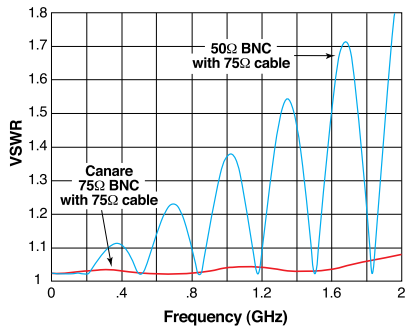


75Ω BNC Connectors: C-Series

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

Importantly, Canare 75 Ohm BNC connectors offer excellent mechanical pull strength & very low digital signal reflections; RL ≥26dB (VSWR ≤1.1) DC to 2GHz.



Influence of impedance matching/mismatching

Note:
Much of the 75 Ohm video coax cable in use today may still be terminated with 50 Ohm BNC connectors. Although this pairing is adequate for lower frequency bandwidths (such as standard NTSC broadcast transmissions), this mismatch will result in signal degradation & reduced picture quality at today's ultra high analog and digital video transmission rates.

Applications

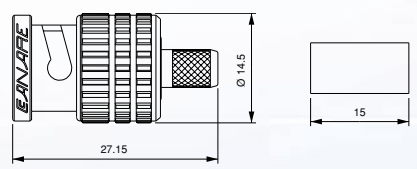
- SMPTE 259M & 292M compliant
- Serial Digital Video (SDI)
- HDTV upgrades
- NTSC analog
- Satellite headends
- Telcom

Features

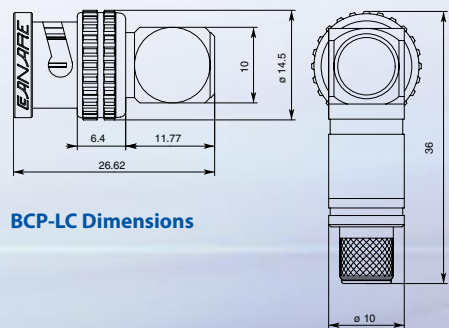
1. True 75 Ohm construction; Crimp Pin & Sleeve
2. DC to 2 GHz; ≥26 dB Return Loss (≤1.1 VSWR)
3. Mechanically mates with common 50 Ohm BNC
4. Elongated body
5. Longer crimp sleeve
6. Gold Plated Contact Pin 'Snap Locks' into place
7. Beryllium Copper Outer Contact

Benefits

1. Better transmission quality
2. Extremely low bit-rate error
3. "Universal" applications
4. Better finger grip
5. Superior cable pull strength
6. More reliable connection
7. Extremely resilient to constant flexing



BCP-C Dimensions



BCP-LC Dimensions

Body Material Plating	Center Contact Material Plating	Dielectric	Crimp Sleeve Material Plating	Cable Retention lbs (kg)	Insulation Resistance (500V DC)	Voltage Rating (1 min)	Center Contact Resistance	Outer Contact Resistance
Brass Nickel	Brass Nickel	PTFE	Copper Tin	>55 >24.9	>1000 MegaOhms	1500V AC (rms)	<6 miliOhms	<3 miliOhms

Model #	Pin	Sleeve
BCP-C1	Solder	BN7022
BCP-C25F	B11014E	BN7029C
BCP-C32	B11016E	BN7026A
BCP-C3B	B11014E	BN7003A
BCP-C3F	B11015E	BN7003A
BCP-C42	B11016E	BN7011
BCP-C4B	B11015E	BN7015A
BCP-C4F	B11016E	BN7015A
BCP-C51	B11016E	BN7002
BCP-C53A	B11020D	BN7046
BCP-C55A	B11020D	BN7045A
BCP-C5B	B11016E	BN7016
BCP-C5FA	B11020D	B75004A
BCP-C71A	BN1043	BN7021A
BCP-C77A	B11016E	B75004A
BCP-C7FA	BN1012B	BN7021A
BCP-LC3F	B11015E	BN7003A
BCP-LC5F	B11020D	B75004A
BCP-VC3	B11014E	BN7052A
BCP-VC5	B11016E	BN7045A

See cross-reference charts on page 54 for tooling and cable matches.

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

Special Nickel Plated Bell Brass remains brilliant even after many years of field service.

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

Beryllium Copper outer contact is more resilient to constant flexing than spring brass or phosphor bronze.

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

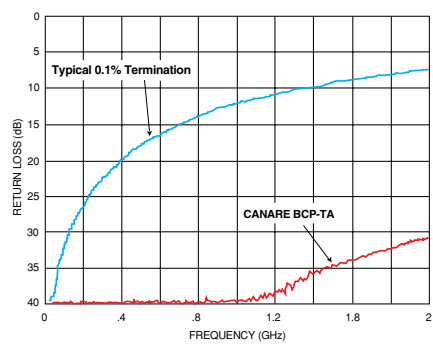
Gold plated center crimp pin inhibits corrosion and offers low contact resistance with superior mating properties.

Canare 75 Ohm BNC
EASY POSITIVE ENGAGEMENT

Common 50 Ohm BNC
POOR ENGAGEMENT

75 Ohm Termination

All 75 Ohm signals, once entered into a termination, must be fully converted into energy. If the impedance matching is not perfect, part of this energy will be reflected and poor Return Loss (VSWR) will result, especially at higher operating frequencies (i.e. computer graphics, digital video, etc.).



Common BNC terminators use a 50 Ohm type body with a generic 75 Ohm DC resistor tacked onto the back of the center contact pin.

Canare's precision 75 Ohm BCPTA, far exceeds (by 20 to 30 dB) other commercial terminations, even those rated at .1% tolerance.

Careful attention to impedance design detail makes this the first true 75 Ohm termination with the same VSWR performance found in test lab precision terminators which cost hundreds of dollars.



75Ω BNC Termination Plug

Applications

- Digital Video 75 Ohm termination

BCP-TA

- DC to 2 GHz; ≥26 dB Return Loss (≤1.1 VSWR)
- 75 Ohm Metal Film Resistor (± 1%, 1/4 Watt @°100ppm)
- Gold Plated Center Pin; Beryllium Copper Outer Contact
- Elongated Body Design

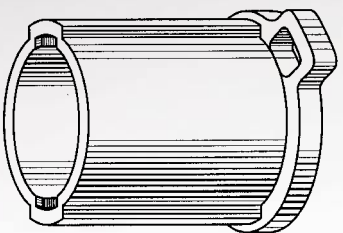
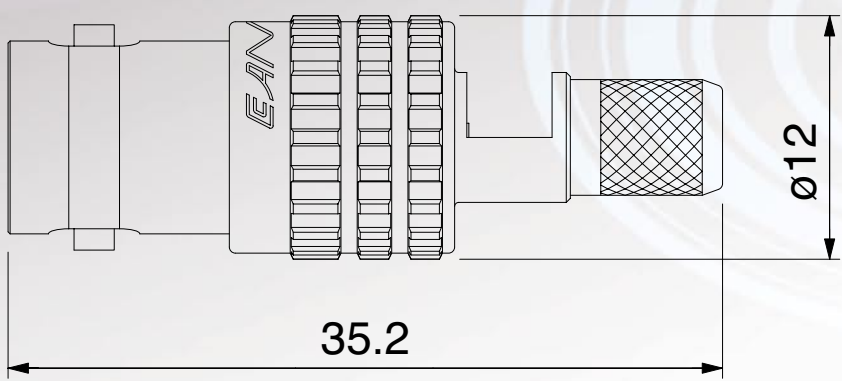
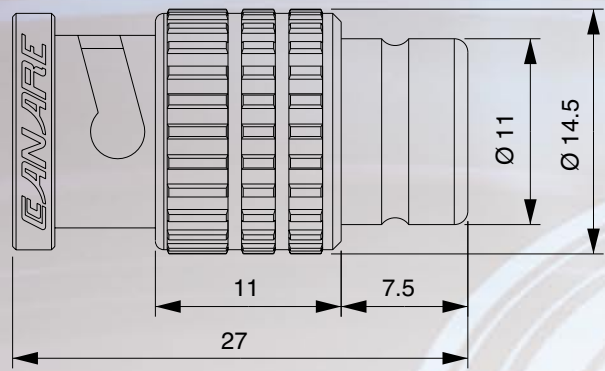


75Ω BNC Plug Female Connector

BCJ-C4

- 75 Ohm impedance
- 1.1 or less VSWR up to 1.5 GHz
- Gold-plated beryllium copper soldered center pin
- Crimp sleeve

Model #	Matching Cable	Boot	Die
BCJ-C4	RG-59 B/U LV-61S	CB25 Nickel	TCD-4C TCD-451CA



BNC Dust Cap

BCJ-DC

- Protects all unused BNC Bulkhead Receptacles from dirt and dust

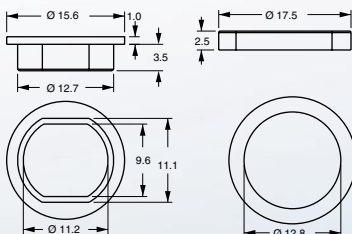
Double-D Isolation Bushings

Applications

- 2 Piece Expandable Isolation Bushing
- Colors: Blk, Blu, Grn, Red, Wht, Yel
- High compression, ABS plastic
- Accommodates 1.2mm ~ 3mm thick panels

IU-7/16

Please indicate color if other than WHT



75Ω Slim BNC Connectors

Applications

- High-density video patch panels
- Fit standard BNC jacks
- Serial Digital Video
- HDTV upgrades
- NTSC Analog

Features

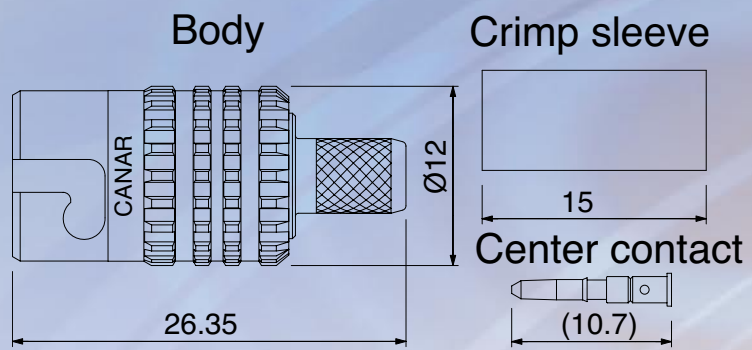
1. 75 Ohm impedance
2. ≥20 dB Return Loss; DC to 2.4GHz
3. 12 mm outside diameter
4. Gold Plated Beryllium Copper center contact

Benefits

1. Professional standard
2. Extremely low bit-rate error
3. Easier to connect/disconnect on dense panels
4. Excellent transmission quality



Model	Pin	Sleeve
MBCP-C25F	B11014E	BN7029C
MBCP-C3F	B11015E	BN7003A
MBCP-C4	B11015E	BN7015A
MBCP-C4F	B11016E	BN7015A
MBCP-C53	B11020D	BN7046
MBCP-C5F	B11020D	B75004A



See cross-reference charts on page 54 for tooling and cable matches.

75Ω BNC In-Line Adaptor

Applications

- BNC Line Cord Extender

BCJ-J

75 Ohm impedance
BNC jack to BNC jack

