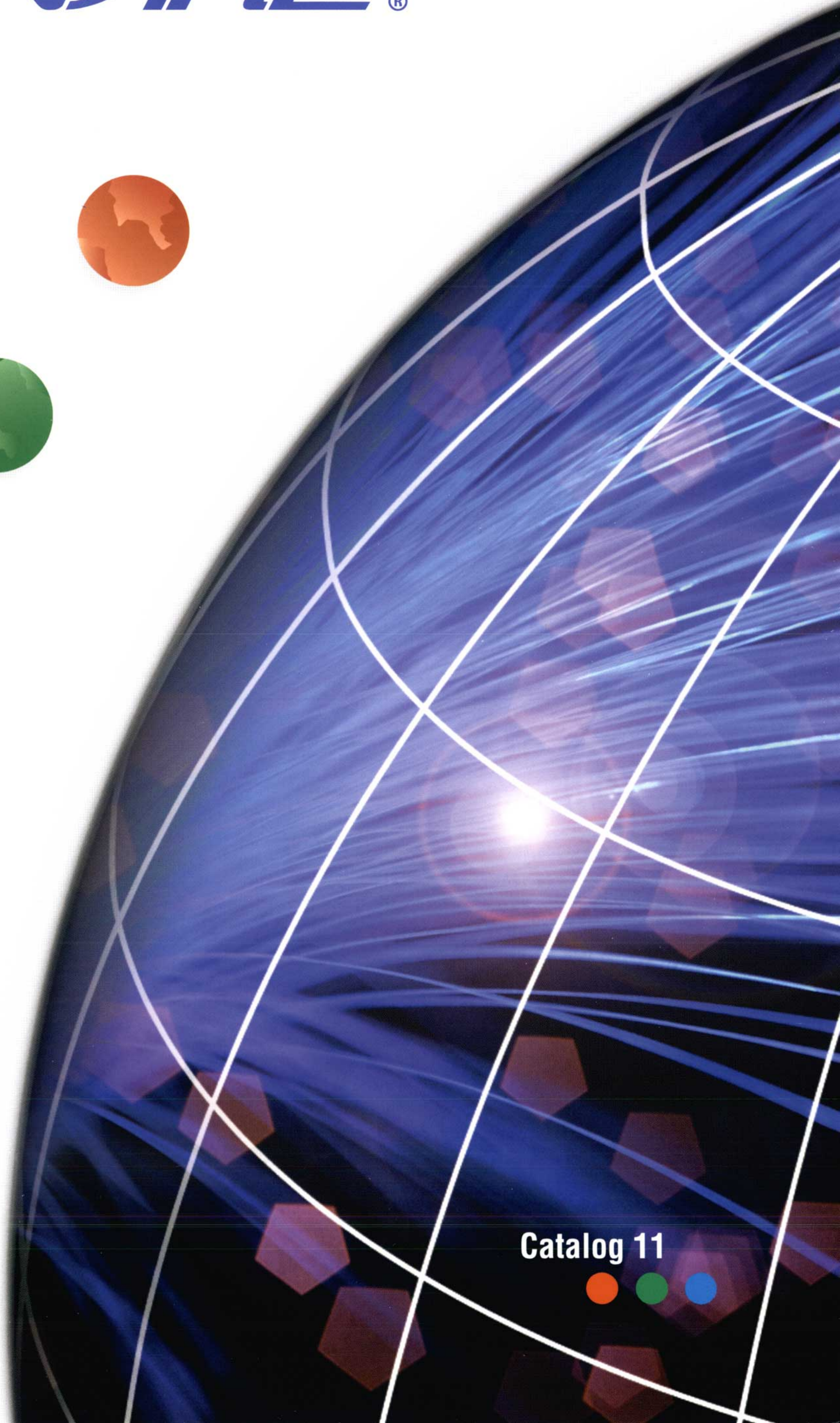
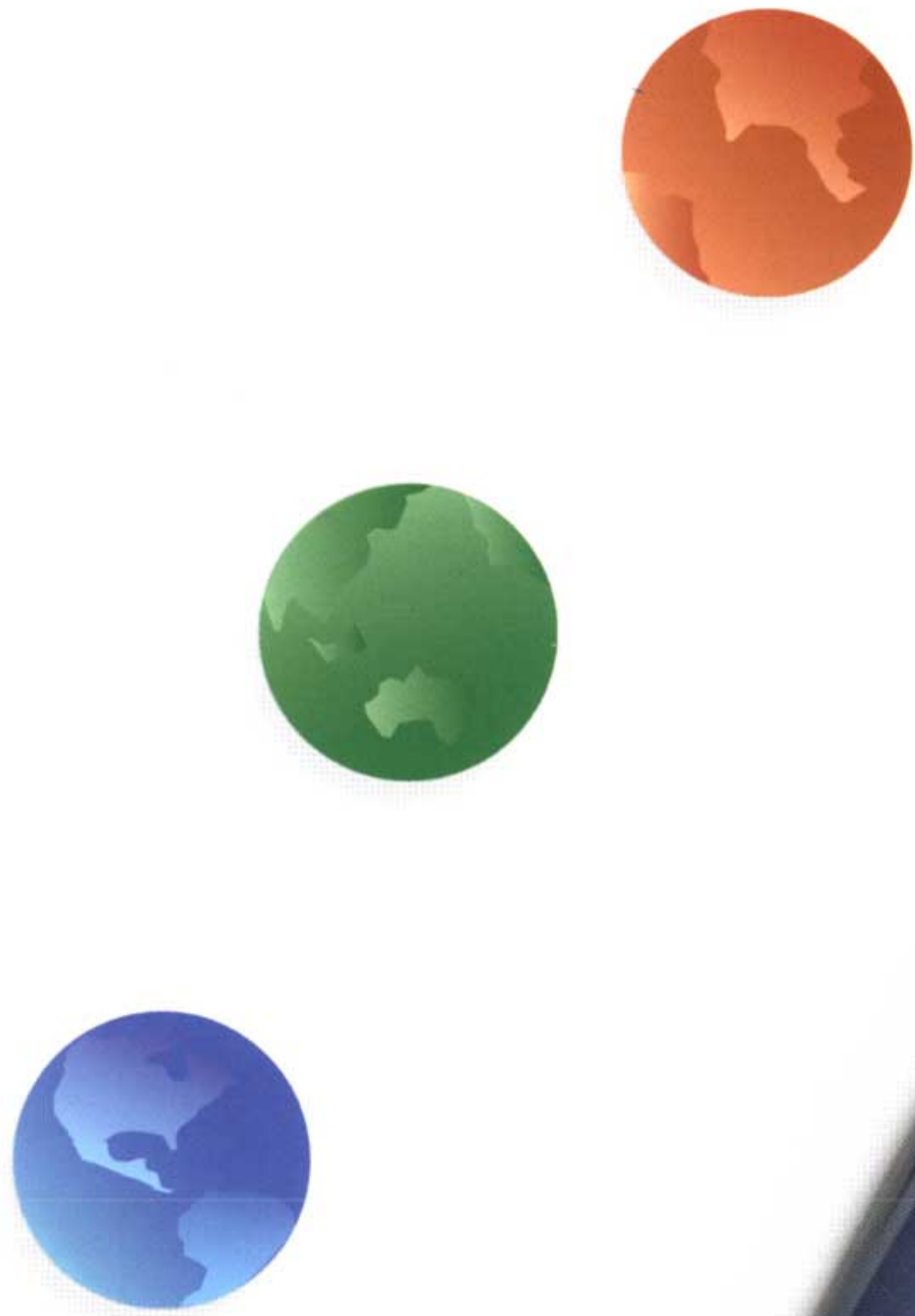


EA NARE®



Catalog 11



VIDEO PATCHBAYS & BULKHEAD PANELS

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MD Series

75Ω MID-SIZE VIDEO PATCHBAY

Equipped with newly developed 3GHz-compatible (Normal Through) rotary switch. Lightweight, high-density 32-channel video patchbay ideal for mobile broadcast van applications.

Panel Size	Video jack		
	Q'ty	Normal through	Straight through
EIA panel 1U	32	32MD	32MDS

- New 3GHz (Normal Through) rotary switch more reliable.
- 32 channels of input and output into a 1U and 2U size panel.
- Light-weight aluminum-alloy video jacks.


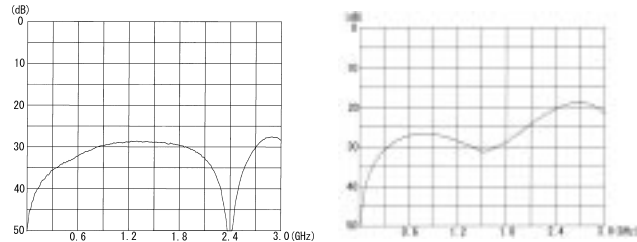
MID-SIZE DUAL VIDEO JACK

The video jack is equipped with Canare's newly-developed rotary switch.

Model	Description
MDVJ-W	Normal through
MDVJ-S	Straight through

<New Rotary Switch>

At the heart of the video jack is a newly-developed rotary switch which has been specially designed for use with high frequency signals. It features dual-contact construction for excellent contact stability.

Return Loss

Signal Routing	MDVJ-W	MDVJ-S
BNC-BNC: Normal Through	20dB or greater (up to 3.0GHz)	—
BNC-VIDEO: Patch Through	18dB or greater (up to 2.4GHz)	18dB or greater (up to 2.4GHz)
BNC-Internal Terminator	20dB or greater (up to 2.4GHz)	15dB or greater (up to 2.4GHz)

<Caution>
Conventional video plugs and BNC connectors are too large in O.D. to be connected to the 32-Channel Video Patchbay. Please be sure to use only the appropriate connectors, referring to the tables on the next page.

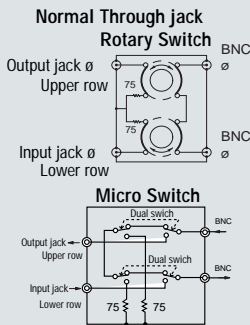
Card dimensions (426ø6.2mm)

- The patchbay can be recessed 25mm by changing the mounting hole positions of the mounting brackets.

Technical Note

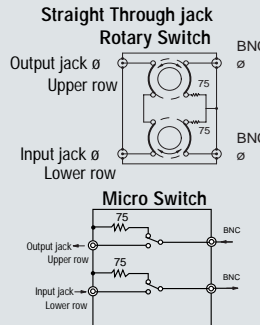
Video Patchbay Switching Systems

Either of the following two switching systems can be selected, depending on application.



Shown prior to plug insertion
The circuit linking the upper (output) and lower (input) sections remains connected until a plug is inserted. Signal is obtained by inserting plug in upper jack, which connects lower section to internal terminating resistor.

Signal is input by inserting plug in lower jack, which connects upper section to internal terminating resistor.



Shown prior to plug insertion
The upper (output) and lower (input) sections are terminated by resistors. Signal is obtained by inserting plug in upper jack, at which time the lower section is terminated.

Signal is input by inserting plug in lower jack, at which time the upper section is terminated.

MID -SIZE VIDEO PATCH PLUG

Model	Matching Cable	Matching Boot	Crimp Die
MVP-C4	LV-61S, RG-59B/U	CB25	TCD-4CA, TCD-451CA

- Return loss of 20dB or greater at DC-2.4 GHz
- Gold-plated center contact pin.
- Compatible with mid-size video jacks.

MID -SIZE VIDEO PATCH PLUG TO BNC ADAPTER

Model	Matching Cable	Matching Boot	Crimp Die
MBCP-C3F	L-3CFB	CB24	TCD-35CA
MBCP-C4	LV-61S, RG-59B/U	CB25	TCD-4CA, TCD-451 CA
MBCP-C25F	1855A	—	TCD-3C, TCD-35CA
MBCP-C4F	1505A	CB25	TCD-4C, TCD-451C
MBCP-C53	1694A	CB25	TCD-35CA
MBCP-C5F	1189A	CB26	TCDD5CF

- Return loss 20 dB or greater at DC-2.4 GHz
- 12 mm O.D. ideal for use with high-density integrated devices.

MID-SIZE VIDEO PATCH PLUG TO BNC ADAPTER

Model	Description
BCJ-MVP	BNC-(female) - Miniature video patch plug

- Return loss of 26dB or greater (DC-3GHz)

SLIM BNC INSERTION/EXTRACTION TOOL

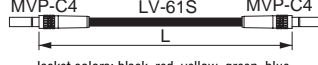
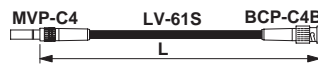
Model	Matching Connector
BET-MBNC	MBCP-C3F, MBCP-C4

- This driver is used to insert and remove plugs on the rear panel of the Carare 32-Channel Video Patchbay. (Length: 30cm)

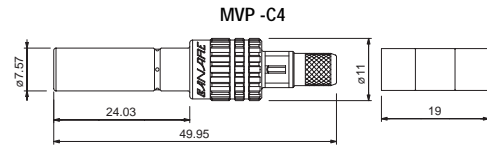
NOTE: The BET-MBNC tool is a specialized tool for the Slim BNC plugs, and cannot be used for other connectors.

NOTE: MD Series products cannot be used in conjunction with any other series of components.

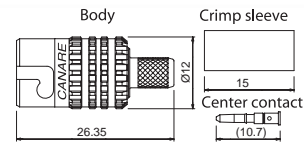
MID-SIZE VIDEO PATCH CABLE

Type	Model	Length(ft.)
Mini-video plug (male)-Mini-video patch plug (male) MVP-C4 LV-61S MVP-C4  Jacket colors: black, red, yellow, green, blue	MVPC001F	1
	MVPC002F	2
	MVPC003F	3
Mini-video plug (male)-BNC (male) MVP-C4 LV-61S BCP-C4B  Jacket colors: black, red, yellow, green, blue	MVPC006F-BP	6
	MVPC015F-BP	15

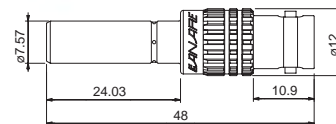
* Special Order



MVP -C4



MBCP-C3F



BCJ-MVP



BET-MBNC

APPLICATIONS

- Serial Digital Video (SDI)
- Analog Baseband Video
- HDTV Upgrades (DTV)
- Satellite Headends
- CATV Broadband
- SMPTE 276M/AES3 Digital Audio

Canare 75Ω Dual Video Jacks are designed for transmission ranges from NTSC baseband analog video to Serial Digital Video (HDTV) frequencies, not just in normal pass through mode, but at all four patch point insertion states.

KEY FEATURES

- DC-1.5GHz Digital Bandwidth
- Sealed Microswitch Contacts
- 30,000 Insertion Cycles
- Rear Mount/Front Screws
- Color Label ID
- Lifetime Warranty*

Canare Digital Video Jacks will perform to spec for years of trouble-free operation thanks to precision engineering, extremely tight manufacturing tolerances, technical “know-how” and consistent attention to every design detail.



LP-1 LOOPING PLUG

New 75Ω U-Link is the perfect way to quickly manually normal the input & output on our DVJ-S straight-through Digital Video Jack. You get 1.5GHz (≥ 20 dB Return Loss) impedance matched performance.

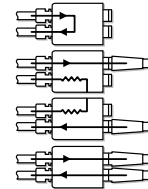


WE (WE.090”) gold plated center contacts. Can be conveniently used with all Canare 1RU, 2RU and 4RU Video Patchbay Panels.

LP-1 COLORS AVAILABLE									
BLK	BLU	BRN	GRY	GRN	ORN	PPL	RED	WHT	YEL

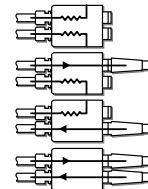
DVJ-W Normal Through

Signal routes between top and bottom BNC without the use of external looping plugs. Inserting a Canare VPC Video Patch Cord into either front WE port automatically terminates signal path into a 75Ω load. Our most popular DVJ model.

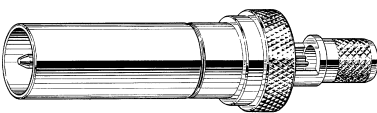


DVJ-S Straight Through

Two independent single jacks in a dual housing. Inserting a Canare VPC Video Patch Cord into either front WE port breaks the 75Ω termination for straight signal pass through. Very useful for bringing up auxiliary equipment to a designated central patchbay location.



75Ω WE VIDEO PATCH CRIMP PLUG



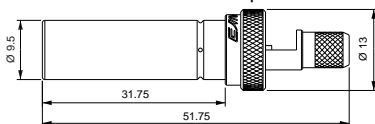
VWP-C4A

Cable:	LV-61S
Boot:	CB04
Crimp Die:	TCD-451C

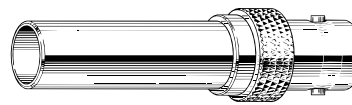


DC to 1.5GHz ≥ 20 dB Return Loss matches the electrical and mechanical performance of our DVJ-W and DVJ-S Digital Video Jacks.

WE (WE.090”) gold plated center contact is also compatible with older Canare VWJ2 series Video Jacks. Solder pin, Crimp Sleeve.



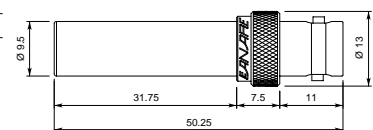
75Ω WE VIDEO PATCH PLUG TO BNC ADAPTER



BCJ-VWP

Contacts:	Beryllium Copper Gold Plating
Body:	Brass Nickel Plating
Dielectric:	PTFE

DC to 1.5GHz ≥ 20 dB Return Loss. WE (WE.090”) gold plated center contact pin. Video Patch to 75Ω BNC female jack. Use with any Canare BNC Broadcast Video Patch Cords.



*** LIFETIME WARRANTY STATEMENT**

Canare warrants that the DVJ-W and DVJ-S will be free from defects in materials and workmanship for as long as these products remain in use. Canare will replace, or repair, at its option, products which are proven to be defective. This warranty does not apply to any products that have been subject to misuse, improper storage, or incorrect installation or servicing. At Canare’s option, Canare may replace any defective product with the same or similar product. This warranty is void if the product Label has been tampered with or removed.

This warranty is in lieu of all other warranties, express or implied, including (but not limited to) any warranty of fitness for a particular purpose or warranty of merchantability. This warranty states the full extent of Canare’s liability resulting from any breach, and in no event shall Canare be liable for indirect, consequential or special damages (including, but not limited to, lost profits) sustained by any party as a result of a breach of this warranty.

APPLICATIONS

- DIGITAL VIDEO BROADCAST (SDI)
- ANALOG VIDEO (NTSC)
- SATELLITE HEADENDS
- HDTV SYSTEMS (DTV)
- OB VANS
- BROADBAND TELCOM

Serial Digital Video (SDI) production equipment operates at super high data bit rates. Every interconnect component in the modern post facility must be checked for 75Ω matched impedance and have sufficient headroom to pass HDTV signals in excess of 720MHz.

Canare 75Ω Digital Video Patchbays are designed for maximum reliability and will pass all Serial Digital Video signal formats with excellent Return Loss characteristics and very few signal reflections (VSWR).

KEY FEATURES

- 1RU, 2RU or 4RU Panels
- 20, 24 or 26 across loading
- Normal & Straight Dual Jacks
- 75Ω Self-Terminating
- Easy Front Mount Assembly
- Reduced Weight
- Extra Wide Designation Strips

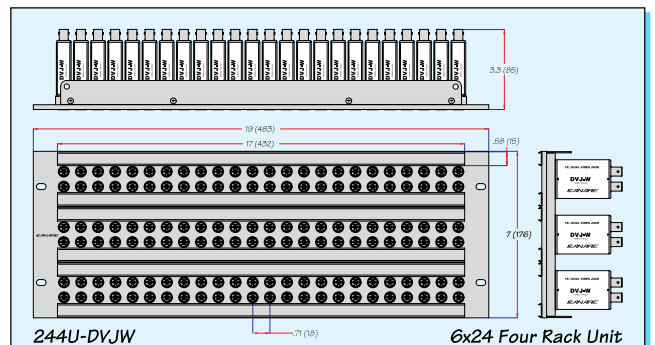
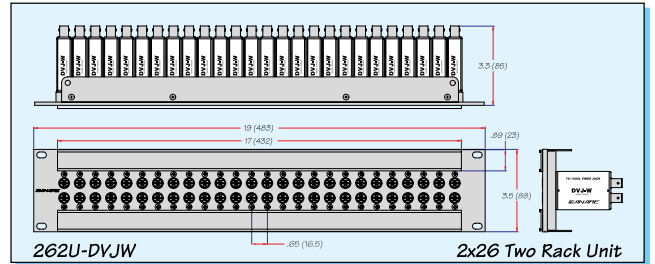
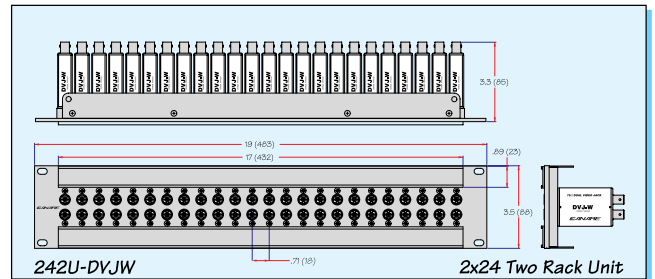
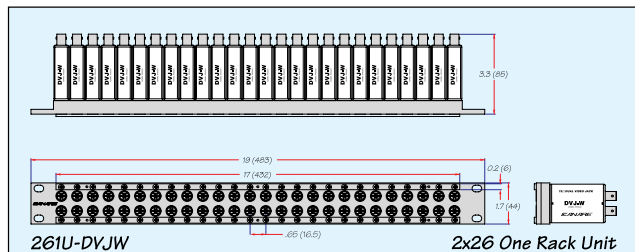
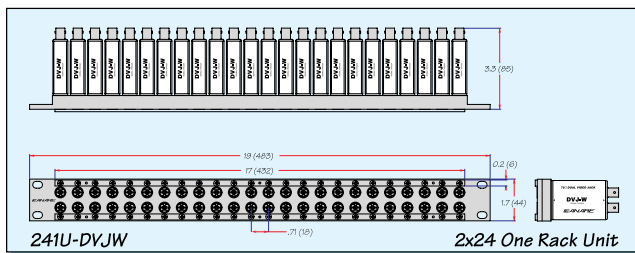
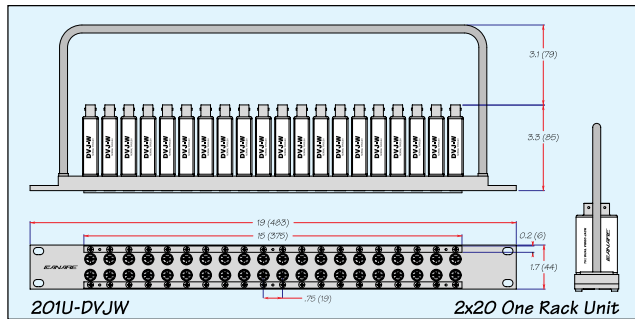
LOADED PATCH PANEL SPECIFICATIONS

Loaded Panel Model	Rack Panel Height	DVJ Circuit Type	Row Config	* Jack Model	DVJ Qty	Patch Points	Blank Panel
201U-DVJW	1RU	Normal	2 x 20	DVJ-W	20	40	VJ2-E20
241U-DVJW	1RU	Normal	2 x 24	DVJ-W	24	48	VJ2-L24-1U
261U-DVJW	1RU	Normal	2 x 26	DVJ-W	26	52	VJ2-L26-1U
242U-DVJW	2RU	Normal	2 x 24	DVJ-W	24	48	VJ2-L24-2U
262U-DVJW	2RU	Normal	2 x 26	DVJ-W	26	52	VJ2-L26-2U
244U-DVJW	4RU	Normal	6 x 24	DVJ-W	72	144	VJ2-E24-4U
264U-DVJW	4RU	Normal	6 x 26	DVJ-W	78	156	VJ2-E26-4U

* Canare 75Ω Digital Video Patchbays can be custom ordered with all DVJ-S jacks (ex: 261U-DVJS), partially loaded or with any specified Normal & Straight Jack combinations.

HIGH DENSITY 26 ACROSS PATCHBAYS

Choose our 2x26 one rack unit (1RU), 2x26 two rack unit (2RU) or our ultra high density 6x26 four rack unit (4RU) Jack Panels. Perfect choice for Master Control, Headends, Edit Suites, small Production Studios, OB Vans or anywhere rack space is at a premium.





HDTV-SDI CABLING MATERIAL SELECTION

Broadcast stations and postproduction studios in many countries around the world are currently being required to change their systems to handle high definition (HDTV) digital signals, in addition to SDTV digital signals. The SDTV-SDI transmission speed is 270Mbps, while the HDTV-SDI transmission speed is much higher at 1.485Gbps. The following explains the selection of cabling materials for such transition periods.

CABLING MATERIAL SELECTION

Both coaxial cables and fiber-optic cables are used for HDTV-SDI cabling.

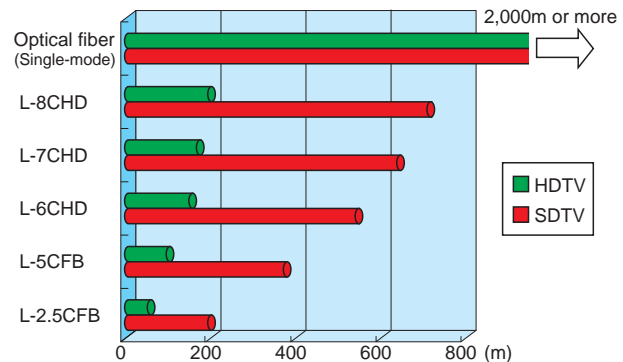
Coaxial cables are used for relatively short transmission distances, as shown in the table on the right. For example, L-2.5CFB is better suited to cabling inside an equipment rack, and L-5CFB is a more appropriate choice for cabling between racks. Likewise, Canare's specially developed L-8CHD (high-foam coaxial cable) is ideal for cabling between rooms.

On the other hand, as can be seen from the fact that fiber-optic cables are now widely used in the communications field, they are better suited for long-distance transmission. Because the cost of fiber-optic transmission equipment can be expected to continue to fall, fiber optics is expected to make further inroads into the short-distance transmission field in the near future.

HDTV-SDI Transmission Distance

Cabling Material		SDTV (270Mbps)	HDTV (1.485Gps)
Coaxial cable	L-2.5CFB	195	55
	L-5CFB	370	100
	L-6CHD	540	150
	L-7CHD	620	170
	L-8CHD	710	200
Optical fiber (single mode)		2,000 or more	

(Unit: m)



Technical Note

Characteristic Impedance

Imagine a coaxial cable that extends forever. The frequency impedance as registered on the sending-end of such a cable is referred to as "characteristic impedance." Real cables are fixed in length, allowing the characteristic impedance to be measured and the cables terminated by applying resistance of equal value. The end result is the configuration of a cable that seems limitless in length. (See Fig. 1)

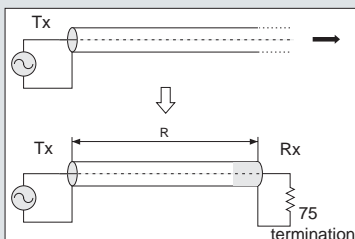


Fig. 1 Limited and Unlimited Length Coaxial Cables

Voltage Standing-Wave Ratio (VSWR) and Return Loss

Terminating the receiving end of a limited length coaxial cable using a resistance value not equal to its characteristic impedance creates a reflected wave that returns back down the cable to the sending end. The result is interference developing between the traveling wave and the return wave which results in a standing wave that causes voltage levels to fluctuate. The degree to which terminating resistance matches the characteristic impedance is indicated using the VSWR or voltage standing-wave ratio standard shown in Fig. 2. Going hand in hand with the VSWR ratio is the return loss factor which measures the size of the reflected wave current in relation to the traveling wave current. (See Fig. 3)

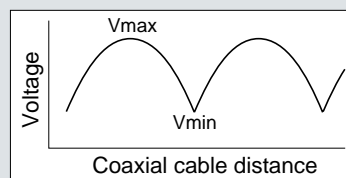


Fig. 2 Voltage Distribution Over Coaxial Cable

VSWR	Return Loss (dB)
2	9.5
1.5	14
1.2	20
1.1	26
1.05	32
1.02	40
1.01	46.1

Fig. 3 VSWR to Return Loss Conversion Table

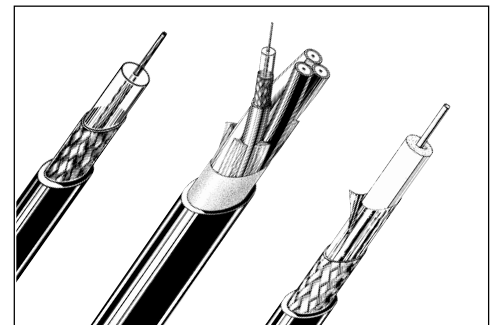
As shown in this table, the specifications of HDTV-SDI coaxial cable interfaces are specified by ARIB Standard BTA S-004B. Because the 75Ω type generally provides better electrical characteristics than the 50Ω type, both connectors and cables must be rated for 75Ω. If the HDTV-SDI transmission system uses a mixture of 50Ω connectors and 75Ω cables or 75Ω connectors and 50Ω cables, the impedance mismatch will significantly increase return loss, which in turn generates jitter, causing bit errors. Note that impedance ratings are not clearly indicated on some commercially available BNC connectors and coaxial cables. When using such commercial products for HDTV-SDI signal transmission path, be sure to always check to ensure that their nominal impedance is 75Ω before use.

Cabling Materials and Electrical Characteristics (HDTV-SDI coaxial cable interface) (ARIB standard)

Connector	75Ω BNC connector	
Cable	75Ω coaxial cable	
Electrical Characteristics	Transmission Loss	20dB or less (742.5MHz)
	Reflection	15dB or less (5MHz - 742.5MHz)
	Return Loss	10dB or less (742.5MHz - 1.485GHz)



Canare 75Ω BNC connectors



Canare 75Ω coaxial cables

Technical Note

Matched and Mismatched Connectors

The return loss is 26dB or less (VSWR=1.1) for frequencies up to 2 GHz in 75Ω coaxial cables using 75Ω BNC connectors. If 50Ω BNC connectors are attached to both ends of the same cable, the return loss takes on the characteristics shown in Fig. 4, below, when frequencies exceed 100MHz. This makes it incapable of transmitting signals with any accuracy.

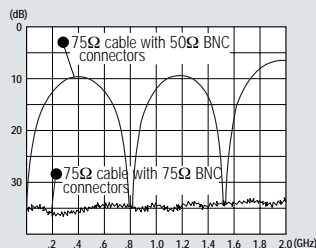


Fig. 4 Matched and Mismatched Impedances

Reasons for Wide Use of 75Ω Coaxial Cable

Calculation results for impedances and corresponding attenuation rates in coaxial cables are shown in Fig. 5 below. The levels of characteristic impedance requiring only minimal attenuation were 60Ω for lines with polyethylene insulation, 75Ω for foam PE (50%) insulation and 95Ω for air insulation. This is why 75Ω cable is used for longer distance transmissions.

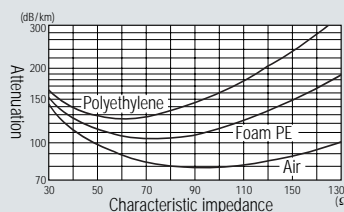


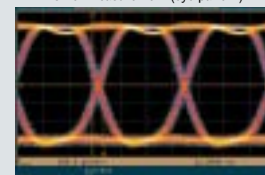
Fig. 5 Impedance Levels That Minimize Attenuation Conditions: Outer conductor; copper braid; insulation 0.0 5mm Inner conductor; solid copper; frequency 200MHz

Jitter

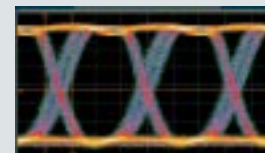
Digital signals are made up of stepped waveforms spaced at a fixed interval called the "timing sequence." Receivers must detect and monitor this timing in order to accurately read the signal. Shifts in the waveform—which must intrinsically maintain a fixed interval—can be introduced by such factors as irregular equipment conditions or overly long transmission lines, causing signal distortion. Such shifts in the timing axes of transmitted and received signal waveforms are referred to as 'jitter'. Increasing amounts of jitter distortion can lead to bit error, which may result in picture deterioration or horizontal noise interference.

One tool regularly used to measure jitter is the oscilloscope. Owing to its distinctive shape, the measured waveform is called an "eye pattern," with the jitter expressed by the width of the area where the rising and falling edges of the waveforms cross each other. This jitter value is specified by the ARIB (SMPTE) Standard shown in the accompanying table.

Jitter measurement (eye pattern)



a) Waveform jitter = 93ps



b) Waveform jitter = 210ps

SDTV	HDTV
≤740ps	≤135ps

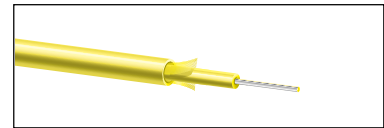
Specified jitter values (by the ARIB(SMPTE) Standard)

FIBER-OPTIC INTERFACE

As shown in the table below, HDTV-SDI fiber-optic interface specifications are covered by ARIB Standard BTA S-004B. Although the fiber-optic cable may have excellent characteristics in terms of signal transmission, it may be liable to the influence of tension or bends that exceed its permissible range, as well as to humidity or dust. In particular, care must be exercised during installation since tension is more apt to be applied to the interface. To ensure stable light signal transmission, be sure to handle the interface properly, and correctly clean the fiber-optic connectors.



(Canare fiber-optic cable with SC connector)

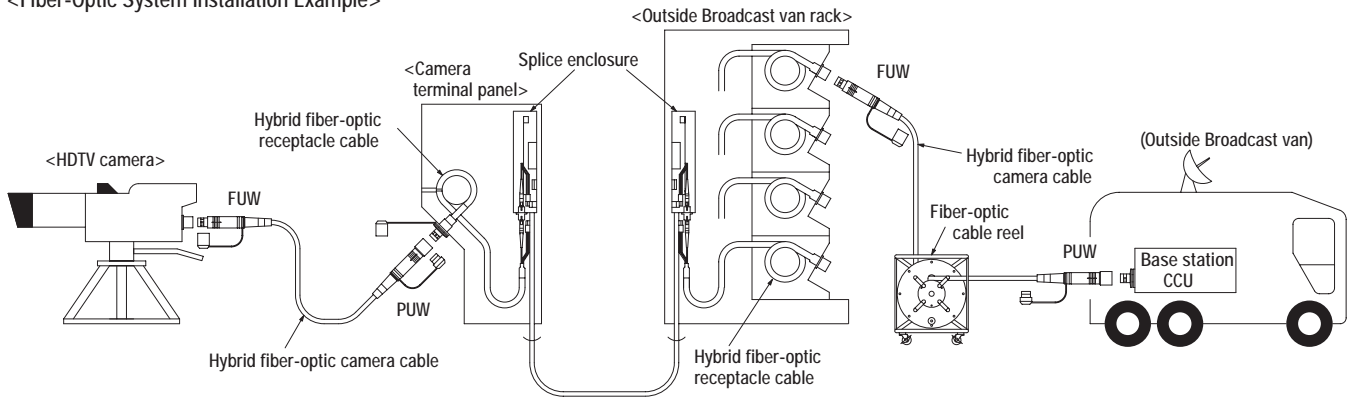


(Canare fiber-optic cord)

Optical Characteristics (HDTV-SDI Fiber-Optic Interface) (ARIB Standard)

Fiber-Optic Connector		SC conn
Optical Fiber		1.3um range zero-distribution single mode
Light Characteristics	Wavelength	1310nm+40nm
	Max. Spectacle Half-value Width	10nm
	Timing Jitter	Within 1UI (673ps)
	Alignment Jitter	Within 0.2UI (135ps)

<Fiber-Optic System Installation Example>



Technical Note

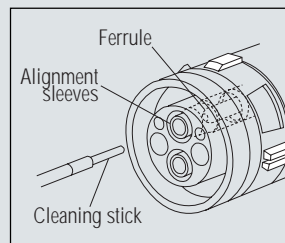
MAINTAINING FIBER-OPTIC HYBRID CONNECTORS

The connector sections to be cleaned are the key parts, including the tips and sides of ferrules, the interior walls of alignment sleeves and the interior and exterior of connector shells. Note that scratches and particles of foreign matter on the tip of the ferrule can have a disabling effect on fiber-optic transmission. The following procedures should be used when cleaning fiber-optic connectors.

- For the Plugs (FUW), the interior surfaces of alignment sleeves and the tips of ferrules are to be cleaned with the non-alcohol treated cleaning stick using a gentle stroking action. The slender design of the cleaning stick enables alignment sleeves to be cleaned without having to detach them.
- For the Jack (PUW), it is important to clean both the tips and sides of the completely protruding ferrules with the cleaning stick.
- Both the male and female connector shells tend to attract dust and metal particles, so it is important to clean both the insides and outsides using cotton gauze or similar material.

*Contact Canare for information on the recommended cleaning stick.

*The alignment sleeve (split sleeve) keeps the ferrules in exact alignment with each other.

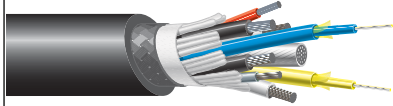


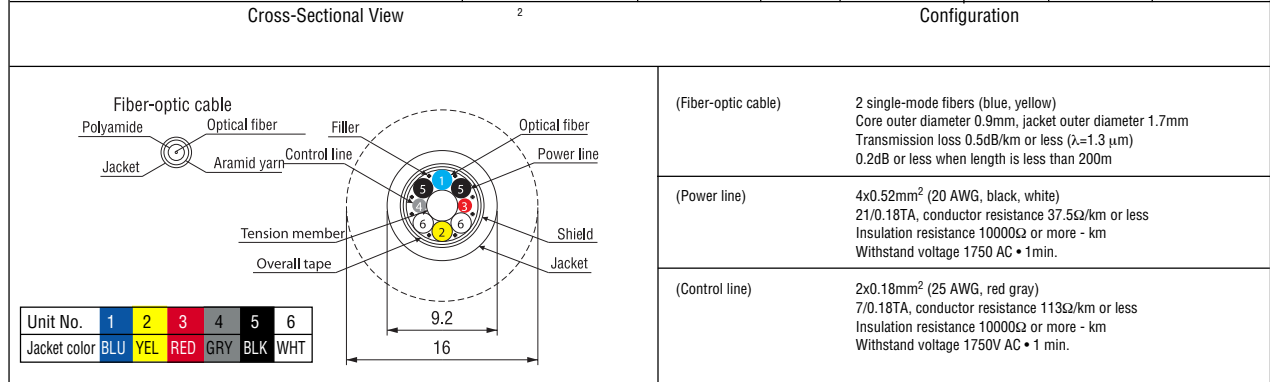
Before cleaning



After cleaning



Type	Model	Nom.O.D	Weight	Overall shield coverage	Tension tolerance	Bend radius tolerance	Temperature range
		mm	kg/100m	%	N		
 <p>LF-2SM9R Jacket color for LF-2SM9R, LF-2SM9, LF-2SM16: black</p>	LF-2SM9R	9.2	11.0	91.8	700 (71kgf)	Over 6 times cable outer diameter	-40°C~+70°C
	LF-2SM9						
	LF-2SM16	16.0	28.0				



• Other colors are also available on a custom-made basis. Please contact your Canare salesperson.

* Special order

LF-2SM9R

- Cable designed for studio and broadcast applications.
- Polyurethane jacket provides tear resistant characteristics.
- Elastomer used in the sheath construction ensures superb mechanical strength.

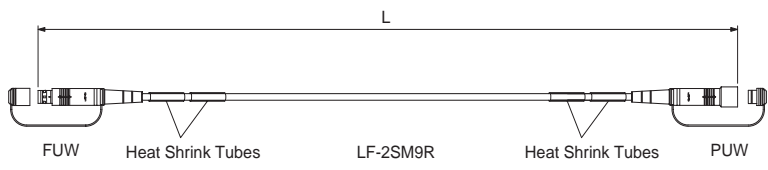

LF-2SM16

- Cable designed for studio applications
- Polyvinylchloride and polyurethane composite material used for the jacket.
- 16mm outer diameter double jacket configuration on the cable is designed to prevent cable from catching on skirt of camera pedestals.

LF-2SM9

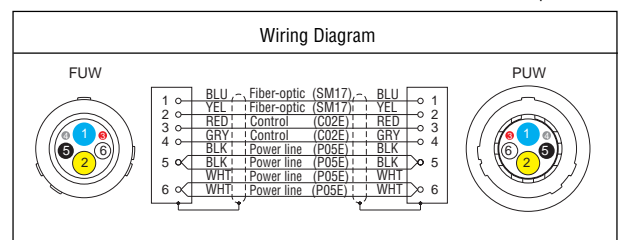
- Cable designed for fixed installations.
- PVC jacket provides quiet movement.

FUW - PUW (black)

Type	Model	Length (m)
	FCC10	10
	FCC20	20
	FCC30	30
	FCC50	50
	FCC100	100
	FCC150	150
	FCC200	200
	FCC50-WJ	50
	FCC100-WJ	100

* Special order

- Stainless steel connectors
- ARIB BTA standard S-1005B and SMPTE standard 304M compliant.
- Stainless steel tension member prevents kinks.

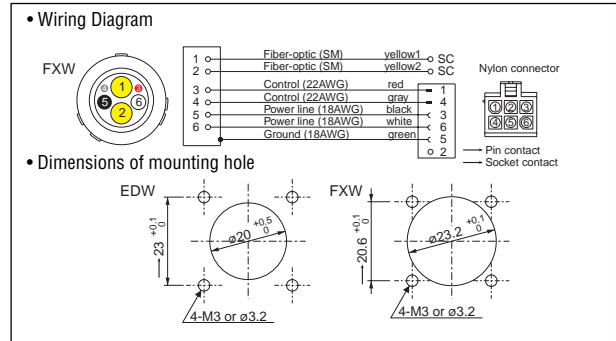


HYBRID FIBER-OPTIC RECEPTACLE CABLE

Type	Model	Length (m)
<p>EDW</p>	FCS03-EDW	3
<p>FXW</p>	FCS03-FXW	3

*Special Order

- In camera and patch panel hybrid fiber optic cable.
- SC connectors come with BellCore boots.
- Single-mode fiber-optic cables.



FIBER-OPTIC SINGLE MODE ASSEMBLIES

- SC-SC

Type	Model	Length (m)
<p>SC</p>	FS3C02-S	2
	FS3C03-S	3
	FS3C05-S	5

- SC connectors come with BellCore boots.
- Single-mode fiber-optic cables.

*Special Order

Precautions For Use

⚠ Caution: Points to Note For Working With Optical Fibers

- **Avoid Looking Directly into Light Sources (Laser diodes and LEDs)**
Extremely powerful light sources are sometimes used in fiber-optic devices and optical measuring equipment. Wavelengths invisible to the naked eye are used in fiber-optic transmissions, so it is important never to look into the optical light source. Doing so can permanently damage the eyes.
- **Fiber Cutting Fragments Can Be Dangerous.**
The ends of the fiber optic filament are very slender and sharp and can pierce the body. It is important to take special care in cleaning up any cuttings from optical fiber generated during installation and termination operations.

⚠ Caution: Working with Hybrid Fiber-Optic Camera Cables

- Make sure not to kink, exceed the bend radius (6 x cable diameter) and tension (700N:71 kgf) tolerance of the cable. Although only momentary, negative effects can result.
- Make sure to rotate the reel and drum at reasonable speed when unwinding the cable in order to prevent cable kinking. And take care to use the tension member in order to prevent excessive tension being applied to the fiber-optic cable.
- Be careful to avoid applying tension once cable is installed.
- Fiber-optic cable is sensitive to humidity, so be sure to seal cable ends using cable caps during storage.
- When not in use, cables should be wound onto proper cable reels or stacked in figure 8 configurations.

HYBRID FIBER-OPTIC SPLICE ENCLOSURE

Mode	Mo. of cables	Fusion splice tray No.	Adapter	
			SC	Nylon connector
FCE-2	2	1	4	2
FCE-4	4	2	8	4
FCE-6	6	3	12	6

*Special Order

- Designed for the hybrid fiber-optic camera cable (LF-2SM9)
- The enclosure can be installed on walls or placed flat.
- The tension member is installed from the chassis.

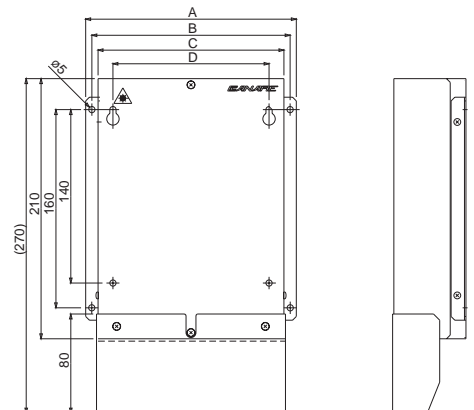
Note: The following special tools are required for installing the nylon connectors.
Models: AMP90758-1 (26 to 22 AWG) and AMP90760-1 (18 to 20 AWG)



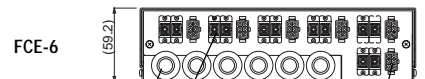
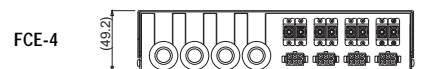
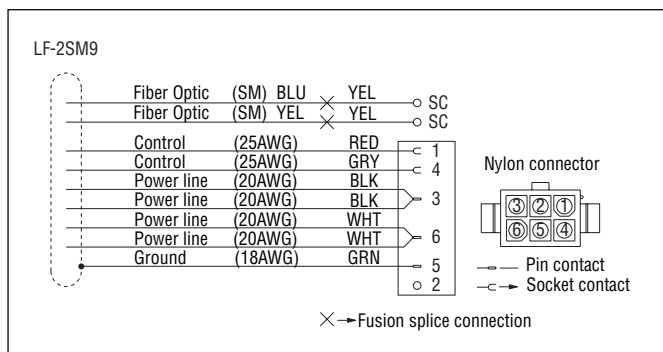
Above parts are for FCE-2.

Type	FCE-2	FCE-4 FDC-6
A	170	240
B	160	230
C	150	220
D	126	196

(mm)



• **Wiring Diagram (Canare standard)**



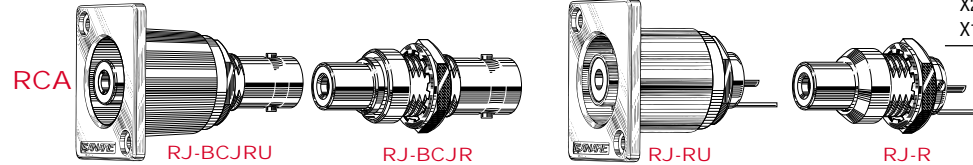
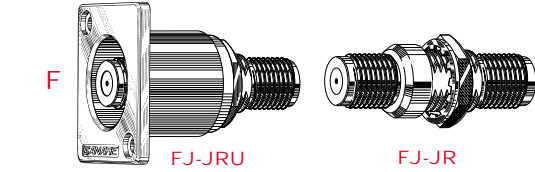
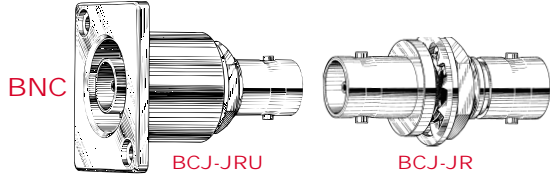
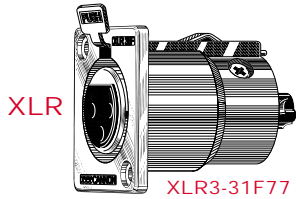
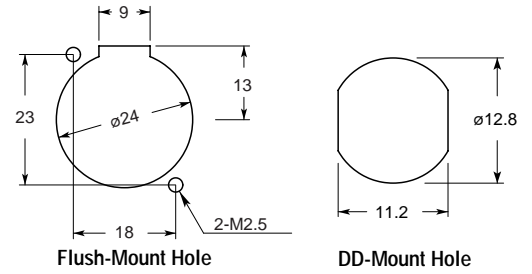
Cable insert hole
SC adapter
Nylon connector

APPLICATIONS

- HEADENDS
- MULTIMEDIA EDIT SUITES
- MASTER CONTROL ROOMS
- SATELLITE
- TELCOM
- BROADBAND

FEATURES

- Isolated BNC, RCA, F, XLR on Same Panel
- Flush Mount or Standoff style Connectors
- Strong 16 gauge Cold Rolled Steel (1.62mm) Panel
- Top & Bottom Panel Reinforcement Folds
- Matte Black Powder Coat Panel Finish
- Tapped Screw Holes for Connector Mounts
- Clear Plastic Desi-Strips & Channel ID Numbers



Model Selection Guide

16 1U - BJRU

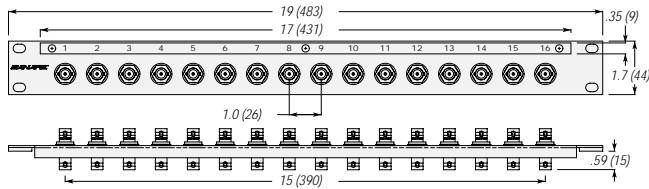
Connector Qty
16, 32

Panel Height
1U = 1 Rack Unit;
19" x 1.7"
2U = 2 Rack Unit;
19" x 3.5"

Connector Model	Type	(Panel Style)
BJR = BCJ-JR	75Ω BNC-BNC	(Iso Standoff)
BJRU = BCJ-JRU	75Ω BNC-BNC	(Flush Mount)
FJR = FJ-JR	75Ω F-F	(Iso Standoff)
FJRU = FJ-JRU	75Ω F-F	(Flush Mount)
RJS = RJ-R	75Ω RCA-Solder	(Iso Standoff)
RJBR = RJ-BCJR	75Ω RCA-BNC	(Iso Standoff)
RJSU = RJ-RU	75Ω RCA-Solder	(Flush Mount)
RJRU = RJ-BCJRU	75Ω RCA-BNC	(Flush Mount)
X1F = XLR3-31F77	Female XLR-Solder	(Flush Mount)
X2F = XLR3-32F77	Male XLR-Solder	(Flush Mount)
X12F = XLR3-31/32F77	M&F XLR-Solder	(Flush Mount)

Custom Iso Bushing Colors: BLK, BLU, GRN, RED, YEL

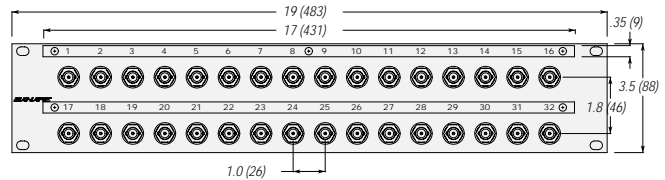
BNC • STANDOFF



161U-BJR

16ea 75Ω BNC-BNC Barrel Jacks

Iso Bushing: WHT

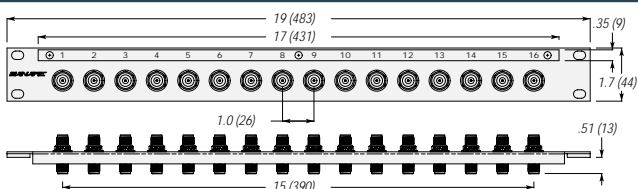


322U-BJR

32ea 75Ω BNC-BNC Barrel Jacks

Iso Bushing: WHT

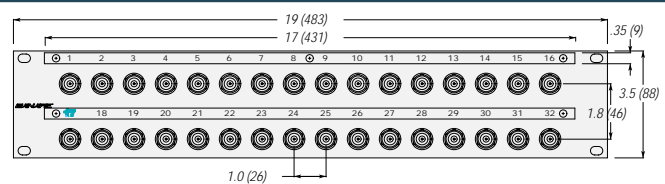
F • STANDOFF



161U-FJR

16ea 75Ω F-F Barrel Jacks

Iso Bushing: WHT

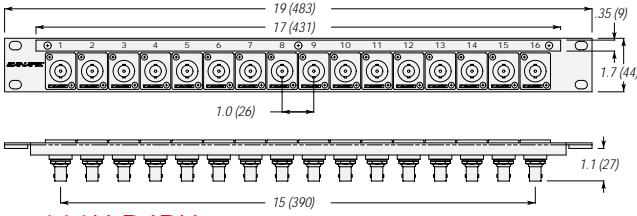


322U-FJR

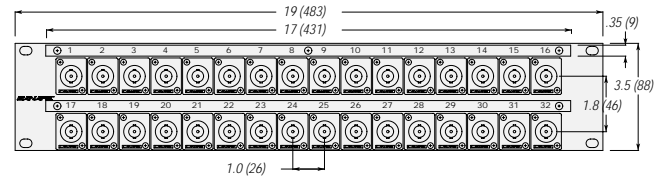
32ea 75Ω F-F Barrel Jacks

Iso Bushing: WHT

BNC • FLUSH MOUNT

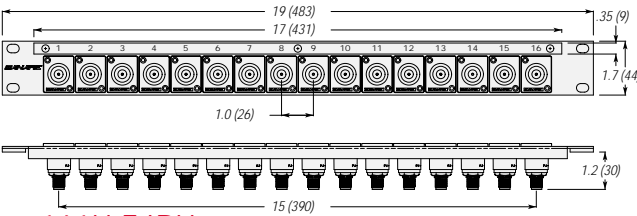


161U-BJRU
16ea 75Ω BNC-BNC Jacks

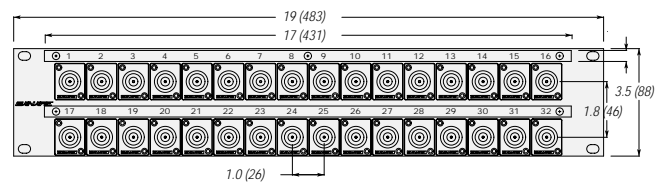


322U-BJRU
32ea 75Ω BNC-BNC Jacks

F • FLUSH MOUNT

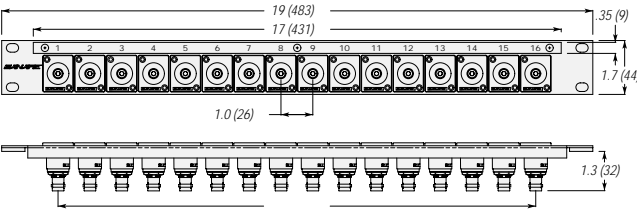


161U-FJRU
16ea 75Ω F-F Jacks

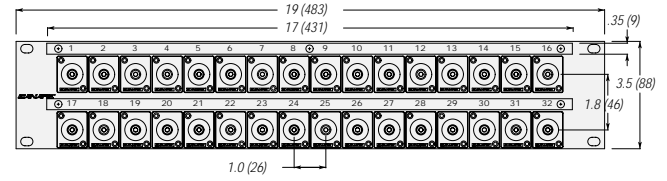


322U-FJRU
32ea 75Ω F-F Jacks

RCA • FLUSH MOUNT

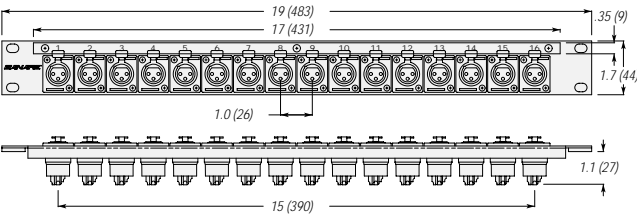


161U-RJRU
16ea 75Ω Type RCA-BNC Jacks
Insulator Colors: Red, Green, Blue, Yellow, White

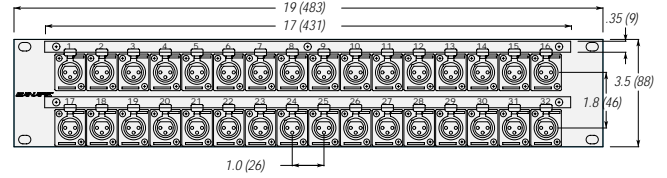


322U-RJRU
32ea 75Ω Type RCA-BNC Jacks
Insulator Colors: Red, Green, Blue, Yellow, White

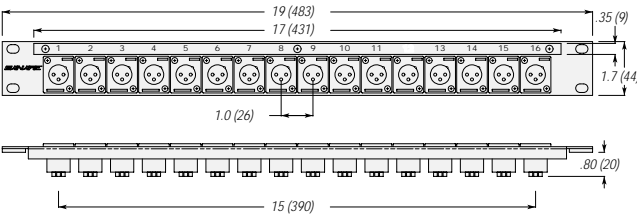
XLR • FLUSH MOUNT



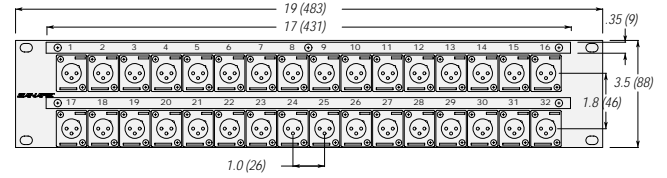
161U-X1F
16ea XLR3 Female-Solder Jacks



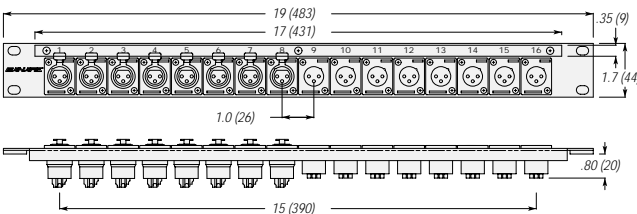
322U-X1F
32ea XLR3 Female-Solder Jacks



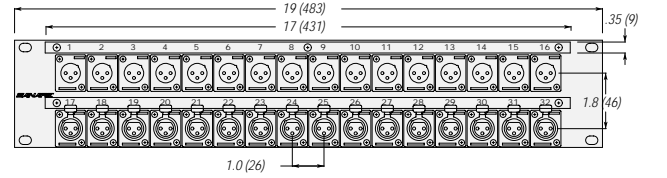
161U-X2F
16ea XLR3 Male-Solder Jacks



322U-X2F
32ea XLR3 Male-Solder Jacks



161U-X12F
8ea XLR3 Male & Female-Solder Jacks



322U-X12F
16ea XLR3 Male & Female-Solder Jacks

APPLICATIONS

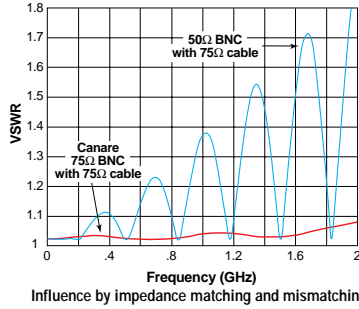
- SMPTE 259M & 292M COMPLIANT
- SERIAL DIGITAL VIDEO (SDI)
- HDTV UPGRADES (DTV)
- NTSC ANALOG
- TEST EQUIPMENT
- SATELLITE HEADENDS
- TELCOM

Features

- True 75Ω construction; Crimp Pin & Sleeve
- DC to 2 GHz; ≥26 dB Return Loss (≤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 ≥26dB (VSWR ≤1.1) DC to 2GHz.



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

Note:
We conveniently package our BNC crimp plugs in a special 100pc Egg-Carton style box. The Crimp Pins and Sleeves are supplied in 100pc Bulk Bags for quick and easy setup and assembly.

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.

Characteristics of alloys

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

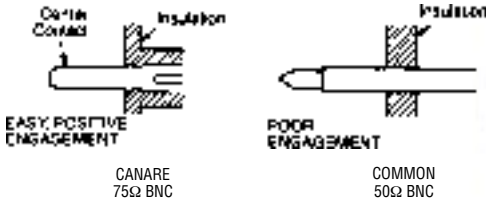
Beryllium Copper outer contact is extremely resilient to constant flexing.

Exclusive **Elongated Body** design allows better finger grip action. Special Nickel Plated Bell Brass remains brilliant even after many years of field service. Canare 75Ω BNC connectors will mechanically mate with all 50Ω type BNC connectors.

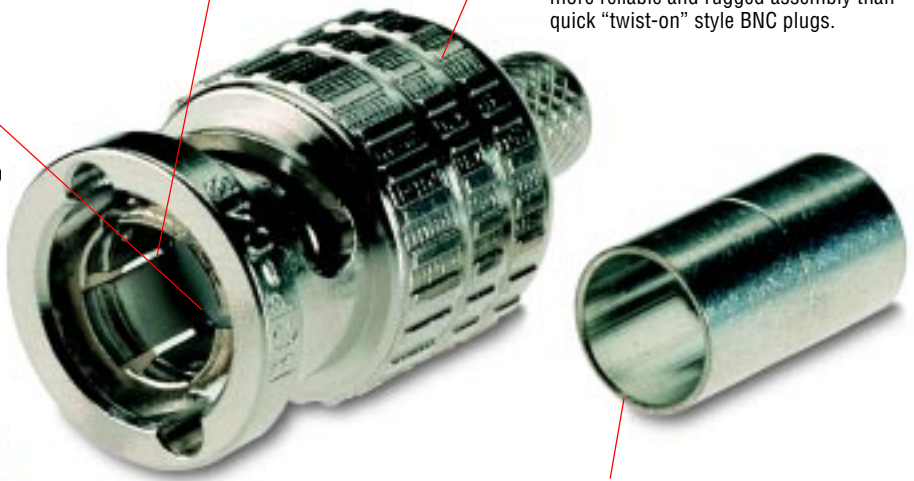
Canare Dual Crimp BNC connectors are a more reliable and rugged assembly than quick "twist-on" style BNC plugs.

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.



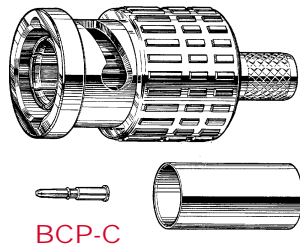
Our longer Sleeves offer a wider crimping surface area for improved cable pull strength.



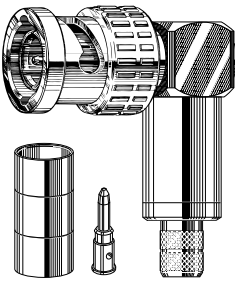
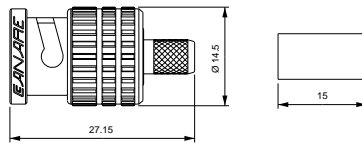
The connector on the left is a commonly used 50Ω BNC. Notice that the dielectric (white ring) is visible at the top of the outer contact. The Canare plug on the right is a true 75Ω BNC connector. Its dielectric material is recessed... Your visual assurance that there will be proper 75Ω impedance matching 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.

Features

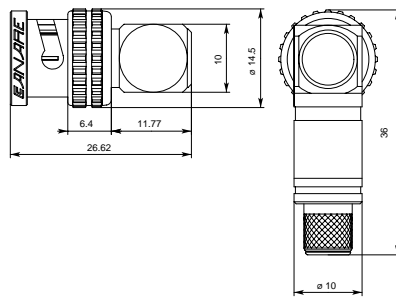
- True 75Ω construction; Crimp Pin & Sleeve
- DC to 2 GHz; ≥26 dB Return Loss (≤1.1 VSWR)
- Mechanically mates with common 50Ω BNC
- Elongated Body for better finger grip
- Superior cable pull strength
- Gold Plated Contact Pin 'Snap Locks' into place
- Beryllium Copper Outer Contact
- Easy Assembly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



BCP-C



BCP-LC



MODEL	PINS	SLEEVES
BCP-C1	(SOLDER)	BN7022
BCP-C25F	BN1051	BN7029C
BCP-C3B	B11014D	BN7003A
BCP-C3F	B11015D	BN7003A
BCP-LC3F	B11015D	BN7003A
BCP-C32	B11016D	BN7026
BCP-C4B	B11015D	BN7015A
BCP-C4F	B11016D	BN7015A
BCP-C41	B11016D	BN7016
BCP-C5B	B11016D	BN7016
BCP-C51	B11016D	BN7002
BCP-C53A	B11020C	BN7046
BCP-C55A	B11020C	BN7045
BCP-C5FA	B11020C	B75004A
BCP-LC5F	B11020C	B75004A
BCP-C77A	B11016D	B75004A
BCP-C7FA	BN1012A	BN7021A
BCP-C71A	BN1043	BN7021A

75Ω BNC CRIMP PLUG NOMINAL SPECIFICATIONS											
Type 3 piece Assembly	Imp	Bandwidth VSWR Return Loss DC to 2GHz	Body Material Plating	Center Contact Material Plating	Dielectric	Crimp Sleeve Material Plating	Cable Retention lbs. (kgs)	Insulation resistance at 500V DC	Voltage rating for 1 minute	Center contact resistance	Outer contact resistance
Body Crimp Pin Crimp Sleeve	75Ω	≤1.1 ≥26 dB	Brass Nickel	Brass Gold	PTFE	Copper Tin	> 55 > 24.9	> 1000MΩ	1500V AC(rms)	< 6mΩ	< 3mΩ

CANARE 75Ω BNC CRIMP PLUGS CABLE / CONNECTOR / TOOLING X-REFERENCE CHART

CANARE CABLE												CABLE / CONNECTOR / TOOLING X-REFERENCE CHART								
BCP-C1	BCP-C25F	BCP-C3B	BCP-C3F	BCP-C32	BCP-C4B	BCP-C4F	BCP-C41	BCP-C5B	BCP-C51	BCP-C53A	BCP-C55A	BCP-C5FA	BCP-C5FA	BCP-C77A	BCP-C7FA	BCP-C71A				
L-1.5C2VS V-1.5C	L-2.5CFB	A2V1 A2V2-L V-3C	L-3C2VS	V-3CFB A3V1-FB A3V2-FB	L-3CFB		LV-61S	V-4CFB	L-4CFB		V-5C			L-5CFB V-5CFB	LV-77S	L-7CFB				
BELDEN																				
83264 83267	1855A						1506A 1824A 1825A 1826A	8241 8279 (RC59B/U)		1505A 8241F 8212 9167 9259 9659			8281 88281 728A 8281B	1694A 9066 89120 633948 9116P	1695A 87120 89120 9116P	9290 1189A	8281F		9011 9064 9292 87292 89292 1617A 7731A	
COMMSCOPE																				
	7538 753605						2037V 2041K 2065V			2000 5553 5565 5572 556510	S59HEC2		7501 7506	2227K/V 2229V 5729 2277V F690BHV	2275V 2276V 2277V 2279V	5731			5906 5940 2285K 5914 F115SVV	
COAX CABLE STRIPPERS	N/A	TS100E	TS100E TS-V3C	TS100E TS-3C	TS100E TS-V3C	TS100E TS-3C	TS100E TS-3C	TS100E TS-3C	TS100E TS-4C	TS100E TS-3C	TS100E TS-4C	TS100E	TS100E TS-4C	TS100E TS-5C	TS100E	TS100E TS-5C	TS100E TS-5C	TS100E	TS100E	
TOOL	TC-1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
DIE SETS	TCD-1DB	●																		
	TCD-3C		●	●	●	●	●	●												
	TCD-35CA		●	●	●	●	●	●						●	●					
	TCD-4C								●	●	●									
	TCD-451CA								●	●	●			●						
	TCD-5CF															●	●			
	TCD-7CA																	●	●	

● Alternate Die Set.
Note: All Stripper Models are Pre-Set for Canare 75Ω BNC Crimp Plug Dimensions

BCP-TA FEATURES

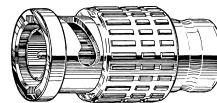
DC to 2 GHz; ≥26 dB Return Loss (≤1.1 VSWR)

75Ω Metal Film Resistor (± 1%, 1/4 Watt @°100ppm)

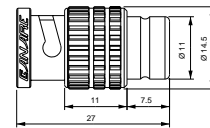
Gold Plated Center Pin; Beryllium Copper Outer Contact

Specially Designed for all Digital Video Equipment

Elongated Body Design



BCP-TA

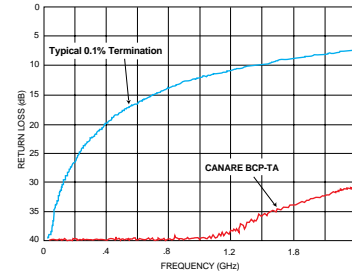


All 75Ω signals, once entered into a termination, must be fully converted into energy. If the impedance matching is not perfect, part of this energy will be reflected and poor Return Loss (VSWR) will result, especially at higher operating frequencies (i.e. computer graphics, digital video, etc.).

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

Canare's precision 75Ω BCP-TA, 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 75Ω termination with the same VSWR performance found in test lab precision terminators which cost hundreds of dollars.



Return Loss Comparison Chart

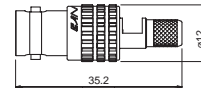
75Ω BNC PLUG FEMALE CONNECTOR

75Ω BNC FEMALE PLUG			
Model	Matching Cable	Boot	Die
BCJ-C4	RG-59 B/U, LV-61S	CB25	TCD-4CA, TCD-451CA

- 1.1 or less VSWR up to 1.5 GHz, or less up to 2 GHz
- Beryllium copper (gold plated) is used on the center contact for its superior spring characteristics. (Center contact is soldered)



BCJ-C4



BCJ-C4

ISOLATION BUSHINGS

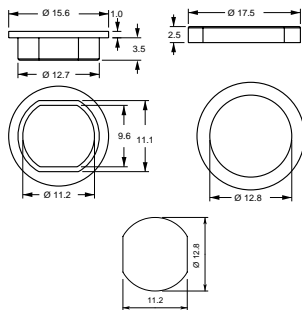
IU-7/16

2 Piece Expandable Isolation Bushing

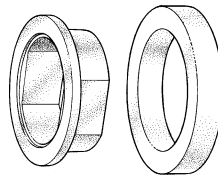
Colors: **Blk, Blu, Grn, Red, Wht, Yel**

High compression, ABS plastic

Accommodates 1.2mm ~ 3mm thick panels



IU-7/16 Panel Mount Hole Dimensions



75Ω BNC PC MOUNT RECEPTACLES

APPLICATIONS

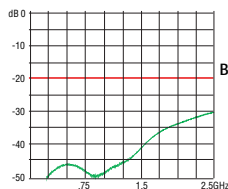
- OEM'S
- HDTV EQUIPMENT
- TELCO BROADBAND
- NTSC ANALOG VIDEO
- SATELLITE HEADEND

FEATURES

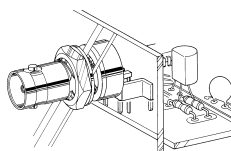
≥26 dB Return Loss; DC to 1GHz (≤VSWR 1.1)

Securely mounts to PCB with Chassis Support

Gold Plated Beryllium Copper center contact



BCP-BPLH Return Loss



For complete model listings & detailed product specifications, request Canare's

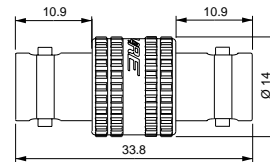
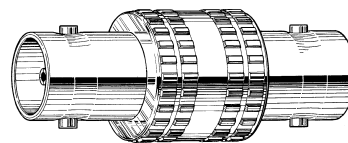
"OEM Parts Catalog"

75Ω BNC BARREL

BCJ-J

75Ω BNC in-line cable extension adapter
Jack to Jack

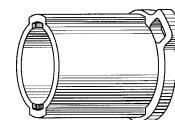
DC to 2 GHz; ≥26 dB Return Loss (≤1.1 VSWR)



BNC DUST CAP

BCJ-DC

Protects all unused BNC Bulkhead Receptacles from dirt and dust



BCJ-JRU

75Ω BNC RECESSED Bulkhead
 Jack to Jack
 Mounts in Common Canare Hole Punch
 Totally Isolated from Panel
 ≤1.1 VSWR DC-2GHz

BCJ-RU

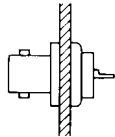
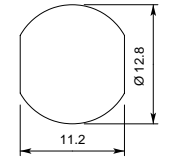
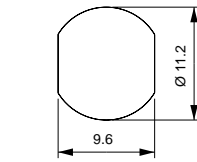
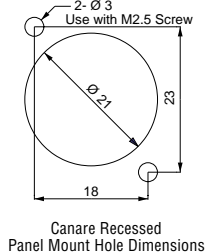
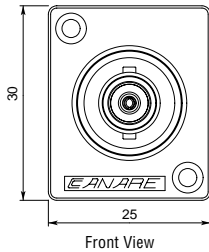
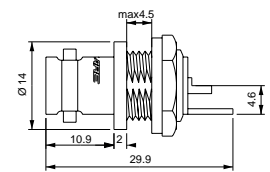
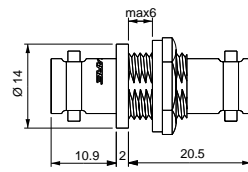
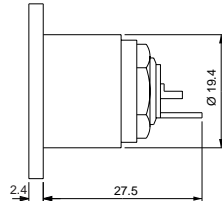
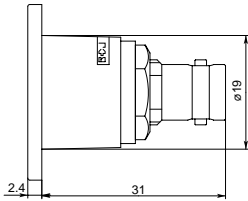
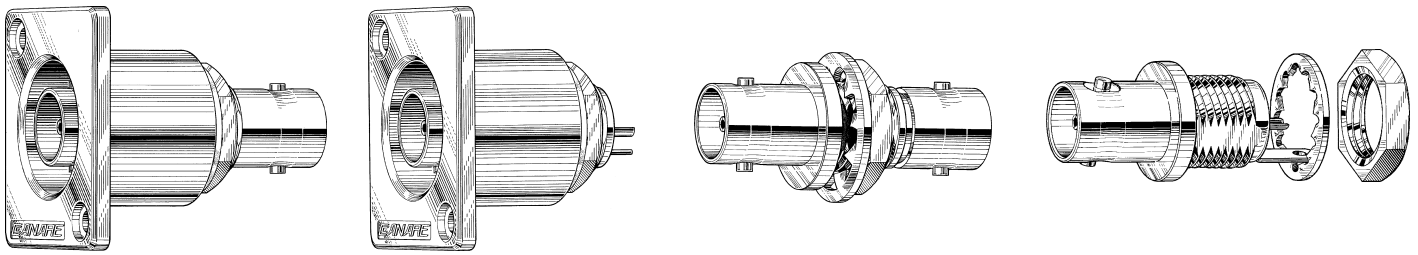
75Ω BNC RECESSED Bulkhead
 Jack to Solder Pin
 Mounts in Common Canare Hole Punch
 Totally Isolated from Panel
 ≤1.1 VSWR DC-2GHz

BCJ-JR

75Ω BNC Bulkhead
 Jack to Jack
 Use with Isolation Bushing IU-7/16
 Double D Hole Punch
 ≤1.1 VSWR DC-2GHz

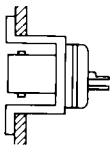
BCJ-R/1

75Ω BNC Bulkhead
 Jack to Solder Pin
 Use with Isolation Bushing IU-7/16
 Double D Hole Punch
 ≤1.1 VSWR DC-2GHz

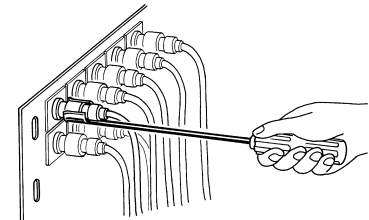


Because ordinary panel mount BNC bulkhead connectors are often precariously exposed on a wall plate located in high traffic areas, they offer little protection from physical damage.

To solve this problem, Canare developed a unique recessed **flush mount** panel jack design that effectively protects the housed connector.



Our BCJ-JRU and BCJ-RU BNC jacks have a **built in panel isolation bushing**, so they may safely reside on the panel alongside any audio, power, data or intercom lines without electrical crosstalk or grounding problems. Also available in recessed 75Ω F and RCA jack versions.



Canare now offers a high quality removal tool (BET-12) that can be used to insert & extract all Canare BNC crimp plugs from our recessed or standoff BNC receptacles and DVJ digital video jacks.

Note: any generic 50Ω BNC plug will mechanically mate with Canare 75Ω BNC fittings.



BCJ-JRU



BCJ-RU



BCJ-JR



BCJ-R/1

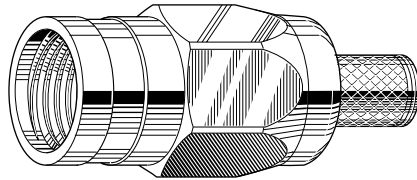
75Ω BNC JACK NOMINAL SPECIFICATIONS								
Bandwidth VSWR Return Loss DC to 2GHz	Center Contact Material Plating	Body Material Plating	Dielectric	Flange Material Plating	Insulation resistance at 500V DC	Voltage rating for 1 minute	Center contact resistance	Outer contact resistance
≤ 1.1 > 26dB	Beryllium Copper Gold	Brass Nickel	PTFE	DieCast AL Nickel	> 1000MΩ	1500V AC(rms)	< 6mΩ	< 3mΩ

APPLICATIONS

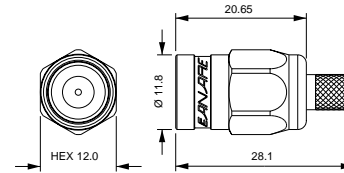
- DIGITAL BROADBAND
- SATELLITE SYSTEMS
- RF EQUIPMENT
- CABLE MODEMS
- HEADENDS

FEATURES

- ≥26dB Return Loss DC–2GHz (≤1.1 VSWR)
- Crimp Pin & Sleeve Design
- Use with Solid or Stranded Center 75Ω Coax
- Center Pin Snap Locks into Connector
- Superior cable pull strength



FP-C



F MODEL	PINS	SLEEVES
FP-C3	BN1002A	BN7003A
FP-C3F	BN1003A	BN7003A
FP-C4	BN1003A	BN7015A
FP-C4F	BN1004A	BN7015A
FP-C5	BN1004A	BN7016
FP-C51	BN1004A	BN7002
FP-C53A	BN1005A	BN7046
FP-C55A	BN1005A	BN7045
FP-C5F	BN1005A	B75004A
FP-C7FA	BN1030	BN7021A
FP-C71A	BN1041	BN7021A

Type	Imp (Ω)	Bandwidth VSWR Return Loss	Body Material Plating	Center Contact Material Plating	Dielectric	Crimp Sleeve Material Plating	Cable Retention lbs. (kgs)	Insulation resistance at 500V DC	Voltage rating for 1 minute	Center contact resistance	Outer contact resistance
Dual Crimp Pin & Sleeve	75	DC to 2GHz ≤ 1.1 > 26 dB	Brass Nickel	Brass Gold	PTFE	Copper Tin	> 55 > 24.9	> 500MΩ	500V AC(rms)	< 5mΩ	< 5mΩ



Most F connectors on the market utilize a coaxial cable's solid inner conductor as the plug's center contact pin. This design can cause near and long term problems from center conductor nicks, bending, dielectric migration, metal fatigue and contact corrosion. Furthermore, this type of commonly installed F connector may also produce signal degradation, outages, poor picture quality, RF leakage problems and most importantly... *an expensive service call.*

To meet the growing demands of advanced Digital Broadband equipment, Canare has developed the world's first precision, highly reliable 75Ω F Connector. Electromechanically stable (nickel over brass body, high quality tapped threads, extra wide torque nut, gold crimp pin, extra long crimp sleeve), our FP-C is quick to install using the same Canare strip & crimp tools as our standard 75Ω BNC and RCA plugs.

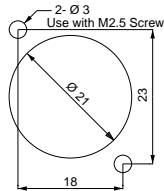
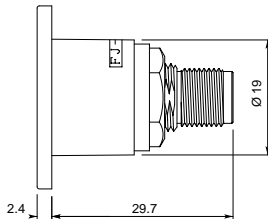
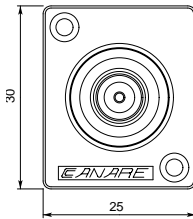
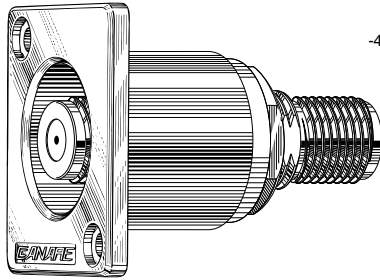
Canare true 75Ω F Connectors are impedance matched with excellent Return Loss characteristics and can easily handle future "Smart House" RF broadband multimedia networks to 1 GHz and beyond. Will mate with SCTE approved standard F receptacles.

75Ω F Crimp Plugs												CABLE / CONNECTOR / TOOLING X-Reference Chart													
		FP-C3	FP-C3F	FP-C4	FP-C4F	FP-C5	FP-C51	FP-C53A	FP-C55A	FP-C5F	FP-C7FA	FP-C71A													
CANARE CABLE																									
		A2V1 A2V2-L V-3C	L-3C2VS	L-3CFB	A3V1-FB A3V2-FB V-3CFB	LV-61S	L-4CFB	V-4CFB	V-5C					L-5CFB V-5CFB	L-7CFB										
BELDEN																									
						8241 8279 88241	1505A 8241F 8212 9167 9259 9659	1506A			8281 88281 728A 8281B	1694A 9066 9114 89120 9116 9118 9248	1695A 87120 89120 633948 9116P	9290 1189A							1617A 7731A 9111 9064 9291 87232 89232				
COMMSCOPE																									
							2000 5553 5565 5572 556510	2065V		7501 7506	2227K/V 2225V 5729 5765 F690BVV	2275V 2276V 2277V 2279V	5731								5906 5940 2285K 5914 F1155VV				
COAX CABLE STRIPPERS		TS100E TS-V3C	TS100E TS-3C	TS100E TS-3C	TS100E TS-V3C	TS100E TS-4C	TS100E TS-4C	TS100E TS-3C	TS100E TS-4C	TS100E TS-5C	TS100E TS-31C	TS100E TS-5C	TS100E TS-5C	TS100E TS-5C	TS100E TS-5C	TS100E	TS100E	TS100E	TS100E	TS100E	TS100E				
TOOL		TC-1	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○				
DIE SETS		TCD-3C	●	●	●	●																			
		TCD-35CA	●	●	●					●			●												
		TCD-4C				●	●	●																	
		TCD-451CA								●															
		TCD-5CF														●									
		TCD-7CA															●				●				

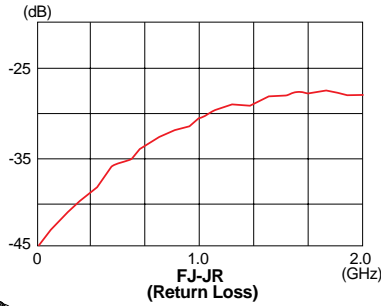
● Alternate Die Set.
Note: All Stripper Models are Pre-Set for Canare 75Ω F Crimp Plug Dimensions

FJ-JRU

75Ω F RECESSED Bulkhead Port
 Jack (Female) to Jack (Female)
 Mounts in Common Canare Hole Punch
 Totally Isolated from Panel
 ≥26dB (≤1.1 VSWR) DC-2GHz

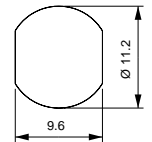
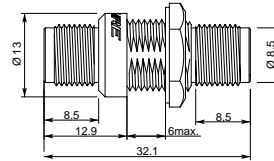
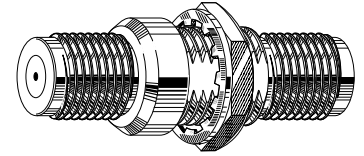


Canare Recessed Panel Mount Hole Dimensions

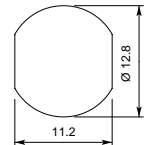


FJ-JR

75Ω F Bulkhead Port
 Jack (Female) to Jack (Female)
 Double D Hole Punch
 IU-7/16 Iso Bushing
 ≥26dB (≤1.1 VSWR) DC-2GHz



Double D Panel Mount Hole Dimensions (without IU-7/16 Iso Bushing)



Double D Panel Mount Hole Dimensions (with IU-7/16 Iso Bushing)

75Ω F JACK NOMINAL SPECIFICATIONS								
Bandwidth VSWR Return Loss DC to 2GHz	Center Contact Material Plating	Body Material Plating	Dielectric	Flange Material Plating	Insulation resistance at 500V DC	Voltage rating for 1 minute	Center contact resistance	Outer contact resistance
≤ 1.1 > 26dB	Beryllium Copper Gold	Brass Nickel	PTFE	DieCast AL Nickel	> 500MΩ	500V AC(rms)	< 5mΩ	< 5mΩ



FJ-JRU

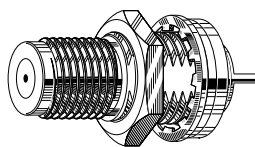


FJ-JR

75Ω F PC MOUNT RECEPTACLE

APPLICATIONS

- OEM
- BROADBAND EQUIPMENT
- CABLE MODEMS
- RF BOXES
- SATELLITE SYSTEMS

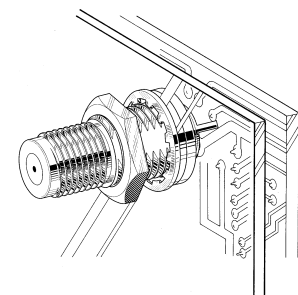


FJ-FPC

Canare introduces a new high precision 75Ω F Receptacle for PC Board solder trace hole mounting. This new connector is impedance matched and perfectly suited for use in all advanced generations of Digital Video Broadcast Equipment as well as other applications where high bandwidth and low Return Loss is required.

FEATURES

- ≥26 dB Return Loss (≤1.1 VSWR); DC to 2GHz
- Securely mounts to PCB with Chassis Support
- Gold Plated Beryllium Copper center contact



For complete model listings & detailed product specifications, request Canare's "OEM Parts Catalog"

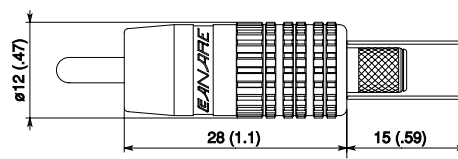
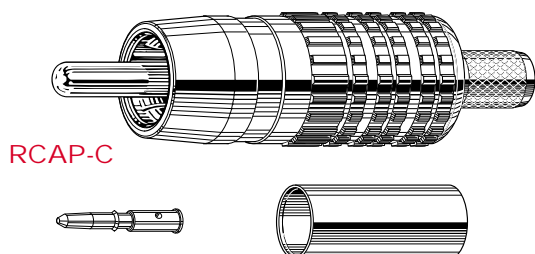
APPLICATIONS

- MULTIMEDIA PATCHCORDS
- HI-RES VIDEO MONITORS
- SPDIF DIGITAL AUDIO
- DUPLICATION DECKS
- VCR & CAMCORDERS
- AUDIO INTERCONNECTS

FEATURES

- VSWR ≤1.1 DC to 200MHz
- Absolutely No Soldering Required
- Assembly Time Reduced by >80%
- Use Standard Canare Crimp & Strip Tools
- Internal Pressure Contact Fingers
- Gold Plated Center Shaft
- Wide Selection of Cable Types

MODEL	PINS	SLEEVES
RCAP-C3A	B11014D	BN7003A
RCAP-C3F	B11015D	BN7003A
RCAP-C4A	B11015D	BN7015A
RCAP-C4F	B11016D	BN7015A
RCAP-C5A	B11016D	BN7016
RCAP-C53	B11020C	BN7016
RCAP-C5F	B11020C	B75004
RCAP-C77	B11016D	B75004



75Ω TYPE RCA CRIMP PLUG NOMINAL SPECIFICATIONS											
3-Piece Assembly	Bandwidth VSWR Return Loss	Body Material Plating	Center Contact Material Plating	Outer Contact Material Plating	Dielectric	Crimp Pin Material Plating	Crimp Sleeve Material Plating	Cable Retention lbs.(kgs)	Insulation resistance at 500V DC	Voltage rating for 1 minute	Contact resistance
Body Crimp Pin Crimp Sleeve	DC to 200MHz ≤ 1.1 > 26 dB	Brass Nickel	Phosphor Bronze Gold	Beryllium Copper Gold	PPO Noryl	Brass Gold	Copper Tin	> 55 > 24.9	> 100MΩ	500V AC(rms)	< 10mΩ

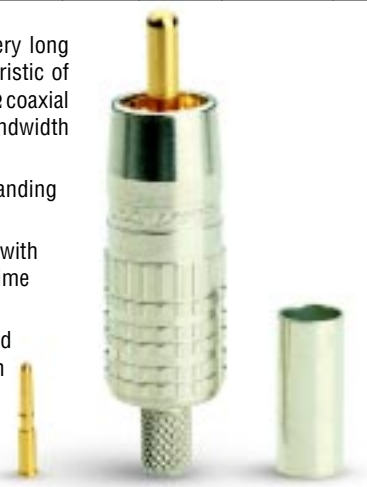
Generic “off-the-shelf” RCA audio plugs are quite common and have been in use for a very long time...well over 50 years! These old-style RCA type solder plugs have an impedance characteristic of roughly 25Ω and exhibit extremely poor Return Loss performance when mated with precision 75Ω coaxial video cable. In fact, they are virtually unusable for 6MHz Broadcast Video frequencies, high bandwidth RGB Video Monitor lines, or even Digital Audio data bit streams.

Canare’s all new 75Ω type RCAP Video Crimp Plugs are impedance matched and achieve outstanding analog and digital electrical performance with a usable bandwidth to 200MHz.

Our original 3-piece connector design offers consistent and extremely reliable terminations with a wide variety of 75Ω coaxial cable sizes. This unique construction reduces set-up and assembly time by >80% because no soldering is ever required!

Assembling your own high-quality Canare RCA video patch cords is now quick, easy and affordable...you just: (a) strip back the cable, (b) crimp on the center pin, (c) snap-lock the pin with cable into the RCAP body, (d) slide up the sleeve and crimp...that’s all there is to it!

All RCAP connectors utilize the same high-quality gold Pins & Sleeves found in Canare’s most popular 75Ω BNC crimp plug series. This special design feature permits 100% compatibility with the standard Canare Hand Tool, Die sets and our award winning “15 Second Quick” TS coaxial cable Strippers.



	75Ω TYPE RCA CRIMP PLUG								CABLE / CONNECTORS / TOOLING X-Reference Chart			
	RCAP-C3A	RCAP-C3F	RCAP-C4A	RCAP-C4F	RCAP-C5A	RCAP-C53	RCAP-C5F	RCAP-C77				
CANARE CABLE												
A2V1	L-3C2VS	L-3CFB	A3V1-FB	LV-61S	L-4CFB	V-4CFB	V-5C		L-5CFB	LV-77S		
A2V2-L			A3V2-FB						V-5CFB			
V-3C			V-3CFB									
BELDEN												
				8241	1505A	1506A		1694A	1189A	8281F		
				8279	8212			9116	9290			
					8241F			9066				
					9167							
					9259							
					9659							
COMMSCOPE												
					2000			2227K/V	5731			
					5553			2229V				
					5565							
					5572							
					556510							
COAX CABLE STRIPPERS	TS100E	TS100E	TS100E	TS100E	TS100E	TS100E	TS100E	TS100E	TS100E	TS100E	TS100E	TS100E
	TS-V3C	TS-3C	TS-3C	TS-V3C	TS-4C	TS-4C	TS-3C	TS-4C	TS-31C	TS-5C	TS-5C	TS-5C
TOOL	TC-1	○	○	○	○	○	○	○	○	○	○	○
	TCD-3C	●	●	●								
	TCD-35CA	●	●	●				●	●			
	TCD-4C											
DIE SETS	TCD-451CA				●	●	●					
	TCD-5CF									●	●	

● Alternate Die Set.
Note: All Strripper Models are Pre-Set for Canare 75Ω Type RCA Crimp Plug Dimensions

RJ-BCJRU

75Ω Type RCA to BNC RECESSED Bulkhead
 Jack (Female) to Jack (Female)
 Mounts in Common Canare Hole Punch
 Totally Isolated from Panel
 ≤1.1 VSWR DC-100MHz

RJ-RU

75Ω Type RCA RECESSED Bulkhead
 Jack (Female) to Solder Cup
 Mounts in Common Canare Hole Punch
 Totally Isolated from Panel
 ≤1.1 VSWR DC-100MHz

RJ-BCJR

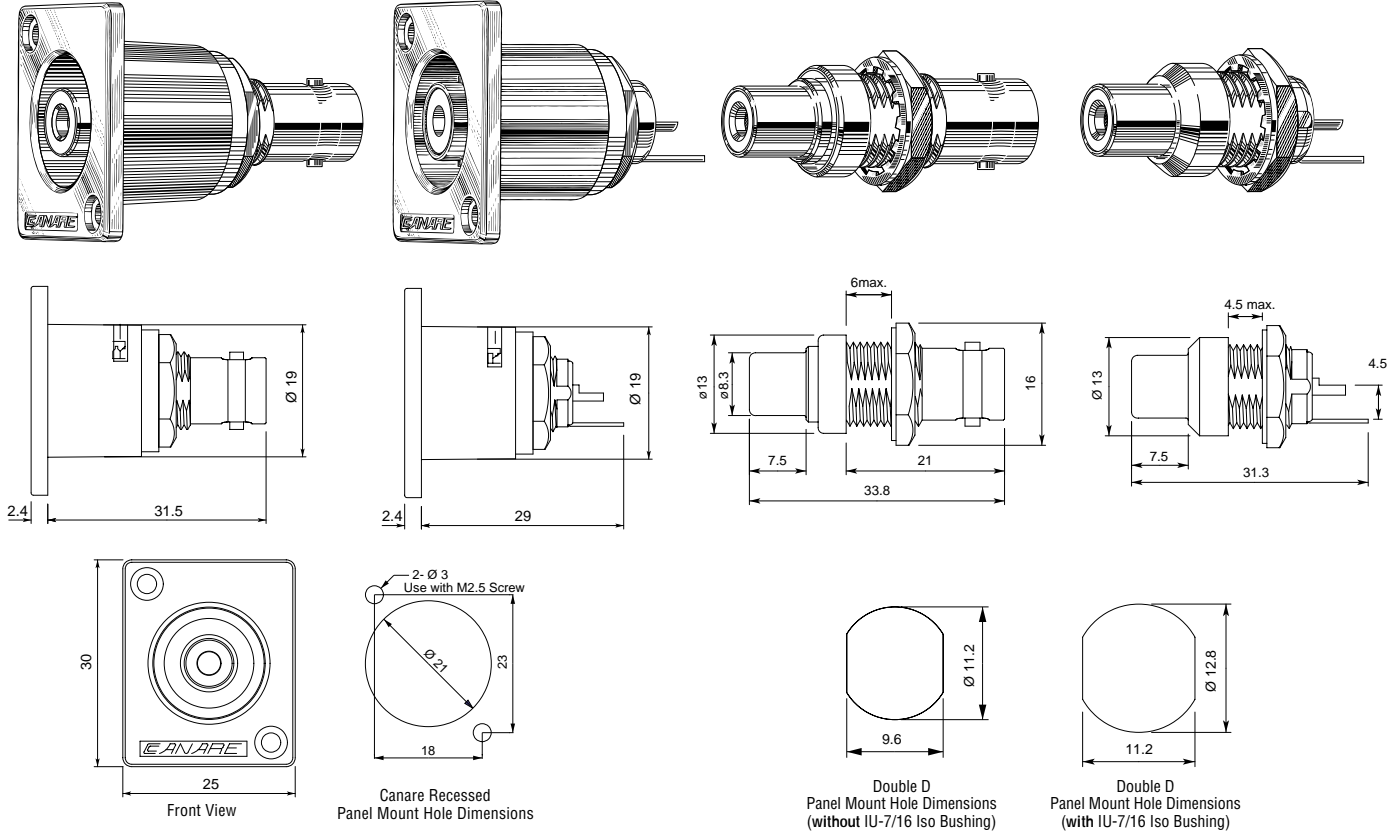
75Ω Type RCA to BNC Bulkhead
 Jack (Female) to Jack (Female)
 Use with Isolation Bushing IU-7/16
 Double D Hole Punch
 ≤1.1 VSWR DC-100MHz

RJ-R

75Ω Type RCA Bulkhead
 Jack (Female) to Solder Cup
 Use with Isolation Bushing IU-7/16
 Double D Hole Punch
 ≤1.1 VSWR DC-100MHz

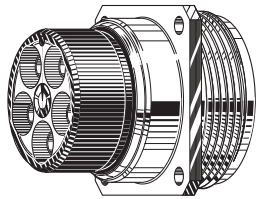
Insulator Colors: Red, Green, Blue, Yellow, White

Insulator Colors: Red, Yellow, White



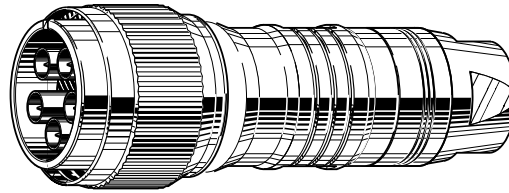
75Ω TYPE RCA JACK SPECIFICATIONS							
Bandwidth VSWR Return Loss DC to 100MHz	Center Contact Material Plating	Body Material Plating	Dielectric	Flange Material Plating	Insulation resistance at 500V DC	Voltage rating for 1 minute	Center contact resistance
≤1.1 >26dB	Beryllium Copper Gold	Brass Nickel	PTFE	DieCast AL Nickel	>100MΩ	500V AC(rms)	<10mΩ

75 Ω MULTI-PIN COAXIAL CONNECTORS



MCF-V5C3

female bulkhead



MCM-V5C3

male cable mount

Single Connector Handles Up to Five 75Ω Coaxial Connections.

Applications

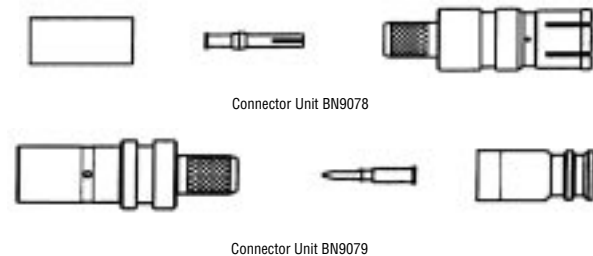
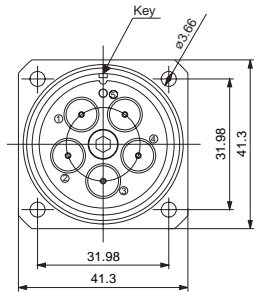
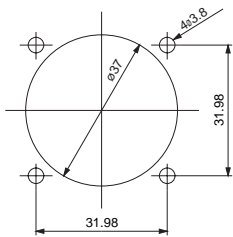
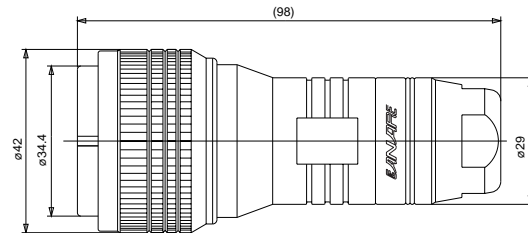
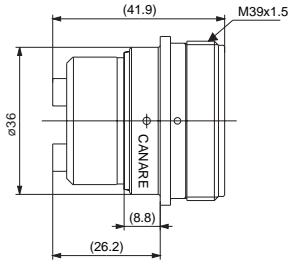
- RGB-HV Snake Systems
- Digital Video Projectors
- SDI Tie Lines
- OB Vans
- A/V Multimedia Installers

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

Model	Description	Matching Connector
DCMO1	Dust Cap	MCM-V5C3
DCF01		MCF-V5C3

Features

- Modular “Snap ‘n’ Lock” Pins & sockets (5ea)
- Easy to Assemble in Shop or Field
- No soldering Required. Just Crimp
- Uses Standard Canare Crimp Tools & Strippers
- Color Coded Channel ID’s



Model	Nom Imped. Ohms	Bandwidth VSWR Return Loss	Bandwidth Insertion Loss	Insulation resistance at 500V DC	Withstand Voltage	Contact resistance	Operating Temp. °F(°C) Humidity %	Life Cycles	Tools
MCM-V5C3 male	75Ω	DC-1.5 GHz. ≤ 1.2 ≥ 20 dB	DC-1.5 GHz. ≤ 0.3 dB	≥ 1000MΩ	1500V AC 1 min.	≤ 10mΩ	-40°F to +149°F -40°C to +65°C	500 Times	24mm & 27mm (Wrenches)
MCF-V5C3 female									TC-1 TCD-35CA

75 Ω TRI-K PRO TRIAXIAL CONNECTORS



Cable compatibility meets American interconnecting requirements.

Model	Boot or dust cap	Description	Applicable cable	Tools	Retro Fit Kit
CCF4-JK	CB23	Female cable mount	L-4CFTX	TC-1 TCD-316C	BN9127
CCM4-PK	CB22	Male cable mount			BN9128
CCF4-JKR	DCM02	Female panel mount			BN9127
CCM4-PKR	DCM03	Male panel mount			BN9128

- Push-lock mechanism - no cable stress when detaching to prevent cable disconnection.
- Simple construction for easy assembly
- Sturdy construction
- Detailed instructions included



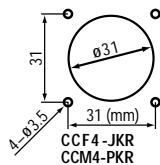
L-4CFTX
Jacket colors: black, red, green

*Please ask our sales personnel regarding Canare connector compatibility with connectors of other makes.

CB23



DCM02



Mounting hole dimension

75 Ω TRI-F PRO TRIAXIAL CONNECTORS



Cable compatibility meets European Interconnecting requirements.

Model	Boot or dust cap	Description	Applicable cable	Tools
CCF5-JF	CB16	Female cable mount	L-4CFTX	Wrenches 14mmx2 17mmx2 19mmx1 22mmx1
CCM5-PF	CB17	Male cable mount		
CCF5-JFR	DCF02	Female panel mount		
CCM5-PFR	DCM02	Male panel mount		
CCF10-JF	CB18	Female cable mount	10CFTX-SC (Custom model. Cable O.D. 14.5mm)	Wrenches 17mmx2 22mmx2 24mmx1 26mmx1
CCM10-PF	CB19	Male cable mount		
CCF10-JFR	DCF02	Female panel mount		
CCM10-PFR	DCM02	Male panel mount		

- Push-lock mechanism - no cable stress when detaching to prevent cable disconnection.
- Simple construction for easy assembly
- Sturdy construction
- Detailed instructions included
- No special assembly tools required



L-5CFTX
Jacket colors: black, red, green



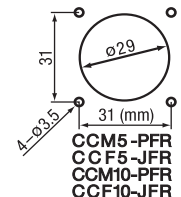
10CFTX-SC
Jacket colors: black, red, green

*Please ask our sales personnel regarding Canare connector compatibility with connectors of other makes.

CB18



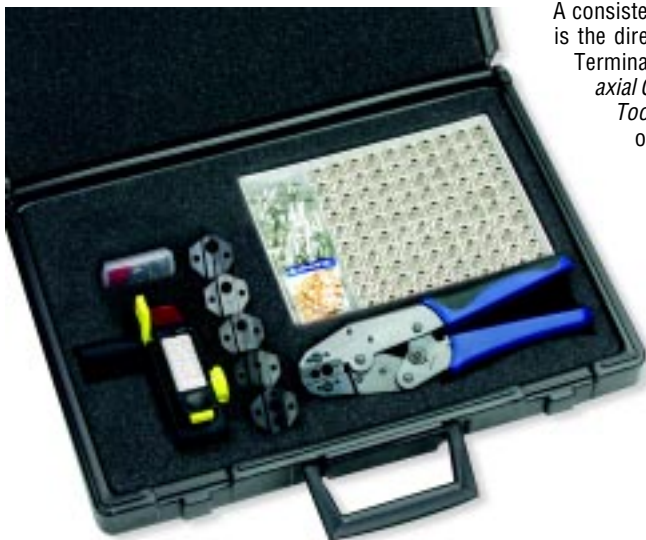
DCF02



Mounting hole dimension

75Ω TRIAX CONNECTORS NOMINAL SPECIFICATIONS

Model	Nom. Imped. Ohms	Bandwidth VSWR Return Loss	Center Contact / Material Plating	Inner Body Material Plating	Body / Material Plating	Dielectric	Center Contact	Cable Retention lbs. (kgs.)	Insulation resistance at 500V DC	Withstand Voltage	Center Contact resistance	Operating Temp. °F(C)/ Humidity %	Life Cycles
Tri-KPro series 4	75Ω	DC-1.5 GHz ≤1.1 ≥26dB	male=Brass female = Beryllium Copper / Gold	Brass & Phosphor Bronze/ Gold	Brass/ Nickel	PTFE & POM	Crimp	>100 >45	≥ 5000 MΩ	1500V AC 1 min.	≤10mΩ	-40° to + 185°F -40°C to +85°C 85%	1000 Times
Tri-FPro	75Ω	DC-1.5 GHz ≤ 1.2 ≥ 20dB	male = Brass female=Beryllium Copper / Gold	Brass & Phosphor Bronze/ Gold	Brass /S.S. /Nickel	PTFE	Solder	>110 >50	≥ 5000 MΩ	2000 V AC 1 min.	≤10mΩ	-40° to + 185°F -40°C to +85°C 85%	5000 Times



A consistent and reliable crimp connection is the direct result of a Quality Controlled Termination Set consisting of: The Coaxial Cable, Connector, Stripper, Crimp Tool and precision Die Set. Canare offers a complete turnkey Assembly Package. There is no tooling guesswork... the only surprise is how quick and easy it is to terminate your own cables.

R5A Storage Road Case

- Low cost, lightweight yet rugged, holds:
- (1-2) **TC-1** hand tools
- (5) **TCD** crimp die sets
- (100) Canare **BNC, F** or **RCA** crimp plugs
- (1) **TS100E** or, (3) **TS-C** Stripping tools
- Misc. adapters, replacement blades, rulers, etc.

Buyer Beware:

There are other products available that may look similar to the Canare TC-1 Hand Crimp Tool & TCD Die Sets, but they may not meet the same high quality standard and will not perform to our strict specifications.



TC-1 Hand Crimp Tool

- Interchangeable die sets
- Scissor ratchet action
- Emergency release lever
- Adjustable crimp force via drag washer
- Hardened Swedish Steel construction
- Rated at 50,000 dura-cycle lifespan

TCD Die Sets

- 2 piece precision fit design
- 2 Hex Bolts for quick hand tool loading
- Tight dimensional tolerances
- 1 and 2 Hex Sleeve versions
- Engraved Model I.D.

TS-SERIES COAXIAL CABLE STRIPPERS

Stripping & prepping coaxial cable for Canare's true 75Ω BNC, F and RCA Crimp Connectors, is now simple, quick and easy. No more hassles working with awkward razor blades or difficult-to-use straight edge tools. Our TS-Series dramatically reduces assembly time when compared the most other commonly used methods.

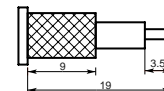
You simply "insert the cable, rotate and remove". Completes the job in just 15 seconds! All models have 3 fully-adjustable circular steel blades, specially designed and hardened to precisely cut "around" the cable...not chop through it like utility knives or ordinary wire strippers. Our innovative side-slit blade allows you to carefully peel off the jacket for consistent and productive cable prep.

TS100E *5 in 1* Coaxial Cable Stripper

- Quick & Easy-to-use hand tool
- Rotary Knob selects 5 different cable set-ups
- 3 Circular Steel Blades Cut cleanly & precisely
- Blade height is fully adjustable, wrench included
- Special extra "side-slit" jacket blade
- Unique V-Guide aligns coax in center of chamber
- 5 Factory pre-sets...or, create your own settings
- TSC Blade Cassette**
- Replaceable circular steel blade pack

MODEL SELECTION	
Model	Max. Cable O.D.
TS100E	.158in - .433in (4mm - 11mm)
TS-V3C	.197in (5.0mm)
TS-3C	.236in (6.0mm)
TS-4C	.256in (6.5mm)
TS-31C	.291in (7.4mm)
TS-5C	.327in (8.3mm)

Strip Lengths all Models (mm)



TS100E



TS-4C

TS-C Coaxial Cable Strippers

- 3 Circular Steel Cutting Blades
- 'Side Slit Blade' for easy peel jacket
- Blade height fully adjustable



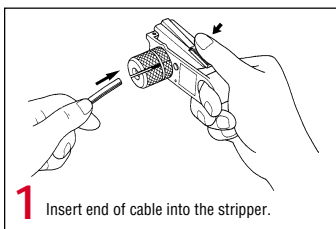
TS-3C



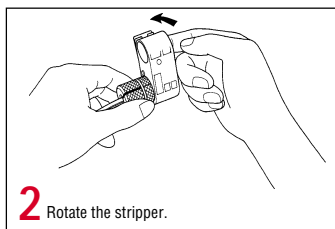
TS-5C



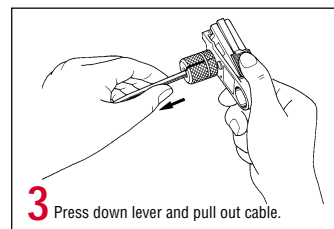
TS-V3C



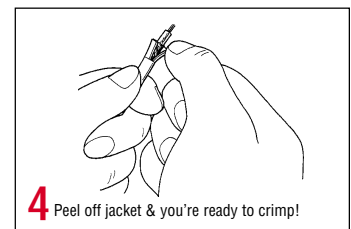
1 Insert end of cable into the stripper.



2 Rotate the stripper.



3 Press down lever and pull out cable.



4 Peel off jacket & you're ready to crimp!

Application note: All stripper models are pre-set for use with Canare BNC, F and RCA Crimp Plug dimensions only.

CANARE CABLE REEL STAND



CRS-02 Cable Storage Rack

Canare introduces a premium cable reel storage rack stand that easily accommodates 10 full-size Canare Cable spools (ex: 10ea. 300 meter rolls of L-5CFB). Extra heavy duty gauge steel frame with solid reinforced welded joints. Rugged crinkled powder coat Blue finish.

Includes four (4) industrial strength roll-around locking casters so rack 'stays put' when paying out cable.

A must-have for multiple cable pulls, system installation job sites and professional wire assembly shops.

BNC EXTRACTION TOOL

BET-12

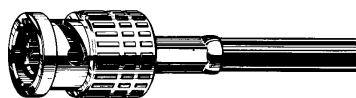
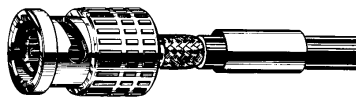
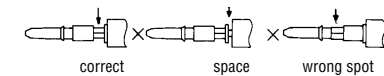
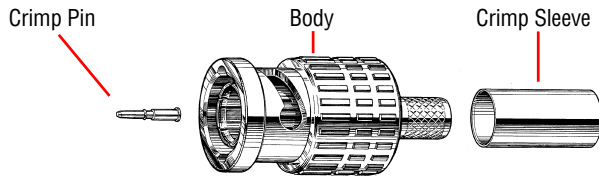


Our specially designed connector removal tool perfectly fits not only Canare 75Ω BCP-C BNC series, but all other standard MIL-SPEC BNC line plugs. The BET-12 allows easy access to those hard-to-reach BNC jacks located deep inside rear rack enclosures.

Tapered channel socket permits various cable O.D. sizes up to and including Canare L-7CFB, RG11 (.405in, 10.29mm).

Long 12 inch heavy duty metal probe shaft will not bend or deform under normal use. Clear Blue plastic handle.

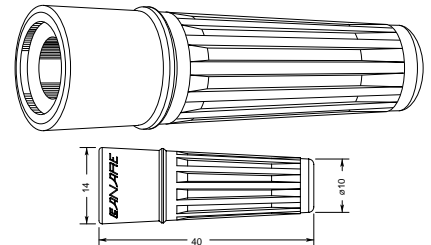
ASSEMBLY • CANARE 75Ω BNC, F AND RCA CRIMP PLUGS



- Slide crimp sleeve over cable.
- Strip cable jacket using Canare TS-Series Coax Strippers (see mm dimensions)
- Place contact pin on center conductor. Using the TC-1 hand tool and appropriate die set, crimp center pin as shown in diagram. (Do not leave a gap between rear of the pin and cable insulation end.)
- Flair braided shield to aid insertion of connector body.
- Push cable with crimped pin into body housing until you detect an audible "snap". (Jamming the pin may bend center conductor and damage connector dielectric.)
- Lightly tug cable (@ 4.5 lbs/2.0 kgs) to verify that pin is properly seated in body housing.
- Slide crimp sleeve up against the body and place in tool die.
- Complete assembly by crimping down on sleeve to form hex.

Note: Flair gap at sleeve end is normal and allows cable jacket extra flexing room.

CABLE BOOT



CB04

Our new push-on silicon rubber boot helps prevent cable damage at the connector sleeve stress point due to flexing, fatigue and environmental changes. Available in 10 matte colors for matching cable jacket or channel ID call-outs.

MODEL SELECTION		
MODEL	Fits on Cable	Connectors
CB01	L-1, 5C2VS	BCP-C series
CB02	L-2, 5CFB, V-3C	
CB03	L-3C2VS, L-3CFB, V-3C, V-3CFB	
CB04	LV-61S, L-4CFB, V-4CFB	
CB05A	LV-77S, L-5CFB, V-5C, V-5CFB	
CB24	L-3C2VS, L-3CFB, V-3C, V-3CFB	MBCP-C series
CB25	LV-61S, L-4CFB, V-4CFB	FP-C series
CB26	LV-77S, L-5CFB, V-5C, V-5CFB	RCAP-C series

COLORS AVAILABLE										
MODEL	BLK	BLU	BRN	GRY	GRN	ORN	PPL	RED	WHT	YEL
CB01	■	■			■			■	□	■
CB02	■									
CB03	■	■	■	■	■	■	■	■	□	■
CB04	■	■	■	■	■	■	■	■	□	■
CB05A	■	■	■	■	■	■	■	■	□	■
CB24	■	■			■			■	□	■
CB25	■	■			■			■	□	■
CB26	■	■			■			■	□	■

APPLICATIONS

- GUITAR / KEYBOARDS
- SOUND MIXERS
- PA SYSTEMS
- TEST PROBES
- HI-FI INTERCONNECTS

Canare offers in-line cable mount audio plugs in a variety of configurations for the discriminating professional. Each model is carefully designed to accommodate small to large O.D. cables and all versions offer a generous soldering area for easy wiring assembly, good electromechanical characteristics, super performance and long life durability.

FEATURES

- Robust Dependable Construction**
- Brass with Nickel/Gold Plating**
- 360° Crimpable Cable Strain Relief**
- Easy to Solder**
- Beautiful Long Lasting Finish**

F-09 and F-10 plugs have a Gold plated brass inner shaft that offers low contact resistance and eliminates corrosion problems with the mating receptacle.

Canare F-Series audio plugs feature a proprietary 360° cable clamp design that ensures long life reliability.

All F-Series audio plugs have a beautiful nickel plated, bell brass handle with a specially designed knurled surface to prevent finger slippage.

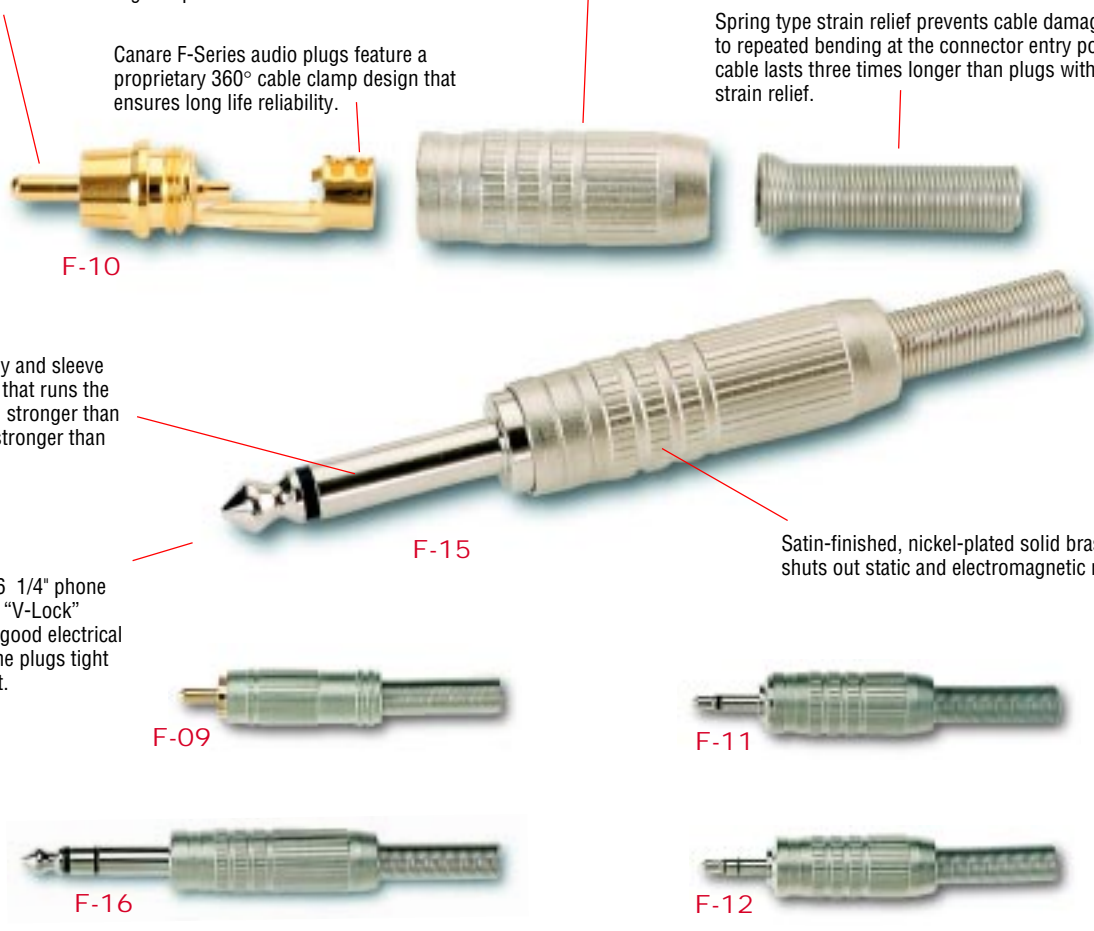
The F-09 RCA plug features an extra narrow profile body (for high density panels). The handle extends over the outer contact sleeve for improved RF shielding.

Spring type strain relief prevents cable damage due to repeated bending at the connector entry point; cable lasts three times longer than plugs without strain relief.

Reinforced one-piece body and sleeve includes a pure brass bar that runs the length of the handle; 50% stronger than ordinary plugs and 20% stronger than other high-grade plugs.

Canare F-15 and F-16 1/4" phone plugs use a patented "V-Lock" system that ensures good electrical contact by keeping the plugs tight where others pull out.

Satin-finished, nickel-plated solid brass handle, shuts out static and electromagnetic noise.



CONNECTOR SPECIFICATIONS									
Model	Type	Notes	Cable Entry I.D. in (mm)	* Max Cable O.D. in (mm)	Shaft material plating	Dielectric	Body material plating	Insulation tube	Cable spring plating
F-09	RCA	Narrow profile. Body extends over contact	.248 6.3	.236 6.0	Brass Gold	Polyacetal	Brass Nickel	-	Nickel
F-10	RCA	Deluxe clamp and body design	.244 6.2					PTFE	
F-11	Mini Phone TS	Tip, Sleeve	6.2		Brass	-		-	
F-12	Mini Phone TRS	Tip, Ring, Sleeve	.248 6.3					Black PVC	
F-15	1/4" TS phone	Tip, Sleeve	.244	Nickel	-	-	-		
F-16	1/4" TRS phone	Tip, Ring, Sleeve	6.2						

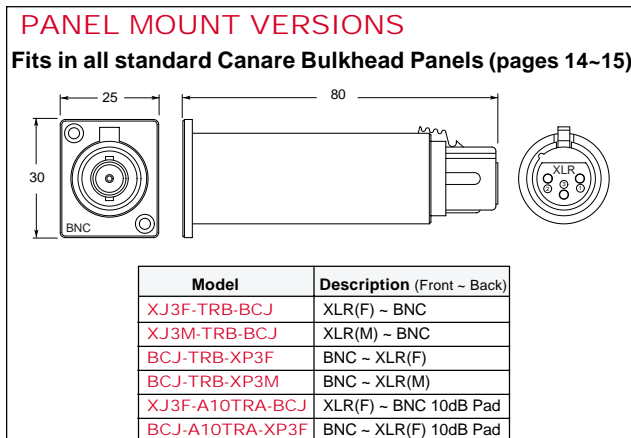
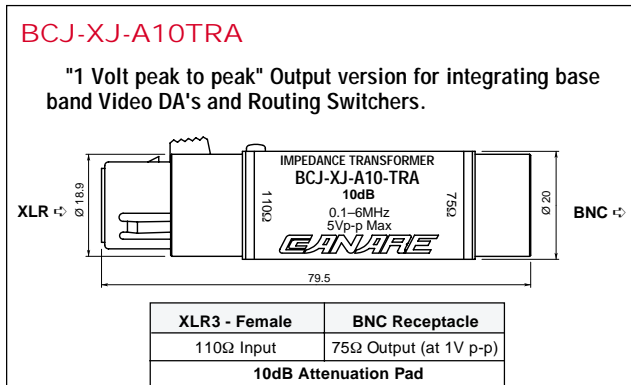
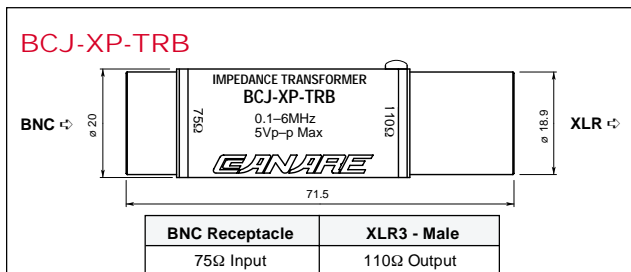
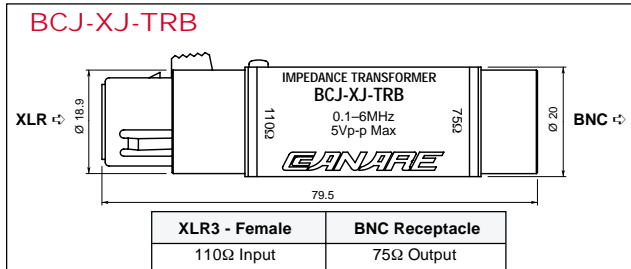
* With Spring Removed, Max. Cable O.D. is .295in (7.5mm)

APPLICATIONS

- POST PRODUCTION SUITES
- DAT ROUTING
- RECORDING STUDIOS
- DIGITAL AUDIO TIE LINES

FEATURES

- SMPTE 276M & AES3 Transmission Standards
- Coaxial Routing of 2 Channel AES/EBU Digital Audio
- Permits longer cable runs vs 110Ω Twisted Pair
- Signal Distribution: Canare Video Patchbays, Routers & VDA's

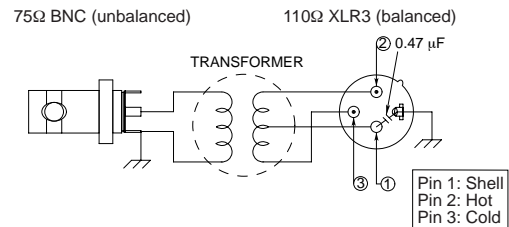


GENERAL SPECIFICATIONS

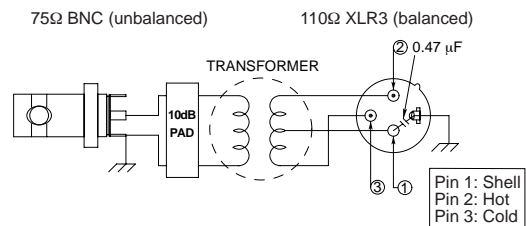
Bandwidth: 0.1 ~ 6MHz
Maximum Voltage: 5V p-p
VSWR: Less than 1.1
Insertion Loss: Less than 0.3 dB

Canare Impedance Transformers allow 75Ω coaxial transmission of all 2 channel AES/EBU Digital Audio signals. Low cost and easy to use, our I/O adapters are designed to passively convert all standard AES/EBU digital audio signals from 110Ω/XLR3 Output (@ 4.5 Volts) to a 75Ω BNC coaxial cable and then back again to a 110Ω/XLR3 Input (200mV min). Also provides excellent rejection against hum and noise.

BCJ-XJ-TRB / BCJ-XP-TRB



BCJ-XJ-A10TRA



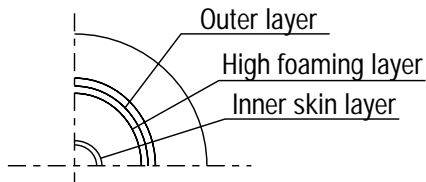
110Ω - 75Ω Impedance Transformer: Input/Output Level Performance

AES/EBU Transmitter (V)	Transformer Out (V)	AES/EBU Transmitter (V)	Transformer Out -10dB Pad (V)
2.0	1.60	2.0	0.50
3.0	2.39	3.0	0.75
4.0	3.18	4.0	1.01
4.5	3.60	4.5	1.13
5.0	3.98	5.0	1.26
6.0	4.78	6.0	1.51
7.0	5.58	7.0	1.76
8.0	6.38	8.0	2.02
9.0	7.18	9.0	2.27
10.0	7.98	10.0	2.52

BCJ-XJ-TRB / BCJ-XP-TRB

BCJ-XJ-A10TRA

From Analog to Digital, to HDTV



L-6CHD, L-7CHD, L-8CHD

- Ideal for transmitting HDTV-SDI signals.
- Offers 1.3 times the transmission distance of existing cables of the same size. (for 7C cable)
- The combination of laminated aluminum tape and braid used for the shield offers strong shielding.
- A three-layer insulation configuration in which to each layer is given a different foaming ratio is used to increase strength and resistance to humidity.

Note 1:

Designed for fixed installation, and not fit for mobile use where external force or pressure is unavoidable.

Note 2:

Cable strippers cannot be used.

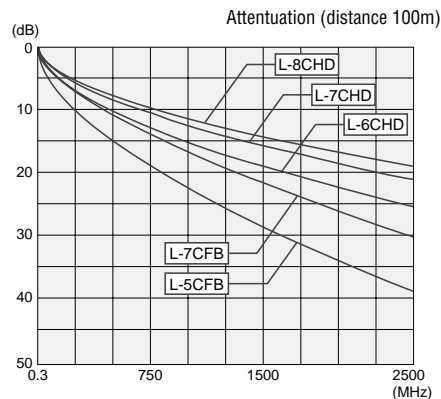
MECHANICAL SPECIFICATIONS								ELECTRICAL PERFORMANCE									
Model	Weight Stand. length lbs/328ft. (kgs/100m)	Nom. O.D. Inch (mm)	PVC Jacket Thickness inch (mm)	Brittle Point °F (-30°C)	Conductor Material	Cond. O.D. inch (mm)	Dielectric Insulation Type	Insulation O.D. inch (mm)	Shield Materials & Coverage	Cond. D.C.R. Ω/1000ft (Ω/100m)	Shield D.C.R. Ω/1000ft. (Ω/100m)	Nom. Cap @1KHz pF/ft pF/m	Nom. Imped. Ohms	Velocity of Prop.	Attenuation at 750MHz dB/100m **	Structural Return Loss up to 2.5 GHz dB Minimum	HDTV Length @1.485 Gbps (742.5MHz) -20dB att. **
L-6CHD	22 10	0.350 8.9	0.040 1.0	-22°F -30°C	Bare Copper 15	0.059 1.5	Foam PE	0.240 6.1	Al Foil 100% TAC ≥92%	≤3.13 ≤1.03	≤2.35 ≤0.77	15 50	75Ω±3	89%	13	≥20	505 ft. (430ft.)
L-7CHD	29 13	0.401 10.2	0.040 1.0	-22°F -30°C	Bare Copper 13	0.071 1.8	Foam PE	0.287 7.3	Al Foil 100% TAC ≥92%	≤2.16 ≤0.71	≤1.86 ≤0.61	15 50	75Ω±3	89%	11.2	≥20	587 ft. (499ft.)
L-8CHD	31 14	0.437 11.1	0.040 1.0	-22°F -30°C	Bare Copper 12	0.080 2.03	Foam PE	0.323 8.2	Al Foil 100% TAC ≥89%	≤1.77 ≤0.58	≤1.92 ≤0.63	15 50	75Ω±3	89%	9	≥20	728 ft. (620ft.)

*Special Order

CANARE L-6CHD		1/2 Clock Freq.	Feet	Meters
Composite NTSC SMPTE 170M (143Mb/s)		71.5 MHz		
Minimum Loss (dB)		20	1,640	500
Maximum Loss (dB)		30	2,460	750
Component Video SMPTE 259M (270Mb/s)		135 MHz		
Minimum Loss (dB)		20	1,194	364
Maximum Loss (dB)		30	1,788	545
Compressed HDTV SMPTE 259M (360Mb/s)		180 MHz		
Minimum Loss (dB)		20	1,027	313
Maximum Loss (dB)		30	1,538	469
Uncompressed HDTV SMPTE 292M (1.485Gb/s)		742.5 MHz		
Minimum Loss (dB)		20	505	154
Maximum Loss (dB)		30	758	231

CANARE L-7CHD		1/2 Clock Freq.	Feet	Meters
Composite NTSC SMPTE 170M (143Mb/s)		71.5 MHz		
Minimum Loss (dB)		20	1,929	588
Maximum Loss (dB)		30	2,893	882
Component Video SMPTE 259M (270Mb/s)		135 MHz		
Minimum Loss (dB)		20	1,368	417
Maximum Loss (dB)		30	2,050	625
Compressed HDTV SMPTE 259M (360Mb/s)		180 MHz		
Minimum Loss (dB)		20	1,194	364
Maximum Loss (dB)		30	1,788	545
Uncompressed HDTV SMPTE 292M (1.485Gb/s)		742.5 MHz		
Minimum Loss (dB)		20	587	179
Maximum Loss (dB)		30	879	268

CANARE L-8CHD		1/2 Clock Freq.	Feet	Meters
Composite NTSC SMPTE 170M (143Mb/s)		71.5 MHz		
Minimum Loss (dB)		20	2,263	690
Maximum Loss (dB)		30	3,392	1034
Component Video SMPTE 259M (270Mb/s)		135 MHz		
Minimum Loss (dB)		20	1,561	476
Maximum Loss (dB)		30	2,342	714
Compressed HDTV SMPTE 259M (360Mb/s)		180 MHz		
Minimum Loss (dB)		20	1,338	408
Maximum Loss (dB)		30	2,007	612
Uncompressed HDTV SMPTE 292M (1.485Gb/s)		742.5 MHz		
Minimum Loss (dB)		20	728	222
Maximum Loss (dB)		30	1,092	333



Crimp-on Type 75Ω BNC Plug

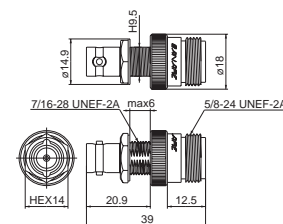
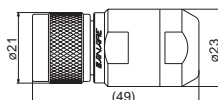
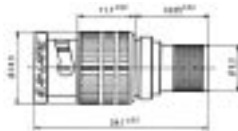
Model	Matching cable
BCP-C6HD	L-6CHD
BCP-C7HD	L-7CHD

Solder type 75Ω N Plug

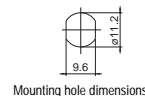
Model	Matching cable
NCP-H8HD	L-8CHD

75Ω BNC-N Adapter

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



75Ω BNC, N Plug Connectors for HDTV and N-BNC Adapter				
DIE SET	BCP-C6HD BNC	BCP-C7HD BNC	NCP-H8HD N	NCJ-BCJR N(F)-BNC(F)
TCD-67HD	•	•	Solder	•



*can be installed on panels using Canare IU-7/16 isolation bushing.

APPLICATIONS

- SERIAL DIGITAL VIDEO (SDI)
- SATELLITE HEAD ENDS
- HDTV UPGRADES (DTV)
- BROADBAND FACILITIES

L-2.5CFB

- micro coax
- 25 AWG



.157

L-3CFB

- mini coax
- 22 AWG



.217

L-4CFB

- RG59 type
- 20 AWG



.240

L-5CFB

- RG6 type
- 18 AWG



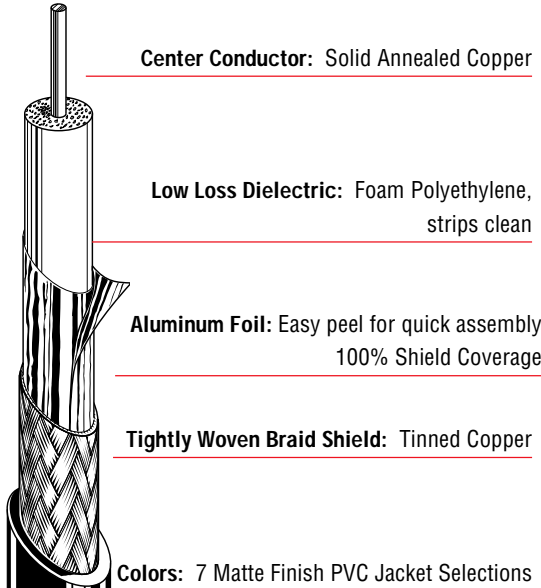
.303

L-7CFB

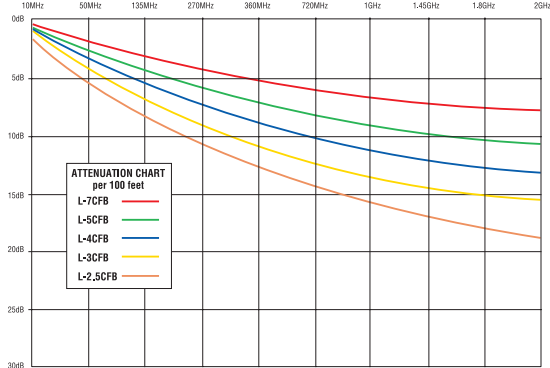
- RG11 type
- 15 AWG



.402



COLORS AVAILABLE						
Model	BLK	BLU	GRN	RED	YEL	PPL
L-2.5CFB	■					
L-3CFB	■	■	■	■	■	■
L-4CFB	■	■	■	■	■	■
L-5CFB	■	■	■	■	■	■



Structural Return Loss
≥20 dB to 2GHz

L-CFB SERIES

CANARE 75Ω precision digital video cable, offers the professional Broadcaster a high performance, 100% Sweep Tested, low cost, low loss coax that meets the demands of today's facility migration trends toward Serial Digital Video and HDTV standards.

Tech Note: Serial Digital video signals are transmitted at very high data bit rates and should be handled quite differently than traditional baseband analog video lines. Typical digital frequency platform bandwidths range from 143 MHz for Composite digital video, 270 MHz for Component digital video and 360 MHz for the proposed HDTV rate. Commonly used 75Ω coaxial cables like RG59 and 8281 are generally acceptable for analog baseband video and may even be used for short runs of digital video transmission. But, in a modern facility system design, where new SERIAL DIGITAL equipment installations require long tie lines and multiple I/O's, it is important to consider the 75Ω Coaxial Cable selection along with "Impedance Matching" BNC Connectors and Patchbays to maximize the overall electrical length and achieve optimum results.

Model	MECHANICAL SPECIFICATIONS										ELECTRICAL PERFORMANCE					
	Stand. Length	Weight Stand. Length lbs (kgs)	Nom. O. D. inch (mm)	PVC Jacket Thickness inch (mm)	Brittle Point °F (°C)	Conductor Material AWG	Cond. O.D. inch (mm)	Dielectric Insulation Type *	Insulation O.D. inch (mm)	Shield Materials & Coverage	Cond. D.C.R. Ω/1000ft (Ω/100m)	Shield D.C.R. Ω/1000ft (Ω/100m)	Nom. Cap. @1KHz pF/ft (pF/mt)	Nom. Imped. Ohms	Velocity of Prop.	Serial Digital Transmission Lengths @ 270 Mb/s **
	984ft 300m	17 7	.157 4.0	.020 0.5	-22 -30	Bare Copper 25	.02 .5	Foam PE	.094 2.4	Al Foil 100% TAC Braid >92%	<28.35 <9.3	<7.3 <2.4	17 55	75Ω	79%	470 ft min. 614 ft max.
L-2.5CFB	984ft 300m	17 7	.157 4.0	.020 0.5	-22 -30	Bare Copper 25	.02 .5	Foam PE	.094 2.4	Al Foil 100% TAC Braid >92%	<28.35 <9.3	<7.3 <2.4	17 55	75Ω	79%	470 ft min. 614 ft max.
L-3CFB	984ft 300m	29 13	.217 5.5	.035 .9	-22 -30	Bare Copper 22	.026 .65	Foam PE	.122 3.1	Al Foil 100% TAC Braid >91%	<16.8 <5.5	<4.3 <1.4	17 55	75Ω	79%	650 ft min. 830 ft max.
L-4CFB	984ft 300m	33 15	.240 6.1	.035 0.9	-22 -30	Bare Copper 20	.032 0.80	Foam PE	.146 3.7	Al Foil 100% TAC Braid >93%	<11.0 <3.6	<3.0 <1.0	17 55	75Ω	79%	710 ft min. 920 ft max.
L-5CFB	984ft 300m	49 22	.303 7.7	.043 1.1	-22 -30	Bare Copper 18	.041 1.05	Foam PE	.192 4.9	Al Foil 100% TAC Braid >93%	<7.0 <2.3	<2.1 <0.7	17 55	75Ω	79%	940 ft min. 1,210 ft max.
L-7CFB	984ft 300m	86 39	.402 10.2	.039 1.0	-22 -30	Bare Copper 15	.059 1.50	Foam PE	.287 7.3	Al Foil 100% TAC Braid >96%	<3.1 <1.0	<1.4 <0.5	17 55	75Ω	79%	1,280 ft min. 1,660 ft max.

* Dielectric Strength = 1000V AC / 1min. Insulation resistance/3Mft = >1000MΩ.

** For reference only.

Model	CABLE / CONNECTOR ASSEMBLY ITEMS				Cable Stripper	Crimp Tool	Die Set
	CANARE 75Ω Connectors						
	BNC	F	RCA				
L-2.5CFB	BCP-C25F	-	-	TS100E	TC-1	TCD-35CA	
L-3CFB	BCP-C3F	FP-C3F	RCAP-C3F	TS100E	TC-1	TCD-35CA	
L-4CFB	BCP-C4F	FP-C4F	RCAP-C4F	TS100E	TC-1	TCD-451CA	
L-5CFB	BCP-C5FA	FP-C5F	RCAP-C5F	TS100E	TC-1	TCD-5CF	
L-7CFB	BCP-C7FA	FP-C7FA	-	TS100E	TC-1	TCD-7CA	

Model	NOMINAL ATTENUATION VALUE									
	10MHz	50MHz	135MHz	270MHz	360MHz	720MHz	1GHz	1.45Ghz	1.8Ghz	2GHz
L-2.5CFB	1.6 5.8	3.1 10.5	4.6 15	6.5 21.2	7.6 24.8	10.9 35.7	13.0 44.4	15.8 52.0	17.8 58.4	18.9 62.0
L-3CFB	1.0 3.2	2.5 8.0	3.7 12.3	5.2 17.2	6.1 20.0	8.9 29.1	10.6 34.7	13.0 42.6	14.7 48.3	15.6 51.2
L-4CFB	0.9 2.9	2.0 6.6	3.1 10.2	4.4 14.5	5.1 16.7	7.4 24.3	8.9 29.1	10.9 35.8	12.4 40.7	13.2 43.3
L-5CFB	0.7 2.2	1.6 5.3	2.5 8.1	3.5 11.5	4.1 13.4	5.9 19.4	7.1 23.3	8.8 29.0	10.1 33.1	10.7 35.1
L-7CFB	0.5 1.6	1.2 3.8	1.8 5.8	2.5 8.1	2.9 9.4	4.2 13.9	5.2 16.8	6.4 21.0	7.3 24.1	7.8 25.7

APPLICATIONS

- SERIAL DIGITAL VIDEO (SDI)
- HDTV UPGRADES (DTV)
- COMPONENT ANALOG VIDEO
- VIDEO WALLS
- HI-RES VIDEO PROJECTION
- CG / CAD WORKSTATIONS

V-3CFB

- mini coax type
- 22 AWG



.173

V-4CFB

- RG59 type
- 20 AWG



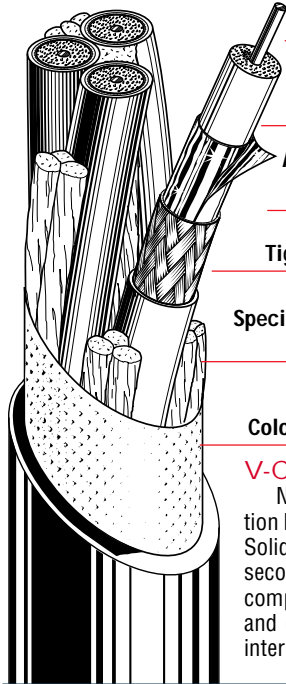
.197

V-5CFB

- RG6 type
- 18 AWG



.256



Center Conductor: Solid Annealed Copper

Low Loss Dielectric: Foam Polyethylene, strips clean

Aluminum Foil: Easy peel for quick assembly
100% Shield Coverage

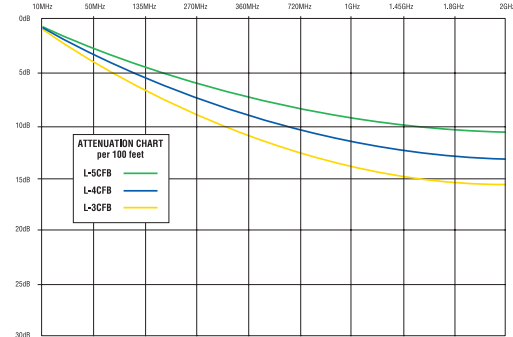
Tightly Woven Braid Shield: Tinned Copper

Special Jacket Fillers: Maintains tight bundle, reduces Shift & Twist

Color Coded Channel ID: Red, Green, Blue, White, Yellow

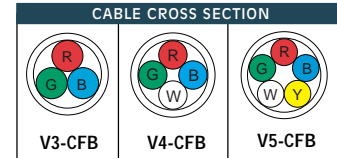
V-CFB SERIES

Newly developed coax specifically designed for DIGITAL and next generation HDTV facilities. Each coaxial channel includes a Foam Core PE dielectric, Solid Bare Copper Center Conductor and double Foil/Braid Shield. < 2.2 nano second channel-to-channel differential delay time, reduces phase errors in component video setup alignments. Bundled cable helps keep work site neat and clean. Can be used with confidence for Super Hi-Res CG workstation interconnects and Digital Video installations.



Structural Return Loss

≥20 dB to 2GHz



Model	MECHANICAL SPECIFICATIONS											ELECTRICAL PERFORMANCE						
	Stand. Length	Number of Channels (colors)	Wgt. Stand. Lng. lbs (kgs)	Nom. O.D. inch (mm)	PVC Jacket Thick. inch (mm)	Brittle Point °F (°C)	Indv. Chan. O.D. (in.) (mm.)	Insul. Type *	Insul. O.D. (in.) (mm.)	Cond.- AWG (Qty./mil.) Cross Sec. Area (mil ²)	Cond. O.D. (in.) (mm.)	Shield Coverage	Cond. D.C.R. (Ω/1000ft) (Ω/100m)	Shield D.C.R. (Ω/1000ft) (Ω/100m)	Nom. Cap. (pF/ft) (pF/m)	Nominal Impedance	Chan. Diff. Delay 100ft (nS)	Velocity of Prop.
V3-3CFB		3 RED, GRN BLUE	93 42	.453 11.5	.035 .90													
V4-3CFB	984ft 300m	4 RED, GRN BLUE, WHT	126 57	.512 13.0	.043 1.10	-22 -30	.173 4.4	FPE	.122 3.1	AC-#22 1/25.6 512	.026 .65	TAC >91% AL Foil 100%	<17.1 <5.6	<4.3 <1.4	17 55	75Ω	<2.2	79%
V5-3CFB		5 RED, GRN BLUE, WHT YEL	153 69	.559 14.2	.043 1.10													
V3-4CFB		4 RED, GRN BLUE	120 54	.508 12.9	.039 1.0													
V4-4CFB	984ft 300m	4 RED, GRN BLUE, WHT	153 69	.567 14.4	.043 1.1	-22 -30	.197 5.0	FPE	.146 3.7	AC-#20 1/31.5 775	.031 .80	TAC >93% AL Foil 100%	<11.3 <3.7	<3.0 <1.0	17 55	75Ω	<2.2	79%
V5-4CFB		5 RED, GRN BLUE, WHT YEL	192 87	.634 16.1	.047 1.2													
V3-5CFB		5 RED, GRN BLUE	192 87	.673 17.1	.051 1.3													
V4-5CFB	984ft 300m	5 RED, GRN BLUE, WHT	240 109	.740 18.8	.051 1.3	-22 -30	.256 6.5	FPE	.192 4.9	AC-#18 1/41.3 1341	.041 1.05	TAC >93% AL Foil 100%	<7.1 <2.4	<2.1 <0.7	17 55	75Ω	<2.2	79%
V5-5CFB		5 RED, GRN BLUE, WHT YEL	306 139	.831 21.1	.059 1.5													

* Dielectric Strength = 500V AC / 1min. Insulation resistance/3Mft = >1000MΩ.

Model	CABLE / CONNECTOR ASSEMBLY ITEMS					
	CANARE 75Ω Connectors			Cable Stripper	Crimp Tool	Die Set
	BNC	F	RCA			
V-3CFB	BCP-C3F	FP-C3F	RCAP-C3F	TS100E	TC-1	TCD-35CA
V-4CFB	BCP-C4F	FP-C4F	RCAP-C4F	TS100E	TC-1	TCD-451CA
V-5CFB	BCP-C5FA	FP-C5F	RCAP-C5F	TS100E	TC-1	TCD-5CF

Model	NOMINAL ATTENUATION VALUE									
	10MHz	50MHz	135MHz	270MHz	360MHz	720MHz	1GHz	1.45GHz	1.8GHz	2GHz
V-3CFB	1.0 3.2	2.5 8.0	3.7 12.3	5.2 17.2	6.1 20.0	8.9 29.1	10.6 34.7	13.0 42.6	14.7 48.3	15.6 51.2
V-4CFB	0.9 2.9	2.0 6.0	3.1 10.2	4.4 14.5	5.1 16.7	7.4 24.3	8.9 29.1	10.9 35.8	12.4 40.7	13.2 43.3
V-5CFB	0.7 2.2	1.6 5.3	2.5 8.1	3.5 11.5	4.1 13.4	5.9 19.4	7.1 23.3	8.8 29.0	10.1 33.1	10.7 35.1

APPLICATIONS

- BROADCAST TRANSMISSION
- ANALOG & DIGITAL
- ENG/EPF
- INTER-RACK WIRING
- VIDEO PATCH CORDS

L-1.5C2VS

- Micro coax
- 31 AWG



.114

L-3C2VS

- mini coax
- 25 AWG



.217

LV-61S

- RG59 type
- 24 AWG



.240

LV-77S

- 8281F type
- 22 AWG



.303

Structural Return Loss

≥20 dB to 2GHz

Flexible Center Conductor: Stranded Bare Copper

Dielectric: Polyethylene, strips clean

Double Braid Shields: 95% over 92% Bare Copper

Tightly Woven Braid Shield: >94% Bare Copper

LV-77S

An amazingly *flexible version of 8281* double shielded precision 75Ω video coax. Typically used for longer cable runs between equipment, Canare LV-77S offers good return loss characteristics and excellent signal isolation. Available in 10 different non-glare PVC jacket colors.

LV-61S

Canare's No.1 Selling Coax. A lightweight, very flexible RG59B/U equivalent that is perfect for all video facility equipment interfacing, ENG/OB work and video patch cord assemblies. Our smooth non-glare finish PVC jackets are available in 10 distinctive colors (including **Chroma-Key Blue!**) and will stay flexible even in sub-zero weather!

L-3C2VS

Our thinnest 75Ω coax is both lightweight and super flexible, an ideal choice for all short run inter-rack control room wiring. This is the same cable type being used inside our most popular RGB component video cable; V-3C series.

Model	COLORS AVAILABLE									
	BLK	BLU	BRN	GRY	GRN	ORN	PPL	RED	WHT	YEL
L-1.5C2VS	■									
L-3C2VS	■	■			■			■		
LV-61S	■	■	■	■	■	■	■	■	■	■
LV-77S	■	■	■	■	■	■	■	■	■	■

Model	Standard Length	Weight Stand. Length lbs. (kgs)	Nom. O. D. inch (mm)	PVC Jacket Thickness inch (mm)	Brittle Point °F (°C)	Cond - AWG (Qty./mil.) Cross Sec. Area	Cond. O.D. inch (mm)	Insul. Type *	Insul. O.D. inch (mm)	Shield Material Coverage	ELECTRICAL PERFORMANCE					
											Cond. D.C.R. Ω/1000ft (Ω/100m)	Shield D.C.R. Ω/1000ft (Ω/100m)	Nom. Cap. (1KHz) pF/ft (pF/mt)	Nom. Imp.	Nom. Attn. (10MHz) dB/1000ft (dB/100m)	Velocity of Prop.
L-1.5C2VS	656ft 200m	5.8 2.6	.114 2.9	0.02 0.5	-22 -30	AC-#31 7/0.09	.011 0.27	PE	.061 1.55	AC >94%	<127.7 <41.9	<9.94 <3.26	21 67	75Ω	29.3 9.6	66%
L-3C2VS	656ft 200m	20 9.1	.217 5.5	.039 1.0	-22 -30	AC-#25 7/7.09	.021 0.54	PE	.122 3.10	AC >94%	<32.1 <10.5	<5.8 <1.9	21 67	75Ω	15 4.9	66%
LV-61S	500ft 153m	19 8.6	.240 6.1	.039 1.0	-22 -30	AC-#24 7/7.88	.024 0.60	PE	.142 3.60	AC >95%	<25.9 <8.5	<4.0 <1.3	21 67	75Ω	13 4.2	66%
LV-77S	500ft 153m	32 14.5	.303 7.7	.035 0.9	-22 -30	AC-#22 7/10.24	.031 0.78	PE	.189 4.80	AC >92% (inner) >95% (outer)	<15.3 <5.0	<1.8 <0.6	21 67	75Ω	10 3.4	66%

* Dielectric Strength = 1000V AC / 1min. Insulation resistance/3Mft = >1000MΩ.

Model	CABLE / CONNECTOR ASSEMBLY ITEMS					
	CANARE 75Ω Connectors			Cable Stripper	Crimp Tool	Die Set
	BNC	F	RCA			
L-1.5C2VS	BCP-C1	-	-	-	TC-1	TCD-1DB
L-3C2VS	BCP-C3B	FP-C3	RCAP-C3A	TS100E	TC-1	TCD-35CA
LV-61S	BCP-C4B	FP-C4	RCAP-C4A	TS100E	TC-1	TCD-451CA
LV-77S	BCP-C77A	-	RCAP-C77	TS100E	TC-1	TCD-5CF

Model	dB/100 ft dB/100m	NOMINAL ATTENUATION VALUE									
		1 MHz	10 MHz	50 MHz	100 MHz	150 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
L-1.5C2VS	0.9 3.0	0.9 2.9	2.9 9.6	6.5 21.5	9.3 30.4	11.3 37.2	13.1 42.9	18.5 60.7	24.5 80.3	27.8 91.1	29.3 96.0
L-3C2VS	0.5 1.5	0.5 1.5	1.5 4.9	3.2 10.4	4.7 15.5	5.8 19.0	6.7 21.9	9.4 31.0	12.5 41.0	14.2 46.5	14.9 49.0
LV-61S	0.4 1.3	0.4 1.3	1.3 4.2	2.7 9.0	4.1 13.3	5.0 16.3	5.7 18.8	8.1 26.6	10.7 35.1	12.1 39.8	12.8 42.0
LV-77S	0.3 1.1	0.3 1.0	1.0 3.4	2.4 7.8	3.3 10.8	4.0 13.2	4.6 15.2	6.6 21.5	8.6 28.4	9.8 32.3	10.4 34.0

APPLICATIONS

- COMPONENT ANALOG VIDEO
- VIDEO WALLS
- VIDEO PROJECTORS
- STUDIO TIE LINES
- CG WORKSTATIONS

V-1.5C

- Micro coax
- 31 AWG



.102

V-3C

- RG59 type
- 25 AWG



.173

V-5C

- 8281F type
- 22 AWG



.237

Structural Return Loss
≥20 dB to 2GHz

Flexible Center Conductor: Stranded Bare Copper

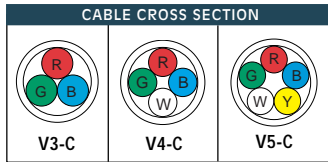
Dielectric: Polyethylene, strips clean

Dense Braid Shield: Bare Copper

Channel ID Colors: Red, Green, Blue, White, Yellow

Special Jacket Fillers: Maintains tight bundle, reduces Shift & Twist

<2.2 nanosecond differential delay



V-1.5C SERIES

New Canare Ultra-Mini V-Series! Offers excellent flexibility and reduced overall jacket OD. Specifically designed for very short run RGB fan-out cables, where robust pulling strength and high bandwidth is not a key factor. Terminate with Canare's newly developed 75Ω BNC Plug BCP-C1 (Not Shown in catalog. Features a Solder Pin and Crimp Sleeve).

V-3C SERIES

Our most popular 75Ω component video series. Roughly equivalent to RG59 performance. A good choice for limited length cable runs or where conduit size may be restricted. Excellent flexibility for untangled pay-out and easy wrap-ups.

V-5C SERIES

Offers 8281 type performance for extra long cable runs over wide bandwidth RGB component analog systems. Also highly recommended for field operations where cable flex strength and maximum durability is a must.

Model	MECHANICAL SPECIFICATIONS											ELECTRICAL PERFORMANCE							
	Std. Lng.	Number of Channels colors	Wgt. Stand. Lng. lbs/ (kgs)	Nom. O.D. inch (mm)	PVC Jacket Thick. inch (mm)	Brittle Point °F (°C)	Indv. Chan. O.D. inch (mm)	Insul. Type *	Insul. O.D. inch (mm)	Cond. - AWG (Qty./mil.) Cross Sec. Area	Cond. O.D. inch (mm)	Shield Coverage	Cond. D.C.R. Ω/1000ft (Ω/100m)	Shield D.C.R. Ω/1000ft (Ω/100m)	Nom. Cap. pF/ft (pF/m)	Nom. Imp.	Nom. Attn. 10MHz dB/1000ft (dB/100m)	Chan. Diff. Delay 100ft (ns)	Velocity of Prop.
V3-1.5C		3 RED, GRN BLUE	16/7	.291 7.4	.032 0.8														
V4-1.5C	328ft 100m	4 RED, GRN BLUE, WHT	21/10	.331 8.4	.039 1.0	-22 -30	.102 2.6	PE	.061 1.55	AC-#31 7/3.5	.011 .27	>94%	<129.2 <42.4	<10.1 <3.3	21 69	75Ω	29.3 9.6	<2.2	66%
V5-1.5C		5 RED, GRN BLUE, WHT YEL	24/11	.362 9.2	.039 1.0														
V3-3C		3 RED, GRN BLUE	33/15 66/30	.453 11.5	.036 0.9														
V4-3C	328ft 100m	4 RED, GRN BLUE, WHT	44/20 88/40	.512 13.0	.043 1.1	-22 -30	.173 4.4	PE	.122 3.1	AC-#25 7/7.09	.021 0.54	>97%	<32.1 <10.5	<3.7 <1.1	21 67	75Ω	15.0 4.9	<2.2	66%
V5-3C	656ft 200m	5 RED, GRN BLUE, WHT YEL	53/24 106/48	.559 14.2	.043 1.1														
V3-5C		3 RED, GRN BLUE	51/23 102/46	.611 15.5	.047 1.2														
V4-5C	328ft 100m	4 RED, GRN BLUE, WHT	66/30 132/60	.674 17.1	.047 1.2	-22 -30	.237 6.0	PE	.189 4.8	AC-#22 7/10.24	.031 0.78	>94%	<15.5 <5.1	<3.7 <1.2	21 67	75Ω	10.0 3.4	<2.2	66%
V5-5C	656ft 200m	5 RED, GRN BLUE, WHT YEL	84/38 168/76	.756 19.2	.055 1.4														

* Dielectric Strength = 500V AC / 1min. Insulation resistance/3Mft = >1000MΩ.

Model	CABLE / CONNECTOR ASSEMBLY ITEMS			Cable Stripper	Crimp Tool	Die Set
	CANARE 75Ω Connectors					
	BNC	F	RCA			
V-1.5C	BCP-C1	-	-	-	TC-1	TCD-1DB
V-3C	BCP-C3B	FP-C3	RCAP-C3A	TS100E	TC-1	TCD-35CA
V-5C	BCP-C5B	FP-C5	RCAP-C5A	TS100E	TC-1	TCD-35CA

Model	dB/100 ft dB/100m	NOMINAL ATTENUATION VALUE									
		1 MHz	10 MHz	50 MHz	100 MHz	150 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
V-1.5C	0.9 3.0	2.9 9.6	6.5 21.5	9.3 30.4	11.3 37.2	13.1 42.9	18.5 60.7	24.5 80.3	27.8 91.1	29.3 96.0	
V-3C	0.5 1.5	1.5 4.9	3.2 10.4	4.7 15.5	5.8 19.0	6.7 21.9	9.4 31.0	12.5 41.0	14.2 46.5	14.9 49.0	
V-5C	0.3 1.1	1.0 3.4	2.4 7.8	3.3 10.8	4.0 13.2	4.6 15.2	6.6 21.5	8.6 28.4	9.8 32.3	10.4 34.0	

THE STAR QUAD STORY

Canare Star Quad obtains its name from the 4-conductor style construction that minimizes the “loop area” between twists of the conductors. This “double balanced” pairing, reduces susceptibility to electromagnetically induced noise. The improvement in noise rejection is so noticeable that even SCR dimmer noise (stage lighting consoles) is reduced to less than 1/10 the level found in other 2-conductor microphone cables.

Canare Star Quad is designed for use with microphones but is also excellent for all line-level signals (e.g. mixer to power amps). The 4-conductor Star Quad arrangement cancels electromagnetically induced noise from

SCR dimmer packs, fluorescent lighting ballasts and AC power transformers. Handling noise is prevented by use of cotton filler material. Excellent frequency response is maintained due to special irradiated polyethylene insulation which provides a low capacitance dielectric.

Canare Star Quad cable is super flexible. We use large numbers of thin wire strands in the copper conductors and overall braided shield. We extrude a special compound PVC outer jacket that remains pliant at extremely low temperatures with no wait between cold shipping and installation.

Filler

Canare selects cotton, jute and/or exotic polyester fibers for packing. These fillers prevent stretching and twisting of the inner conductors which can cause noise. Additionally, paper, Mylar and/or cloth tape, bind conductors so cables hold their shape.

Conductors

All Canare microphone cables utilize high-conductivity, annealed copper wires, stranded to form flexible conductors and shields.

Insulation

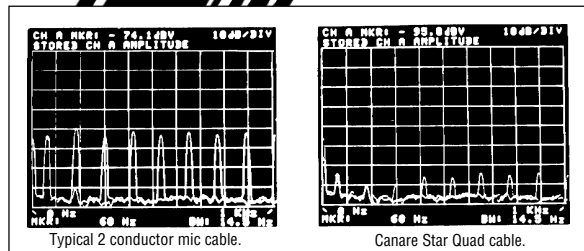
Canare Cables utilize special polymer compounds that reduce capacitive “R-C” filter roll off within the cable and prevent high voltage breakdown. By irradiating the material, the polymer becomes extensively cross-linked, chemically inert, water resistant, and remains flexible at very low temperatures. Irradiated PE is superior to ordinary polyethylene because it is heat resistant. Canare insulation will not shrink back, flow or char when soldering, so you save initial and rework time, and achieve more reliable connections.

Jacket

Canare uses specially formulated PVC compounds that combine to make a tough, strong and durable outer jacket with excellent flexibility. These qualities are retained even at very low temperatures, so Canare Cables will not stiffen or crack. Available in 10 attractive colors.

Shield

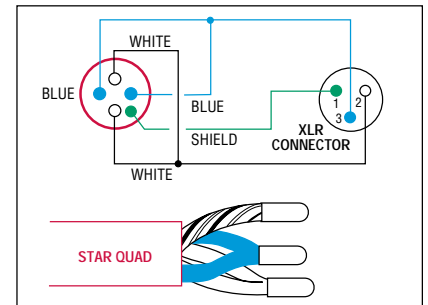
Canare does *not* use spiral (serve) shields because they can spread apart with use. Our shields are more difficult to manufacture because we use many thin copper strands in a densely woven braid. The shields are super flexible and offer outstanding noise rejection.



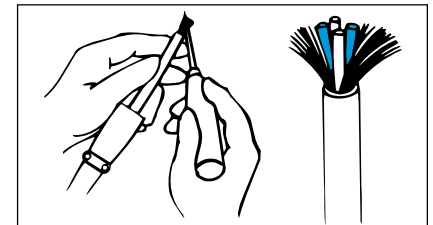
TECHNICAL NOTE The signal generated by a microphone during quiet periods can be very low in level, -70dB to -120dB (0.3 millivolts to 1 microvolt). The cable that must carry this signal to the mixer is very sensitive to Electromagnetic Interference (EMI), Radio Frequency Interference (RFI) and electrostatic coupling of hum and noise. Mechanical vibration, bending, flexing (handling noise) and ambient temperature fluctuations can cause detrimental capacitance changes within the microphone cable. Canare Cables are carefully designed and manufactured to very close tolerances using the highest quality materials available so that low level microphone circuits will not be affected by these outside disturbances. The difference is clearly measurable and audible.

For a more detailed illustration, please request our Technical White Paper: “Evaluating Microphone Cable Performance and Specifications.”

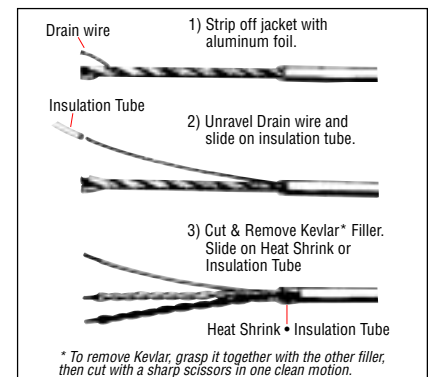
In order to maximize noise rejection, Star Quad must be properly wired to the XLR-3 connector (or terminal block).



Because the shield density on Canare Cable is very high, it is somewhat difficult to push back the braid and pull the inner conductors through. Instead, we strongly recommend unbraiding the shield by “combing” it out with a pointed tool, beginning at the end of the cable.



Terminating L-4E6S and L-4E5C (Braid Shield)



Terminating L-4E5AT and L-4E6AT (Foil Shield)

APPLICATIONS

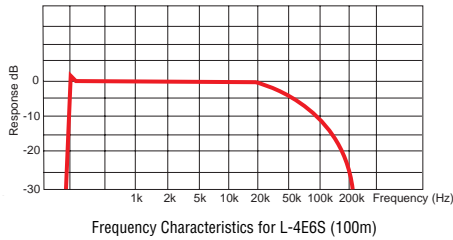
- MICROPHONES
- AUDIO RACK WIRING
- PA SYSTEMS
- AUDIO PATCH CORDS

FEATURES

- Copper Braid or Aluminum Foil Shields
- Cross-Linked PE Insulation
- Reduced Handling Noise
- Rejects EMI and RFI
- 10 Matte Color Jacket Selections
- Flexible in Extreme Cold Weather



For Portable Applications
Braided Copper Shield

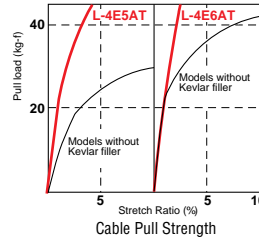


L-4E6S

The premier Star Quad cable for all hand held microphone applications. Flexible, satin smooth to the touch and extra-strong, this standard diameter, 21 AWG cable fits perfectly in all XLR-type audio connectors. Forty separate strands in each conductor eliminate breakage due to flexing. Available in 10 beautiful matte finish color jackets.

L-4E5C

A narrow profile version of L-4E6S. Specifically designed to save space and reduce weight during remote field expeditions or confining installations.

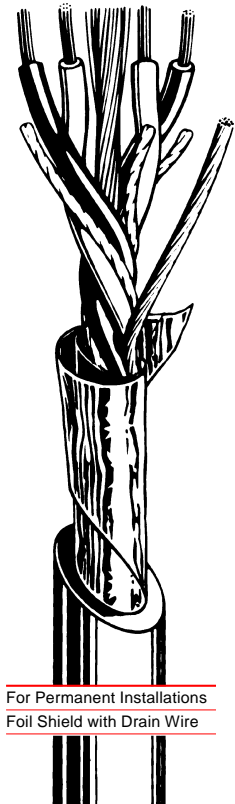


L-4E6AT

A 20 AWG Star Quad cable specifically designed for point to point wiring in fixed installations. Aluminum Foil Shielding provides 100% coverage. Slick, easy to pull PVC Jacket. Cable internally reinforced with Dupont Kevlar 29 filler, stronger than steel, can resist stretching or kinking of wires when pulled through conduit bends. Foil shield & drain wire strips easily for quick assembly work (1/3 the assembly time of braided shields). Irradiated PE conductor insulation resists solder iron meltdown.

L-4E5AT

A 22 AWG narrow profile Star Quad audio cable with the same shield, drain wire and Kevlar construction style as L-4E6AT.



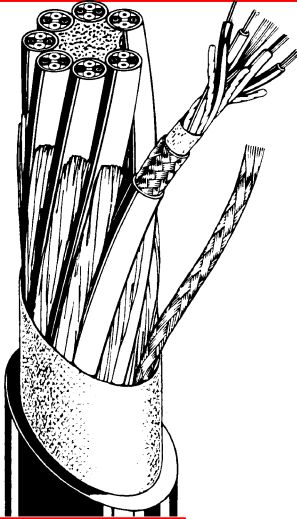
For Permanent Installations
Foil Shield with Drain Wire

COLORS AVAILABLE										
Model	BLK	BLU	BRN	GRY	GRN	ORN	PPL	RED	WHT	YEL
L-4E6S	■	■	■	■	■	■	■	■	■	■
L-4E5C	■	■	■	■	■	■	■	■	○	■
L-4E6AT	●	■	■	■	■	■	■	■	○	■
L-4E5AT	●	■	■	■	■	■	■	■	○	■

□ = Standard Stock ○ = Special Order

Model	MECHANICAL SPECIFICATIONS										ELECTRICAL PERFORMANCE / QUAD						
	Standard Length	Wgt. Stand. Length	Nom. O.D.	Jacket Nom. Thick.	Brittle Point	No. of Cond.	Insul. Type * Thick.	Cond - AWG (Qty./mil) Cross Sec. Area mil. ²	Pitch Twist Quad	Shield Coverage	Cond. D.C.R.	Shield D.C.R.	Nom. Cap. ***	Nom. Cap. †	Nom. Imp.	Nom. Atten.	Group Delay Time
		(lbs)	inch (mm)	inch (mm)	°F (°C)		mil	**Quad AWG	inch (mm)		Ω/1000ft (Ω/100m)	Ω/1000ft (Ω/100m)	pF/ft (pF/m)	pF/ft (pF/m)	(Ω)	V/1000ft (V/100m)	nS/ft (nS/m)
L-4E6S	656 ft 200m 1000 ft 305m	24 11 35 16	.236 6.00	PVC .044 1.12	-56 -49	4 2 Blue 2 Wht	IPE 15.7	AC - #24 40/3.15 310 #21	.79 20	>95% TAC Braid	<29.9 <9.8	<9.1 <3.0	46 150	57 185	44	0.9 0.3	1.80 5.9
L-4E5C	656ft 200m	18 8	.189 4.80	PVC .032 0.80	-56 -49	4 2 Blue 2 Wht	IPE 11.8	AC - #26 30/3.15 232.5 #23	.71 18	>96% TAC Braid	<39.7 <13.0	<7.6 <2.5	50 162	61 200	40	0.9 0.3	1.71 5.6
L-4E5AT	656ft 200m	16 7	.197 5.00	PVC .039 1.03	-22 -30	4 2 Blue 2 Wht	IPE 12.6	AC - #25 16/4.75 279 #22	.83 21	100% Alum. Tape ††	<32.7 <10.7	—	50 164	68 222	37	0.9 0.3	1.71 5.6
L-4E6AT	656ft 200m	23 10	.244 6.20	PVC .047 1.20	-22 -30	4 2 Blue 2 Wht	IPE 15.7	AC - #23 12/7.09 481 #20	.99 25	100% Alum. Tape †	<19.4 <6.4	—	46 150	64 210	37	0.6 0.2	1.68 5.5

*Dielectric Strength = 500V AC / 1min. Insulation resistance/3Mft = >1000MΩ. ** Effective AWG of combined twin conductors. *** Capacitance between twin Blue and twin White Conductors. † Capacitance between conductors to shield. †† Drain Wire #23 AWG. ††† Drain Wire #25 AWG.

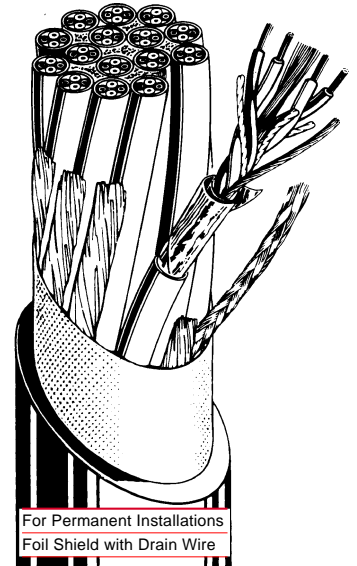


For Portable Applications
Braided Copper Shields

L-4E3-P

A Multichannel Star Quad Snake cable with braided shields. Each channel is completely isolated and consists of 4 conductors surrounded by an overall braided shield encased in a color coded striped PVC jacket. Fine conductor stranding for flexibility, facilitates roll up and easy payout. The four conductor design provides superior EMI and RFI noise rejection in problem areas on stage. Excellent crosstalk characteristics allow vastly different signals (-120dB mic, +4dB line, +10dB time code levels) to be used in adjacent channels.

Note: All Canare DT12 Snake assemblies are built using our road-worthy and flexible L-4E3-12P cable.



For Permanent Installations
Foil Shield with Drain Wire

L-4E4-AT

A 100% shielded Canare Star Quad Multichannel Snake cable, designed for all fixed audio installations. Each four conductor channel is completely isolated and contains Kevlar 29 for tensile pulling strength. Individual foil shield, drain wire and color banded PVC channel jacket strips easily for quick on-site termination.

MECHANICAL SPECIFICATIONS													
Model	Standard Length	No. of Quad Channels	Weight 328ft 100m lbs/ (kgs)	Nom. O.D. inch	PVC Jacket Nom. Thick. inch/ (mm)	Brittle Point °F (°C)	Number of Cond. (4 per Channel)	Channel O.D. Inch (mm)	Channel Jacket Nom. Thick. mil	Insul. Type * Thick mil	Cond - AWG (Qty./mil) Cross Sec. Area (mil. ²) ** Quad AWG	Pitch Twist Quad Inch (mm)	Shield Coverage Channel Drain Wire (Bundle Drain Wire)
L-4E3-2P	328ft 100m	2	18/8	.350	.032/0.8	-22 -30	8	.134	PVC	IPE	AC-#28	<0.63	AC Braid >93%
L-4E3-4P		4	31/14	.429	.043/1.1		16				7/4.72		
L-4E3-8P		8	57/26	.602	.051/1.3		32				124 #25		
L-4E3-12P	656ft 200m	12	79/36	.685	.051/1.3	-22 -30	48	3.4	11.8	10.6	124 #25	<16	- (20AWG)
L-4E3-16P		16	101/46	.744	.047/1.2		64						
L-4E3-24P		24	154/70	.945	.059/1.5		96						
L-4E4-2AT	328ft 100m	2	18/8	.413	.051/1.3	-22 -30	8	.146	PVC	IPE	AC-#25	<0.83	AL Foil 100%
L-4E4-4AT		4	40/18	.484	.055/1.4		16				16/4.73		
L-4E4-8AT		8	73/33	.665	.059/1.5		32				279 #22		
L-4E4-12AT	656ft 200m	12	95/43	.748	.059/1.5	-22 -30	48	3.7	11.8	12.6	279 #22	<21	23AWG (16AWG)
L-4E4-16AT		16	117/53	.827	.059/1.5		64						
L-4E4-24AT		24	152/69	1.031	.067/1.7		96						

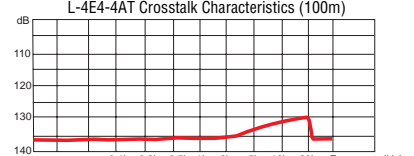
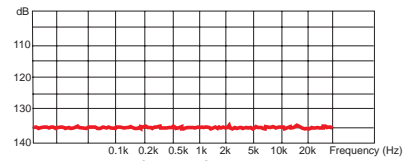
* Dielectric Strength = 500V AC / 1min. Insulation resistance/3Mft = >1000MΩ.

** Effective AWG of combined twin conductors.

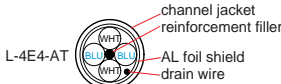
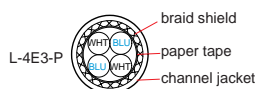
ELECTRICAL PERFORMANCE / QUAD							
Model	Cond. D.C.R. (Ω/1000ft) (Ω/100m)	Shield D.C.R. (Ω/1000ft) (Ω/100m)	Nom. Cap. (pF/ft) (pF/m)	Nom. Cap. (pF/ft) (pF/m)	Nom. Imp. (Ω)	Group Delay Time (ns/ft) (ns/m)	X-Talk Input 3.31V (mV/1000ft) (mV/100m)
L-4E3 SERIES	<75.8 <24.9	<10.3 <3.4	44 145	52 170	43	1.8 5.8	<3 <1
L-4E4 SERIES	<32.9 <10.8	—	50 164	68 222	—	—	—

* Capacitance between twin Blue and twin White Conductors.

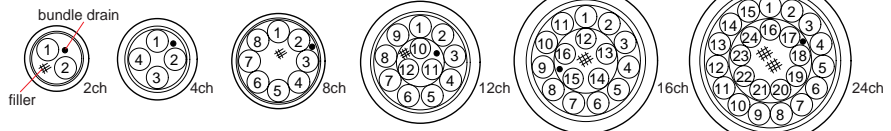
** Capacitance between conductors to shield.



CROSS SECTION
INDIVIDUAL STAR QUAD CHANNEL



L-4E3-P, L-4E4-AT CROSS SECTION MULTI CHANNEL BUNDLE



CHANNEL COLOR CODE • SPIRAL MARKERS ON GRAY JACKET																							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
RED	BLU	YEL	GRN	BRN	BARE	BLK	BLK	BLK	BLK	BLK	ORN	ORN	ORN	ORN	ORN	PNK	PNK	PNK	PNK	PNK	WHT	WHT	WHT
	BLU	YEL	GRN	BRN		BLU	YEL	GRN	BRN		BLU	YEL	GRN	BRN		BLU	YEL	GRN	BRN		BLU	YEL	GRN



L-2T2S

Our standard diameter 2-conductor microphone cable for general purpose audio applications. The high density braided copper shield and two inner conductors (composed of 60 thin strands of copper wire), allow for maximum flexibility and reduced handling noise. A special compound PVC outer jacket resists cracking and tears even in sub-zero environments.

L-2E5

Miniature version of L-2T2S when small size and light weight is a consideration. Useful for patch cables, hidden lavaliere microphones or any balanced audio installation.



L-2B2AT

Canare's thinnest profile audio hook-up wire. Amazingly flexible, with 100% foil shield, drain wire and PVC jacket that strips easily for rapid assembly. Suitable for large cable harness bundles, mixing consoles, tape machines and inter-rack wiring.

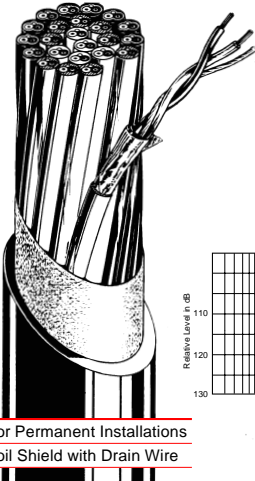
COLORS AVAILABLE						
Model	BLK	BLU	GRY	ORN	RED	YEL
L-2T2S	■	■	■	■	■	■
L-2E5	■	■	■	■	■	■
L-2B2AT	●	■	■	■	■	■

□ = Standard Stock ○ = Special Order

Model	MECHANICAL SPECIFICATIONS										ELECTRICAL PERFORMANCE						
	Standard Length	Wgt. Stand. Lngth.	Nom. O.D.	PVC Jacket Nom. Thick.	Brittle Point	No. of Cond.	Insul. Type * Thick	Cond - AWG (Qty./mil) Cross Sec. Area (mil. ²)	Pitch Twist Quad	Shield Coverage	Cond. D.C.R.	Shield D.C.R.	Nom. Cap. **	Nom. Cap. ***	Nom. Imp.	Nom. Atten.	Group Delay Time
L-2T2S	656ft 200m	20 9	.236 6.00	.039 1.0	-56 -49	2	IPE 19.7	AC-#23 60/3.15 465	<0.79 <20	>94% TAC Braid	Ω/1000ft (Ω/100m)	Ω/1000ft (Ω/100m)	pF/ft (pF/m)	pF/ft (pF/m)	Ω	V/1000ft (V/100m)	mV/1000ft (mV/100m)
L-2E5	656ft 200m	20.2 9	.181 4.6	.035 0.9	-56 -49	2	IPE	AC-#26 30/3.15 322.5	<0.79	>96.7%	<38.7 <12.7	<6.7 <2.2	—	—	—	—	—
L-2B2AT	656ft 200m	6 3	.126 3.2	.012 0.3	-13 -25	2	IPE 12.6	AC-#25 16/4.73 279	<0.99 <25	100% Alum. Tape ****	<31.9 <10.5	—	23 73	37 120	—	—	—
	1640ft 500m	15 7															

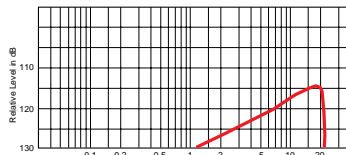
* Dielectric Strength = 500V AC / 1min. Insulation resistance/3Mft = >1000MΩ. ** Capacitance between Conductors. *** Capacitance between conductors to shield. **** Drain Wire #22 AWG.

MULTICHANNEL AUDIO SNAKE CABLE

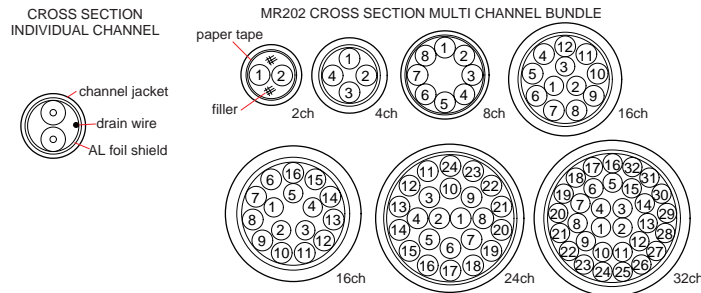


MR202-AT

A practical, 100% foil shielded multichannel audio snake cable for general purpose studio applications. Each individually isolated channel consists of 2 twisted conductors under an easy-to-strip PVC jacket extruded over a foil shield and drain wire. The color striped PVC channel jacket alleviates the need to use costly shrink tubing. Surprisingly flexible, this multichannel cable is perfect for control room layout and interfacing between equipment racks, audio patchbays, mixers and tape decks.



MR202-24AT Crosstalk



For Permanent Installations
Foil Shield with Drain Wire

Model	Standard Length	MECHANICAL SPECIFICATIONS										ELECTRICAL PERFORMANCE				
		No. of Chan. (Pairs)	Wgt. Stand. Length lbs/(kgs)	Nom. O.D. inch	PVC Jacket Thickness inch/(mm)	No. of Cond. (2 Per Chan)	Chan. O.D. Inch (mm)	Chan. Jack. Thick mil	Brittle Point °F (°C)	Insulation Type * Thick mil	Cond - AWG (Qty./mil) Cross Sec. Area (mil. ²)	Pitch of Pairs inch (mm.)	Shield Coverage	Cond. D.C.R.	Nom. Cap. ** pF/ft (pF/m)	Nom. Cap. *** pF/ft (pF/m)
MR202-2AT	328ft 100m	2	12/5	.264	.032/0.8	4	.106 2.7	11.8	-4 -20	IPE	<.99 <25	100% Alum. Tape +	<32.5 <10.7	23.2 76	43.3 142	
MR202-4AT		4	17/8	.299	.032/0.8	8										
MR202-8AT		8	35/16	.433	.039/1.0	16										
MR202-12AT		12	46/21	.500	.047/1.2	24										
MR202-16AT		16	57/26	.551	.047/1.2	32										
MR202-24AT		24	86/39	.685	.051/1.3	48										
MR202-32AT		32	88/40	.752	.059/1.5	64										

* Dielectric Strength = 500V AC / 1min. Insulation resistance/3Mft = >1000MΩ. ** Capacitance between Conductors. *** Capacitance between conductors to shield. † Drain Wire #25 AWG.

MR202-AT CHANNEL COLOR CODE

Unit No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
Insulator Color*	BRN	RED	ORN	YEL	GRN	BLU	PPL	GRY	WHT	BLK	BRN	RED	ORN	YEL	GRN	BLU	PPL	GRY	WHT	BLK	BRN	RED	ORN	YEL	GRN	BLU	PPL	GRY	WHT	BLK	BRN	RED
Spiral Marker	BRN	RED	ORN	YEL	GRN	BLU	PPL	GRY	WHT	BLK		RED	ORN	YEL	GRN	BLU	PPL	GRY	WHT	BLK	BRN		ORN	YEL	GRN	BLU	PPL	GRY	WHT	BLK	BRN	RED
Inner Jacket Color	BLK										BRN										RED											

NOTE: Identify the conductor by Spiral Marker and color of Inner Jacket. *Insulator in the unit: one is same color as Spiral Marker and the other is clear.

APPLICATIONS

- ELECTRONIC INSTRUMENTS
- HI-FI INTERCONNECTS
- TEST PROBES
- AUDIO PATCH CORDS
- AMP TO CABINET LEADS

FEATURES

- Stays Flexible even in Sub-Zero Weather
- Oxygen Free Copper Conductor & Shield
- Reduced Microphonic Handling Noise
- Low Capacitance & Resistance



- Conductor**
Extra thick 18 AWG Center Conductor composed of 127 strands of Oxygen Free Copper, resists nicking and corrosion at solder joint. This robust Conductor has been specially designed to cut power loss on Hi-Z guitar pickups and all hot musical instrument signals.
- Insulation**
Excellent frequency response results from using a special polyethylene dielectric that offers low capacitance and low series resistance.
- Special Inner Shield**
We use a proprietary conductive polyvinyl carbon sheath that helps dissipate microphonic handling noise from high gain stage amplification.
- Outer Shield**
Canare uses a special high density braid that is tightly woven with many thin strands of Oxygen Free Copper. Our GS-Series professional level instrument cable will withstand severe flexing, nightly stage workouts & heavy duty studio use.
- Jacket**
Tough but flexible PVC jacket resists tears and cracks. Stays pliant and will not stiffen, even at sub-zero temperatures. Available in a variety of smooth, satin matte finishes.

COLORS AVAILABLE					
Model	BLK	BLU	ORN	RED	YEL
GS-6	■	■	■	■	■
GS-4	■	■	■	■	■
□ = Standard Stock		○ = Special Order			

Model	Stand. Length	Wgt. Stand. Lng.	MECHANICAL SPECIFICATIONS						ELECTRICAL PERFORMANCE			
			Nom. O.D.	PVC Jacket Nom. Thick.	Brittle Point	No. of Cond.	Insul. Type * Thick.	Cond - AWG (Qty./mil) Cross Sec. Area (mil. ²)	Dual Shield Coverage	Chan. D.C.R.	Shield D.C.R.	Nom Cap **
		lbs (kgs)	inch (mm)	inch (mm)	°F (°C)		mil			Ω/1000ft (Ω/100m)	Ω/1000ft (Ω/100m)	pF/ft at 1KHz (pF/m at 1KHz)
GS-6	656ft 200m	22 10	.228 5.8	.039 1.0	-56 -49	1	PE 33.5	OFC - #18 127/3.94 1550	OFC > 92% Braid + Carbon Sleeve	<5.6 <1.8	<7.6 <2.5	49.0 160
GS-4	656ft 200m	12 5	.157 4.0	.028 0.7	-56 -49	1	PE 19.7	OFC - #22 50/3.94 604.5	OFC > 93% Braid Carbon Sleeve	<14.7 <4.8	<9.8 <3.2	47.0 154

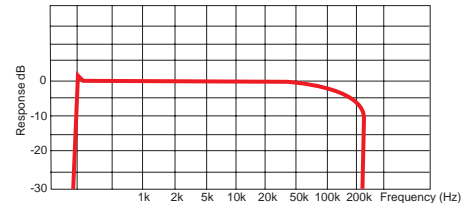
* Dielectric Strength = 500V AC / 1min. Insulation resistance/3Mft = >1000MΩ.
** Capacitance between conductor to shield.

GS-6

A specially designed Oxygen Free Copper 18 AWG cable for connecting Guitar/Bass or Keyboards to amps, mixers, effects pedals and all outboard signal processing gear. Low capacitance and low series resistance provides improved frequency response (flat to 50kHz). A bright, ringing characteristic sound is preserved, even when using HI-Z guitar pickups with long cable runs. The proprietary double Carbon/Braid Copper shield construction eliminates microphonic handling noise, especially on stage where amps are often set at maximum volume levels. Also highly recommended for Amp Head to Speaker Cabinet leads.

GS-4

Miniature size 22 AWG version of GS-6. Good choice for short run unbalanced audio interconnects and general instrumentation cables.



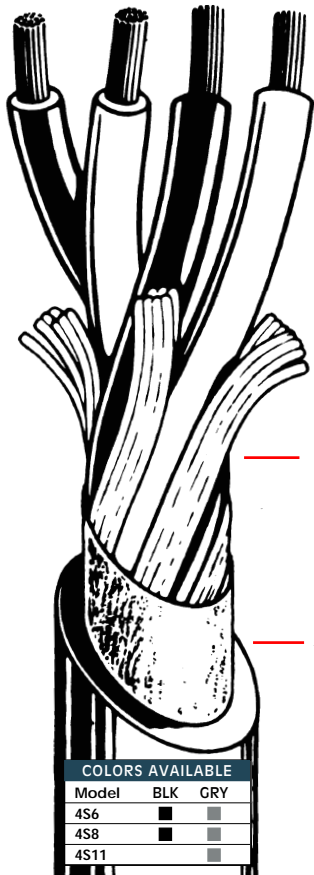
GS-6 Frequency Characteristics (100m, 100Ω > 1MΩ load)

Important Wiring Note:
Canare GS-4 and GS-6 utilize a specially designed **Conductive Carbon Plastic Shield** to protect against undesirable microphonic handling noise. This inner sleeve can cause a short circuit if allowed to come in contact with the OFC center conductor. Please be very careful when stripping cable and remove this material from exposed insulation before soldering.

APPLICATION

FEATURES

- Super Flexibility, even in Sub-Zero Weather
- Star Quad Design Reduces EMI Noise
- Low Capacitance & Resistance



- Conductor**
Canare uses many thin strands of annealed copper for excellent flexibility and long life reliability.
- Insulation**
Special polyethylene dielectric offers low capacitance and low series resistance for improved frequency response over long distance cable runs. Star Quad configuration improves damping factor at the speaker. Individual conductor Color Coding (Red, Clear Red, White, Clear White) allows easy continuity checks.
- Filler**
4S-Series speaker cables use tightly packed cotton fibers to help maintain cable shape and keep conductors from shifting.
- Jacket**
Durable PVC outer jacket. Stays flexible, resists tears and cracks. Will not stiffen even at sub-zero temperatures.

COLORS AVAILABLE

Model	BLK	GRY
4S6	■	■
4S8	■	■
4S11	■	■

MECHANICAL SPECIFICATIONS										ELECTRICAL PERFORMANCE/ QUAD WIRED	
Model	Std. Lng.	Wt. Std. Lng.	Nom. O.D.	Jacket Thick. PVC	Brittle Point	Number of Conductors	Cond. - AWG (Qty./mil) Cross Sec. Area (mil. ²)	Pitch of Quad	Insul. Type	Cond. D.C.R.	Nom. Cap. ***
	lbs (kgs)	inch (mm)	inch (mm)	°F (°C)			* Quad AWG	in. (mm)	mil	Ω/1000ft (Ω/100m)	pF/ft (pF/m)
4S6	656ft	24	.252	.032	-56 -49	4 RED, CLR RED WHT, CLR WHT	AC-#20	<1.78	PE	11.4	38
	200m	11	6.4	0.8			791	<45	19.7	3.7	125
							#17				
4S8	656ft	42	.327	.043	-56 -49	4 RED, CLR RED WHT, CLR WHT	AC-#16	<2.76	PE	4.5	44
	200m	19	8.3	1.1			1969	<70	19.7	1.5	145
							#13				
4S11	656ft	70	.421	.047	-56 -49	4 RED, CLR RED WHT, CLR WHT	AC-#14	<4.73	PE	2.6	45
	200m	32	10.7	1.2			41/10.24	<120	27.6	0.9	146
							#11				

* Effective AWG of combined twin conductors. *** Capacitance between twin Red and twin White Conductors.
 ** Dielectric Strength = 500V AC / 1min. Insulation resistance/3Mft = >1000MΩ.

DAMPING FACTOR: Always try to keep speaker cables as short as possible and select cable models that offer a higher damping factor; 20-50 for music (i.e. concert sound) and 10-20 for speech (i.e. sport stadiums).

The greater the damping factor (DF), the better the ability to control speaker excursion to create sharp, clear quality in the low end frequency range.

$$\text{Damping Factor} = \frac{\text{speaker impedance}}{\text{power amp. output impedance} + \text{speaker cable cond. resistance}}$$

Values calculated assuming power amplifier output at 0.05%

Model	Pair cond. resist. (Ω/100m) & cross-sec (mm ²)	Cond. resist. (Ω/100m) for return path	Cable length/damping factor	
			DF=20	DF=50
4S6	1.87/1.0mm ² AWG	3.7	9.5m	3.0m
4S8	0.75/2.5mm ² AWG	1.5	23.3	7.3
4S11	0.43/4.3mm ² AWG	0.87	40.2	12.6

As the formula to the left shows, a higher conductor resistance causes a lower damping factor, which prevents even top quality power amps from performing at peak optimum levels.

4S6 (17 GAUGE / STAR QUAD)

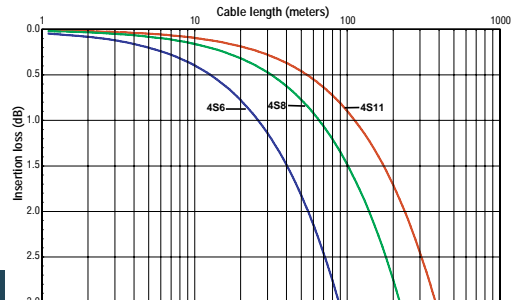
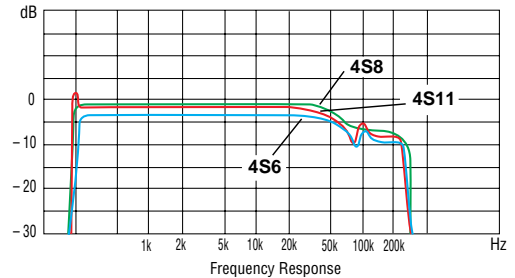
A lighter gauge, very flexible speaker cable, using 4 x 20 AWG insulated conductors. Good choice for high frequency components, short line runs or DC power cords.

4S8 (13 GAUGE / STAR QUAD)

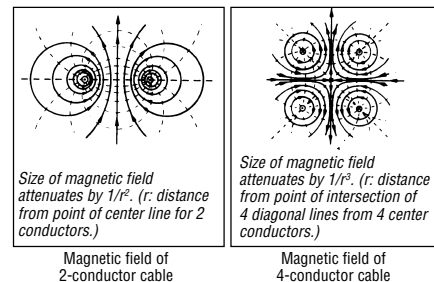
Our most popular 4 x 16 AWG flexible speaker cable. Perfect choice for all broad spectrum speaker systems and general purpose power amp setups. Good on Bi-Amp rigs.

4S11 (11 GAUGE / STAR QUAD)

Recommended for long runs and low end Power Amplifier sub-woofer systems. Heavy duty 4 x 14 AWG conductors.



Insertion loss of 4S series speaker cable



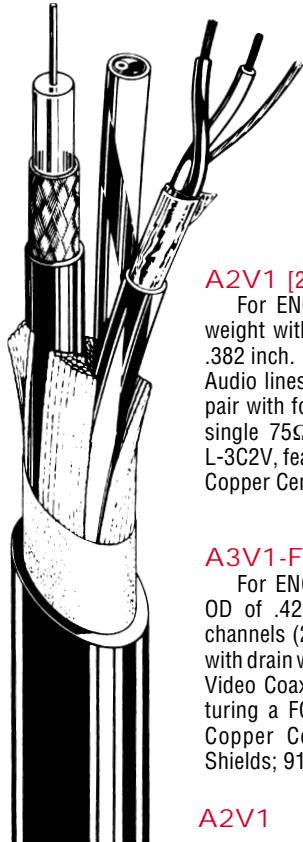
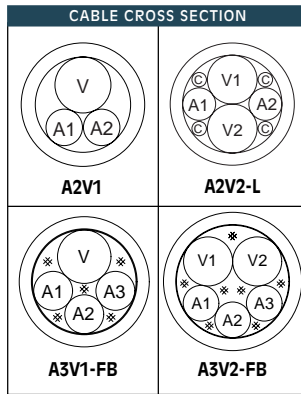
TECH NOTE: Speaker cable must accommodate relatively high signal levels, typically tens to hundreds of watts of RMS power. Electromagnetic interference (EMI) can radiate from these speaker lines directly into adjacent low voltage cables (i.e. microphone, video lines, etc.). Canare solves this problem by using a 4-conductor "Star Quad" configuration in all of our 4S-Series speaker cables. Because every conductor is located the same distance from the center, the opposing magnetic fields are cancelled out. Attenuation of magnetic field radiation is superior when compared to a standard 2-conductor speaker wire.

APPLICATIONS

- OB VANS
- ENG/EFP
- A/V COMBO SNAKES

FEATURES

- Audio + Video in Same Cable Bundle**
- Stays Flexible even in Sub-Zero Weather**
- Special Fillers prohibit Cable Component Twisting**
- Use with Canare 75Ω BNC, F or RCA Crimp Plugs**



A2V1 [2 AUDIO, 1 VIDEO]

For ENG/EFP/OB applications. Light-weight with a very thin profile OD of just .382 inch. Includes two 25 AWG balanced Audio lines (Canare L-2B2AT type twisted pair with foil shield and drain wire) plus a single 75Ω Video Coax channel (Canare L-3C2V, featuring a PE dielectric with Solid Copper Center Conductor).

A3V1-FB [3 AUDIO, 1 VIDEO]

For ENG/EFP/OB applications. Narrow OD of .421 inch. Three balanced Audio channels (25 AWG twisted pair, foil shield with drain wire) plus a single 75Ω Low Loss Video Coax channel (Canare L-3CFB, featuring a FOAM core dielectric with Solid Copper Center Conductor and double Shields; 91% Braid over 100% Foil).

A2V1

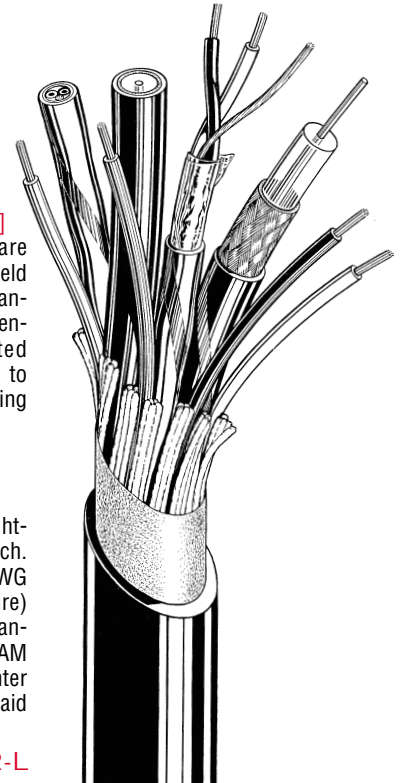
A2V2-L [2 AUDIO, 2 VIDEO, 4 COMM]

Two balanced Audio lines (Canare L-2B2AT type twisted pair with foil shield and drain wire), two 75Ω Video coax channels (Canare L-3C2V, featuring a Solid Center Conductor) plus four insulated "intercom/remote control tally lines" to trigger camera, VCR or other switching functions. OD .433 inch.

A3V2-FB [3 AUDIO, 2 VIDEO]

For ENG/EFP/OB applications. Light-weight with a reduced OD of only .488 inch. Three balanced Audio channels (25 AWG twisted pair, foil shield with drain wire) plus two Low Loss 75Ω Video Coax channels (Canare L-3CFB, featuring a FOAM core dielectric with a Solid Copper Center Conductor and Double Shields; 91% Braid over 100% Foil).

A2V2-L



AUDIO + VIDEO COMBO CABLE										
Model	Std. Lng.	Nom. O.D.	Weight Standard Length	Channel Unit	Cond. Strand Qty./mm	Insulation Type *	Shield Coverage	Channel Jacket	Channel Unit OD	Nom. Imp.
		Inch (mm)	lbs. (kgs)	Type x Qty	AWG	Color Code		PVC Color Code	in (mm)	
A2V1	328ft 100m	.382	24 11	V Coax 3C-2V x 1	1/0.5 #24	PE CLEAR	>97% AC Braid	BLK	.173 (4.4)	75Ω
	656ft 200m	9.7	48 22	A Twisted Pair 2B2-AT x 2	16/0.12 #25	IPE ORN, WHT	100% AL FOIL + TC Drain Wire	GRY/RED, GRY/BLU	.126 (3.2)	-
A2V2-L	328ft 100m	.433	35 16	V Coax 3C-2V x 2	1/0.5 #24	PE CLEAR	>97% AC Braid	BLK/YEL, BLK	.173 (4.4)	75Ω
	656ft 200m	11.0	70 32	A Twisted Pair 2B2-AT x 2	16/0.12 #25	IPE ORN, WHT	100% AL FOIL + TC Drain Wire	GRY/RED, GRY/BLU	.126 (3.2)	-
				C Control Line 0.2mm ² x 4	18/0.12 #24	PE RED, YEL, BLU, WHT	-	-	.051 (1.3)	-
A3V1-FB	656ft 200m	.421	53 24	V Coax 3C-FB x 1	1/0.65 #22	FOAM PE WHT	>91% TAC Braid 100% AL FOIL	YEL	.173 (4.4)	75Ω
		10.7		A Twisted Pair 2B2-AT x 3	16/0.12 #25	IPE ORN, WHT	100% AL FOIL + TC Drain Wire	GRY/YEL GRY/RED, GRY/BLU	.126 (3.2)	-
A3V2-FB	656ft 200m	.488	75 34	V Coax 3C-FB x 2	1/0.65 #22	FOAM PE WHT	>91% TAC Braid 100% AL FOIL	YEL, WHT	.173 (4.4)	75Ω
		12.4		A Twisted Pair 2B2-AT x 3	16/0.12 #25	IPE ORN, WHT	100% AL FOIL + TC Drain Wire	GRY/YEL GRY/RED, GRY/BLU	.126 (3.2)	-

* Dielectric Strength: 500 VAC/mm. Insulation resistance: > 1000MΩ

Model	75Ω VIDEO CHANNEL / CONNECTOR ASSEMBLY ITEMS					
	CANARE 75Ω Connectors			Cable Stripper	Crimp Tool	Die Set
	BNC	F	RCA			
3C-2V	BCP-C3B	FP-C3	RCAP-C3A	TS100E	TC-1	TCD-35CA
3C-FB	BCP-C3F	FP-C3F	RCAP-C3F	TS100E	TC-1	TCD-35CA

Model	Length	75Ω VIDEO CHANNEL / NOMINAL ATTENUATION			
		10 MHz	30 MHz	275 MHz	800 MHz
3C-2V	dB/100 ft	1.3	2.2	6.7	11.5
	dB/100m	4.2	7.3	22.0	37.6
3C-FB	dB/100 ft	1.0	1.7	5.1	8.7
	dB/100m	3.2	5.5	16.8	28.6

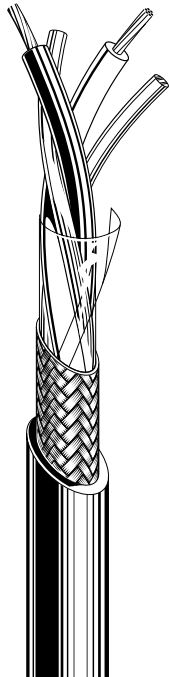
APPLICATIONS

- AES/EBU DIGITAL AUDIO

FEATURES

Twisted Pairs with Braid or Foil Shield

Special PE FILLER RODS maintain constant 110Ω impedance



DA206

Large OD for longest cable runs. Robust construction makes this cable a good choice for all Digital Pro Audio field recording. Maximum recommended AES/EBU Length: 1,180ft (360meters). Jacket color: **BLUE**.

DA202

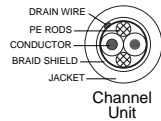
Mini version of DA206. 25 AWG conductors allow use with common IDC Punch Down Block, Digital Audio "110Ω Type" Patchbays. Integral Drain Wire for easy ground wiring. Maximum recommended AES/EBU Length: 590ft (180meters). Jacket color: **BLUE**.

DA202AT

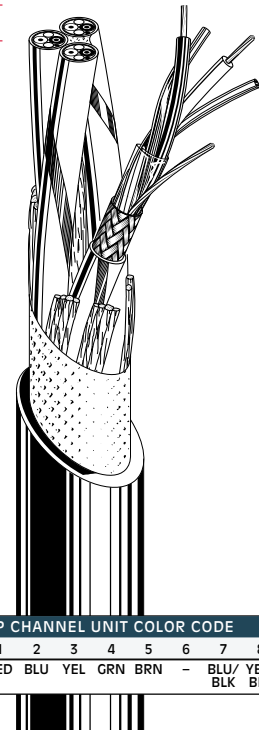
Good choice for short cable runs. 25 AWG conductors suitable for all Rack Wiring applications, especially IDC Punch Down Block Digital Audio "110Ω Type" Patchbays. Foil Shield with Drain Wire allows easy strip, prep and ground wire termination. Maximum recommended AES/EBU Length: 426ft (130meters). Jacket color: **BLUE**.

DA202-P

Multi Channel version of DA202. Available in 2, 4 and 8 channel pairs. 25 AWG conductors allow use with Punch Down Block Audio Patchbays. Integral Drain Wire for easy ground wiring. Maximum recommended Length: 180meters. Overall Jacket color: **BLUE**



DA202-P CHANNEL UNIT COLOR CODE								
Channel No.	1	2	3	4	5	6	7	8
	RED	BLU	YEL	GRN	BRN	-	BLU/	YEL/
							BLK/	BLK/



Model	MECHANICAL SPECIFICATIONS							ELECTRICAL PERFORMANCE						
	Standard Length	Wgt. Stand. Length	Nom. O.D.	Jacket Thickness	Brittle Point	No. of Channels	Insul. Type *	Cond - AWG (Qty./mil) Cross Sec. Area	Shield Coverage	Cond. D.C.R. Ω/1000ft (Ω/100m)	Shield D.C.R. Ω/1000ft (Ω/100m)	Nom. Cap. ** pF/ft (pF/m)	Nom. Cap. + pF/ft (pF/m)	Nominal Impedance
DA206	328ft	17	.287	.035	-56	1	IPE	AC-#20	>95%	<10.1	<4.3	14.6	22.3	110Ω
	100m	8	7.3	0.9	-49		30.3	7/12.60	Braid	<3.3	<1.4	48	73	
	656ft	35												
DA202	328ft	8	.197	.034	-56	1	IPE	AC-#25	>95%	<32.3	<6.8	-	-	110Ω
	100m	4	5.0	0.8	-49		16.9	7/7.09	Braid	<10.6	<2.2			
DA202AT	656ft	9	.157	.012	-56	1	IPE	AC-#25	100%	<32.3	-	-	-	110Ω
DA202-2P	328ft	26	.421	.043	-56	2	IPE	AC-#25	>95%	<32.3	<7.0	-	-	110Ω
	100m	12	10.7	1.1	-49									
DA202-4P	328ft	42	.496	.047	-56	4	IPE	AC-#25	>95%	<32.3	<7.0	-	-	110Ω
100m	19	12.6	1.2	-49		7/7.09								
DA202-8P	328ft	77	.646	.051	-56	8	IPE	AC-#25	>95%	<32.3	<7.0	-	-	110Ω
100m	35	16.4	1.3	-49		7/7.09								

*Dielectric Strength = 500V AC / 1min. Insulation resistance/3Mft = >1000MΩ. ** Capacitance between Conductors. † Capacitance between conductors to shield.

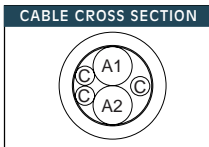
RS-422 CABLE

DATA CABLE



A2C3

Usable for RS-422 signals over short haul equipment interconnect distances. Data channel uses special Foam PE insulation for extra low signal loss.



Star Quad style 64Ω data control cable; also usable for MIDI harness wiring. Four #22 Gauge Individually Color Coded Conductors. 100% Aluminum Foil shield with integral drain wire. Excellent pulling strength. Jacket color: **SEPIA**.



D403-AT

NOMINAL SPECIFICATIONS													
Model	Stand. Length	Nom. O.D.	Weight Standard Length	Unit Channel	Qty. of Unit (Cond.)	Cond. Strand (Qty./mm) Cross Sec. Area (mm²)	AWG Size	Insulation Color Code	Shield Strand (mm/Qty.)	Overall Shield Coverage	Insulation Type *	Channel Jacket	Jacket Nom. Thick. inch (mm)
A2C3	656ft 200m	.260 6.5	24 11	A Digital Data	2 (4)	7/.127 TAC 0.09	#28	A1-RED/WHT A2-BLU/WHT	0.1/37-47 Spiral	92.70% Spiral Shield	Foam Polyethylene	BLK, GRY	.032 0.8
				C Control	1 (3)	11/0.16 TAC 0.22	#24	BLK, BRN RED	Not Available		Vinyl Chloride		
A2C3-SS	656ft 200m	0.276 7.0	32 14.4	A Digital Data	2(4)	7/.127	#28	A1-RED/WHT A2-BLU/WHT	.01/37-47 Spiral	92.70% Spiral Shield	Foam Polyethylene	BLK, GRY	0.036 0.9
				C Control	1(3)	11.0.16 TAC 0.22	#24	BLK, BRN RED	Not Available		Vinyl Chloride		
D403AT	656ft 200m	.205 5.2	36 16	-	1 (4)	TAC 7/7.09	#22	RED, GRN, WHT, YEL	AL Foil 100%		IPE	Sepia	.205 5.2

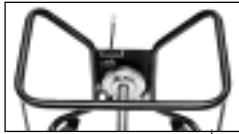
* Dielectric Strength: 500 VAC/min. Insulation resistance: > 1000MΩ

SPECIAL FEATURES

- Durable long lasting black finish**
- Rugged winding handle**
- Roll-around removable casters**
- Snake cable hanger tabs**
- Exit flange port for snake ends**

3 Position Brake Lock System

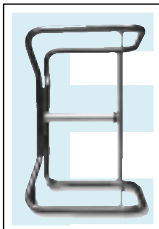
All R-Series models include a 3-position brake lever: (Position 1) **FREE SPOOL**: cable will pull from reel with ease, this position is ideal for rewinding, (Position 2) **SOFT BRAKE**: cable can be pulled from the reel, but friction prevents excess spillage when cable is pulled quickly, (Position 3) **FULL LOCK**: used during transportation, the reel will not rotate, so cable will not spill.



R460S



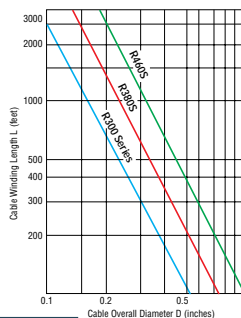
R300S



Tubular Steel Construction
Canare Cable Reels are constructed using tubular steel, with an "E" shaped brace design which makes them all extremely durable. All R-Series Reels use heavy duty permanently lubricated bearings which will perform as new even after years of hard road use.



Special Connector Mounting Plates
The R300L features a special User removable recessed Flange Door and Hub Plate for mounting BNC, F, RCA, or XLR Panel receptacles.



Please use the capacity chart and/or formula to determine length of a given cable that will fit on a specific reel. Formulas are based on loose wrap

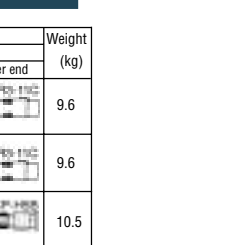
Calculation Formula

- R300 (S,L,CN,BN) $L = \frac{43}{D^2} \times 0.6$ (ft)
- R380S $L = \frac{93}{D^2} \times 0.6$ (ft)
- R380D $L = \frac{85}{D^2} \times 0.6$ (ft)
- R460S $L = \frac{172}{D^2} \times 0.6$ (ft)
- R460C $L = \frac{148}{D^2} \times 0.6$ (ft)

Formula Example:
L-4E3-8P Cable O.D. is .603"
 $93 \div (.603 \times .603) \times .6 = 155$
An R380S Cable Reel will hold approx. 155 feet of

Reel with Cable Assembly		Description	Weight (kg)
Model	Cable reel	Set at inner end	
		Set at outer end	
CR100-CN	R300-CN	XLR3-11C	9.6
		L-4E6G (100m)	
CR100-S	R300-S	XLR3-11C	9.6
		L-4E6G (100m)	
CR90-BN	R300-BN	L-3C2VS (90m)	10.5

Cable Overall Diameter D (inches)



Detachable Cable

CR100-CN (with 100m cable)
L-4E6S (EC100) bundled with R300-CN.
(Set with XLR3-11C at the cable outer end when sold.)

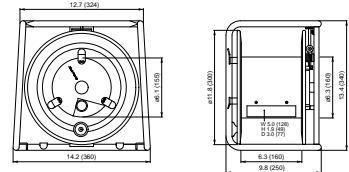
CR90-BN (with 90m cable)
L-3C2VS (DH5C90-S) bundled with R300-BN.

CR100-S (with 100m cable)
L-4E6S (EC100) bundled with R300-S.
(Set with XLR3-11C at the cable outer end when sold.)

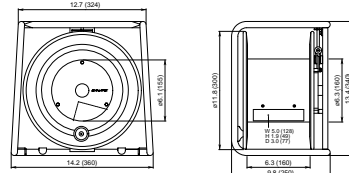
Canare has developed a dependable and road worthy Cable Reel in three useful sizes that keeps cable stored neatly when not in use, yet allows quick deployment without tangles and twisting. A perfect way to facilitate transporting and laying cable. Protect your valuable cable investment with Canare Cable Reels.



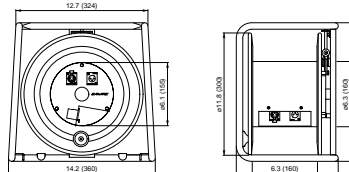
Stackability
All R300 series models have built in stacking tabs, so Cable Reels can be placed one on top of the other for secure transporting and storage.



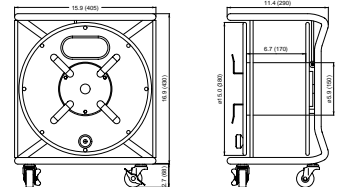
R300S



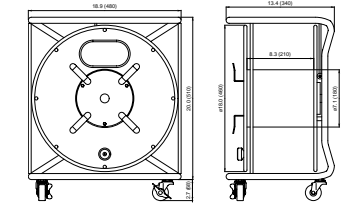
R300L



**R300CN
R300BN**



R380S



R460S

CABLE REEL SPECIFICATIONS							
Model	Size	Weight lbs.	Stackable	Casters	Connector Mounting	Cable Cut-Out	Hanger
R300S	SMALL	9.5	YES	NO	NO	YES	YES
R300L	SMALL	9.5	YES	NO	Hub & Flange	NO	NO
R300CN	SMALL	9.5	YES	NO	Parallel wired M & F XLR on Hub & Flange	NO	NO
R300BN	SMALL	9.5	YES	NO	75Ω BNC Jack 1ea.Hub & Flange	NO	NO
R380S	MED.	17.5	NO	YES	NO	YES	YES
R380D	MED.	17.5	NO	YES	Hub	NO	NO
R460S	LARGE	22.0	NO	YES	NO	YES	YES
R460C	LARGE	22.0	NO	YES	Hub	NO	NO



CR100-CN (with 100m cable)
L-4E6S (EC100) bundled with R300-CN.
(Set with XLR3-11C at the cable outer end when sold.)

CR90-BN (with 90m cable)
L-3C2VS (DH5C90-S) bundled with R300-BN.

CR100-S (with 100m cable)
L-4E6S (EC100) bundled with R300-S.
(Set with XLR3-11C at the cable outer end when sold.)

SNAKE TRUNK

Assembled with super flexible Canare L-4E3-P Star Quad multichannel audio cable, terminated at both ends with a MIL Spec JAE Cannon multipin connector. Dust caps with chain are included.



12 C30 E3

Number of Channels

8, 12, 16, 24
(32 Chan by special order)

Cable Type

E3 = Canare L-4E3-P Star Quad

Cable Length

C10 = 10 meters (33ft)
C30 = 30 meters (98ft)
C50 = 50 meters (164ft)

- 8 & 12 Chnl NK27 Male to Female
- **DT12** & 16 Chnl FK37 Male to Female
- 24Chnl MS32 Female to Female

FANTAIL

All versions are pre-assembled using Canare Star Quad L-4E microphone cable wired to JAE Cannon XLR-3 and multipin bayonet lock connectors. The overall fantail length is 5 feet and each channel is fitted with a large, sliding number collar ring for quick identification. Dust cap with chain included on multipin connector.



12 S2 N 1

Number of Channels

8, 12, 16, 24
(32 Channel by special order)

Multipin Type

1 = Female (entry)
2 = Male (exit)

XLR Configuration

S1 = Female (entry)
S2 = Male (exit)

- N = NK27 Pin (8, 12 Chnl)
- F = FK37 Pin (**DT12**, 16 Chnl)
- MS = MS32 54 Pin (24 Chnl)

CABLE REEL SNAKE

A unique and economical approach to multichannel cable storage and system component integrating. Assembled with a durable R-Series Canare Cable Reel, built-in flange-mounted junction box, hardwired Star Quad L-4E3-P Multichannel audio cable and multipin female Cannon connector. This modular design approach allows simple and secure mating with standard Canare Snakes, Junction Boxes, Pigtails or other Cable Reel Snakes.



16 R30 E3

Number of Channels

8, 12, 16, 24

Cable Length

R30 = 30 meters (98ft)
R50 = 50 meters (164ft)

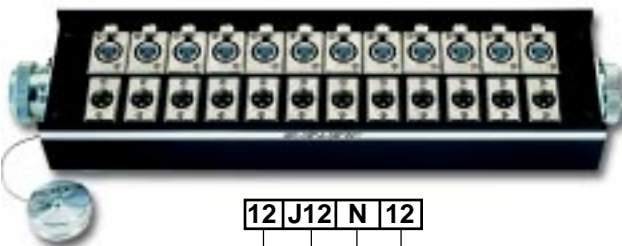
Cable Type

E3 = Canare L-4E3-P Star Quad

- XLR Male & Female parallel wired
- 8 & 12 Chnl NK27 Female Multipin
- 16 Chnl FK37 Female Multipin
- 24 Chnl MS32 Female Multipin

JUNCTION BOX

Typically used at one or both ends of an audio snake. A Canare Junction Box will accept single microphone or line level XLR-3 type cables. The black anodized chassis is constructed from thick gage aluminum (0.16") which is light weight but exceptionally strong. All panel mount receptacles are secured to the chassis with screws (not pop rivets), should service ever be necessary. Skid pads and multipin dust caps with chain are included.



12 J12 N 12

Number of Channels

8, 12, 16, 24
(32 Channel by special order)

XLR Configuration

B1 = Female Only (inputs)
B2 = Male Only (returns)
J12 = Parallel Wired Male & Female

Multipin Type

1 = Female Only (Entry)
2 = Male Only (exit)
12 = Male & Female (feed through)

- N = NK27 Pin (8, 12 Chnl)
- F = FK37 Pin (**DT12**, 16 Chnl)
- MS = MS32 54 Pin (24 Chnl)

CONNECTORS

High quality ITT CANNON, JAE or DDK Multipin bayonet lock and XLR3 connectors are meticulously hand assembled and soldered with a minimum of unshielded wire leads.

Canare 8, 12, 16, 24, 32 channel Snakes are common shield wired via an integral shared return buss. This system is cost effective, saves space, and helps reduce noise and ground loops when used as a discreet audio snake arrangement. **DT12** Snakes are wired with individually isolated channel shields.

(ITT CANNON) XLR3 CONNECTORS TYPICAL FOR ALL CHANNELS



(JAE) FOR 8 & 12 CHANNELS



(JAE) FOR 16 CHANNELS & DT12



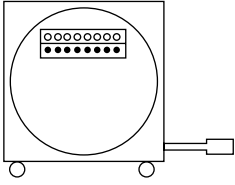
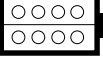
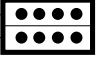
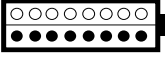
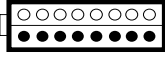
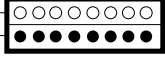
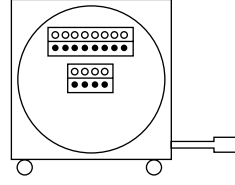

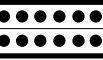
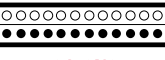
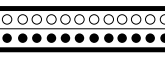
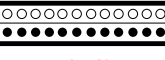
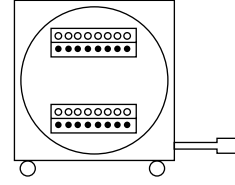
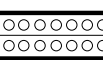
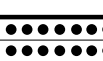
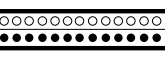
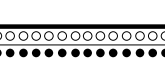
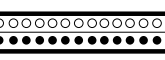
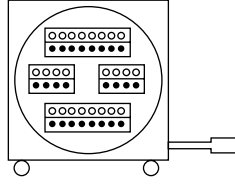
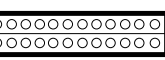
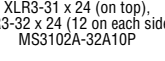
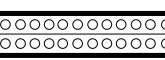
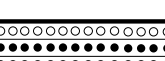
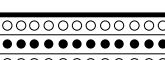
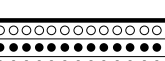
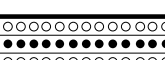
(DDK) FOR 24 CHANNELS



(DDK) FOR 32 CHANNELS



□ ○ Female ■ ● Male

CABLE REEL SNAKE				JUNCTION BOXES			CHANNEL												
L-4E3 Type Cable				Single XLR per channel	Parallel XLR per channel	Parallel XLR per channel MultiPin Feed Through													
<i>D indicates R380 cable reel C indicates R460 cable reel</i>																			
 <table border="1"> <thead> <tr> <th>Length</th> <th>Model</th> <th>Cable reel</th> <th></th> </tr> </thead> <tbody> <tr> <td>30 m</td> <td>8R30E3</td> <td>D</td> <td>XLR3-32 x 8, XLR3-31 x 8,</td> </tr> <tr> <td>50 m</td> <td>8R50E3</td> <td>D</td> <td>NK27-21C</td> </tr> </tbody> </table>				Length	Model	Cable reel		30 m	8R30E3	D	XLR3-32 x 8, XLR3-31 x 8,	50 m	8R50E3	D	NK27-21C	 <p>8B1N2 XLR3-31 x 8, NK27-32S</p>  <p>8B2N1 XLR3-32 x 8, NK27-31S</p>	 <p>8J12N2 XLR3-31 x 8, XLR3-32 x 8, NK27-32S</p>  <p>8J12N1 XLR3-31 x 8, XLR3-32 x 8, NK27-31S</p>	 <p>8J12N12 XLR3-31 x 8, XLR3-32 x 8, NK27-31S, NK27-32S</p>	8
Length	Model	Cable reel																	
30 m	8R30E3	D	XLR3-32 x 8, XLR3-31 x 8,																
50 m	8R50E3	D	NK27-21C																
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Length	Model	Cable reel																	
30 m	12R30E3	D	XLR3-32 x 12, XLR3-31 x 12,																
50 m	12R50E3	C	NK27-21C																
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Length	Model	Cable reel																	
30 m	16R30E3	D	XLR3-32 x 16, XLR3-31 x 16,																
50 m	16R50E3	C	FK37-21C																
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Length	Model	Cable reel																	
30 m	24R30E3	C	XLR3-32 x 24, XLR3-31 x 24, MS3106B-32A-10S																
<p>ALL 32 CHANNEL SNAKE COMPONENTS ARE SPECIAL ORDER ITEMS</p>					 <p>32B12MS XLR3-31 x 32, XLR3-32 x 32, MS3102A36-73P</p>  <p>32B12MWF11 XLR3-31 x 32, XLR3-32 x 32, MS3102A36-73P x 2, FK37-31S x 2</p>	 <p>32B12MSW XLR3-31 x 32, XLR3-32 x 32, MS3102A36-73P x 2</p>  <p>32B12MF11 XLR3-31 x 32, XLR3-32 x 32, MS3102A36-73P x 1, FK37-31S x 2</p>	32												

1 meter = 3.28 feet, 10 m = 33 ft, 30 m = 90 ft, 50 m = 164 ft

□ ○ Female ■ ● Male

CHANNEL	SNAKE TRUNKS	FANTAILS	CONNECTORS																																																																																																																																																																																							
8	<table border="1"> <thead> <tr> <th>Length</th> <th>Model</th> <th>Connectors</th> </tr> </thead> <tbody> <tr> <td colspan="3">L-4E3 Type Cable</td> </tr> <tr> <td>10 m</td> <td>8C10E3</td> <td>NK27-21C,</td> </tr> <tr> <td>30 m</td> <td>8C30E3</td> <td>NK27-22C</td> </tr> <tr> <td>50 m</td> <td>8C50E3</td> <td></td> </tr> </tbody> </table>	Length	Model	Connectors	L-4E3 Type Cable			10 m	8C10E3	NK27-21C,	30 m	8C30E3	NK27-22C	50 m	8C50E3		<p>8S1N2 XLR3-11C x 8, NK27-22C</p> <p>8S2N1 XLR3-12C x 8, NK27-21C</p>	<p>For 8 & 12 Channels</p> <p>NK-27</p> <p>*DT12 CALL OR EMAIL CANARE FOR MECHANICAL & WIRING SPECIFICATIONS</p> <table border="1"> <thead> <tr> <th>CHAN NO.</th> <th>L-4E3-P CHANNEL COLOR</th> <th>XLR3 CONNECTORS PIN 2</th> <th>PIN 3</th> <th>PIN 1</th> </tr> </thead> <tbody> <tr><td>1</td><td>RED</td><td>1 WHT</td><td>3 BLU</td><td></td></tr> <tr><td>2</td><td>BLU</td><td>4 WHT</td><td>5 BLU</td><td></td></tr> <tr><td>3</td><td>YEL</td><td>6 WHT</td><td>7 BLU</td><td></td></tr> <tr><td>4</td><td>GRN</td><td>8 WHT</td><td>9 BLU</td><td></td></tr> <tr><td>5</td><td>BRN</td><td>11 WHT</td><td>12 BLU</td><td>COMMON</td></tr> <tr><td>6</td><td></td><td>13 WHT</td><td>14 BLU</td><td>COMMON</td></tr> <tr><td>7</td><td>BLK/BLU</td><td>15 WHT</td><td>16 BLU</td><td>SHIELD</td></tr> <tr><td>8</td><td>BLK/YEL</td><td>17 WHT</td><td>18 BLU</td><td></td></tr> <tr><td>9</td><td>BLK/GRN</td><td>19 WHT</td><td>20 BLU</td><td></td></tr> <tr><td>10</td><td>BLK/BRN</td><td>22 WHT</td><td>23 BLU</td><td></td></tr> <tr><td>11</td><td>BLK</td><td>24 WHT</td><td>25 BLU</td><td></td></tr> <tr><td>12</td><td>ORN/BLU</td><td>26 WHT</td><td>27 BLU</td><td></td></tr> </tbody> </table>	CHAN NO.	L-4E3-P CHANNEL COLOR	XLR3 CONNECTORS PIN 2	PIN 3	PIN 1	1	RED	1 WHT	3 BLU		2	BLU	4 WHT	5 BLU		3	YEL	6 WHT	7 BLU		4	GRN	8 WHT	9 BLU		5	BRN	11 WHT	12 BLU	COMMON	6		13 WHT	14 BLU	COMMON	7	BLK/BLU	15 WHT	16 BLU	SHIELD	8	BLK/YEL	17 WHT	18 BLU		9	BLK/GRN	19 WHT	20 BLU		10	BLK/BRN	22 WHT	23 BLU		11	BLK	24 WHT	25 BLU		12	ORN/BLU	26 WHT	27 BLU																																																																																																								
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8	BLK/GRY	T CLR	U GRY																																																																																																																																																																																							
9	BLK/WHT	V CLR	W WHT																																																																																																																																																																																							
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11	BRN	a CLR	b BRN																																																																																																																																																																																							
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13	BRN/ORN	f CLR	g ORN																																																																																																																																																																																							
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15	BRN/GRN	j CLR	k GRN																																																																																																																																																																																							
16	BRN/BLU	m CLR	n BLU	COMMON																																																																																																																																																																																						
17	BRN/PPL	u CLR	v PPL	COMMON																																																																																																																																																																																						
18	BRN/GRY	w CLR	x GRY	COMMON																																																																																																																																																																																						
19	BRN/WHT	y CLR	z WHT	SHIELD																																																																																																																																																																																						
20	RED/BLK	AA CLR	AB BLK																																																																																																																																																																																							
21	RED/BRN	AC CLR	AD BRN																																																																																																																																																																																							
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24	RED/YEL	AL CLR	AM YEL																																																																																																																																																																																							
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26	RED/BLU	AR CLR	AS BLU																																																																																																																																																																																							
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30	ORN/BLK	AZ CLR	BA BLK																																																																																																																																																																																							
31	ORN/BRN	BC CLR	BD BRN																																																																																																																																																																																							
32	ORN/RED	BE CLR	BF RED																																																																																																																																																																																							
32	<table border="1"> <thead> <tr> <th>Length</th> <th>Model</th> <th>Connectors</th> </tr> </thead> <tbody> <tr> <td colspan="3">MR202-AT Type Cable</td> </tr> <tr> <td>1 m</td> <td>32C001MR2M22 Connecting cable</td> <td>MS3101A-36-73P (both ends)</td> </tr> <tr> <td>10 m</td> <td>32C10MR2</td> <td>MS3106B-36-73S (both ends)</td> </tr> <tr> <td>30 m</td> <td>32C30MR2</td> <td></td> </tr> <tr> <td>50 m</td> <td>32C50MR2</td> <td></td> </tr> </tbody> </table>	Length	Model	Connectors	MR202-AT Type Cable			1 m	32C001MR2M22 Connecting cable	MS3101A-36-73P (both ends)	10 m	32C10MR2	MS3106B-36-73S (both ends)	30 m	32C30MR2		50 m	32C50MR2		<p>32S1MS2 XLR3-11C x 32, MS3101A-36-73P</p> <p>32S2MS2 XLR3-12C x 32, MS3101A-36-73P</p>	<p>For 32 Channels</p> <p>36-73</p>																																																																																																																																																																					
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APPLICATIONS

- ANALOG & DIGITAL VIDEO
- RGB(S, H/V) COMPONENT VIDEO
- VIDEO WALLS
- HI-RES PROJECTORS
- CG / CAD WORKSTATIONS

VS • 75Ω COMPONENT VIDEO FANTAILS

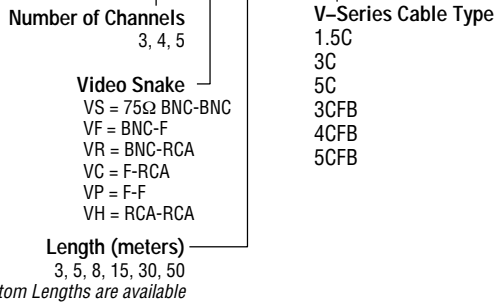
Canare 75Ω VS component cable is available in a variety of pre-cut lengths terminated with our true 75Ω BNC crimp plugs. All assemblies are precisely timed with less than 2.2 nanoseconds between adjacent video channels. Canare VS fantails offer extra wide video bandwidth performance because cable and connectors are 75Ω impedance matched.

Custom assembly configurations can be special ordered using any of Canare's other V-Series models: V-1.5C, V-3C, V-5C, V-3CFB, V-4CFB and V-5CFB multichannel video snake series in a variety of metric lengths.

STANDARD STOCK • VS 75Ω VIDEO SNAKES					
Model	Lng.	Number of Channels	75Ω Cable	75Ω BNC Plugs	Color Boot
3VS03-3C	9.8ft, 3m	3	V3-3C	BCP-C3B	CB03
3VS05-3C	16.4ft, 5m	RED, GRN, BLU	V4-3C		
4VS03-3C	9.8ft, 3m	4			
4VS05-3C	16.4ft, 5m	RED, GRN BLUE, WHT	V5-3C		
5VS03-3C	9.8ft, 3m	5			
5VS05-3C	16.4ft, 5m	RED, GRN BLUE, WHT, YEL			

Custom Model Selection Guide

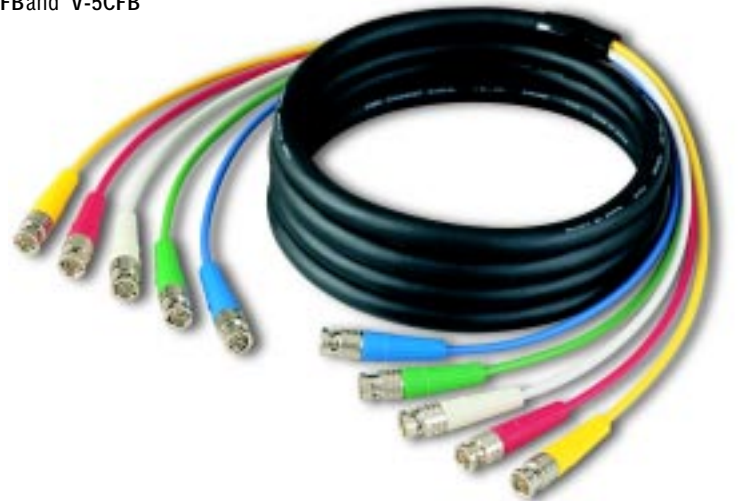
4 VS 05 - 3C



Other Custom Lengths are available

FEATURES

- Canare true 75Ω BCP-C Crimp Plugs
- < 2.2 nanoseconds channel delay
- Super Flexible, easy payout & wrap-up
- Bundled Cables keep work site neat
- 100% Test and Quality Controlled
- Excellent Connector Pull Strength
- Color Matching BNC Strain Relief Boots
- Jacket Protection Sleeve at Fan Breakout
- Wide Selection of V-Series Cable Types



VGA ASSEMBLIES

- Canare VGA cables come in a variety of convenient lengths.
- All cables are pre-assembled with easily identifiable colored Canare 75 ohm miniature coaxials.
- Can be used with 75 ohm component video fantails for running long lengths.

Dsub15P (M) - Dsub 15p (M)



Dsub15P (M) - BNC(M)



Dsub15P (M) -BNC (F)



STANDARD STOCK	
MODEL	Lng.
5VDC02-1.5C	6.6ft, 2m
5VDC03-1.5C	9.8ft, 3m
5VDC05-1.5C	16.4 ft, 5m
5VDC10-1.5C	32.8ft, 10m

STANDARD STOCK	
MODEL	Lng.
5VDS015-1.5C	4.9ft, 1.5m
5VDS02-1.5C	6.6ft, 2m
5VDS03-1.5C	9.8ft, 3m
5VDS05-1.5C	16.4 ft, 5m
5VDS10-1.5C	32.8 ft, 10m

STANDARD STOCK	
MODEL	Lng.
5VDS015-J1.5C	4.9ft, 1.5m
5VDS02-J1.5C	6.6ft, 2m
5VDS03-J1.5C	9.8ft, 3m
5VDS05-J1.5C	16.4ft, 5m
5VDS10-J1.5C	32.8ft, 10m

APPLICATIONS

- ANALOG & DIGITAL VIDEO
- STUDIO TIE LINES
- PATCH CORDS
- RACK WIRING
- SATELLITE HEADENDS
- OB VANS

FEATURES

- Canare 75Ω BNC, F or RCA Crimp Plugs
- Super Flexible, easy payout & wrap-up
- High Density Copper Braid, or Foil + Braid Shields
- Variety of Matte Finish Jacket Colors
- 100% Test and Quality Controlled
- Excellent Connector Pull Strength
- Color Matching Strain Relief Boots

VAC • 75Ω BNC (RG59) VIDEO CORDS

Our high quality **RG59B/U** 75Ω BNC-BNC cord is perfect for patching, rack wiring or layout between video plant equipment. All models are super flexible and come pre-assembled with 2 color matched cable strain relief boots. Canare cable and connectors offer excellent performance because they are 75Ω impedance matched for cleaner and sharper video resolution.



STANDARD STOCK • 75Ω VIDEO CORDS				
MODEL	Lng.	75Ω Coax Cable	75Ω BNC Crimp Plugs	Color Boot
VAC003F	3ft	LV-61S	BCP-C4B	CB04
VAC006F	6ft			
VAC010F	10ft			
VAC025F	25ft			

COLORS AVAILABLE									
BLK	BLU	BRN	GRY	GRN	ORN	PPL	RED	WHT	YEL
VAC	■	■	■	■	■	■	■	□	■

VIC • 75Ω BNC (8281F) VIDEO CORDS

Canare VIC cords are useful for both inter-rack harness wiring and longer video cable runs. This super flexible **8281F** type pre-made 75Ω BNC-BNC assembly is available in a variety of colors. Our low loss cord offers outstanding video bandwidth performance because all components used are impedance matched for cleaner and sharper video resolution.



STANDARD STOCK • 75Ω VIDEO CORDS				
MODEL	Lng.	75Ω Coax Cable	75Ω BNC Crimp Plugs	Color Boot
VIC010F	10ft	LV-77S	BCP-C77A	No
VIC025F	25ft			
VIC050F	50ft			
VIC100F	100ft			

COLORS AVAILABLE									
BLK	BLU	BRN	GRY	GRN	ORN	PPL	RED	WHT	YEL
VIC	■	■	■	■	■	■	■	○	■

□ = Standard Stock ○ = Special Order

75Ω F CORDS

Premium RF video line cords can now be special ordered using our new **FP-C** series 2GHz crimp connector. Choose from a wide assortment of jacket colors and lengths of Canare standard analog or low loss digital 75Ω Video Coax Cables.



75Ω RCA VIDEO CORDS

RCA video patch cords can now be special ordered. Made with our new **RCAP** series 200MHz crimp connector. Choose from a wide assortment of Canare 75Ω Video Coax Cables. Perfect for SPDIF Digital Audio and MultiMedia.



Custom Model Selection Guide

B02B005F BLACK

- 1st End Connector Type**
 B = 75Ω BNC Crimp Plug (BCP-C)
 F = 75Ω F Crimp Plug (FP-C)
 R = 75Ω type RCA Crimp Plug (RCAP-C)
- 75Ω COAX Cable Type**
 01 = L-1.5C2VS
 02 = L-3C2VS
 03 = LV-61S
 04 = LV-77S
 05 = L-2.5CFB
 06 = L-3CFB
 07 = L-4CFB
 08 = L-5CFB
 09 = L-7CFB
- Cable Color**
 BLACK, BLUE, BROWN, GRAY, GREEN
 ORANGE, PURPLE, RED, WHITE, YELLOW
- Boot**
 BLANK = 2ea Matching Color CB Boots
 X = No Boots
 S = Other CB Boot Colors
- Length (feet)**
 1, 2, 3, 5, 8, 10, 15, 30, 50, 100
Other Custom Lengths are available
- 2nd End Connector Type**
 B = 75Ω BNC Crimp Plug
 F = 75Ω F Crimp Plug
 R = 75Ω type RCA Crimp Plug
 X = Blunt Cut

		NOMINAL ATTENUATION VALUE								
		1 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1 GHz
L-3C2VS	dB/100 ft	0.5	1.5	3.2	4.7	6.7	9.4	12.5	14.2	14.9
	dB/100m	1.5	4.9	10.4	15.5	21.9	31.0	41.0	46.5	49.0
LV-61S	dB/100 ft	0.4	1.3	2.7	4.1	5.7	8.1	10.7	12.1	12.8
	dB/100m	1.3	4.2	9.0	13.3	18.8	26.6	35.1	39.8	42.0
LV-77S	dB/100 ft	0.3	1.0	2.4	3.3	4.6	6.6	8.6	9.8	10.4
	dB/100m	1.1	3.4	7.8	10.8	15.2	21.5	28.4	32.3	34.0
L-3CFB	dB/100 ft	0.3	1.0	2.5	3.3	4.5	6.5	8.8	10.1	10.6
	dB/100m	1.1	3.2	8.0	10.7	14.7	21.3	28.9	33.0	34.8
L-4CFB	dB/100 ft	0.3	0.9	2.0	2.7	3.8	5.4	7.3	8.4	8.9
	dB/100m	1.0	2.9	6.7	8.9	12.4	17.7	24.0	27.6	29.3
L-5CFB	dB/100 ft	0.3	0.5	1.6	2.2	3.0	4.3	6.0	6.8	7.2
	dB/100m	0.8	1.6	5.3	7.1	9.9	14.2	19.5	22.2	23.7
L-7CFB	dB/100 ft	0.2	0.5	1.2	1.6	2.1	3.1	4.2	4.8	5.1
	dB/100m	0.7	1.6	3.9	5.2	6.9	10.0	13.8	15.7	16.7

VPC 75Ω VIDEO PATCH CORDS

Canare video patch cords are the perfect complement to our 75Ω video patchbays. Assembled with Canare LV-61S and VWP-C4A plugs, they are impedance matched for 1.5GHz performance.

Precisely cut to length, super flexible and available in a variety of colors including Red, Green and Blue for component analog systems. All video patch cords come with a special color-matched rubber boot to ensure extra long life reliability.



75Ω VIDEO PATCH CORDS				
Model	Lng.	75Ω Coax Cable	75Ω Video Plugs	Color Boot
VPC002F	2ft	LV-61S	VWP-C4A	CB04
VPC003F	3ft			
VPC006F	6ft			

COLORS AVAILABLE										
BLK	BLU	BRN	GRY	GRN	ORN	PPL	RED	WHT	YEL	
■	■	■	■	■	■	■	■	■	■	■

BC BANTAM AUDIO PATCHCORDS

Canare offers a highly flexible, yet extremely rugged premium TT Patchcord usable in all balanced Audio Bantam Patchbays. Carefully assembled using Canare L-4E5C mini Star Quad audio cable and meticulously soldered onto Nickel & Gold Plated TRS Bantam Plugs. Available in 7 Cable jacket Colors and supplied with set of snap in place Color ID Rings.



TRS BANTAM AUDIO PATCH CORDS				
Model	Lng.	Star Quad Audio Cable	Audio Plug	Color Rings
BC003M	1ft	L-4E5C	TRS Bantam	Red, Orn,
BC006M	2ft			Yel, Grn,
BC009M	3ft			Blu, Gry

COLORS AVAILABLE						
BLK	BLU	GRY	GRN	ORN	RED	YEL
■	■	■	■	■	■	■
□ = Standard Stock			○ = Special Order			

GO GUITAR CORDS

These high quality 1/4" guitar/patch cords come in a variety of convenient lengths and colors. All models are meticulously hand soldered using our very flexible, low noise GS-6 instrument cable mated with two premium Canare F-15 1/4" mono phone plugs. Also highly recommended as an Amplifier to Speaker Cabinet lead.



GO PRE-MADE CORDS			
Model	Lng.	Cable	Audio connector 1/4" Phone Plug
GO10F	10ft	GS-6	F-15
GO20F	20ft		
GO25F	25ft		

COLORS		
BLK	BLU	RED
■	■	■

AV COMBO SNAKES

For ENG/EFP/OB operations. Broadcast quality made-to-order A/V combo snakes using flexible Canare A2V1 (pictured), A3V1-FB, A2V2-L, A3V2-FB Audio+Video composite cable.

Each end precisely terminated to your choice of impedance matched 75Ω BNC, F or RCA crimp plugs with Male &/or Female XLR3 Connectors. Contact Canare for all custom snake requirements.



APPLICATIONS

- MICROPHONES
- STUDIO AUDIO TIE LINES
- PATCH CORDS
- RACK WIRING
- SNAKE SYSTEMS
- PA MIXERS

FEATURES

- Super Flexible even in sub-zero weather
- Rejects EMI, RFI and Handling Noise
- High Density Copper Braid Shield
- Variety of Matte Finish Jacket Colors
- 100% Test and Quality Controlled
- Excellent Connector Pull Strength

STAR QUAD

Canare Star Quad is designed for use with microphones but is also excellent for all line-level signals (e.g. mixer to power amps). The 4-conductor Star Quad arrangement cancels electromagnetically induced noise from SCR dimmer packs, fluorescent lighting ballasts and AC power transformers. Handling noise is prevented by use of cotton filler material. Excellent frequency response is maintained due to special irradiated polyethylene insulation which provides a low capacitance dielectric.

Canare Star Quad cable is super flexible. We use large numbers of thin wire strands in both the conductors and overall shield. We extrude a special compound PVC outer jacket that remains pliant at extremely low temperatures with no wait between cold shipping and installation.

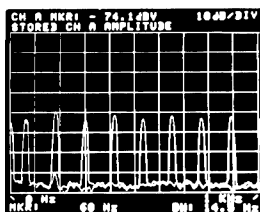
Canare pre-assembled Star Quad Professional Microphone audio cords are available in a variety of convenient lengths and matte finish jacket colors. Both ends are meticulously hand soldered using premium Neutrik XLR-3 connectors with black chrome shells and gold plated contact pins.



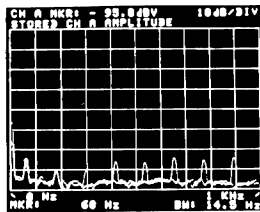
EC MICROPHONE CORDS

STANDARD STOCK • STAR QUAD AUDIO CORDS				
Model	Lng.	Cable Star Quad	Connector Plug XLR3-Female	Connector Plug XLR3-Male
EC005F	5ft	L-4E6S	Neutrik	Neutrik
EC015F	15ft		NC3FX-B	NC3MX-B
EC025F	25ft		Black Shell	Black Shell
EC050F	50ft		Gold pin	Gold Pin
EC100F	100ft			

COLORS AVAILABLE									
BLK	BLU	BRN	GRY	GRN	ORN	PPL	RED	WHT	YEL



Typical 2 conductor mic cable.



Canare Star Quad cable.

TECHNICAL NOTE The signal generated by a microphone during quiet periods can be very low in level, -70dB to -120dB (0.3 millivolts to 1 microvolt). The cable that must carry this signal to the mixer is very sensitive to Electromagnetic Interference (EMI), Radio Frequency Interference (RFI) and electrostatic coupling of hum and noise. Mechanical vibration, bending, flexing (handling noise) and ambient temperature fluctuations can cause detrimental capacitance changes within the microphone cable. Canare Cables are carefully designed and manufactured to very close tolerances using the highest quality materials available so that low level microphone circuits will not be affected by these outside disturbances. The difference is clearly measurable and audible.

For a more detailed illustration, please request our Technical White Paper: "Evaluating Microphone Cable Performance and Specifications."

10CFTX-SC 25	3VS03-3C 47	BCP-C71A 17	F-09 28	MS3101A-36-73P 44-46
12B1N2 45	3VS05-3C 47	BCP-C77A 17	F-10 28	MS3101B-32A-10P 44-46
12B2N1 45	4S11 40	BCP-C7FA 17	F-11 28	MS3102A-32A-10P 44-46
12C10E3 46	4S6 40	BCP-LC3F 17	F-12 28	MS3102A-36-73P 44-46
12C30E3 46	4S8 40	BCP-LC5F 17	F-15 28	MS3106B-32A-10S 44-46
12C50E3 46	4VS03-3C 47	BCP-TA 18	F-16 28	MS3106B36-73S 44-46
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12J12N12 45	5VDC02-1.5C 47	BET-MBNC 5	FCC100 11	MVPC005 5
12J12N2 45	5VDC03-1.5C 47	BN1002A 20	FCC100-WJ 11	MVPC01 5
12R30E3 45	5VDC10-1.5C 47	BN1003A 20	FCC150 11	MVPC02-BP 5
12R50E3 45	5VDS015-1.5C 47	BN1004A 20	FCC20 11	MVPC05-BP 5
12S1N2 46	5VDS015-J1.5C 47	BN1005A 20	FCC200 11	MVP-C4 5
12S2N1 46	5VDS02-1.5C 47	BN1012A 17	FCC30 11	NCJ-BCJR 30
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16C30E3 46	8C50E3 46	BN9078 24	FJ-JRU 21	R460S 43
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16J12F1 45	8J12N12 45	BN9127 25	FK37-22C 44-46	RCAP-C3A 22
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16J12F2 45	8R30E3 45	CB01 27	FK37-32S 44-46	RCAP-C4A 22
16R30E3 45	8R50E3 45	CB02 27	FP-C3 20	RCAP-C4F 22
16R50E3 45	8S1N2 46	CB03 27	FP-C3F 20	RCAP-C53 22
16S1F2 46	8S2N1 46	CB04 27	FP-C4 20	RCAP-C5A 22
16S2F1 46	A2C3 42	CB05A 27	FP-C4F 20	RCAP-C5F 22
201U-DVJS 7	A2C3-SS 42	CB16 25	FP-C5 20	RCAP-C77 22
201U-DVJW 7	A2V1 41-49	CB17 25	FP-C51 20	RJ-BCJR 23
241U-DVJS 7	A2V2-L 41-49	CB18 25	FP-C53A 20	RJ-BCJRU 23
241U-DVJW 7	A3V1-FB 41-49	CB19 25	FP-C55A 20	RJ-R 23
242U-DVJS 7	A3V2-FB 41-49	CB22 25	FP-C5F 20	RJ-RU 23
242U-DVJW 7	B11014D 17-22	CB23 25	FP-C71A 25	TC-1 26
244U-DVJS 7	B11015D 17-22	CB24 27	FP-C7FA 29	TCD-1DB 26
244U-DVJW 7	B11016D 17-22	CB25 27	G010F 49	TCD-35CA 26
24B12MS 45	B11020C 17-22	CB26 27	G020F 49	TCD-3C 26
24B12MSW 45	B75004 17, 20, 22	CCF10-JF 25	G025F 49	TCD-316C 25
24C001E3M22 46	BC003M 49	CCF10-JFR 25	GS-4 39	TCD-451CA 26
24C10E3 46	BC006M 49	CCF4-JK 25	GS-6 39	TCD-4C 26
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24C50E3 46	BCJ-A10TRA-XP3F 29	CCF5-JF 25	L-1.5C2VS 33	TCD-7CA 26
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TECHNICAL TERMS ABBREVIATION TABLE

ABS Acrylonitrile-Butadiene-Styrene	MΩ Mega Ohm
AC Annealed Copper	mΩ Milli Ohm
AT Aluminum Tape	nS Nano Second
AWG American Wire Gauge	PE Polyethylene
dB Decibel	pF Pico Farad
ft Feet	PPO Polyphenylene Oxide
in Inch	PTFE Polytetrafluoroethylene
IPE Irradiated Polyethylene	PVC Polyvinylchloride
m Meter	RL Return Loss
MHz Megahertz	TAC Tinned Annealed Copper
mil One Thousandth of an inch	V Volt
mm Millimeter	VSWR Voltage Standing Wave Ratio
mV Millivolt	Ω Ohm



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