools           |
|----------|--------------------------------|----------------|--------------------|----------|-----------------|
|          |                                | Canare         | Belden (suggested) |          |                 |
| CCF4-JK  | Crimp type, Female cable mount | L-4CFTX        | 1856A, 1857A, 9267 | CB23     | TC-1 + TCD-316C |
| CCM4-PK  | Crimp type, Male cable mount   |                |                    | CB22     |                 |
| CCF4-JKR | Crimp type, Female panel mount |                |                    | DCF02    |                 |
| CCM4-PKR | Crimp type, Male panel mount   |                |                    | DCM03    |                 |



VSWR for CCx4-K

## RCA Connectors / Phono Plugs

### RCA Pin Connectors

Such consumer products as CD players and DAT systems have become so functionally sophisticated that they are increasingly being used as commercial systems. Canare is providing a line of connectors specially designed for this equipment range.

#### ■ RCAP-C Series (Straight Plug, Crimp Type)

|   | Model     | Suitable Cable           |                                      | Center Pin | Sleeve  | Boot | Die Set            |
|---|-----------|--------------------------|--------------------------------------|------------|---------|------|--------------------|
|   |           | Canare                   | Belden (suggested)                   |            |         |      |                    |
| ★ | RCAP-C25F | L-2.5CFB                 | 1855A, 8218, 1417B, 1418B            | B11014E    | BN7029C | —    | TCD-35CA           |
|   | RCAP-C3A  | L-3C2VS, L-3C2V, V*-3C   | —                                    | B11014E    | BN7003A | CB24 | TCD-35CA           |
| ★ | RCAP-C3GS | GS-6                     | —                                    | BN1093     | BN7079  | CB25 | TCD-35D            |
|   | RCAP-C3F  | L-3CFB, LS-3CFB, V*-3CFB | —                                    | B11015E    | BN7003A | CB24 | TCD-35CA           |
| ★ | RCAP-C42  | —                        | 1505F                                | B11016E    | BN7011  | —    | TCD-31C            |
|   | RCAP-C4A  | LV-61S                   | 8241, 8279, RG-59B/U                 | B11015E    | BN7015A | CB25 | TCD-451CA, TCD-4CA |
|   | RCAP-C4F  | L-4CFB, LS-4CFB, V*-4CFB | 1505A, 8212, 8241F, 9167, 9259, 9659 | B11016E    | BN7015A | CB25 | TCD-451CA, TCD-4CA |
| ★ | RCAP-C53  | —                        | 1694A, 9066, 9116, 9118, 9248        | B11020D    | BN7046  | CB26 | TCD-35CA           |
|   | RCAP-C5A  | L-5C2VS, L-5C2V, V*-5C   | —                                    | B11016E    | BN7016  | CB26 | TCD-35CA           |
|   | RCAP-C5F  | L-5CFB, LS-5CFB, V*-5CFB | —                                    | B11020D    | B75004A | CB26 | TCD-5CF, TCD-55FA  |
| ★ | RCAP-C77  | LV-77S                   | 8281F                                | B11016E    | B75004A | —    | TCD-5CF, TCD-55FA  |

•Standard package (20pcs / 100pcs)

★Custom models. Please ask us for ordering lot.

- The crimp design ensures fast and reliable cable connection.
- The crimp tool for the RCAP-C can be used for the Canare crimp BNC plugs as well, thus saving on extra equipment.

Be sure to use the Canare crimping tool for installing connectors on cables.

#### ■ RCA Solder Plugs

| Model | Description                |
|-------|----------------------------|
| F-09  | RCA Pin Plug               |
| F-10  | RCA Pin Plug (Long sleeve) |

•Standard package (10pcs)

- Offer strong cable clamping that prevents severed lines.
- Suited to cables up to 6.0mmø in size.
- Spring must be removed when attaching to L-5C2VS cables.
- Accommodates cables up to 7.5mmø in size when spring removed.

#### ■ RCA Recessed Bulkhead Receptacles

| Model      | Description                                |
|------------|--------------------------------------------|
| RJ-RU      | Jack to Solder Cup                         |
| RJ-BCJRU   | RCA (F) - BNC (F)                          |
| RJ-RUD     | Jack to Solder Cup, Neutrik D Type         |
| RJ-RUDB    | Jack to Solder Cup, Neutrik D Type (Black) |
| RJ-BCJRUD  | RCA (F) - BNC (F), Neutrik D Type          |
| RJ-BCJRUDB | RCA (F) - BNC (F), Neutrik D Type (Black)  |

•Standard package (20pcs / 100pcs)

- Two types of flange are available: ITT XLR-F77 and Neutrik D compatible.
- VSWR is 1.1 or less up to 50MHz, enabling their use with HDTV and computer graphics video signals.
- Color-coded insulation enables users to easily distinguish between the R, G and B elements. Users can choose as required from five colors, including red, green, blue, yellow and white.

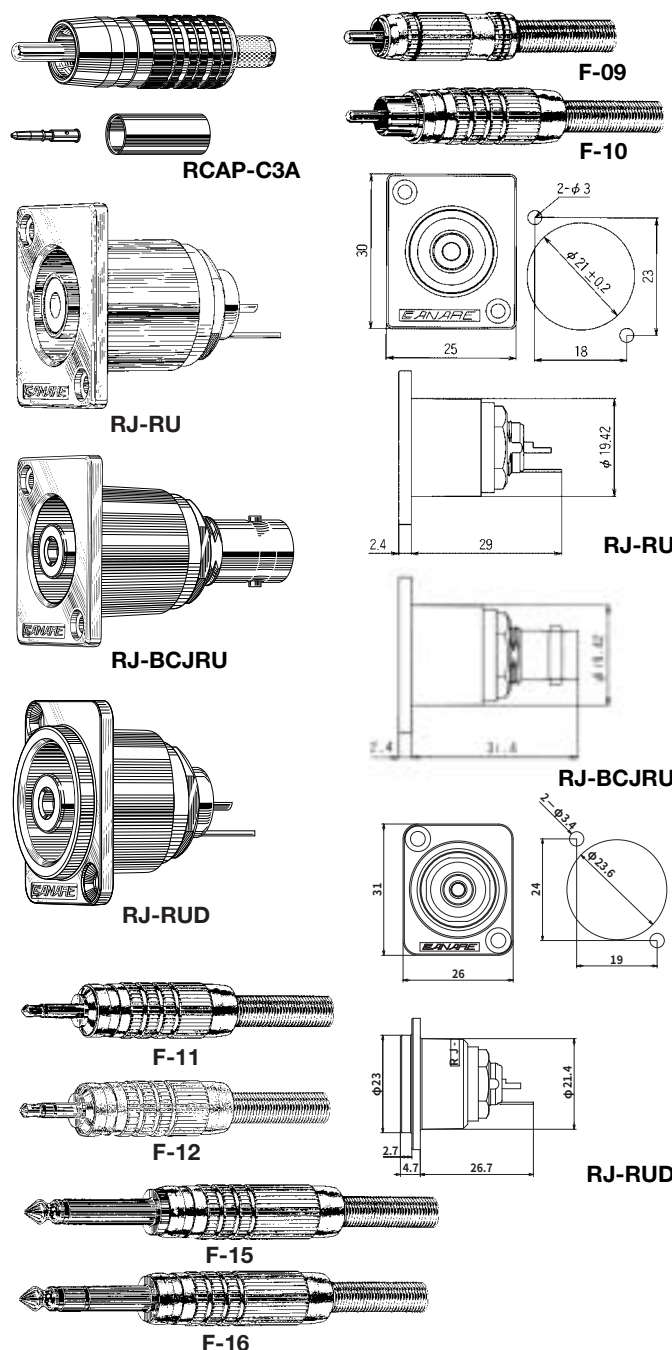
### Phono Plugs

| Model | Description    |
|-------|----------------|
| F-11  | Mini Phono TS  |
| F-12  | Mini Phono TRS |
| F-15  | 1/4" TS Phono  |
| F-16  | 1/4" TRS Phono |

•Standard package (10pcs)

**Robustly Constructed Phone Plugs Designed For Use With Electronic Musical Instruments**

- Offer strong cable clamping that prevents severed lines.
- Suited to cables up to 6.0mmø in size.
- Accommodates cables up to 7.5mmø in size when spring removed.





# F Connectors

## F Connectors

This type is used in such applications as home television receivers for cable television (CATV) systems.

### FP-C Series (Straight Plug, Crimp Type)

| Model     | Suitable Cable           |                                      | Center Pin | Sleeve  | Boot | Die Set            |
|-----------|--------------------------|--------------------------------------|------------|---------|------|--------------------|
|           | Canare                   | Belden (suggested)                   |            |         |      |                    |
| FP-C3     | L-3C2VS, L-3C2V, V*-3C   | —                                    | BN1002B    | BN7003A | CB24 | TCD-35CA           |
| FP-C31    | L-3C2W                   | —                                    | BN1002B    | BN7011  | CB25 | TCD-31C            |
| FP-C3F    | L-3CFB, LS-3CFB, V*-3CFB | —                                    | BN1003B    | BN7003A | CB24 | TCD-35CA           |
| FP-C4     | LV-61S                   | 8241, 8279, RG-59B/U                 | BN1003B    | BN7015A | CB25 | TCD-451CA, TCD-4CA |
| FP-C4F    | L-4CFB, LS-4CFB, V*-4CFB | 1505A, 8212, 8241F, 9167, 9259, 9659 | BN1004B    | BN7015A | CB25 | TCD-451CA, TCD-4CA |
| FP-C5     | L-5C2VS, L-5C2V, V*-5C   | —                                    | BN1004B    | BN7016  | CB26 | TCD-35CA           |
| ★ FP-C52  | L-5C2W                   | —                                    | BN1004B    | BN7014  | —    | TCD-451CA          |
| ★ FP-C53A | —                        | 1694A, 9066, 9116, 9118, 9248        | BN1005B    | BN7046  | CB26 | TCD-35CA           |
| ★ FP-C55A | —                        | 1695A, 89120, 87120, 633948, 9116P   | BN1005B    | BN7045A | —    | TCD-35CA           |
| ★ FP-C5F  | L-5CFB, LS-5CFB, V*-5CFB | —                                    | BN1005B    | B75004A | CB26 | TCD-5CF, TCD-55FA  |
| ★ FP-C71A | —                        | 7731A, 9064, 9292, 1617A, 9011       | BN1041A    | BN7021A | —    | TCD-7CA            |
| ★ FP-C7FA | L-7CFB                   | —                                    | BN1030A    | BN7021A | —    | TCD-7CA            |

•Standard package (20pcs / 100pcs)

★Custom models. Please ask us for ordering lot.

- Lock mechanism improves reliability by preventing shifting or detaching of the center pin.
- The tools and cable stripper can be used for the Canare crimp BNC plugs as well, thus saving on extra equipment.
- VSWR of 1.1 or less up to 2GHz. Compatible with broadcast satellite (BS) and communications satellite (CS) signals.
- Designed for indoor use.

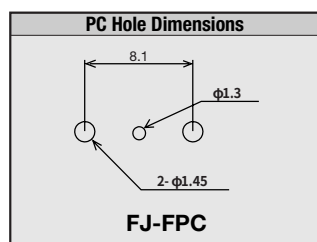
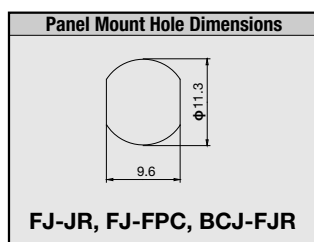
Be sure to use the Canare crimping tool for installing connectors on cables.

### F Panel Mount Receptacles

| Model   | Description             |
|---------|-------------------------|
| FJ-JR   | Jack to Jack            |
| FJ-FPC  | PC Board Straight Mount |
| BCJ-FJR | BNC Jack to F Jack      |

•Standard package (20pcs / 100pcs)

- VSWR of 1.1 or less up to 2GHz. Compatible with broadcast satellite (BS) and communications satellite (CS) signals. <Fig. 1>
- For isolation from the panel, use isolation bushing IU-7/16.  
(Panel thickness: 1.2~3.0mm)



### F Recessed Bulkhead Receptacles

| Model    | Description                          |
|----------|--------------------------------------|
| FJ-JRU   | Jack to Jack                         |
| FJ-JRUD  | Jack to Jack, Neutrik D Type         |
| FJ-JRUDB | Jack to Jack, Neutrik D Type (Black) |

•Standard package (20pcs / 100pcs)

- Two types of fiange are available: ITT XLR F77 and Neutrik D compatible.

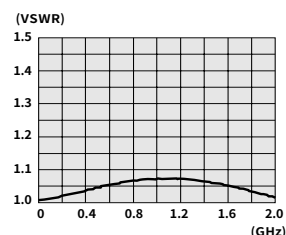
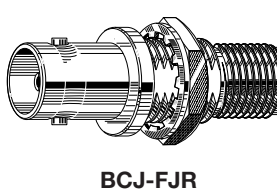
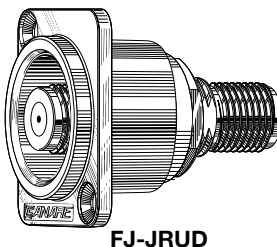
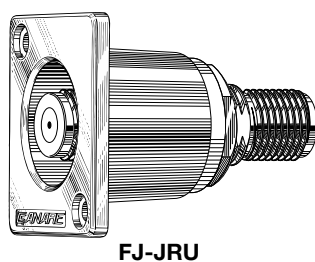
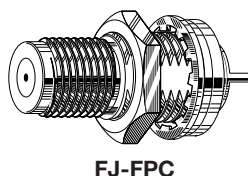
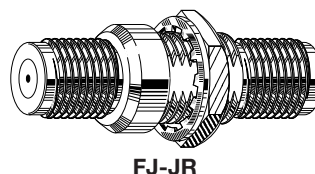
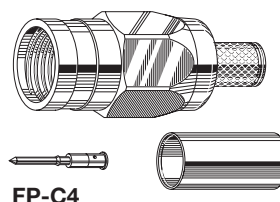
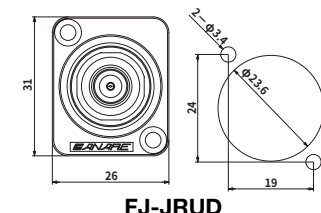
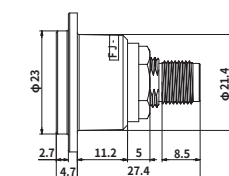
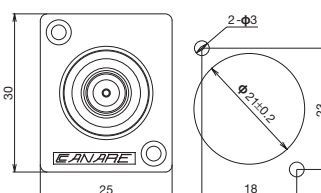
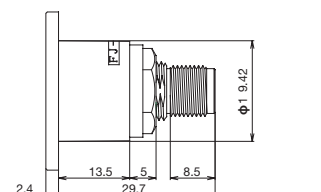


Fig.1 VSWR for FJ-JRU/FJ-JR



## 75Ω Multi-Pin Coaxial Connectors

### 75Ω Multi-Pin Coax Connectors

Single connector handles load of up to five 75Ω coaxial connectors.

| Model    | Description | Matching Cable       |
|----------|-------------|----------------------|
| MCM-V5C3 | Plug        | V5-3C                |
| MCF-V5C3 | Receptacle  | V5-3C, L-3C2V, 3C-2V |

| Model | Description | Matching Connector |
|-------|-------------|--------------------|
| DCM01 | Dust Cap    | MCM-V5C3           |
| DCF01 |             | MCF-V5C3           |

- Crimping is used for its speed and reliability as the method for installing connectors on the cables.

Be sure to use the Canare crimping tool for installing connectors on cables.

※ Replacement unit also available.

MCM-V5C3: BN9078

MCF-V5C3: BN9079

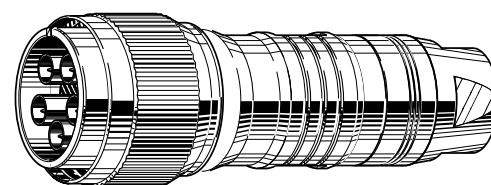


Replacement Unit BN9078

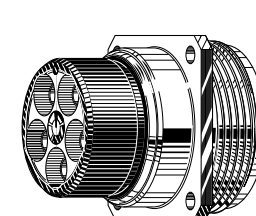
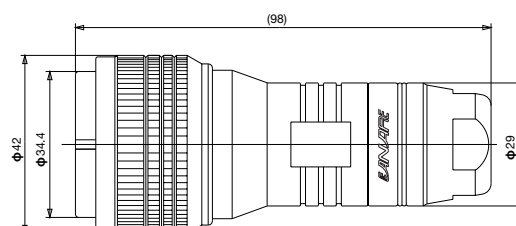


Replacement Unit BN9079

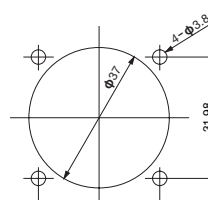
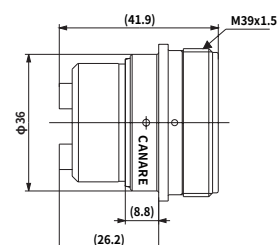
| Item                     | Specifications                                  |
|--------------------------|-------------------------------------------------|
| Connection               | Screw type                                      |
| Tools                    | Wrenches 24mm, 27mm, TC-1 crimper, TCD-35CA die |
| Characteristic Impedance | Unbalanced 75 Ω                                 |
| Insulation resistance    | DC500V, 1000M Ω or more                         |
| Withstand voltage        | AC1500V 1min. ( between conductors )            |
| Contact resistance       | 10m Ω or less                                   |
| Insertion loss           | 0.3dB or less ( DC~1.5GHz )                     |
| VSWR                     | 1.2 or less ( DC~1.5GHz )                       |
| Cable connecting force   | 196N ( 20kgf ) or more ( each connector unit )  |
| Repetition of operation  | 500 times                                       |
| Working temperature      | -40°C~+65°C                                     |
| Working humidity         | ~90%                                            |



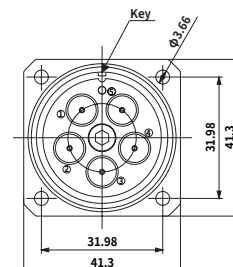
MCM-V5C3



MCF-V5C3



Panel Hole Dimensions  
(Mounting screw M3 x 4 pcs)



## FAQ

- Q** Does it matter in which direction crimp sleeves are attached?
- A** For BCP-C3B—use and other non-stepped (straight type) crimp sleeves, it does not matter in which direction the crimp sleeve is attached. The attachment direction also does not matter for BCP-C5FA—use and other specific-use types that have a chamfer (groove) at one end of the crimp sleeve. However, stepped crimp sleeves such as those for BCP-C1, etc. are directional and must be attached in the direction shown in the diagram below, with the cable threaded through the sleeve starting from the end with the step (that is, the end with smaller-diameter hole).
- 
- Q** What should be done with the tape on aluminum tape-wrapped coaxial cables?
- A** For coaxial cables with lightly adhered removable aluminum tape, peel back the tape to the root of the braid. For coaxial cables with strongly adhered unremovable aluminum tape, simply make sure to remove any burrs or other fine strands of tape in the area up to the insulation cut, since these could cause shorts.
- Q** Why do some BNC plugs made by other companies have a sharp point at the tip of the central contact? Are these compatible with Canare's BNC receptacles?
- A** The central contact is pointed in conformance with the JIS standard for 50Ω BNC connectors. The central contacts on Canare's connectors conform to the MIL standard, and therefore are not pointed. These two different shapes simply offer different ways to guide the plug into the female receptacle and have no direct effect on contact quality.

The actual contact surfaces on Canare's BNC connectors are designed in conformance with JIS standards and therefore pose no compatibility problems.



- Q** Is it possible to use cables not listed in the connector compatibility table as long as they are close to the dimensions of those listed?
- A** No. While connection may be possible, performance may be adversely affected. Even if the connection appears to work, factors such as electrical instability, weak cable contact strength and others may cause problems during actual use. Therefore, it is necessary to test and evaluate whether it is actually possible to use the configuration in question. Particular caution should be used when crimping is involved.
- Q** What is meant by "cable contact strength"?
- A** Cable contact strength refers to the maximum load borne by the cable when exerting tensile force to remove it from the connector. For Canare products, "cable contact strength" refers to the contact strength of a cable's outer conductor, not including the pull-out strength of the central contact or the contact strength of the inner conductor.
- Q** What is the approximate insertion loss associated with connectors?
- A** The value varies depending on the connector, but for BNC plugs the value is approximately 0.1dB per plug (DC–2GHz).

## 50Ω BNC Connectors

### 50Ω BNC Crimp Plugs

VSWR of 1.1 or less up to 2GHz, 1.2 or less up to 4GHz.

#### BP-C Series (Straight Type)

| Model   | Matching Cable     | Boot  | Die Set (Model: TCD-***) |     |       |
|---------|--------------------|-------|--------------------------|-----|-------|
|         |                    |       | 55FA                     | 35D | 3151D |
| BP-C3   | L-3D2V, 3D-2V      | CB03  |                          | ●   |       |
| BP-C31  | L-3D2W, 3D-2W      | CB04  |                          |     | ●     |
| BP-C4   | RG-58C/U, RG-58A/U | CB03  |                          | ●   |       |
| BP-C5   | L-5D2V, 5D-2V      | CB05A |                          | ●   |       |
| BP-C5FA | L-5DFB, 5D-FB      | CB05A | ●                        |     |       |
| BP-C51  | L-5D2W, 5D-2W      | —     |                          |     | ●     |

•Standard package (20pcs / 100pcs)

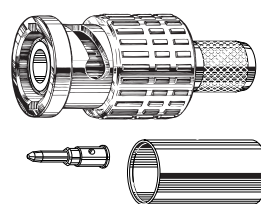
#### BP-LC Series (Right Angle Type)

| Model   | Matching Cable | Die Set   |
|---------|----------------|-----------|
| BP-LC31 | L-3D2W, 3D-2W  | TCD-3151D |
| BP-LC51 | L-5D2W, 5D-2W  |           |

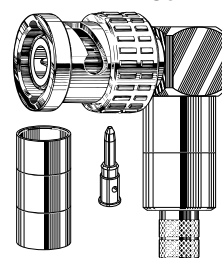
•Standard package (20pcs)

- Lock mechanism used on insulation improves reliability by preventing shifting or detaching of the contact pins.
- Elongated body design for straight type enables easy attachment and removal.
- Gold plating on the contact pin prevents deterioration, even after years of use.
- Use of crimping to attach the connectors ensures quick, reliable installation.

Be sure to use the Canare crimping tool for installing connectors on cables.



BP-C5



BP-LC31

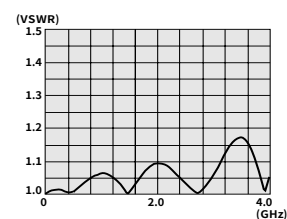


Fig.1 VSWR for BP-C31

## 50Ω BNC Receptacles

#### Panel Mount

| Model | Description  |
|-------|--------------|
| BJ-JR | Jack to Jack |

•Standard package (20pcs) Custom model. Please ask us for ordering lot.

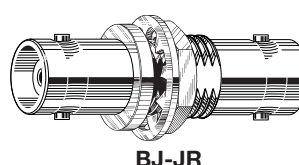
- Mounting hole size is same as that for the hard-wired BCJ-R/1 connector.

#### Recessed Bulkhead Receptacles

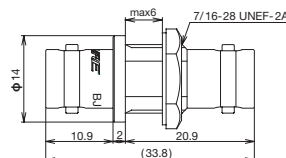
| Model    | Description                         |
|----------|-------------------------------------|
| BJ-JRU   | Jack to Jack                        |
| BJ-JRUD  | Jack to Jack Neutrik D Type         |
| BJ-JRUDB | Jack to Jack Neutrik D Type (Black) |

•Standard package (20pcs) Custom model. Please ask us for ordering lot.

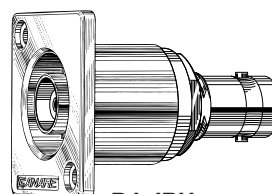
- Recessed flush mount panel jack design effectively protects the housed connector. <P.13 Fig.1>
- Two types of flange are available: ITT XLR-F77 and Neutrik D compatible.



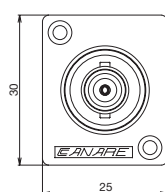
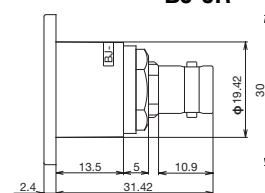
BJ-JR



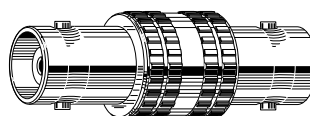
BJ-JR



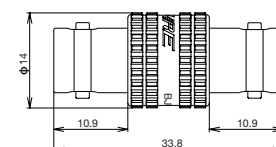
BJ-JRU



BJ-JRU



BJ-J



BJ-J

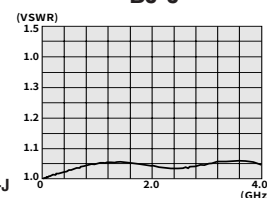


Fig.2 VSWR for BJ-J

## 50Ω BNC Extension Adapter

| Model | Description  |
|-------|--------------|
| BJ-J  | Jack to Jack |

•Standard package (20pcs) Custom model. Please ask us for ordering lot.

- VSWR of 1.1 or less up to 4GHz.

## 50Ω TNC / 50Ω N / 50Ω SMA Connectors

### 50Ω TNC Crimp Plugs

Ideal for wired and/or wireless telecommunication infrastructure.

#### ■ TNP-C Series (Straight Type)

| Model   | Matching Cable     | Boot  | Die Set   |
|---------|--------------------|-------|-----------|
| TNP-C3  | L-3D2V, 3D-2V      | CB03  | TCD-35D   |
| TNP-C31 | L-3D2W, 3D-2W      | CB04  | TCD-3151D |
| TNP-C4  | RG-58C/U, RG-58A/U | CB03  | TCD-35D   |
| TNP-C5  | L-5D2V, 5D-2V      | CB05A |           |
| TNP-C51 | L-5D2W, 5D-2W      | —     | TCD-3151D |

•Standard package (20pcs)

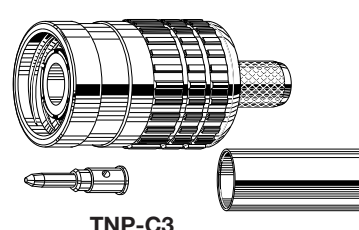
#### ■ TNP-LC Series (Right Angle Type)

| Model    | Matching Cable | Die Set   |
|----------|----------------|-----------|
| TNP-LC31 | L-3D2W, 3D-2W  | TCD-3151D |
| TNP-LC51 | L-5D2W, 5D-2W  |           |

•Standard package (20pcs)

- VSWR of 1.1 or less up to 2GHz, 1.2 or less up to 4GHz. <Fig. 1>
- Use of crimping to attach the connectors ensures quick, reliable installation.
- Crimping tool can be used for the Canare crimp BNC plugs as well, thus saving on extra equipment.
- Elongated body design for straight type enables easy attachment and removal.

Be sure to use the Canare crimping tool for installing connectors on cables.



TNP-C3

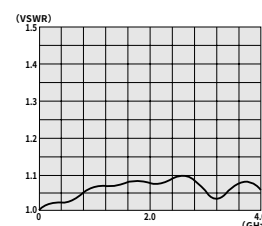


Fig.1 VSWR for TNP-C3

### 50Ω N Crimp Plugs

This is a coaxial connector used for transmission antennas.

#### ■ NP-C Series (Straight Type)

| Model  | Matching Cable | Boot | Die Set   |
|--------|----------------|------|-----------|
| NP-C31 | L-3D2W, 3D-2W  | CB04 | TCD-3151D |
| NP-C51 | L-5D2W, 5D-2W  | —    |           |

•Standard package (20pcs)

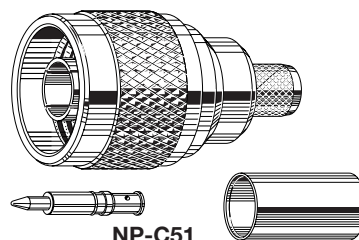
#### ■ NP-LC Series (Right Angle Type)

| Model   | Matching Cable | Die Set   |
|---------|----------------|-----------|
| NP-LC31 | L-3D2W, 3D-2W  | TCD-3151D |
| NP-LC51 | L-5D2W, 5D-2W  |           |

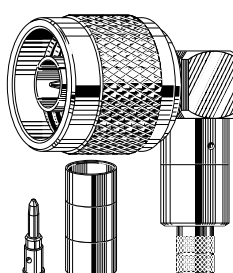
•Standard package (20pcs)

- High-performance VSWR of 1.1 or less up to 2GHz, 1.2 or less up to 4GHz.
- Lock mechanism used on insulation prevents shifting or detaching of the contact pins.
- Use of crimping to attach the connectors ensures quick, reliable installation.

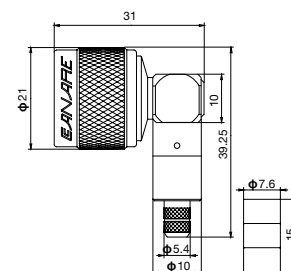
Be sure to use the Canare crimping tool for installing connectors on cables.



NP-C51



NP-LC31



NP-LC31

### 50Ω SMA Crimp Plugs

This is a miniature coaxial connector designed for use in the compact, high-density integration devices used in transmission and measuring systems.

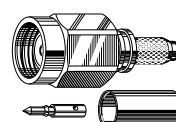
#### ■ SMAP-C Series (Straight Type)

| Model     | Matching Cable | Die Set   |
|-----------|----------------|-----------|
| SMAP-C1   | 1.5D-QEW       | TCD-1DB   |
| SMAP-C31A | L-3D2W, 3D-2W  | TCD-3151D |
| SMAP-C51  | L-5D2W, 5D-2W  |           |

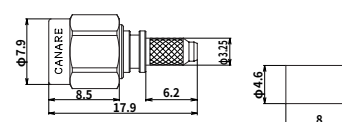
•Standard package (20pcs)

- Center contact for SMAP-C1 is of solder type.
- VSWR of 1.1 or less up to 2GHz, 1.2 or less up to 4GHz.  
(For SMAP-C1, VSWR is 1.2 or less up to 2GHz.)

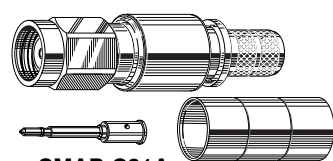
Be sure to use the Canare crimping tool for installing connectors on cables.



SMAP-C1



SMAP-C1



SMAP-C31A