

CANARE

27E

International Edition

CANARE,

offering value - added products to meet your needs for today and tomorrow.

Five-point Product Development Goal



1

Responsive

Fulfilling the needs of the industry through custom solutions.

2

Unique

Incorporating valuable features not offered by competitors.

3

Cutting-edge

Devoted to meeting the requirements for emerging technologies.

4

Enduring

Concentrated on products with long-term value.

5

Global

Focused on niche markets as well as universal products.

Profile

- Name : Canare Electric Co., Ltd.
- Incorporated : February 1974
(commenced operation 1970)
- Capital : 1.04 billion yen
- Activities : Developing, manufacturing, and distributing cables, connectors, assemblies, panels, and accessories for ProAV, broadcasting, and data communication applications.

Locations

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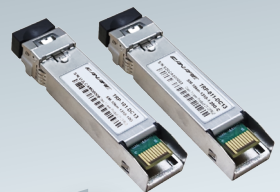


Group

- Sales Subsidiaries in
USA, Korea, Taiwan, China, Singapore, India, Germany, and UAE
- Canare Electric (Shanghai) Co., Ltd. : Factory in China
- Canare Harness Co., Ltd. : Canare products assembler
- Canare System Works Co., Ltd. : Developing AV furniture/accessories
- Canare Connected Products Co., Ltd. : Developing active products



HFO Camera Cables



SFP Optical Transceivers



12G-SDI CXP-12
75Ω Micro BNC Connectors



12G-SDI CXP-12
75Ω BNC



12G-SDI CXP-12
Ultra Coax



12G-SDI
75Ω Staggered Video Patchbays



4K



Hi-Fi

Phone Plugs

Contents

Technical Trend

3 12G-SDI

IP Connectivity Products

5 IP Connectivity Products

Fiber-Optic Systems

9 HFO Camera Cables
10 HFO Camera Cables, HFO Camera Cable Checkers
15 HFO Camera Connector Panels
16 Splice Enclosures
17 Multi-Channel Snake
18 Fiber-optic Cables

Connectors

21 75Ω BNC Connectors
27 Active BNC
29 75Ω Micro BNC Connectors
31 75Ω BNC, N Connectors
32 75Ω DIN Connectors
33 75Ω Micro-miniature Coax Connectors
34 75Ω Multichannel Coax Connectors
35 75Ω Triaxial Connectors
36 RCA Connectors
37 F Connectors
38 Phone Plugs
39 50Ω BNC Connectors
40 50Ω TNC, N, SMA Connectors
41 Cable Stripper, Crimp Tools
44 Impedance Transformers

Cables

45 Q&A
47 Star Quad Microphone Cables
50 Two-conductor Shielded Cables
54 AES/EBU Digital Audio Cables
55 Speaker Cables
57 OFC Line, A/V Composite Cables
58 DMX, RS422 Cables
59 Ethernet Cables, Modular Plug
61 75Ω Coaxial Cables
68 50Ω Coaxial Cables

Panels and Patchbays

69 75Ω Video Patchbays
77 Unloaded Video Jack Panels
78 RS422 Patchbays
79 Video Patch Cords
80 Connector Panels
82 Audio Patchbays

Multichannel Systems

84 Overview
85 Snake Trunks, Cable Reel Snakes
86 Fantails, Junction Boxes
87 Pin Assignments, Reels
88 Reels

Cable Assemblies

89 BNC
90 Micro BNC, DIN, RCA (Video), Triax
91 Ethernet
92 Ethernet, RS422, DMX
93 XLR, Phone
94 RCA (Audio), Speaker, Audio Patch
95 Digital Audio, Analog Audio
96 VGA, 3 RCA, 2 RCA
97 HDMI
100 HDMI, DVI, VGA
102 USB

Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Technical Trend

12G-SDI

Cable and Connectors for UHDTV

Recent years, developments of Serial Digital Interface (SDI) require wider bandwidth and higher data rates. Cables and connectors are becoming a significant role in high definition video productions to work properly. The table on the right shows comparison of high definition video formats which are standardized by SMPTE (Society of Motion Picture and Television Engineers). Canare, as a member of SMPTE, has provided the right products based on the requirements.

Typical Cable Lengths

The right table shows typical cable lengths according to cable loss at receiver specified in the standard. The results may be different (most likely longer) because it's really the matter of the performance of a chipset built in. Obviously any other coax cables will be accepted if an application does not require such long, like patch cords.

Video Formats

SMPTE	ST 292	ST 424	ST 2081-1	ST 2082-1
Format	HD-SDI	3G-SDI	6G-SDI	12G-SDI
So-called	HDTV	HDTV	UHDTV-1	UHDTV-1
Data Rate	1.485 Gbps	2.97 Gbps	5.94 Gbps	11.88 Gbps
Pixels	2K 1080i/720p	2K 1080p	4K 2160p30	4K 2160p60
Cable	75Ω Coax	75Ω Coax	75Ω Coax	75Ω Coax
Cable Loss at Receiver	20 dB @ 750 MHz	30 dB @ 1.5 GHz	40 dB @ 3 GHz	40 dB @ 6 GHz
Connector	75Ω BNC	75Ω BNC	75Ω BNC	75Ω BNC
Return Loss	15 dB @ 1.5 GHz	10 dB @ 3 GHz	7 dB @ 6 GHz	4 dB @ 12 GHz

Cable Lengths

SMPTE	ST 292	ST 424	ST 2081-1	ST 2082-1
Format	HD-SDI	3G-SDI	6G-SDI	12G-SDI
L-2.5CHD	66 m	69 m	64 m	43 m
L-4.5CHD	115 m	119 m	109 m	74 m
L-3.3CUHD	85 m	90 m	83 m	58 m
L-5.5CUHD	155 m	161 m	149 m	102 m

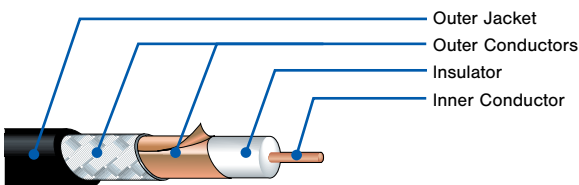
The lengths are based on SMPTE standards and will vary depending on receiving equipment.

12G-SDI Signal Integrity

Canare 12G-SDI products are developed by a huge investment of time and research. Our products are verified and approved by the TRUE 12 GHz test equipment in addition, collaborations with top brands of broadcast products.

Coaxial Cables: L-UHD Series

L-5.5CUHD for any applications up to around 100 meters. L-3.3CUHD for intermediate distance around 60 meters. Both are evaluated with endurance reliabilities such as bending, impact, and accelerated test.



L-5.5CUHD (page 61)

BNC Connectors and Patchbays

BNC connectors and video patchbays should be fully matched with 12G coax cables. Canare developed these products over the years of improvements in order to exceed SMPTE requirements.

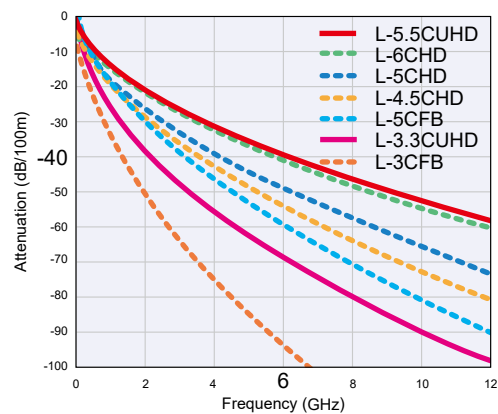


BCJ-BPLHK (page 25)

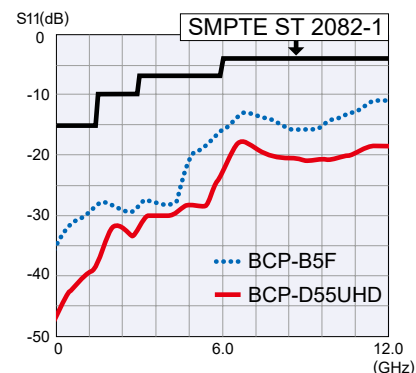


MCVJKA-ST* (page 71)

Nominal Attenuation



Return Loss



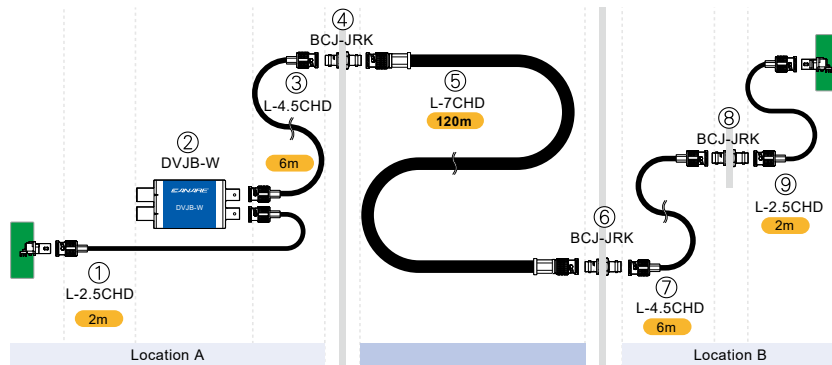
12G-SDI

12G-SDI badge featured in this catalog is based on the following criteria:

- **Coax Cables:** Performance verified up to 12 GHz for SMPTE ST 2082-1.
- **Video Connectors:** Designed for exceeding SMPTE ST 2082-1, which achieving return loss of -15dB (BCP) and -10dB (BCJ/Jacks) at 12GHz.
- **Assemblies:** Constructed with 12G-SDI compliant components.
- **Active Devices:** Meet SMPTE ST 2082-1 requirements.

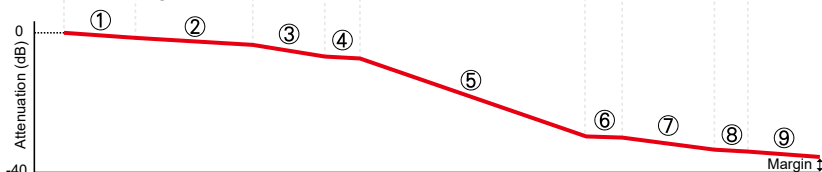
Note: Exceptions may apply.

2K/4K: 3G-SDI Single-link or Multi-link



Standards referred to:
 ST424: 3 Gb/s Signal/Data Serial Interface
 ST425-1: Single Link 3 Gb/s SDI (2K)
 ST425-2: Single Link 3 Gb/s SDI (Stereo)
 ST425-3: Dual Link 3 Gb/s SD for Single Images w/ 6 Gb/s payload (2K/4K)
 ST425-4: Dual Link 3 Gb/s SDI (Stereo)
 ST425-5: Quad Link 3 Gb/s SD for Single Images w/ 12 Gb/s payload (4K)
 ST425-6: Quad Link 3 Gb/s SDI for a Stereo Pair of 6 Gb/s (Stereo/2K/4K)

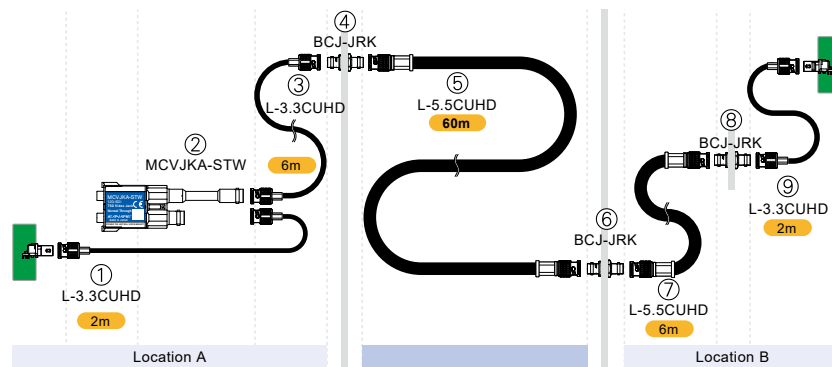
Attenuation Graph



Typical Value

Factor	① L-2.5CHD	② DVJB-W	③ L-4.5CHD	④ BCJ-JRK	⑤ L-7CHD	⑥ BCJ-JRK	⑦ L-4.5CHD	⑧ BCJ-JRK	⑨ L-2.5CHD	BNC Plugs	Total (dB)	Limit (dB)	Margin (dB)
Q'ty	2	1	6	1	120	1	6	1	2	10	26.3	30.0	3.7
Unit	m	pcs	m	pcs	m	pcs	m	pcs	m	pcs			
dB/unit	0.431	0.9	0.251	0.2	0.159	0.2	0.251	0.2	0.431	0.1			
dB	0.862	0.9	1.506	0.2	19.08	0.2	1.506	0.2	0.862	1			

4K/8K: 12G-SDI Single-link or Multi-link



Standards referred to:
 ST2082-1: 12 Gb/s Signal/Data Serial Interface
 ST2082-10: Single Link 12 Gb/s SDI (4K)
 ST2082-11: Dual Link 12 Gb/s SDI for Single Images w/ 24 Gb/s Payload (4K/8K)
 ST2082-12: Quad Link 12 Gb/s SDI for Single Images w/ 48 Gb/s Payload (4K/8K)

Attenuation Graph



Typical Value

Factor	① L-3.3CUHD	② MCVJKA-STW	③ L-3.3CUHD	④ BCJ-JRK	⑤ L-5.5CUHD	⑥ BCJ-JRK	⑦ L-5.5CUHD	⑧ BCJ-JRK	⑨ L-3.3CUHD	BNC Plugs	Total (dB)	Limit (dB)	Margin (dB)
Q'ty	2	1	6	1	60	1	6	1	2	10	36.3	40.0	3.7
Unit	m	pcs	m	pcs	m	pcs	m	pcs	m	pcs			
dB/unit	0.685	2	0.685	0.2	0.391	0.2	0.391	0.2	0.685	0.1			
dB	1.37	2	4.11	0.2	25.415	0.2	2.346	0.2	1.37	1			

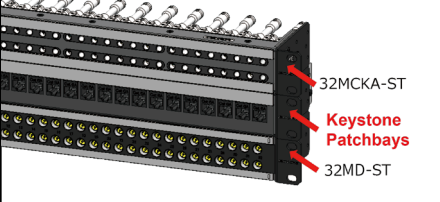



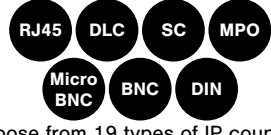
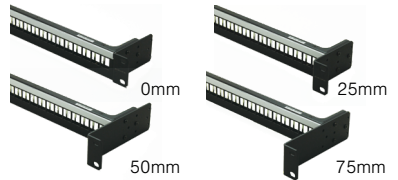

IP Connectivity Products

24-Port Keystone IP Patchbays, 24-Port Keystone Panel

Introduction

Canare has launched its own series of IP connectivity solutions. The new series includes patch panels, couplers, and looping plugs. By evaluating existing IP products, we re-engineered items and specialized them for IP broadcasting systems, IP OB-Vans, and other IP-based A/V applications.

Unique 7 Points

1 Unified Design	3 Non-Splitted Designation Strip	6 No Special Tool
 <p>Canare IP panels are similar in appearance to our video patchbays.</p>	 <p>8.5 × 426mm free designation area to write on.</p>	 <p>For interchanging couplers, just use a flathead screwdriver.</p>
2 Mobile Truck Ready	4 Wide Range of IP Interface	7 Depth Adjustable Front Mount
 <p>Tested through heavy-duty vibration for live production applications.</p>	 <p>Choose from 19 types of IP couplers.</p>	
	5 Cable Tie Bar	<p>In case of space efficiency, patching surface can be recessed 25mm, 50mm or 75mm deeper.</p>
	 <p>Optional cable tie bar will help to optimize wiring support.</p>	

24-Port Keystone IP Patchbays

Model	Panel Size	Description
24KRJ-6AJJ	1RU	24 × RJ45 Unshielded Cat6A Couplers
24KRJS-6AJJ	1RU	24 × RJ45 Shielded Cat6A Couplers

Standard panel color: Black.

24-Port Keystone Panel

Model	Panel Size	Description
K24S-1U-BLK	1RU	24-Port, Unloaded Panel

Standard panel color: Black.

- Unified design
- Robust construction
- 8.5 × 426mm free designation area
- Can be recessed 25mm.
- Ground stickers attached

Note: 50 or 75mm recessed panel mount by M-MA1U02A (see page 81)

Website



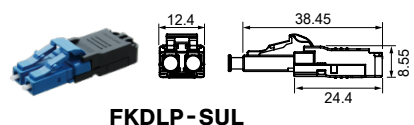
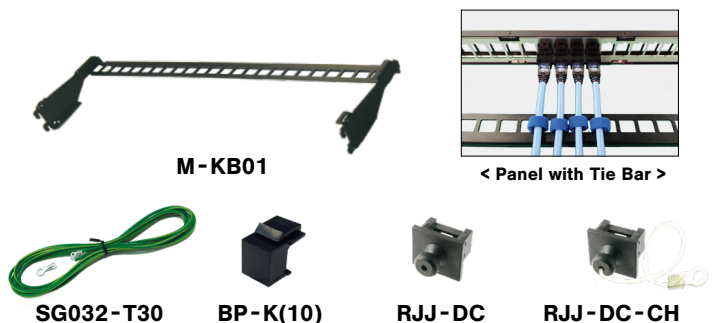
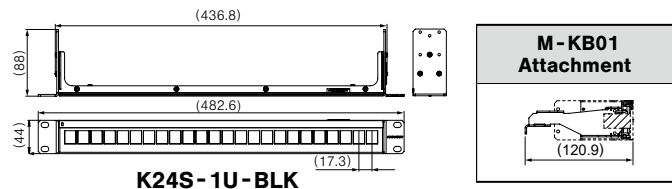
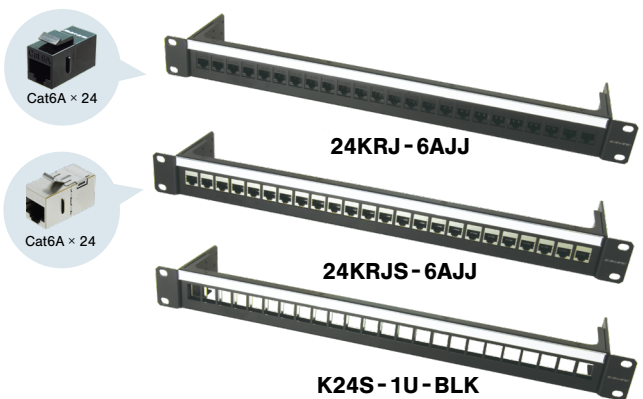
Accessories

Model	Description
M-KB01	Cable Tie Bar
SG032-T30	Grounding Cable 3.2m, Terminated with M3 Round Terminal (RT) one end, 1pc of M6 RT attached.
SG002-T36	Grounding Cable 0.2m, Terminated with M3 RT one end, and M6 RT another end.
BP-K(10)	Blank Plate (10 pcs.)
RJJ-DC New	Dust cap for RJ45 (25 pcs.)
RJJ-DC-CH New	Dust cap for RJ45 with string (20 pcs.) *Requires a screw mount.

- Grounding cables are ideal for shielded Cat6A panels and a rack.
- RJJ-DC and RJJ-DC-CH can be mounted on all RJ45.
- RJJ-DC can be stacked for secure fastening and storage.

Model	Description	Couplers
FKDLP-SUL	DLC Loop-Back, U-link (SM)	FKDLJ-JS FKDLJ-JS-S

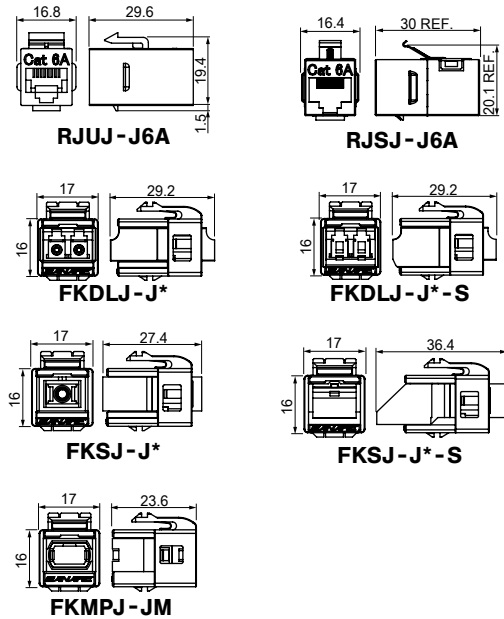
- Loop signal for maintenance



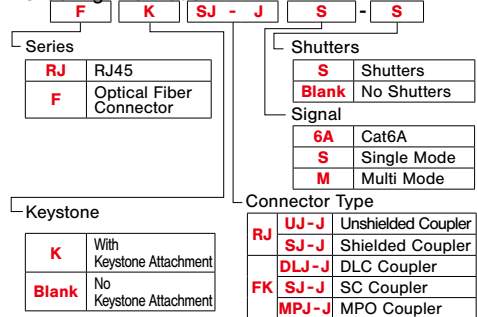
Keystone IP Couplers

Type	Appearance	Model	Description
RJ45		RJUJ-J6A	RJ45 Coupler
		RJSJ-J6A	RJ45 Coupler (shield)
DLC		FKDLJ-JS	DLC Coupler (SM)
		FKDLJ-JM	DLC Coupler (MM)
		FKDLJ-JS-S	DLC Coupler with Shutters (SM)
		FKDLJ-JM-S	DLC Coupler with Shutters (MM)
SC		FKSJ-JS	SC Coupler (SM)
		FKSJ-JM	SC Coupler (MM)
		FKSJ-JS-S	SC Coupler with Shutter (SM)
		FKSJ-JM-S	SC Coupler with Shutter (MM)
MPO		FKMPJ-JM	MPO Coupler (MM)

- Compatible with Keystone Panels.
- A wide array of different connection options.
- Fast and easy to install.
- Blank Plate : Protects unused ports from dirt and dust.



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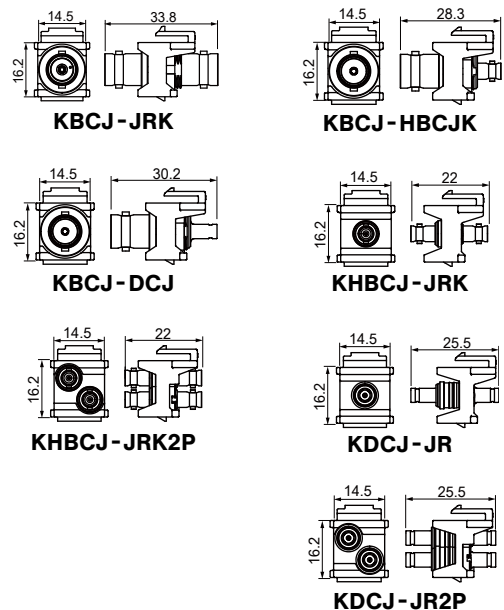


Keystone 75Ω Video Couplers

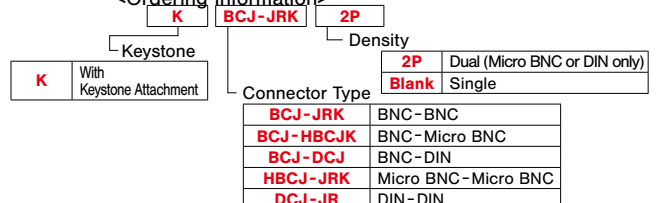
Type	Appearance	Model	Description
BNC		New 12G-SDI KBCJ-JRK	BNC Relay Adapter BNC(F)-BNC(F)
		New 12G-SDI KBCJ-HBCJK	Conversion Adapter BNC(F)-Micro BNC(F)
		New 12G-SDI KBCJ-DCJ	Conversion Adapter BNC(F)-DIN(F)
Micro BNC		New 12G-SDI KHBCJ-JRK	BNC Relay Adapter Micro BNC(F)-Micro BNC(F)
		New 12G-SDI KHBCJ-JRK2P	BNC Relay Adapter (Dual) Micro BNC(F)-Micro BNC(F)
DIN 1.0/2.3		New KDCJ-JR	BNC Relay Adapter DIN(F)-DIN(F)
		New KDCJ-JR2P	BNC Relay Adapter(Dual) DIN(F)-DIN(F)

- Uncompromised 12G-SDI Performance
- High-Density Space Efficiency
- Versatile Lineup: BNC, Micro BNC, and DIN
- Seamless AV/IT Integration

Website



<Ordering Information>



IP Connectivity Products

SFP

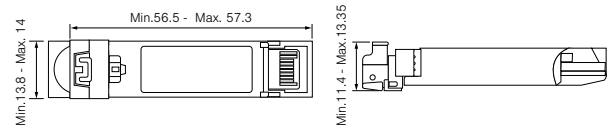
SFP Optical Transceivers

Fiber Type	Model	Description
SMF DLC	TRP-011-DC13	1GbE SFP, 1000BASE-LX (10km)
SMF DLC	TRP-101-DC13	10GbE SFP+, 10GBASE-LR (10km)
SMF DLC	TRP-251-DI13 New	25GbE SFP28, 25GBASE-LR (10km)
MMF DLC	TRP-010-DC081 New	1GbE SFP, 1000BASE-SX (800m)
MMF DLC	TRP-100-DC08 New	10GbE SFP+, 10GBASE-SR (300m)
MMF DLC	TRP-250-DC08 New	25GbE SFP28, 25GBASE-SR (70m)
SMF 1 x SC	TRP-011-DI13BS New	1GbE Bidi SFP, 10km (Tx: 1310nm)
SMF 1 x SC	TRP-011-DI15BS New	1GbE Bidi SFP, 10km (Tx: 1550nm)

SMF: Single Mode Fiber MMF: Multi Mode Fiber DLC: Duplex LC

- Reliable and high-performance MSA-compliant optical transceivers.
- Ideal for broadcast IP systems, data centers, and telecommunications.
- Supports 1GbE, 10GbE, and 25GbE applications.
- 1-year product warranty included.

Note: TRP-011-DI13BS (1310nm) and TRP-011-DI15BS (1550nm) must be used together as a matching pair



TRP-011-DC13



TRP-101-DC13



TRP-251-DI13



TRP-010-DC081



TRP-100-DC08



TRP-250-DC08



TRP-011-DI13BS



TRP-011-DI15BS

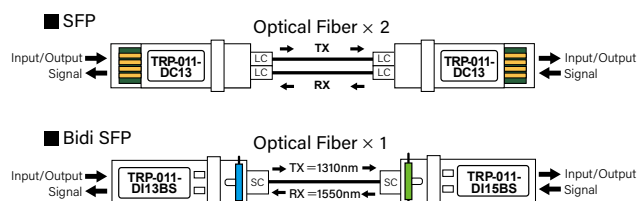
Specifications

Model	TRP-011-DC13	TRP-101-DC13	TRP-251-DI13	TRP-010-DC081	TRP-100-DC08	TRP-250-DC08	TRP-011-DI13BS	TRP-011-DI15BS
Optical Connector	2 × LC	2 × LC	2 × LC	2 × LC	2 × LC	2 × LC	1 × SC	1 × SC
Wavelength	1310nm	1310nm	1310nm	850nm	850nm	850nm	Tx: 1310nm Rx: 1550nm	Tx: 1550nm Rx: 1310nm
Fiber Type	SM 9/125	SM 9/125	SM 9/125	MM 50/125	MM 50/125	MM 50/125	SMF 9/125	SMF 9/125
Reach	10km	10km	10km	800m (OM3)	300m (OM3)	70m (OM3)	10km	10km
Standards	IEEE802.3z 1000BASE-LX	IEEE802.3ae 10GBASE-LR/LW	IEEE802.3cc 25GBASE-LR	IEEE802.3z 1000BASE-SX	IEEE802.3z 1000BASE-SX	IEEE802.by 25GBASE-SR	IEEE802.3z 1000BASE-Bidi	IEEE802.3z 1000BASE-Bidi
Tx Output Power	-9.5dBm to -3.0dBm	-8.2dBm to +0.5dBm	-7.0dBm to +2.0dBm	-9dBm to 0dBm	-7.1dBm to -1.0dBm	-8.4dBm to +2.4dBm	-9.0dBm to -3.0dBm	-9.0dBm to -3.0dBm
Rx Sensitivity	< -21dBm	< -14.4dBm	< -12.0dBm	< -18.0dBm	< -9.9dBm	< -10.3dBm	< -21.0dBm	< -21.0dBm
Operating Temperature	0 to 70 deg C	0 to 70 deg C	-40 to 85 deg C	0 to 70 deg C	0 to 70 deg C	0 to 70 deg C	-40 to 85 deg C	-40 to 85 deg C
Dimensions (mm)	14(W) × 11.4(H) × 56.75(D)		14(W) × 12.45(H) × 57.3(D)	13.40(W) × 13.0(H) × 56.35(D)	13.8(W) × 11.9(H) × 56.5(D)		14(W) × 14.7(H) × 68.8(D)	
Weight	17g	18g	26g	15.8g	17g	18g	24g	24g
Data Rate (Gbps)	1.24 to 1.26	9.953 to 10.3125	24.33 to 25.78	1.0625 to 1.27	10.3125 to 10.7	25.3 to 25.78	1.0625	1.0625

Technical Note

BiDi SFP (Bidirectional SFP)

BIDI SFP transceivers facilitate data transmission and reception over a single fiber optic cable. Unlike standard SFPs, which require two fibers (one for transmission and one for reception), BIDI technology enables bidirectional communication using only one single-mode fiber.

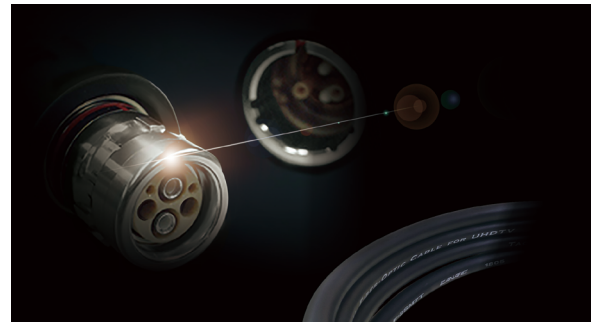


Fiber - Optic Systems

Overview

Canare Sports Venue Solutions

Canare's optical camera cables are used around the world. In the broadcast industry, where precise transmission performance is essential, a high level of stability is required. For decades, Canare has focused on these critical factors and has earned a strong reputation for reliability. The following diagram shows typical Canare products used in stadiums to help you select the most suitable options.



Technical Trend

IP Connectivity Products

Fiber - Optic Systems

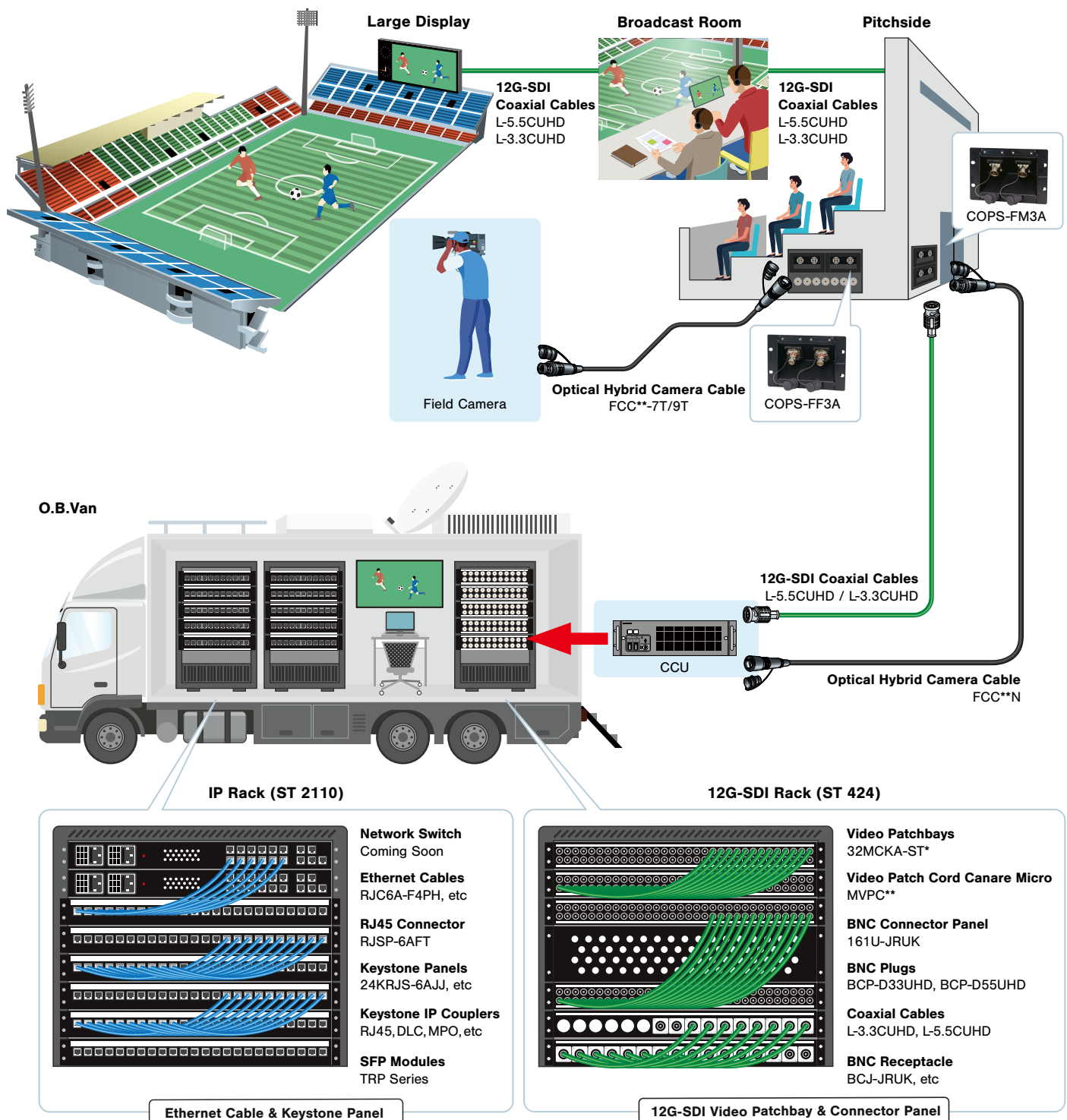
Connectors

Cables

Panels & Patchbays

Multichannel Systems

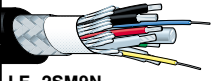
Cable Assemblies



Fiber - Optic Systems

HFO Camera Cables

Hybrid Fiber-optic Camera Cables (SMPTE ST 311)

Type	Model	Sales Units (m)	Nom. O.D. (mm)	Weight kg/100m	Outer Jacket	Overall Shield	Tension Tolerance (N)	Strength Member O.D. (mm)	Min. Bend Radius	Temp. Range (deg C)	Channel Unit		
											Fiber	Aux. (Power)	Signal (Control)
 LF-2SM9N Jacket color: BLK	LF-2SM9N	Call	9.2	12.0	Abrasion-resistance PVC	9/24/0.10TA 91%	700	2.6	6 × Nom. O.D.	-40 to +75	2 × SM 9/125 (low-water-peak) Unit O.D. 0.9 mm	4 × 20 AWG 21 / 0.18TA Unit O.D. 1.7 mm	2 × 25 AWG 7 / 0.18TA Unit O.D. 1.2 mm
	LF-2SM16		16	29.0	Double Jacket PVC								

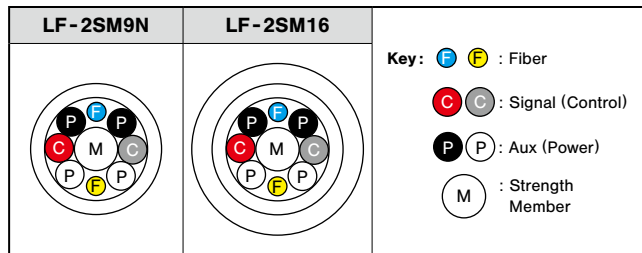
LF-2SM9N

- For general use.
- Abrasion - resistance Jacket enhance the adaptability to all studio and outside broadcast applications.
- Cost effective

Website




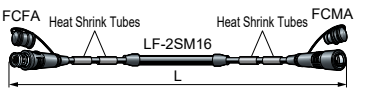
Cross Section



LF-2SM16

- For studio use.
- O.D. 16mm Double Jacket prevents the cable from being jammed under a camera pedestal dolly.

Camera to CCU

Type	Model	Length (m)
 Jacket color: BLK	FCC10N	10
	FCC20N	20
	FCC25N	25
	FCC30N	30
	FCC50N	50
	FCC100N	100
 Jacket color: BLK	FCC150N	150
	FCC200N	200
	FCC30A - WJ	30
	FCC50A - WJ	50

- Standard and widely-used models.
- Heat shrink tubes help in labeling.
- FCC**A - WJ prevents the cable from being jammed under a camera pedestal dolly by its O.D. 16mm double jacket.
- 7 - color connector rings included.
- * Canare OC series (Hybrid-OPS profile) is also available. (see page 13)

Website



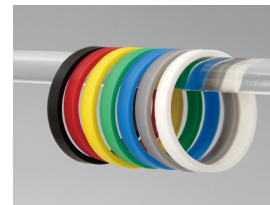
Website



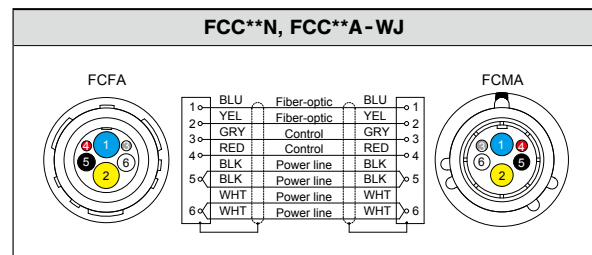
FCFA



FCMA



Color Rings



Wiring Diagram

HFO Protective Covers

Any-time-fit-on protector for SMPTE connector - the new traditional

Model	Shape	Component	Color
FC-CV-F-SET-**	Female	1 × Boot	RD: Red GR: Green
FC-CV-M-SET-**	Male	1 × Holder	YL: Yellow BK: Black

Please specify the color such as FC-CV-F-SET-RD

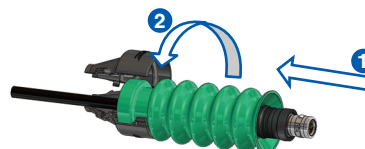
Cover: PVC, Holder: PE

- Canare exclusive retrofittable construction (patent pending)
- Fit for Canare FC series and other SMPTE 304 plugs
- Heavy-duty and harsh environment applications
- Quality verified over shock resistance tests

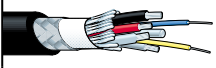
Website



- Not available for Canare OC series
- The male and female are for FCMA and FCFA or equivalent respectively.



Slim Hybrid Fiber-optic Camera Cable

Type	Model	Sales Units (m)	Nom. O.D. (mm)	Weight kg/100m	Outer Jacket	Overall Shield	Tension Tolerance (N)	Strength Member O.D. (mm)	Min. Bend Radius	Temp. Range (deg C)	Channel Unit		
											Fiber	Aux. (Power)	Signal (Control)
	LF-2SM7N	Call	7.1	7.3	Abrasion-resistance PVC	8/24/0.10TA 91%	300	1.4	6 × Nom. O.D.	-40 to +75	2 × SM 9/125 (low-water-peak) Unit O.D. 0.9 mm	2 × 20 AWG 21 / 0.18TA Unit O.D. 1.7 mm	2 × 25 AWG 7 / 0.18A Unit O.D. 1.2 mm

Jacket color: **BLK**

LF-2SM7N

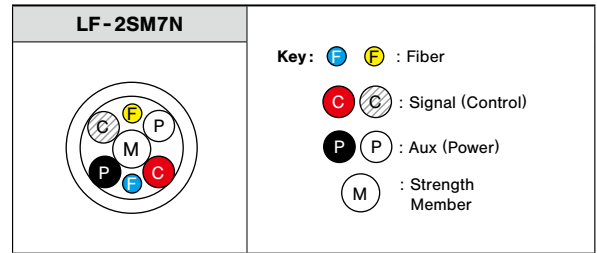
- O.D. 7 mm of slim profile and approx. 40% lighter than LF-2SM9N.
- Best fit for mobile applications.
- The power transmission distance is approx. twice as long as the previous model LF-2SM7R.

Note: The power transmission distance is shorter than typical HFO camera cables (approx. 50% of LF-2SM9N). Please contact us for more information.

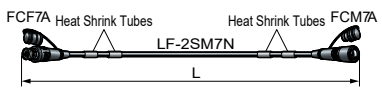
Website



Cross Section



Camera to CCU

Type	Model	Length (m)
	FCC10-7N	10
	FCC20-7N	20
	FCC25-7N	25
	FCC30-7N	30
	FCC50-7N	50
	FCC100-7N	100

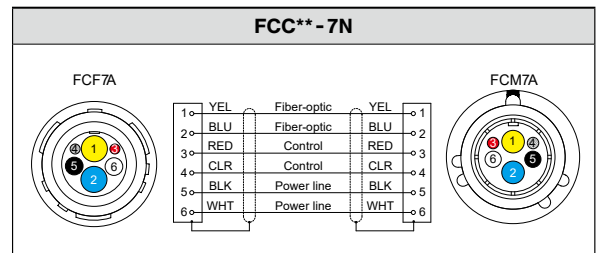
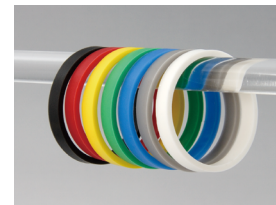
Jacket color: **BLK**

- Equipped with slim and lightweight cable.
- FCC100-7N is approx. 5 kg lighter than typical 100m HFO camera cable as FCC100N.
- Heat shrink tubes help in labeling.
- 7-color connector rings included.

Website



Note: The power transmission distance of FCC**-7N is approx. half of that of the FCC**N. * Canare OC series (Hybrid-OPS profile) is also available. (see page 13)



END OF SALE

Hybrid Fiber-Optic Camera Cable Checker

The following products have reached their end of sale status. Nevertheless, Canare will promise our users that our dedicated support services will persist uninterrupted.

Kit Model	Individual Model	
	Measuring Unit	Loop-back Unit
FCT-FCKIT RED	FCT-FC RED	FCT-FCLB RED
FCT-OCKIT RED	FCT-OC RED	FCT-OCLB RED



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems



Cable Assemblies

Fiber - Optic Systems

HFO Camera Cables

Tough & Flexible HFO Camera Cables

Thermoplastic polyurethane type jacket offers amazing flexibility and superior mechanical properties; Crush Resistance, Impact Resistance and Cyclic Flexing exceed that of MIL.

Type	Model	Sales Units (m)	Nom. O.D. (mm)	Weight kg/100m	Outer Jacket	Overall Shield	Tension Tolerance (N)	Strength Member O.D.	Min. Bend Radius	Temp. Range (deg C)	Channel Unit		
											Fiber	Aux. (Power)	Signal (Control)
 Jacket color: BLK DEEP RED DEEP GRN	LF-2SM9T	Call	9.2	9.8	TPU + PVC	N/A	1500	1.8 mm + Tensile strength fiber	Equal to Nom. O.D.	-40 to +75	2 x SM 9/125 (low-water-peak) Unit O.D. 0.9 mm	4 x 20 AWG 102 / 0.08A Unit O.D. 1.75 mm	2 x 25 AWG 24 / 0.08A Unit O.D. 1.2mm
 Jacket color: BLK	LF-2SM7T	Call	7.1	5.5	TPU + PVC	N/A	1000	0.63 mm + Tensile strength fiber	Equal to Nom. O.D.	-40 to +75	2 x SM 9/125 (low-water-peak) Unit O.D. 1.7 mm	2 x 23 AWG 60 / 0.08A Unit O.D. 1.4 mm	2 x 26 AWG 30 / 0.08A Unit O.D. 1.1 mm

LF-2SM9T

- Heavy-duty yet Flexible.
- Ideal for remote broadcast applications.
- Minimum bend radius: 9.2 mm.

LF-2SM7T

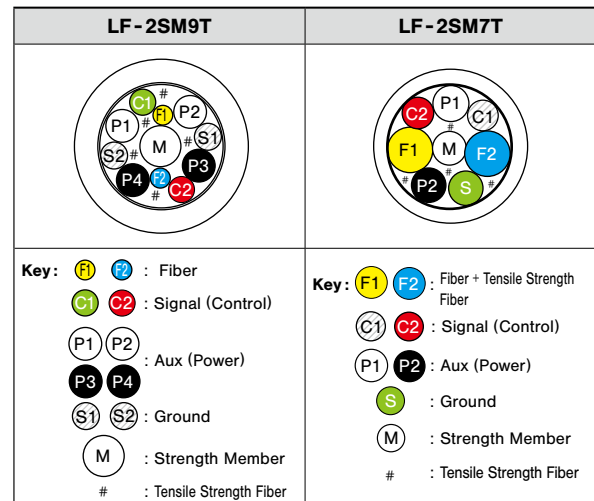
- Flexible, Slim, Lightweight, and moreover, Heavy-duty.
- Ideal for short-distance remote broadcast applications of up to 200 meters.
- O.D. 7.1 mm and weighing only 5.5 kg/100 m, it's so easy to carry around.
- Minimum bend radius: 7.1 mm.
- Fiber units include tensile strength fiber.

Note: The power supply distance of LF-2SM7T is shorter than other HFO camera cables. (approx. 30% of LF-2SM9T)
LF-2SM7T requires a special technique during a connector assembly, so you can buy the cable assemblies shown below.

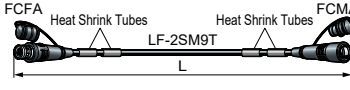

Website



Cross Section



Camera to CCU

Type	Model	Length (m)
 Jacket color: BLK DEEP RED DEEP GRN	FCC10-9T	10
	FCC20-9T	20
	FCC25-9T	25
	FCC30-9T	30
	FCC50-9T	50
	FCC100-9T	100
 Jacket color: BLK	FCC150-9T	150
	FCC200-9T	200
	FCC10-7T	10
	FCC20-7T	20
	FCC25-7T	25
	FCC30-7T	30
	FCC50-7T	50
	FCC100-7T	100

- Tough & Flexible cable
- Fit for mobile applications in harsh environments.
- Heat shrink tubes help in labeling.
- 7-color connector rings included.

Website



FCC**-9T

Website



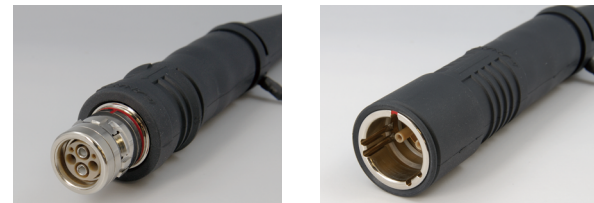
FCC**-7T

Note: The power transmission distance of FCC**-7T is quite shorter than typical HFO camera cables.

* Canare OC seires (Hybrid-OPS profile) is also available. Please contact us for more details.

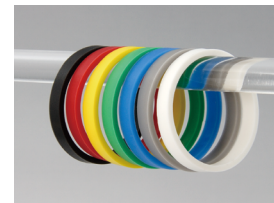


FCC**-7T

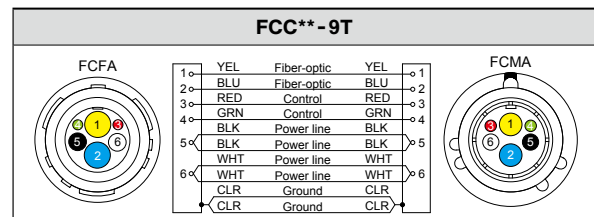


FCFA, FCF7A

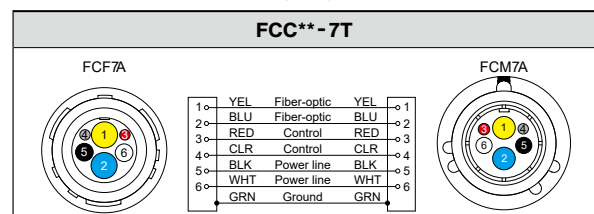
FCMA, FCM7A



Color Rings



Wiring Diagram



Wiring Diagram

HFO Camera Cable Assemblies (Flanged Type)

Panel to CCU

Type	Model	Length (m)
	FCC05N-FRCM	5
	FCC10N-FRCM	10
	FCC05N-FMRC	5
	FCC10N-FMRC	10

Jacket color: **BLK** IU-FCF-SET included

Jacket color: **BLK** IU-FCM-SET included

* Canare OC series (Hybrid-OPS profile) is also available. (see page 13)

- HFO camera cable with the flange for panel mounting.
- SMPTE ST 304, ST 311, and ARIB BTA S-1005B compliant.
- Return loss: 45dB or greater ($\lambda=1.3\mu\text{m}$).
- Insertion loss: 0.5dB or less ($\lambda=1.3\mu\text{m}$).
- Connector body material is stainless steel.
- Color rings and insulation plates included.
- See below for the panel hole dimensions.

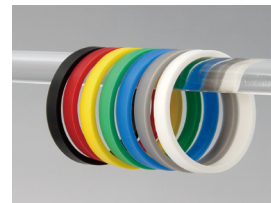
Website



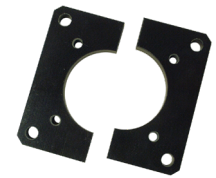
FCFRCA



FCMRCA



Color Rings



IU-FC*-SET

HFO Camera Receptacle Cables

Pigtails

Type	Model	Length (m)
	FCS015A-FR	1.5
	FCS015A-MR	1.5

Jacket color: **BLK** IU-FCF-SET included

Jacket color: **BLK** IU-FCM-SET included

* Canare OC series (Hybrid-OPS profile) is also available. (see page 13)

- Ideal for connecting wall terminal panels to splice enclosures, etc.
- Return loss: 45dB or greater ($\lambda=1.3\mu\text{m}$).
- Insertion loss: 0.5dB or less ($\lambda=1.3\mu\text{m}$).
- Connector body material is stainless steel.
- Insulation plates included.
- See below for the panel hole dimensions.

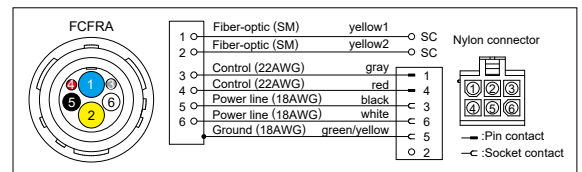
Website



FCFRCA



FCMRCA



Wiring Diagram

Insulation Plate

Ideal for perfect insulation between individual connector and panel.

Model	Suitable Connector
IU-FCM-SET	FCMRA, FCMRCA
IU-FCF-SET	FCFRA, FCFRCA

- Material: Bakelite (phenolic resin)
- Mounting screws included.

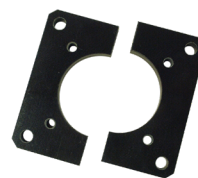
Extraction Tool

Extraction tool helps easy to clean Canare HFO connectors.

Model	Suitable Connector
ASPT-1	FCFA, FCF7A, FCFRA, FCFRCA

- Tool to be used to release the alignment sleeve unit when cleaning HFO connectors.

* Use the CLETOP 2.5/2.0 (100) cleaning stick to clean fiber-optic camera connectors.

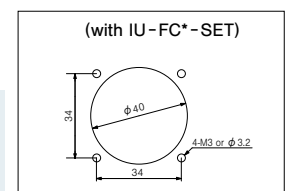


IU-FC*-SET

Website



Hole Dimensions



ASPT-1

Website



Quick-release
US Patent No.7241055B2

Fiber-Optic Systems

HFO Camera Cables

HFO Camera Cable Assemblies (Japanese Style)

Canare OC hybrid camera connectors are commonly used in Japan and Asian countries. It includes the same combination of SMPTE 304 but different pinouts. Improved reliabilities and advanced maintenance features.



OC connectors

- Symmetric pinout
- Finger detachable insulator
- Better grip, proper connections
- SMPTE 311 cable ready
- Camera MFGs accepted
- Hybrid-OPS profile



FC connectors

- SMPTE and ARIB standard
- Detachable insulator with tool
- Widely used in the market
- Hybrid-3K profile

Camera to CCU

O C C 1 0 0 - N

Series name

- Cable mount plugs
- Male and female

Lengths

- 01 = 1 meters
- 100 = 100 meters
- Call for stocked lengths.

Cable type

- N** : LF-2SM9N O.D. 9 mm PVC Jacket (most common)
- 7N** : LF-2SM7N O.D. 7 mm PVC Jacket
- 9T** : LF-2SM9T O.D. 9 mm TPU Jacket w/o Shield
- 7T** : LF-2SM7T O.D. 7 mm TPU Jacket w/o Shield
- TPU = Thermoplastic Polyurethane

Website



OCFA



OCMA

Panel to CCU

O C C 0 5 N - F R C M

Series name

- PNL mount M to
- cable mount F
- and vice versa

Lengths

- 05 = 5 meters
- 10 = 10 meters
- Call for custom lengths.

Connector type

- FRCM** : OCFCRB-OCMA
- FMRC** : OCMRCA-OCFA

Website



OCFCRB



OCMRCA

Cable type: LF-2SM9N

Pigtails

O C S 0 1 5 - F R

Series name

- OC breakout

Lengths

- 015 = 1.5 meters
- Call for custom lengths.

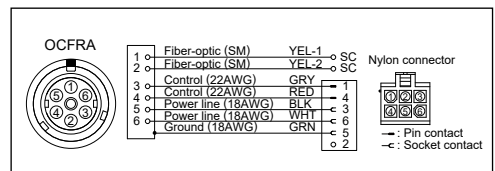
Connector type

- FR** : OCFA to 2 × SC, 1 × Nylon
- MR** : OCMRA to 2 × SC, 1 × Nylon

Website



OCS015-FR



SMPTE Conversion

F C M 0 2 N - O C F

Connector A

- FCM** : FCMA
- FCF** : FCFA

Lengths

- 02 = 2meters
- Call for custom lengths.

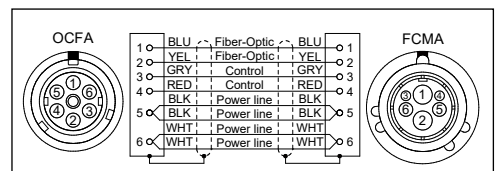
Connector B

- OCF** : OCFA
- OCM** : OCMA

Website



FCF02N-OCM



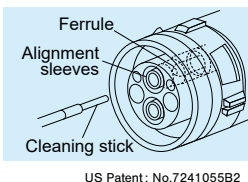
Cable type: LF-2SM9N
Call for custom models.

Technical Note

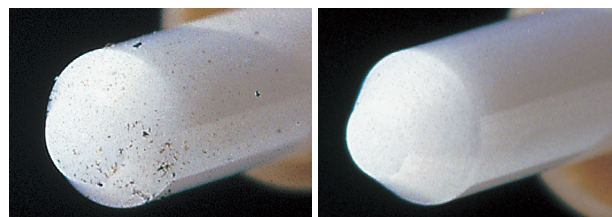
Maintaining Hybrid Fiber-Optic Camera Connectors

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 hybrid fiber-optic camera connectors.

- For Plugs, 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. Canare FCFA and FCFRA enhance easy cleaning procedure for its innovative alignment sleeve and insulator detachable design.



- For Jacks, 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.



Cleaning Stick Model: CLETOP 2.5/2.0

- Compact and disposable
- Allows cleaning both the tips and sides of ferrules
- Manufactured by NTT-AT



IBC Brand Cleaner M-20 Model: 14347 CLEANER

- Easy "one-push" cleaner
- Allows cleaning the tips of ferrules without removing alignment sleeve
- Manufactured by US Conec



Cleaning guide for female connectors

■ FC Series FCFA / FCF7A / FCFRA / FCFRCA

■ OC Series & OM6 Series OCFA / OCF7A / OCFRA / OCFRCB / OM6PA / OM6PRA

1 Extract an insulator unit

For FC series, use a removal tool: ASPT-1. OC series does not require special tool. Minus driver or coin should be fine.



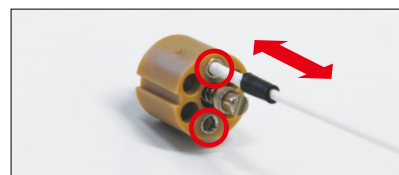
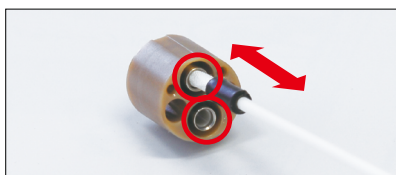
2 Clean up ferrules

Canare suggests using CLETOP(photo shown). This stick features ferrule guide for efficient cleaning. For monitoring, a fiber scope will be handy as it displays real time ferrule surface.



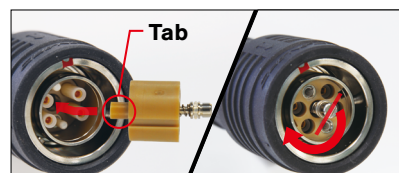
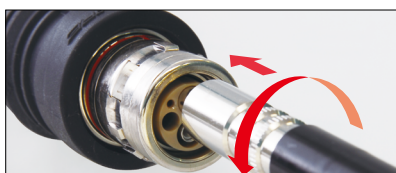
3 Dust away on alignment sleeves

Dust also remains on inner part of alignment sleeve. Another end of CLETOP is ideal for wiping inside of alignment sleeve.



4 Put back the unit in place

The right position marked on dots. Insert the unit to the end-click sound. Press again with your finger to make sure properly placed. Insufficient locking may cause an issue-unit remaining on male connector.



■ OM12 Series OM12JR / OM12J

OM12PR / OM12P

1 Put back the unit in place

The OM12 Series does not have a removable insulator unit. Please clean the ferrule directly. When using the CLETOP stick, use the non-tubed side for OM12JR and OM12J, and the tubed side for OM12PR and OM12P.



Fiber - Optic Systems

HFO Camera Connector Panels

Hybrid Fiber-optic Camera Connector Panels

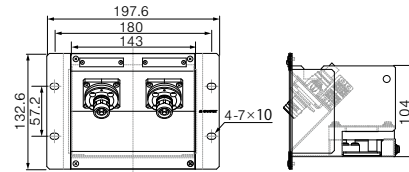
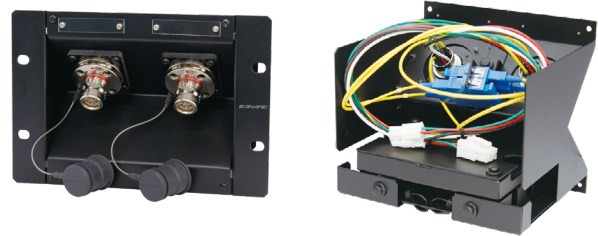
Pre-terminated HFO camera connector panel with built-in splice enclosure box provides easy and quick installation between HD camera system and terminal panel or rack. By combining the unit and frame, HFO camera connector panel enables a variety of layouts depending on the system design.



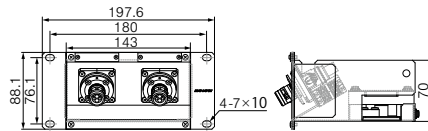
■ COPS Series (SMPTE)

Model	Panel Size	HFO Connectors* (Assembly)
COPS-FF3A	Wall Mount Type 3RU Height, W: 197.6mm	2 × FCFRA (FCS003A-FR)
COPS-FM3A		2 × FCMRA (FCS003A-MR)
COPS-FF2A	Wall Mount Type 2RU Height, W: 197.6mm	2 × FCFRA (FCS003A-FR)
COPS-FM2A		2 × FCMRA (FCS003A-MR)
COPS3-FF3A	Rack Mount Type 3RU	6 × FCFRA (FCS003A-FR)
COPS3-FM3A		6 × FCMRA (FCS003A-MR)
COPS3-FF2A	Rack Mount Type 2RU	6 × FCFRA (FCS003A-FR)
COPS3-FM2A		6 × FCMRA (FCS003A-MR)

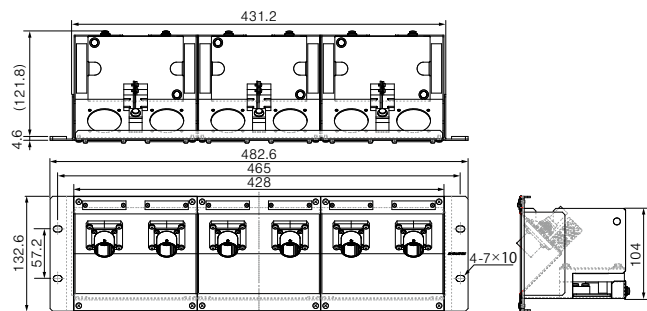
*HFO connectors are pre-terminated. (length: 0.3 m)
*Canare OC series (Hybrid-OPS profile) is also available. Please contact us for more details.



COPS-FF3A



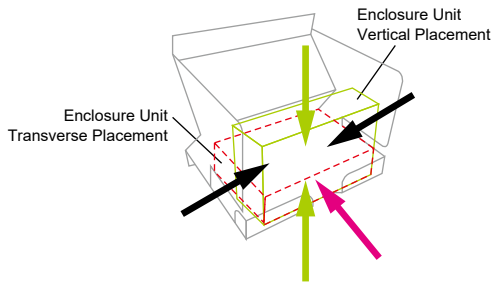
COPS-FF2A



COPS3-FM3A

Key Features and Benefits

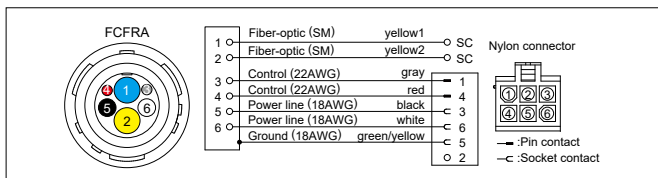
- Exclusive "5-directional Wiring"
- Convenient to build I/O interface between HD facilities and HD OB vans
- Variety of choice of 2RU/3RU and wall/rack mount
- Pre-terminated HFO connectors reduce installation time dramatically.
- Cost effective
- Lightweight aluminum chassis



5 directions of cabling as indicated by colored arrows

- Vertical/Transverse placement
- Transverse placement
- Vertical placement

5-directional Wiring
JP Patent No.4388540



Wiring Diagram

Accessories:
Fiber-optic cable w/SC connector (2m), grounding cable, nylon connector, pin contact, socket contact, tie-band, fusion splice protection sleeve, splice holder, color-coded tube, mounting screw, laser warning label.

Note: Assembly tools for the nylon connectors are NOT include.
(AMP 91529-1: 26 to 22 AWG and AMP 91536-1: 20x2 to 16 AWG)

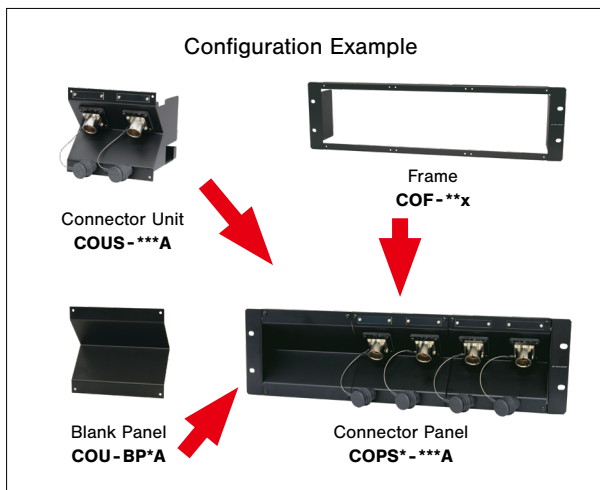
Individual Frame and Unit

Model	Height	Description
COUS-FF3A	3RU	Connector Unit of COPS(3)-FF3A
COUS-FM3A		Connector Unit of COPS(3)-FM3A
COF-13C		Frame of COPS (for 1 unit)
COF-33B	2RU	Frame of COPS3 (for 3 units)
COUS-FF2A		Connector Unit of COPS(3)-FF2A
COUS-FM2A		Connector Unit of COPS(3)-FM2A
COF-12B		Frame of COPS (for 1 unit)
COF-32A		Frame of COPS3 (for 3 units)

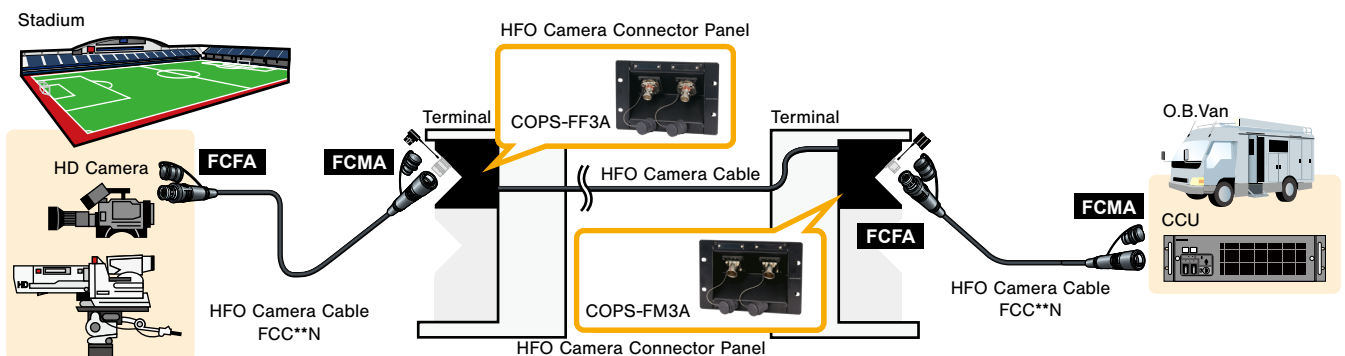
*HFO connectors are pre-terminated. (length: 0.3 m)
 *Canare OC series (Hybrid-OPS profile) is also available. Please contact us for more details.

Optional Parts

Model	Type	Suitable Frame/Unit
COU-BP3A	Blank Panel	COF-13A, COF-33B (3RU frames)
COU-BP2A		COF-12A, COF-32A (2RU frames)
COU-CV3	Top Cover	COUS-FF3A, COUS-FM3A (3RU units)
COU-CV2		COUS-FF2A, COUS-FM2A (2RU units)



<Example of Use>



Hybrid Fiber-optic Splice Enclosures

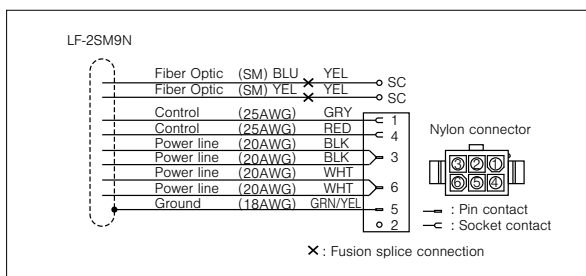
The optimized fiber-optic splice enclosures for use with HFO camera cables.

Model	No. of cables (capacity)	No. of splice trays	No. of Adapters	
			SC	Nylon
FCE-2	2	1	4	2
FCE-4	4	2	8	4
FCE-6	6	3	12	6

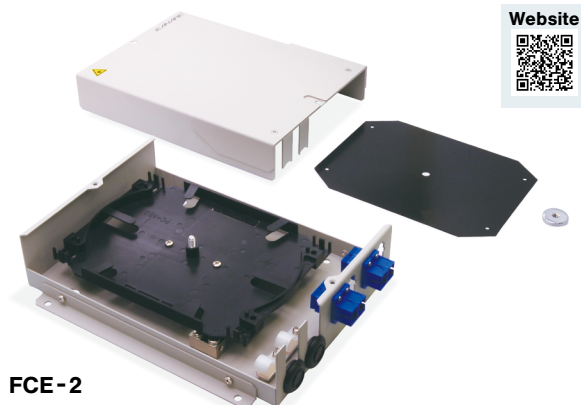
- Used to protect fusion splice connection parts
- Designed for use with LF-2SM9N
- Easy cable installation
- Can be placed vertically or horizontally
- Detachable brackets and a connector protection cover
- Insulated tension member clamp

Note :

The following tools are required for installing the nylon connector.
 AMP 91529-1 (26 to 22 AWG) and AMP 91536-1 (20 × 2 to 16 AWG)

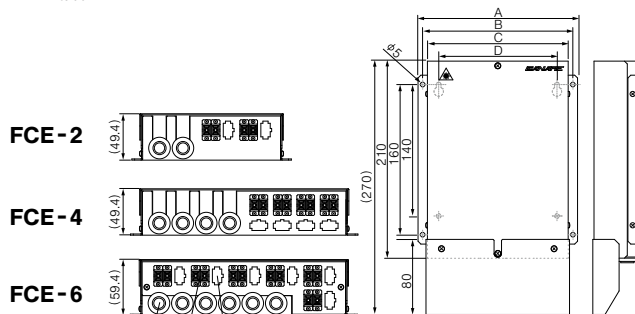


Wiring Diagram



FCE-2

Accessories:
 Fiber-optic cable w/SC connector (2m), splice holder, fusion splice protection sleeve, nylon connector, pin contact, socket contact, tie band, grounding cable, color-coded tube.



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

Fiber - Optic Systems

Multi-Channel Snake

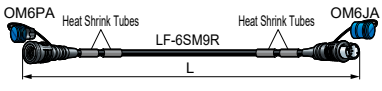
Multi-Channel Fiber Optic Cables

Canare fiber-optic snake products are developed by extending ideas of SMPTE HFO camera solution. Individual multiple ferrules and robust metal chassis are engineered for heavy duty applications such as sports events or live productions connecting OBVAN to FOH stage box or venues.

- Canare exclusive design
- Heavy-duty alternative to MTP/MPO connectors
- Abrasion-resistance cable jacket
- Single-mode, ITU-T G.657.A2 low bending loss and low water-peak fiber
- Tensile strength: 500 N or less
- RL: 45 dB or greater ($\lambda = 1.3 \mu\text{m}$)
- Open to any SM optical signal
- 2mm SMPTE Ferrules

OM6 Series

Trunk Cable : Plug - Jack

Type	Model	Length (m)
	OM6C10	10
	OM6C20	20
	OM6C25	25
	OM6C35	35
	OM6C50	50
	OM6C100	100
	OM6C150	150
OM6C200	200	

Jacket color: **BLK**



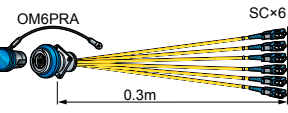
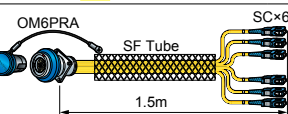
OM6PA



OM6JA

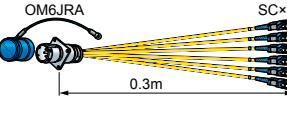
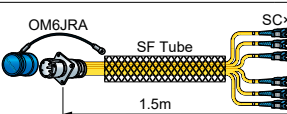


Fantail : P Receptacle to SC

Type	Model	Length (m)
	OM6S003-PR	0.3
	OM6S015-PR	1.5

Jacket color: **YEL** IU-FCM-SET included

Fantail : J Receptacle to SC

Type	Model	Length (m)
	OM6S003-JR	0.3
	OM6S015-JR	1.5

Jacket color: **YEL** IU-FCM-SET included



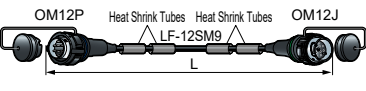
OM6PRA



OM6JRA

OM12 Series

Trunk Cable : Plug - Jack

Type	Model	Length (m)
	OM12C10	10
	OM12C20	20
	OM12C30	30
	OM12C40	40
	OM12C50	50
	OM12C100	100

Jacket color: **BLK**



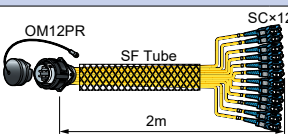
OM12P



OM12J

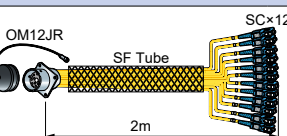


Fantail : P Receptacle to SC

Type	Model	Length (m)
	OM12S02-PR	2

Jacket color: **YEL**

Fantail : J Receptacle to SC

Type	Model	Length (m)
	OM12S02-JR	2

Jacket color: **YEL**

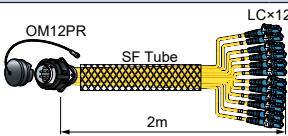


OM12PR



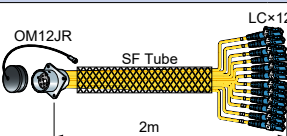
OM12JR

Fantail : P Receptacle to LC

Type	Model	Length (m)
	OM12S02-PR-L	2

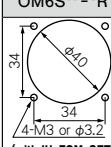
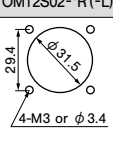
Jacket color: **YEL**

Fantail : J Receptacle to LC

Type	Model	Length (m)
	OM12S02-JR-L	2

Jacket color: **YEL**

Hole Dimensions

OM6S**-*R	OM12S02-*R(-L)
	

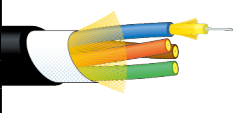
(with IU-FCM-SET)

Website



Tactical Fiber-optic Cable

Particularly rugged multichannel fiber-optic cable designed for mobile applications.

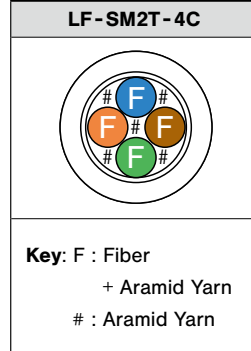
Type	Model	No. of Ch.	Sales Units (m)	Nom. O.D. (mm)	Weight kg/100m	Tension Tolerance (N)	Strength Member	Min. Bend Radius	Temp. Range (deg C)	Fiber-optic Unit		
										Fiber	Attenuation	Unit O.D.
	LF-SM2T-4C	4	100 200 500	7.8	4.9	1400	Aramid yarn	Equal to Nom. O.D.	-55 to +85	SM 9/125 (low-water-peak)	0.6 dB/km @1310 nm	2.0 mm including aramid yarn

Jacket color: **BLK**



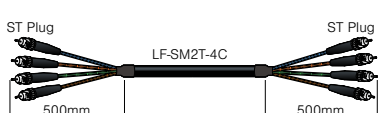
LF-SM2T-4C

- Heavy-duty and high flexibility
- * Crush resistance: 2,000 N/cm
- * Impact resistance: 300 impacts
- * Cycle flexing: 20,000 cycles
- Single-mode
- Color-coded breakout type unit
- Thermoplastic polyurethane jacket
- Aramid yarn strength member
- 4-channel cable best suited for Quad-link 3G-SDI signals.

Cross Section



Cable Assemblies

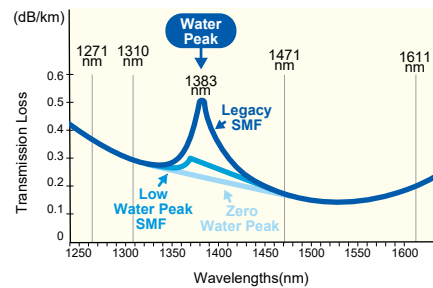
Type	Model	Length (m)
	4FS50T-SS	50
	4FS100T-SS	100
	4FS150T-SS	150
	4FS200T-SS	200
	4FS50T-LS	50
	4FS100T-LS	100
	4FS150T-LS	150
	4FS200T-LS	200
	4FS50T-ST	50
	4FS100T-ST	100
	4FS150T-ST	150
	4FS200T-ST	200

Jacket color: **BLK**

Technical Note

Canare's Single-mode Fiber-optic Cables

Canare's single mode fiber (SMF) cables are compliant with ITU-T G.652.D as well as ITU-T G.657.A2. Our SMF cables feature less water peak and excellent wavelength multiplexing capabilities in minimum 7.5mm bending radius per a unit, which gives you cabling even easier.

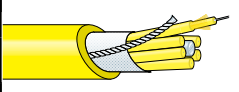


ITU-T	Category	Bend Radius (mm)	Number of Turns (times)	Bending Loss(Max. at)	
				$\lambda=1550\text{nm}$ (dB)	$\lambda=1625\text{nm}$ (dB)
G.657	A1	15	10	0.25	1.0
		10	1	0.75	1.5
	A2	15	10	0.03	0.1
		10	1	0.1	0.2
		7.5	1	0.5	1.0
	B2	15	10	0.03	0.1
		10	1	0.1	0.2
		7.5	1	0.5	1.0
	B3	10	1	0.03	0.1
		7.5	1	0.08	0.25
5		1	0.15	0.45	

Website



Single-mode Fiber-optic Cables (Multichannel)

Type	Model	No. of Ch.	Sales Units (m)	Nom. O.D. (mm)	Weight kg/100m	Outer Jacket	Tension Tolerance (N)	Min. Bend Radius	Temp. Range (deg C)	Fiber-optic Unit		
										Fiber	Attenuation	Unit O.D.
	LF-SM2-2C	2	Call	7.4	5.4	PVC	290	10 x Nom. O.D.	-40 to +75	SM 9/125 + Aramid yarn + PVC jacket	0.5 dB/km @1310nm	2.0 mm including aramid yarn
	LF-SM2-4C	4		7.4	5.5		290					
	LF-SM2-6C	6		9.0	7.3		300					
	LF-SM2-8C	8		10.0	10.4		780					
	LF-SM2-12C	12		12.8	14.2		780					
	LF-SM2-16C	16		14.7	16.3		780					
	LF-SM2-24C	24		15.0	18.3		780					

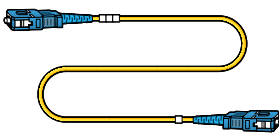
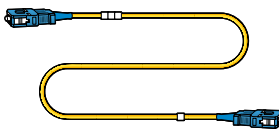
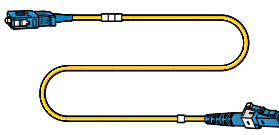
Jacket color: **YEL**

- Smooth PVC Jacket
- Including a central strength member and a rip cord.

Fiber - Optic Systems

Fiber - optic Cables

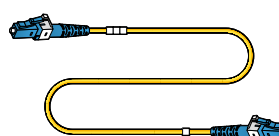
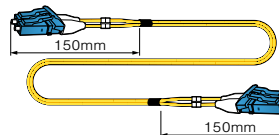
Single-mode Fiber Optic Patch Cables

Type	Model	Length (m)
SC - SC 	FS3C002A - S	0.2
	FS3C003A - S	0.3
	FS3C005A - S	0.5
	FS3C007A - S	0.7
	FS3C01A - S	1
	FS3C02A - S	2
SC - SC 	FS2C002A - SS	0.2
	FS2C003A - SS	0.3
	FS2C005A - SS	0.5
	FS2C007A - SS	0.7
	FS2C01A - SS	1
	FS2C02A - SS	2
SC - LC 	FS2C002A - SS/LS	0.2
	FS2C003A - SS/LS	0.3
	FS2C005A - SS/LS	0.5
	FS2C007A - SS/LS	0.7
	FS2C01A - SS/LS	1
	FS2C02A - SS/LS	2

Jacket color: **YEL** Cable O.D.: 3 mm

Jacket color: **YEL** Cable O.D.: 2 mm

Jacket color: **YEL** Cable O.D.: 2 mm

Type	Model	Length (m)
LC - LC 	FS2C002A - LS	0.2
	FS2C003A - LS	0.3
	FS2C005A - LS	0.5
	FS2C007A - LS	0.7
	FS2C01A - LS	1
	FS2C02A - LS	2
LC - LC Duplex 	2FSZ2S005A - DLS	0.5
	2FSZ2S007A - DLS	0.7
	2FSZ2S01A - DLS	1
	2FSZ2S02A - DLS	2
	2FSZ2S03A - DLS	3
	2FSZ2S04A - DLS	4
LC - LC Duplex	2FSZ2S05A - DLS	5

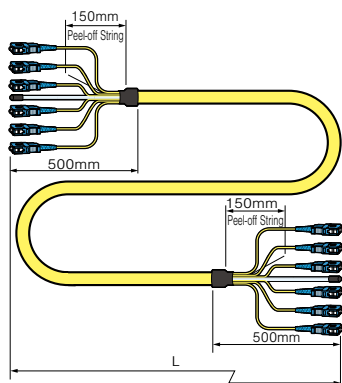
Jacket color: **YEL** Cable O.D.: 2 mm

Jacket color: **YEL** Cable O.D.: 2 mm

- ITU-T G.652.D/G.657.A2
- Low - water - peak
- Minimum bend radius : 10 mm
- Insertion loss : 0.5 dB max.
- Return loss : 50 dB max. (UPC)
- UL type OFNR



Single-mode Fiber Optic Fantails

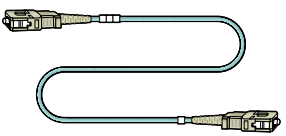
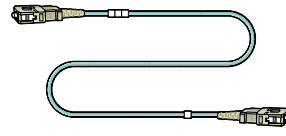
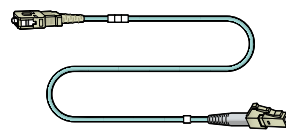
Type	Channel	Model	Length (m)	Fiber Optic Cable		
				Part Number	Unit O.D. (mm)	Nom. O.D. (mm)
SC - SC 	2	2FS10 - S	10	LF - SM2 - 2C	7.4	2
		2FS20 - S	20			
		2FS50 - S	50			
	4	4FS10 - S	10	LF - SM2 - 4C	7.4	
		4FS20 - S	20			
		4FS50 - S	50			
	6	6FS10 - S	10	LF - SM2 - 6C	9.0	
		6FS20 - S	20			
		6FS50 - S	50			
	8	8FS10 - S	10	LF - SM2 - 8C	10.0	
		8FS20 - S	20			
		8FS50 - S	50			
	12	12FS10 - S	10	LF - SM2 - 12C	12.8	
		12FS20 - S	20			
		12FS50 - S	50			
	16	16FS10 - S	10	LF - SM2 - 16C	14.7	
		16FS20 - S	20			
		16FS50 - S	50			
	24	24FS10 - S	10	LF - SM2 - 24C	15.3	
		24FS20 - S	20			
		24FS50 - S	50			

Jacket color: **YEL**

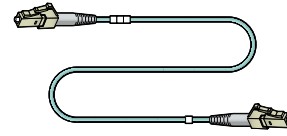
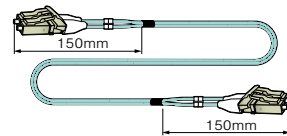
- Flexible cable with reliable bellcore boots
- Adjustable fantail length with peel - off string
- UPC polishing; Return loss ≥ 50 dB for single mode
- Transmission loss 0.5dB at $\lambda=1.31\mu\text{m}$ and 0.4dB at $\lambda=1.55\mu\text{m}$



OM3 Multi-mode Fiber Optic Patch Cables

Type	Model	Length (m)
 Jacket color: AQUA Cable O.D.: 3 mm	FM33C005-S	0.5
	FM33C01-S	1
	FM33C03-S	3
	FM33C05-S	5
 Jacket color: AQUA Cable O.D.: 2 mm	FM32C005-SS	0.5
	FM32C01-SS	1
	FM32C03-SS	3
	FM32C05-SS	5
 Jacket color: AQUA Cable O.D.: 2 mm	FM32C005-SS/LS	0.5
	FM32C01-SS/LS	1
	FM32C03-SS/LS	3
	FM32C05-SS/LS	5

- Fiber type: Multi-mode 50/125 OM3
- Typically used in 10 Gigabit Ethernet
- Minimum bend radius: 10 mm

Type	Model	Length (m)
 Jacket color: AQUA Cable O.D.: 2 mm	FM32C005-LS	0.5
	FM32C01-LS	1
	FM32C03-LS	3
	FM32C05-LS	5
 Jacket color: AQUA Cable O.D.: 2 mm	2FM3Z2S005-DLS	0.5
	2FM3Z2S01-DLS	1
	2FM3Z2S03-DLS	3
	2FM3Z2S05-DLS	5

- Insertion loss: 0.3 dB max.
- Return loss: 30 dB max. (PC)
- UL type OFNR

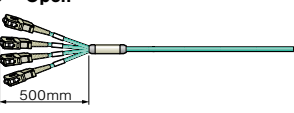
Website



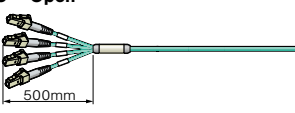
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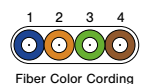
OM3 Multi-mode Fiber Optic Fan-out Cables

Type	Model	Length (m)
 Jacket color: AQUA	4FO-M3-015-SS	1.5
	4FO-M3-03-SS	3
	4FO-M3-05-SS	5



- 4-core Multimode 50/125 OM3 Ribbon Fiber
- Typically used in 10 Gigabit Ethernet
- Insertion loss: 0.3 dB max.
- Return loss: 30 dB max. (PC)

Type	Model	Length (m)
 Jacket color: AQUA	4FO-M3-015-LS	1.5
	4FO-M3-03-LS	3
	4FO-M3-05-LS	5

- Ribbon fiber cable: 2.1 × 3.5 mm outer dimensions
- Fan-out unit: 2 mm outer diameter, 500 mm length
- Fan-out tubing: 8 mm outer diameter
- UL type OFNR



Multi-core OM3 Multi-mode Fiber Optic Cables

Type	Model	No. of Ch.	Sales Units (m)	Nom. O.D. (mm)	Weight kg/100m	Tension Tolerance (N)	Min. Bend Radius	Temp. Range (deg C)	Fiber-optic Unit		
									Fiber	Attenuation	Dim. (mm)
 Jacket color: BLK Unit color: AQUA	LF-M32T-6C New	6	Call	9.2	8.0	700	6 × Nom. O.D.	-40 to +75	MM 50/125	3 dB/km @850nm 1 dB/km @1300nm	2.0 (round)
	LF-M32-4C-EM	4		7.4	5.6	290					
	LF-M32-6C-EM	6		9.0	7.5	300					
	LF-M32-8C-EM	8		10.1	10.8	780					
 Jacket color: BLK Unit color: AQUA	LF-M3R4-12C-EM	12 (3×4 core)		7.4	5.6	300		-20 to +60			1.5 × 2.5 (ribbon)

Jacket material: Flame retardant PE

- OM3 fiber; typically used in 10 Gigabit Ethernet.
- Including a central strength member and a rip cord.
- Each unit has aramid strength member.

Connectors

75Ω BNC Connectors

75Ω BNC Crimp Plugs

Website



Canare added the new BCP-D series for 12G-SDI. SMPTE ST 2082-1 fully compliant connector makes UHD solutions as simple as existing SDI systems. The world's highest quality BNC includes BCP-B for 3G-SDI, BCP-A/C for up to HD.

■ BCP-D Series **12G-SDI**

Return Loss: 20 dB @ 6 GHz, 15 dB @ 12 GHz

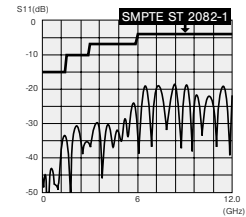
Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
BCP-D33UHD	L-3.3CUHD	—	BN1181	BN7003A	CB03	TCD-35CA
BCP-D33UHW	L-3.3CUHWS	—	BN1181	BN7015A	CB04	TCD-451CA
BCP-D55UHD	L-5.5CUHD	—	BN1175	B75004A	—	TCD-55UHD
BCP-D55UHW	L-5.5CUHWS	—	BN1192	BN7014	CB055W	TCD-57C
BCP-D57	—	4794R	BN1192	BN7002	—	TCD-57C
BCP-D8UHD	L-8CUHD, L-8CHD	—	BN1174	BN7147	—	TCD-8HD*

* Standard package (20pcs/100pcs)

* Crimp tool for TCD-8HD is TC-2



BCP-D55UHD



Return loss for BCP-D55UHD

■ BCP-B Series

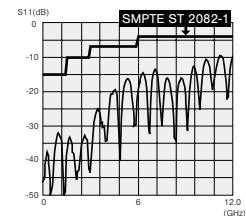
Return Loss: 26.4 dB @ 3 GHz

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
BCP-B25HD	L-2.5CHD, L-2.5CHLT	VDM230	B11015E	BN7129	CB02	TCD-35CA
BCP-B25HW	L-2.5CHWS, V4-2.5CHW	—	B11015E	BN7143	CB02	TCD-35CA
BCP-B26	—	1855A, 1855P	B11014E	BN7029C	CB02	TCD-35CA
BCP-B28	—	1855ENH, HD PRO 0.6/2.8 AF	B11015E	BN7052A	CB02	TCD-35CA
BCP-B3F	L-3CFB, V*-3CFB	—	B11015E	BN7003A	CB03	TCD-35CA
BCP-B31F	L-3CFW, V*-3CFW	—	B11015E	BN7015A	CB04	TCD-4CA TCD-451CA
BCP-B4F	L-4CHD, L-4CFB, V*-4CFB	1505A, 1505ANH, VPM2000, HD PRO 0.8/3.7 AF	B11016E	BN7015A	CB04	TCD-4CA TCD-451CA
BCP-B45HW	L-4.5CHWS	1694F	B11020D	BN7016	CB05A	TCD-35CA
BCP-B53	L-4.5CHD	1694A	B11020D	BN7046	CB05A	TCD-35CA
BCP-B56	—	HD PRO 1.0/4.8 AF	B11020D	BN7046	CB05A	TCD-35CA
BCP-B5F	L-5CFB, V*-5CFB	—	B11020D	B75004A	CB05A	TCD-5CF TCD-55FA
BCP-B51F	L-5CFW, V*-5CFW	—	B11020D	B75004A	CB05A	TCD-5CF TCD-55FA

* Standard package (20pcs/100pcs)



BCP-B53



Return loss for BCP-B53

■ BCP-A Series

Return Loss: 26.4 dB @ 2 GHz, 20.8 dB @ 3 GHz (*1)

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
BCP-A25	L-2.5C2V	—	BN1018A	BN7029C	CB02	TCD-35CA
BCP-A25F	L-2.5CFB	1855A, 8218, 1417B, 1418B	B11014E	BN7029C	CB02	TCD-35CA
BCP-A3	L-3C2VS, L-3C2V, V*-3C	—	B11014E	BN7003A	CB03	TCD-35CA
BCP-A31	L-3C2W	—	B11014E	BN7011	CB04	TCD-31C
BCP-A3AHD	L-3C-AHD	—	B11016E	BN7003A	CB03	TCD-35CA
BCP-A3F	L-3CFB, V*-3CFB	—	B11015E	BN7003A	CB03	TCD-35CA
BCP-A4	LV-61S	8241, 8279, RG-59B/U	B11015E	BN7015A	CB04	TCD-4CA TCD-451CA
BCP-A42	—	1505F	B11016E	BN7011	CB04	TCD-31C
BCP-A4F	L-4CHD, L-4CFB, V*-4CFB	1505A, 1505ANH, 8212, 8241F, 9167, 9259, 9659, VPM2000, HD PRO 0.8/3.7 AF	B11016E	BN7015A	CB04	TCD-4CA TCD-451CA
BCP-A5	L-5C2VS, L-5C2V, V*-5C	—	B11016E	BN7016	CB05A	TCD-35CA
BCP-A52	L-5C2W	—	B11016E	BN7014	—	TCD-451CA
BCP-A55	—	1695A, VSD2001TS	B11020D	BN7045A	CB04	TCD-35CA
BCP-A5F	L-5CFB, V*-5CFB	—	B11020D	B75004A	CB05A	TCD-35CA
BCP-A77	LV-77S	8281F	B11016E	B75004A	CB05A	TCD-5CF TCD-55FA
BCP-VA3	V*-3C	—	B11014E	BN7052A	CB03	TCD-35CA
BCP-VA5	V*-5C	—	B11016E	BN7045A	CB05A	TCD-35CA

* Standard package (20pcs/100pcs).

*1 Excluding BCP-A25, BCP-A25F and BCP-A4

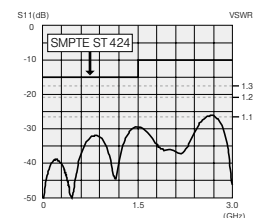
Note: Suitable die set for BCP-A5F is TCD-35CA; do not use TCD-5CF/TCD-55FA for BCP-A5F.

- Canare crimp design ensures quick and reliable installation.
- Gold plated "snap locks" center pin and beryllium copper outer contact.
- Elongated body design for stable finger grip.
- Position mark on the body makes it easier to check if the connector is locked.

Be sure to use Canare Crimp Tool



BCP-A3



Return loss for BCP-A3

■ BCP - C Series

Return Loss : 26.4 dB @ 2 GHz (*2)

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
BCP - C1	L-1.5C2VS, V*-1.5C	83264, 83267	Solder	BN7022	CB01	TCD-1DB
BCP - C5HD	L-5CHD	—	BN1139	B75004A	CB05A	TCD-5HD
BCP - C6HD	L-6CHD	—	BN1083A	BN7074A	—	TCD-67HD
BCP - C71A	—	7731A, 9064, 9292, 1617A, 9011	BN1043A	BN7021A	—	TCD-7CA
BCP - C7FA	L-7CFB	—	BN1012B	BN7021A	—	TCD-7CA
BCP - C7HD	L-7CHD	—	BN1082A	BN7021A	—	TCD-67HD

* Standard package (20pcs/100pcs).

*2: Excluding BCP-C1



BCP - C6HD



BCP - LC3



BCP - LD25HD

■ BCP-LD Series (Right Angle) **12G-SDI**

Return Loss : 20 dB @ 6 GHz / 15 dB @ 12 GHz

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
BCP-LD25HD	L-2.5CHD	1855A	BN1223	BN7129	—	TCD-35CA
BCP-LD25HW	L-2.5CHWS	—	BN1223	BN7143	—	TCD-35CA
BCP-LD33UHD	L-3.3CUHD	—	BN1225	BN7003A	—	TCD-35CA
BCP-LD53	L-4.5CHD	1694A	BN1226	BN7046	—	TCD-35CA

* Standard package (20pcs/100pcs)

■ BCP-LC Series (Right Angle)

Return Loss : 26.4 dB @ 2 GHz

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

* Standard package (20pcs/100pcs).

- Canare crimp design ensures quick and reliable installation.
- Gold plated "snap locks" center pin and beryllium copper outer contact.

Be sure to use Canare Crimp Tool

Website



75Ω Slim BNC Crimp Plugs

■ MBCP - C Series

Return Loss : 26.4 dB @ 1.5 GHz (*3)

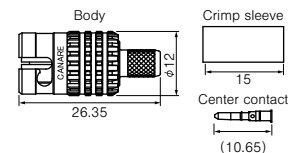
Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
MBCP - C25F	L-2.5CFB	1855A, 8218, 1417B, 1418B	B11014E	BN7029C	—	TCD-35CA
MBCP - C3F	L-3CFB, V*-3CFB	—	B11015E	BN7003A	CB24	TCD-35CA
MBCP - C4	LV-61S	8241, 8279, RG-59B/U	B11015E	BN7015A	CB25	TCD-4CA TCD-451CA
MBCP - C4F	L-4CFB, V*-4CFB	1505A, 1505ANH, 8212, 8241F, 9167, 9259	B11016E	BN7015A	CB25	TCD-4CA TCD-451CA
MBCP - C53	L-4.5CHD	1694A, 9066, 9116, 9118, 9248	B11020D	BN7046	CB26	TCD-35CA
MBCP - C5F	L-5CFB, V*-5CFB	—	B11020D	B75004A	CB26	TCD-5CF TCD-55FA

* Standard package (20pcs)

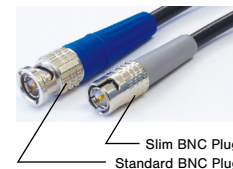
*3: Excluding MBCP-C25F

- Slim design : O.D. 12 mm
- Compatible with 75Ω BNC receptacles.
- Canare crimp design ensures quick and reliable installation.
- Gold plated "snap locks" center pin and beryllium copper outer contact.

Be sure to use Canare Crimp Tool



MBCP - C3F



Technical Note

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 travelling 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. 1. 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 travelling wave current. (See Fig. 2)

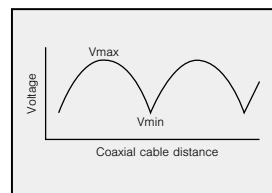


Fig. 1 Voltage Distribution Over Coaxial Cable

VSWR	Return Loss (dB)
2	9.54
1.5	13.98
1.2	20.83
1.1	26.44
1.05	32.26
1.02	40.09
1.01	46.06

Fig. 2 VSWR to Return Loss Conversion Table

Connectors

75Ω BNC Connectors

75Ω BNC Solder Plugs

■ BCP-H Series

Return Loss : 26.4 dB @ 1 GHz

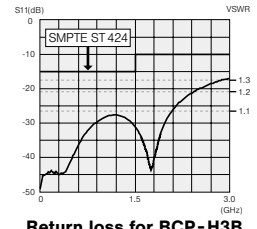
Model	Suitable Cable	
	Canare	Others
BCP-H3B	L-3C2VS, L-3C2V, L-3CFB	—
BCP-H31F	L-3CFW	—
BCP-H45HW	L-4.5CHWS	1694F
BCP-H5B	L-5C2VS, L-5C2V, L-5CFB	—
BCP-H51F	L-5CFW, L-5CFB	—
BCP-H5/1	L-3C2VS, L-3C2V, L-3CFB L-5C2VS, L-5C2V, L-5CFB	—

• Standard package (20pcs)

- The tubular (ferrule) section is silver plated to make soldering easier.
- Cable stripper TS100E can be used. (Excluding BCP-H31F, BCP-H51F)



BCP-H3B



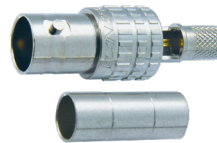
75Ω BNC Jack Plug

Model	Suitable Cable	Center Pin	Sleeve	Boot	Die Set
BCJ-C4	RG-59 B/U, LV-61S, Belden 8241, 8279, 88241	Solder	V75001	CB25	TCD-4CA TCD-451CA
BCJ-D25HD	L-2.5CHD	BN1204	BN7159	—	TCD-D253F
BCJ-D25HW	L-2.5CHWS	BN1204	BN7158	—	TCD-D253F
BCJ-D33UHD	L-3.3CUHD	BN1205	BN7003A	—	TCD-D253F

• Standard package (20pcs)

- Return loss for BCJ-C: 26.4 dB @ 1.5 GHz, 20.8 dB @ 2.4 GHz
- Return loss for BCJ-D: 20 dB @ 3 GHz, 15 dB @ 6 GHz, 10 dB @ 12 GHz

Be sure to use Canare Crimp Tool



BCJ-C4



BCJ-D25HW

12G-SDI



75Ω BNC Extension Adapter

Model	Description
BCJ-JK	Jack to Jack, for 12G-SDI

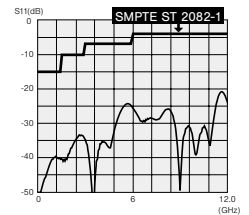
• Standard package (20pcs/100pcs)

- Return loss for BCJ-JK: 15 dB @ 12 GHz



BCJ-JK

12G-SDI



75Ω BNC Termination Plugs

Model	Description
BCP-TK	True 75Ω Termination, for 12G-SDI
BCP-TK-CH	BCP-TK with String

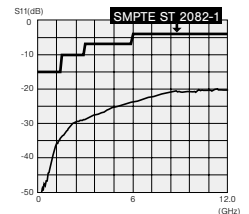
• Standard package (20pcs/100pcs)

- Includes 1/4 watt resistance.
- Return loss for BCP-TK: 26.4 dB @ 3 GHz, 15 dB @ 12 GHz



BCP-TK

12G-SDI



Connector Boots

■ CB0* Series

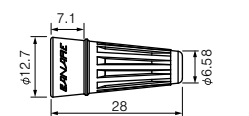
Our best selling connector boots for Canare BNC, TNC crimp plugs.

Model	Colors Available	BCP-**	BP-**	TNP-**
CB01	BLK BLU GRN RED YEL WHT	C1		
CB02		B25HD, B25HW, B26, B28, A25, A25F		
CB03	BLK BLU BRN GRN GRY	D33UHD, B3F, A3, A32, A3AHD, A3F, VA3	C3, C4	C3, C4
CB04	ORN PPL RED YEL WHT	D33UHW, B31F, B4F, A31, A4, A42, A4F, A55	C31	C31
CB05A		B53, B56, B5F, B51F, A5, A5F, A77, VA5, C5HD	C5, C5FA	C5
CB055W	BLK	D55UHW		

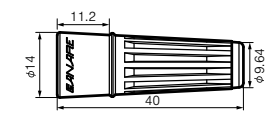
■ CB2* Series

Thinner type of CB0* series. Best fit for Canare Slim BNC, RCA, and F crimp plugs.

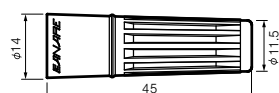
Model	Colors Available	Typical Connectors		
		MBCP-**	RCAP-**	FP-**
CB24		C3F	C3A, C3F	C3, C3F
CB25	BLK BLU GRN RED YEL WHT	C4, C4F	C3GS, C4A, C4F	C31, C4, C4F
CB26		C5F	C53, C5A, C5F	C5, C53A, C5F



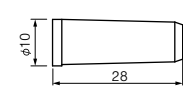
CB01, CB02



CB03, CB04, CB05A



CB055W



CB24, CB25, CB26



75Ω BNC Receptacles

■ Jack to Jack **12G-SDI** Return Loss: 15 dB @ 12 GHz

Model	Description	Flange
BCJ-JRK	Standoff	—
BCJ-JRUK	Flush-mount	ITT XLR-F77
BCJ-JRUDK		Neutrik D
BCJ-JRUDBK		Neutrik D (Black)

- Standard package (20 pcs)
- Redesigned for 12G-SDI to minimize return loss.

■ Jack to Solder Return Loss: 26.4 dB @ 2 GHz

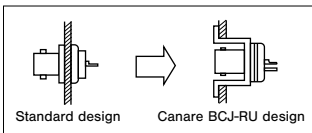
Model	Description	Flange
BCJ-R	Rear-mount	—
BCJ-R/1	Rear-mount, w/Ground Lug	—
BCJ-RU	Flush-mount	ITT XLR-F77
BCJ-RUD		Neutrik D
BCJ-RUDB		Neutrik D (Black)

- Standard package (20 pcs)

■ Panel Jack (Jack to Solder and Crimp) Return Loss: 26.4 dB @ 1 GHz

Model	Description	Flange	Suitable Cable	Die Set
BCJ-FC1	Front-mount, 1/2"	—	1.5C-2V	TCD-1DB
BCJ-FC1-7/16	Front-mount, 7/16"	—		
BCJ-RUC1	Flush-mount	ITT XLR-F77		

- Standard package (20 pcs)
- Panel Jack covers the rear wiring part with metal crimp sleeve.
- Flush-mount receptacle prevents damage on the jack.



■ Panel Hole Dimensions

BCJ-R	★BCJ-R/1 ★BCJ-JRK	BCJ-FC1	★BCJ-FC1-7/16	BCJ-RUC1 BCJ-RU BCJ-JRUK	BCJ-RUD BCJ-RUDB BCJ-JRUDK BCJ-JRUDBK

★ marked models accept insulation bushing IU-7/16, and the panel hole for IU-7/16 should be adopted in this case. (see below)

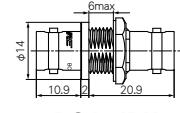
Insulation Bushing

Model	Description
IU-7/16	ABS plastic

- Standard package (20 pcs)
 - Insulate a connector from a panel.
 - 6 colors available (white, black, blue, green, red, or yellow)
- Note:** Please remove washers from a connector before using IU-7/16.

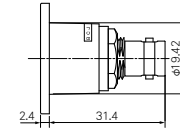
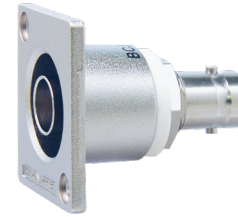
Panel Thickness:

- 1.2 to 1.5 mm: BCJ-DCJ, BCJ-FPLHA, BCJ-FPLV-12G, BCJ-FPLV-L, BCJ-FPLVA, BCJ-HBCJK, BCJ-R/1
- 1.2 to 3.0 mm: BCJ-FC1-7/16, BCJ-FPC, BCJ-FPC02, BCJ-FPLV01, BCJ-JRK, BCJ-JR, FJ-JR, FJ-FPC, NCJ-BCJR, RJ-JR



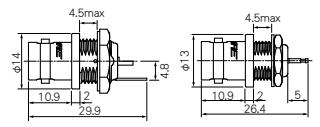
BCJ-JRK

BCJ-JRK



BCJ-JRUK

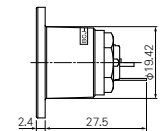
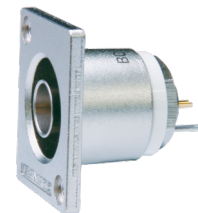
BCJ-JRUK



BCJ-R/1

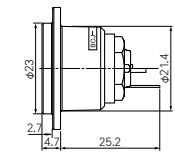
BCJ-R/1

BCJ-R



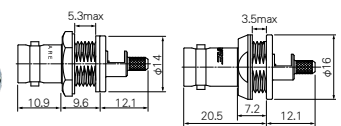
BCJ-RU

BCJ-RU



BCJ-RUD

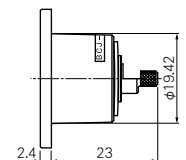
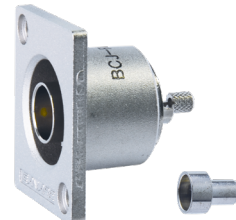
BCJ-RUD



BCJ-FC1-7/16

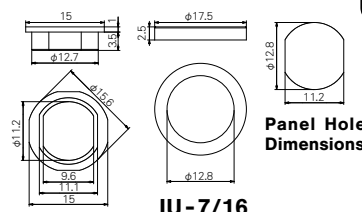
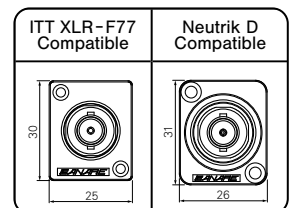
BCJ-FC1-7/16

BCJ-FC1



BCJ-RUC1

BCJ-RUC1



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Connectors

75Ω BNC Connectors

75Ω BNC PCB Mount Receptacles (Screw Type)

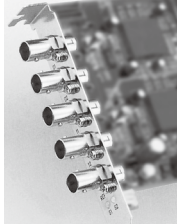
■ Front Mount

Model	Description	Stud Position	Panel Mount	Standard Package
BCJ-BPLHK	Right Angle, for 12G-SDI	Horizontal	Front : M2.6 screw	20 pcs/100 pcs
BCJ-BPLHA	Right Angle			20 pcs/100 pcs
BCJ-BPLHK2P	Right Angle, Dual Jack, for 12G-SDI			10 pcs
BCJ-BPLH2PA	Right Angle, Dual Jack			10 pcs
BCJ-BPLH3PA	Right Angle, Triple Jack			10 pcs
BCJ-BPCK	Straight, for 12G-SDI			20 pcs
BCJ-BPC2P	Straight, Dual Jack	—	10 pcs/100 pcs	

Screws not included

Key Features and Benefits

- True 75Ω PC board mount receptacle.
- Gold plated beryllium copper center contact.
- Right Angle types can be fixed on PC board with M2.6 screw.
- Space-saving design
- Eliminates wiring material and cost.



Note : Any cleaning solvents cannot be used. This leads to insulation problems.
Insulation material : m-PPO (m-PPE)

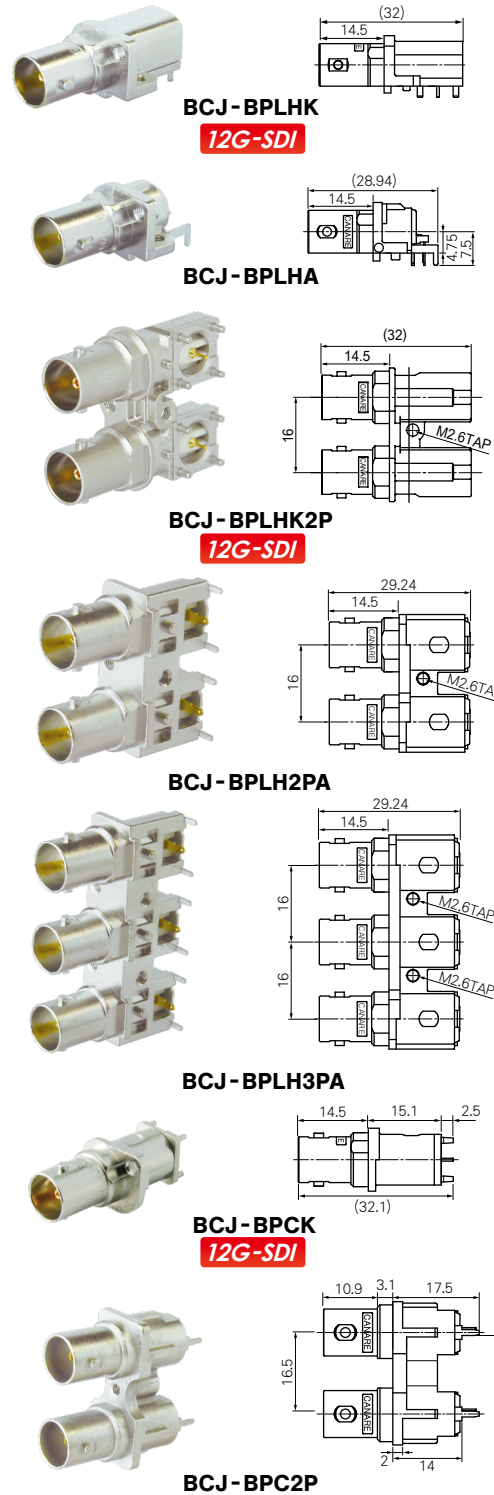
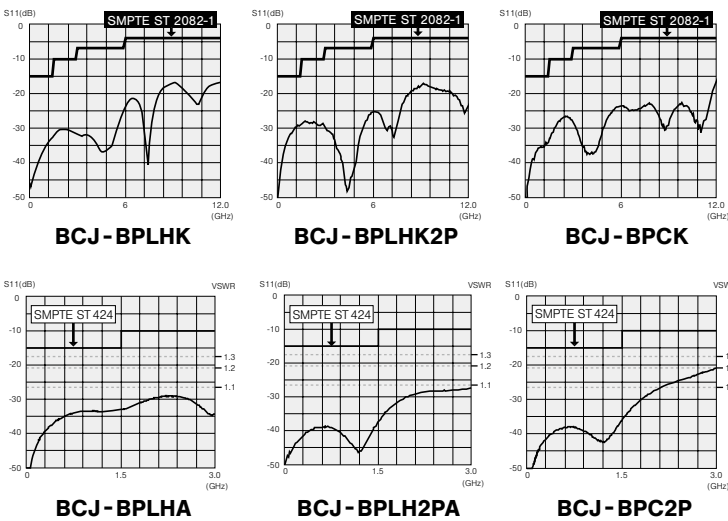
< Return loss >

BCJ-BPLHK : 26 dB @ 1.5 GHz, 20 dB @ 3 GHz, 15 dB @ 6 GHz, 10 dB @ 12 GHz

BCJ-BPLHA : 26 dB @ 1.5 GHz, 20 dB @ 3 GHz

BCJ-BPCK : 26 dB @ 1.5 GHz, 20 dB @ 3 GHz, 15 dB @ 6 GHz, 10 dB @ 12 GHz

BCJ-BPC2P : 26 dB @ 1 GHz, 20 dB @ 2.5 GHz



Website

	BCJ-BPLHK	BCJ-BPLHA	BCJ-BPLHK2P BCJ-BPLH2PA	BCJ-BPLH3PA	BCJ-BPCK	BCJ-BPC2P
Panel Hole Dim.	 Screw : M2.6 t1.6	 Screw : M2.6 t1.6	 Screw : M2.6 t1.6	 Screw : M2.6 t1.6	 Screw : M2.6 t1.6	 Screw : M2.6 t1.2
PCB Hole Dim.	 t2.0 (BOTTOM VIEW)	 t2.0 (BOTTOM VIEW)	 t2.0 (BOTTOM VIEW)	 t1.6 (BOTTOM VIEW)	 t2.0 (BOTTOM VIEW)	 t1.6 (BOTTOM VIEW)

75Ω BNC PCB Mount Receptacles (Hex Nut Type)

Front Mount

Model	Description	Stud Position	Panel Mount
BCJ-FPLV-12G	Right Angle, for 12G-SDI	Vertical	Front: Hex nut and lock washer
BCJ-FPLVA	Right Angle		
BCJ-FPLV01	Right Angle, Low Cost		
BCJ-FPLV-L	Right Angle, Long Neck		
BCJ-FPLHA	Right Angle	Horizontal	
BCJ-FPC	Straight	—	
BCJ-FPC02	Straight, Low Cost	—	

• Standard package: 20pcs/100pcs, except for BCJ-FPLV-L (10pcs).

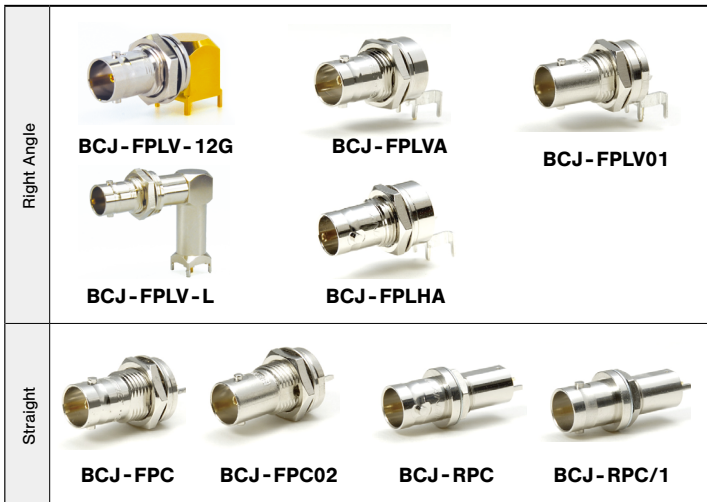
Rear Mount

Model	Description	Stud Position	Panel Mount
BCJ-RPC	Straight, Through Hole Mount	—	Rear: Hex nut and lock washer
BCJ-RPC/1	Straight, Surface Mount		

• Standard package: 20pcs/100pcs.

- BCJ-FPLV-12G is specially designed to minimize the return loss for 12G-SDI.
- Return loss: BCJ-FPLV-12G: 15 dB @ 6 GHz, 10 dB @ 12 GHz, BCJ-FPLV-L: 26.4 dB @ 3 GHz, Others: 26.4 dB @ 1 GHz.

Note: Any cleaning solvents cannot be used. This leads to insulation problems.
Insulation material: m-PPO (m-PPE)



<Panel Hole Dimensions>

BCJ-FPLV-12G* BCJ-FPLVA* BCJ-FPLV01* BCJ-FPLV-L*	BCJ-FPLHA*	BCJ-FPC* BCJ-FPC02*	BCJ-RPC/1 BCJ-RPC

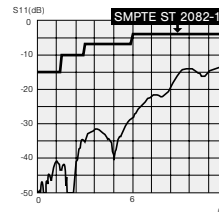
* BCP-FP series accept insulation bushing IU-7/16, and the panel hole for IU-7/16 should be adopted in this case. (see page 24)

<PC Board Hole Dimensions>

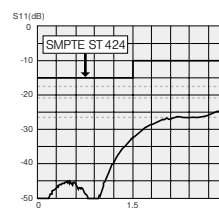
BCJ-FPLV-12G	BCJ-FPLVA BCJ-FPLV01 BCJ-FPLHA	BCJ-FPLV-L	BCJ-FPC BCJ-FPC02	BCJ-RPC



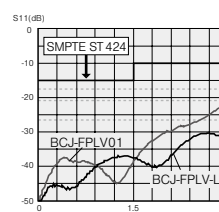
BCJ-FPLV-12G
12G-SDI



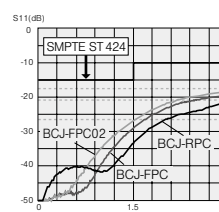
Return loss for BCJ-FPLV-12G



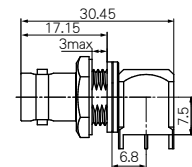
Return loss for BCJ-FPLV01



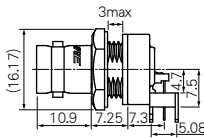
Return loss for BCJ-FPLV-L



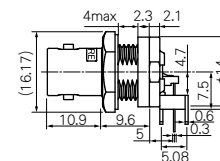
Return loss for BCJ-FPC, BCJ-FPC02, BCJ-RPC



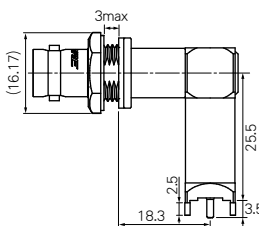
BCJ-FPLV-12G



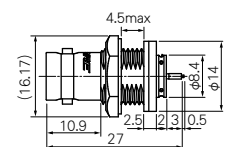
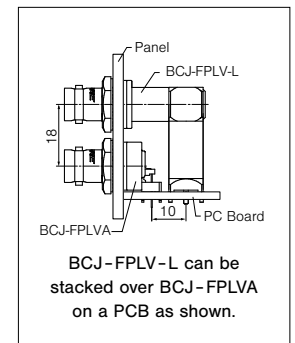
BCJ-FPLVA



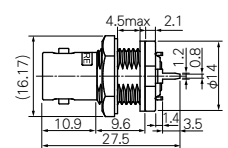
BCJ-FPLV01



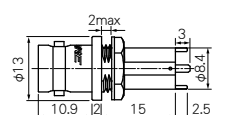
BCJ-FPLV-L



BCJ-FPC



BCJ-FPC02



BCJ-RPC



Website

Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Connectors

Active BNC

12G-SDI Active BNC

12G-SDI Active BNC integrating I/O interface device inside. It frees you from struggling with PCB design coping with return loss and board space.

BCAK 12G-SDI

*Card Edge Connector NOT included

Model	Form	Type	Built-in IC
BCAK-TL	Right Angle	TX	Cable Driver
BCAK-RL		RX	Cable Equalizer
BCAK-BL		BiDi	Cable Driver & Equalizer
BCAK-TS	Straight	TX	Cable Driver
BCAK-RS		RX	Cable Equalizer
BCAK-BS		BiDi	Cable Driver & Equalizer

Sales unit : 5 pcs

- Assembled on a PC board with SMT Card Edge Connector. The pluggable 2-piece structure improves productivity and replaceability.
- Supports 12G/6G/3G/HD/SD-SDI
- Reduce entire development cost as well as development period.
- 16 mm : Minimum pitch between adjacent connectors
- Straight models can be mounted on the same board at the same height as 3G-SDI Active BNC.
- PIN control : status monitoring and mode change
- Command control for optimization and characterization
- Cable driver and equalizer with reclocker
- TX/RX/BiDi identification by insulation color

*Card Edge Connector sold separately

SMT Card Edge Connectors 12G-SDI

Model	Form	Suit for
AKU-20LFYG	Right Angle	BCAK-TL/RL/BL
AKU-20SFYG	Straight	BCAK-TS/RS/BS

Sales unit : 5pcs

- Card Edge Connector for BCAK.
- Same footprint for TX, RX and BiDi.
- Applicable for reflow soldering.

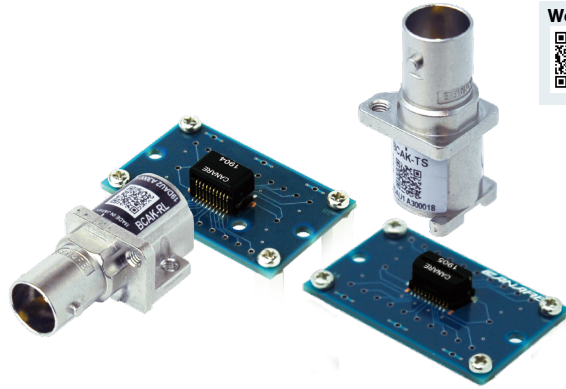
Specifications

Type	TX	RX	BiDi TX mode	BiDi RX mode
Supply Voltage	DC 2.5 V			
Current Consumption	195 mA	120 mA	128 mA	115 mA
Operating Temperature	-40 deg C to +85 deg C			
Output Amplitude	800 mV	N/A	800 mV	N/A
Equalization	N/A	12G-SDI 100m over L-5.5CUHD	N/A	12G-SDI 100m over L-5.5CUHD
Standards	SMPTE ST 2082-1, 2081-1, 424, 292, 259 BTA S-004C, EN 50083-9			
Weight	Right Angle : 9 g, Straight : 10 g			

	Right Angle	Straight
Panel Hole Dim.		
PCB Hole Dim.		

The dark shaded areas come into contact with the connector body.

Website



BCAK-TL



BCAK-TS



BCAK-RL



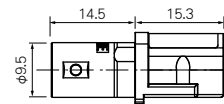
BCAK-RS



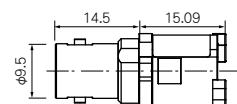
BCAK-BL



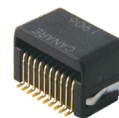
BCAK-BS



(Right Angle)



(Straight)



AKU-20LFYG



AKU-20SFYG

<Color Identifications>

Example) front view of Right Angle



TX
Insulation color
white



RX
Insulation color
black



BiDi
Insulation color
light gray

3G-SDI Active BNC

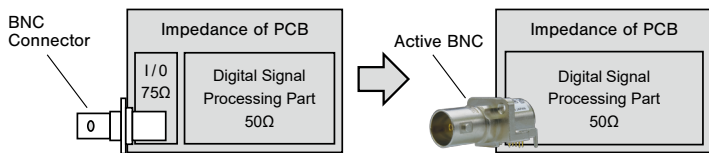
Small BNC connector incorporates either a cable equalizer or a cable driver. Active BNC makes innovation in your 3G-SDI PC board layout.



Model	Form	Type	Built-in IC
BCA-TL	Right Angle	TX	Cable Driver
BCA-RL		RX	Cable Equalizer
BCA-TS	Straight	TX	Cable Driver
BCA-RS		RX	Cable Equalizer

Sales unit: 5 pcs

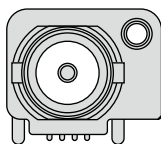
- BNC connector integrated with a cable equalizer or a cable driver, and yet keep the connector size to a minimum.
- Support 3G/HD/SD-SDI
- Offers an excellent return loss performance without designing 75Ω I/O Circuit
- Simplifies PCB design process dramatically and will reduce entire development cost
- PCB space saving and help to downsize devices
- TX/RX identification by insulation color



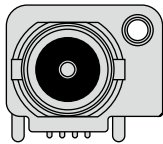
Simplify Your Circuit Design

<Color Identifications>

Example) front view of Right Angle



TX
Insulation color white



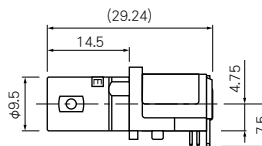
RX
Insulation color black

■ Specifications

Model	TX BCA-TL, BCA-TS	RX BCA-RL, BCA-RS
Supply Voltage	DC 3.3V	
Current Consumption	50 mA	70 mA
Operating Temperature	-25 deg C to +85 deg C	
Output Amplitude	800 mVpp	N/A
Equalization	N/A	3G-SDI 120m over L-5CFB
Standards	SMPTE ST 424, 292, 259, BTA S-004C, EN 50083-9	
Weight	9 g	



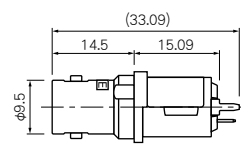
BCA-TL



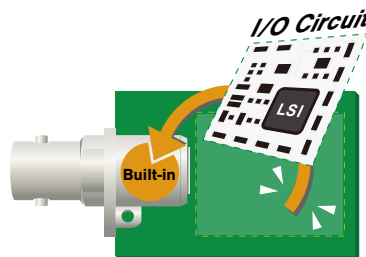
(Right Angle)



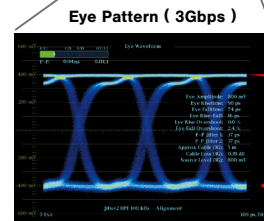
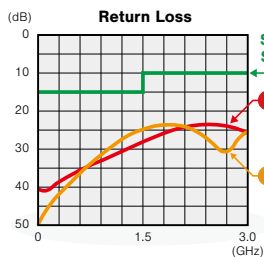
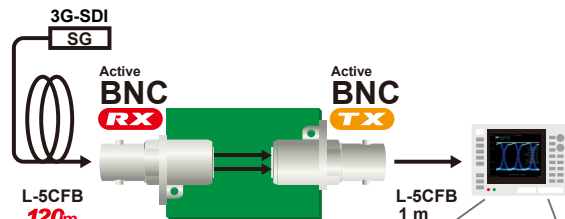
BCA-RS



(Straight)



Space-saving



	BCA-TL	BCA-RL	BCA-TS	BCA-RS
Panel Hole Dim.	<p>t1.6 Screw: M2.6</p>		<p>t1.6 Screw: M2.6</p>	
PCB Hole Dim.	<p>Pin 8 5 1234</p> <p>1: GND 2: SDI+ 3: SDI- 4: Vcc 5: SD/HD 6: - 7: - 8: ENABLE</p> <p>t2.0 (TOP VIEW)</p>	<p>Pin 1234 5</p> <p>1: GND 2: SDO- 3: SDO+ 4: Vcc</p> <p>t2.0 (TOP VIEW)</p>	<p>Pin 4321 5 8</p> <p>1: GND 2: SDI+ 3: SDI- 4: Vcc 5: SD/HD 6: - 7: - 8: ENABLE</p> <p>t2.0 (TOP VIEW)</p>	<p>Pin 4321 5 8</p> <p>1: GND 2: SDO- 3: SDO+ 4: Vcc</p> <p>t2.0 (TOP VIEW)</p>

The dark shaded areas come into contact with the connector body.

Connectors

75Ω Micro BNC Connectors

75Ω Micro BNC Connectors



All Canare micro BNC connectors are designed for SMPTE ST 2082-1 spec. Ideal for cabling 12G-SDI routers, switchers, and SFP modules. PCB connectors will allow greater flexibilities of the number of video interface.

■ Crimp Plugs **12G-SDI** Return loss : 26dB @ 3GHz, 20dB @ 6GHz, 15dB @ 12GHz

Model	Suitable Cable		Center Pin	Sleeve	Die Set	Extraction Tools
	Canare	Others				
HBCP-D25HDA	L-2.5CHD, L-2.5CHLT	1855A	BN1214	BN7136	TCD-D253F	BET-D/H, BET-HBNC, Common Tool
HBCP-D25HWA	L-2.5CHWS, V4-2.5CHW	—	BN1214	BN7141		
HBCP-D33UHDA	L-3.3CUHD	—	BN1215	BN7003A		
HBCP-D53A	L-4.5CHD	1694A	BN1218	BN7016	TCD-D534F	BET-D/H Common Tool
HBCP-D55UHD	L-5.5CUHD	—	BN1219	B75004A	TCD-55UHD	

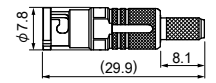
• Standard package (20 pcs)

- SMPTE ST 2082-1 compliant.
- Canare crimp design ensures quick and reliable installation.
- Gold plated "snap locks" center pin.
- Beryllium copper outer contact.
- Come with a position mark on the body for better visibility mating.

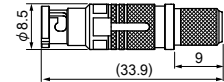
Be sure to use Canare Crimp Tool



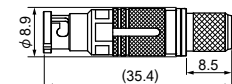
HBCP-D25HDA



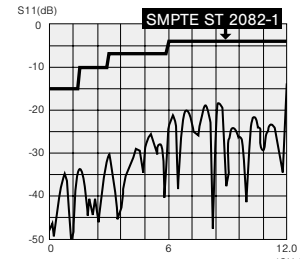
HBCP-D25HDA



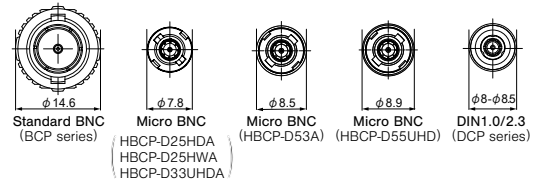
HBCP-D53A



HBCP-D55UHD

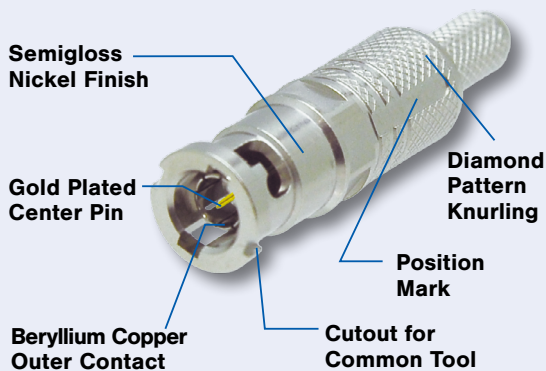


Return loss for HBCP-D25HDA



Comparison of connector body diameter
* for reference only

The New Canare HBCP Series



Model	HBCP-D25HDA HBCP-D25HWA HBCP-D33UHDA	HBCP-D53A HBCP-D55UHD	Previous Models HBCP-D25HD HBCP-D25HW HBCP-D33UHD HBCP-D53
Return Loss	≥15dB@DC-12GHz	≥15dB@DC-12GHz	≥8dB@DC-12GHz
Connector OD	φ 7.8mm	φ 8.5-8.9mm	φ 7.82-8.5mm
Extraction Tools / Distance Between Center of Plugs			
BET-D/H: 12mm	Yes	Yes	Yes
BET-HBCP: 8mm	Yes	No	No
Common Tools: Min. 8mm	Yes	Yes	No
Application	Rack wiring, Extremely narrow space, Video SFP	50-100M distance range, 12G-SDI sensitive connection	Rack Wiring, Narrow space, 12G-SDI routers/ switchers

Tools

Model	Description	Suitable Connector
BET-HBNC	Extraction tool	HBCP-D25HDA, D25HWA, D33UHDA
BET-D/H	Extraction tool	DCP-C, HBCP-D series, HBCP-DA series

- Extraction tool BET-D/H is available for both Canare Micro BNC and DIN plugs.

HBCP-D25HDA with BET-HBNC



12G Router / Switcher



12G SFP Module



BET-HBNC



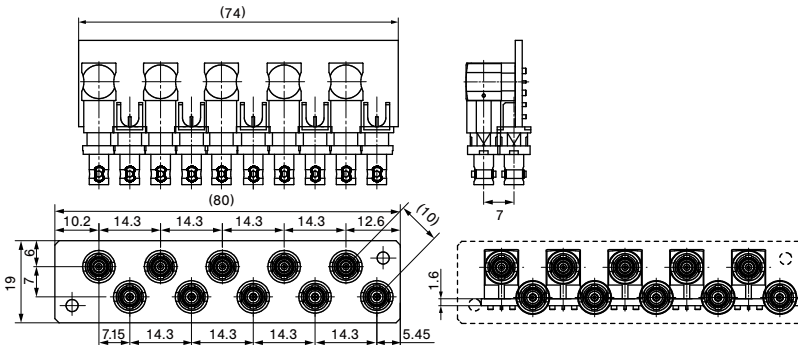
BET-D/H

PCB Mount Receptacles **12G-SDI**

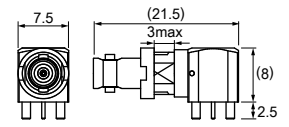
Return Loss: 20 dB @ 3 GHz, 10 dB @ 12 GHz

Model	Description	Nut Driver Bit
HBCJ-LRK	Right Angle	NDT-HBC
HBCJ-LRK/1	Right Angle, Long type	
HBCJ-FEMK	Edge Mount	

- Standard package (20 pcs)
 - SMPTE ST 2082-1 compliant
 - Combination of HBCJ-LRK/1 and HBCJ-FEMK offers efficient PCB mount Solution.
- Note: Nut driver bit NDT-HBC is required.



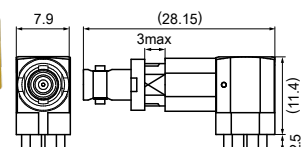
HBCJ-LRK



HBCJ-LRK



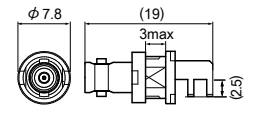
HBCJ-LRK/1



HBCJ-LRK/1



HBCJ-FEMK



HBCJ-FEMK

Adapters **12G-SDI**

Return Loss: 20 dB @ 3 GHz, 10 dB @ 12 GHz

Model	Description	Nut Driver Bit
HBCJ-JRK	Jack to Jack	NDT-HBC (for panel mounting)
BCJ-HBCJK	BNC Jack to Micro BNC Jack	

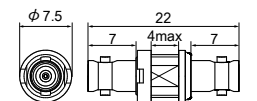
- Standard package (20 pcs)
- SMPTE ST 2082-1 compliant
- Panel mountable

Tool

Model	Description	Suitable Connector
NDT-HBC	Nut driver bit, 6.35 mm (1/4") hex shank	HBCJ, BCJ-HBCJK



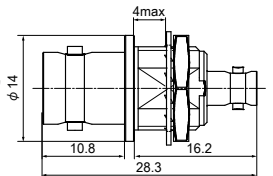
HBCJ-JRK



HBCJ-JRK

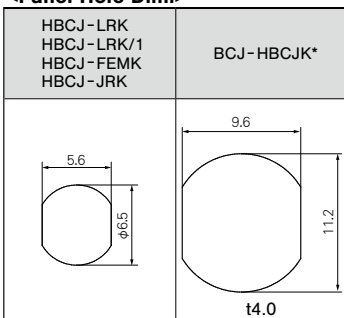


BCJ-HBCJK

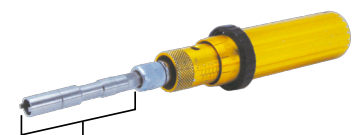
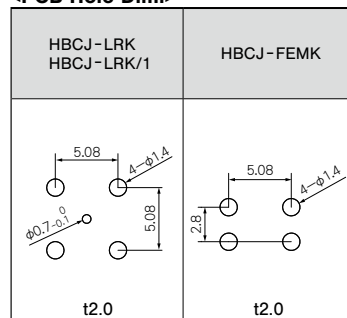


BCJ-HBCJK

<Panel Hole Dim.>



<PCB Hole Dim.>



NDT-HBC*

* Torque driver not included.

* BCJ-HBCJK accept insulation bushing IU-7/16. See page 24 for the panel hole with IU-7/16.

Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Connectors

75Ω BNC, 75Ω N, Connectors

BNC Dust Caps

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

• Standard package (20pcs/100pcs)

- Protects unused BNC receptacles from dirt and dust.



BCJ-DC

Website



BNC - RCA Adapter

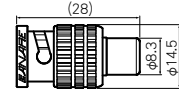
Model	Description
BCP-RCAJ	RCA Jack (F) to BNC Plug (M)
BCJ-RCAP	BNC Jack (F) to RCA Plug (M)

• Standard package (1pc)

- Gold plated center contact
- Secure finger grip and reliable mating



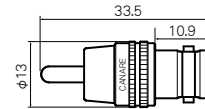
BCP-RCAJ



Website



BCJ-RCAP



75Ω N Solder Plug

Return Loss : 26.4 dB @ 2 GHz

Model	Suitable Cable
NCP-H8HD	L-8CHD

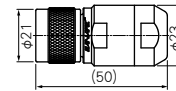
• Standard package (1pc)

- Gold plating on the contact pin prevents deterioration, even after years of use.
 - Return loss : 26.4 dB @ 2 GHz
 - Solder type
- Tools required : 17 mm and 21 mm wrenches

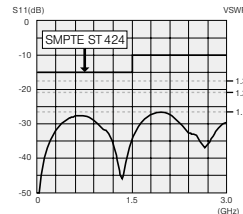
Caution : The connecting section of the N connector uses a shape that conforms to the IEC169-16's 75Ω impedance standard. Note that the 50Ω N and other connectors that do not conform to this specification cannot be connected.



NCP-H8HD



Website



Return loss for NCP-H8HD

75Ω N to BNC Adapter

Return Loss : 26.4 dB @ 2 GHz

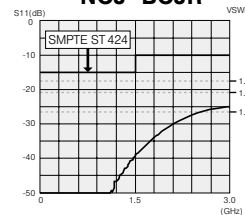
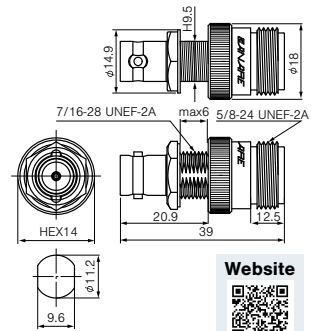
Model	Description
NCJ-BCJR	N (F) - BNC (F)

• Standard package (1pc)

- Beryllium copper (gold plated) is used on the center contact for its superior spring characteristics.
- Return loss : 26.4 dB @ 2 GHz
- Panel mountable as well. For isolation from the panel, use Canare isolation bushing IU-7/16.(see page 24)



NCJ-BCJR



Return loss for NCJ-BCJR

Panel Hole Dimensions

Website



75Ω DIN 1.0/2.3 Connectors

Mini coax connectors IEC61169-29 and DIN 47 297 compatible.

■ Crimp Plugs

Return Loss: 20.8 dB @ 3 GHz

Model	Suitable Cable		Center Pin	Sleeve	Die Set
	Canare	Others			
DCP-C25HD	L-2.5CHD, L-2.5CHLT	1855A, VDM230	BN1148	BN7136	TCD-D253F
DCP-C25HW	L-2.5CHWS, V4-2.5CHW	—	BN1148	BN7141	TCD-D253F
DCP-C3F	L-3CFB	—	BN1148	BN7003A	TCD-D253F
DCP-C4F	L-4CHD, L-4CFB	1505A, VPM2000	BN1158	BN7015A	TCD-D534F
DCP-C53	L-4.5CHD	1694A, VSD2001	BN1157	BN7138	TCD-D534F

• Standard package (20pcs/100pcs)

- Our unique ball-locking mechanism offers smooth and reliable mating.
- Canare crimp design ensures quick and reliable installation.
- Elongated body design enables stable finger grip.
- Return loss: 20.8 dB or greater up to 3 GHz
- Extraction tool: BET-DIN or BET-D/H (see page 41)

US Patent No.: 8764473 B2

Be sure to use Canare Crimp Tool

■ PCB Mount Receptacles

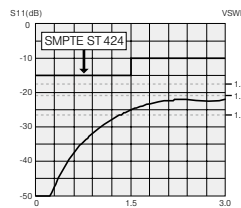
Return Loss: 20.8 dB @ 3 GHz

Model	Description	Nut Driver Bit
DCJ-LR	Right Angle	NDT-DIN
DCJ-LR/1	Right Angle, Long type	
DCJ-FEM	Edge Mount	

• Standard package (20 pcs)

- Compact design ideal for high density mounting and downsizing devices.
- Combination of DCJ-LR/1 and DCJ-FEM is effective for staggered arrangement.
- Return loss: 20.8 dB or greater up to 3 GHz.

Note: Nut driver bit NDT-DIN is required.



Return Loss for DCJ-LR

■ Adapters

Return Loss: 26.4 dB @ 3 GHz

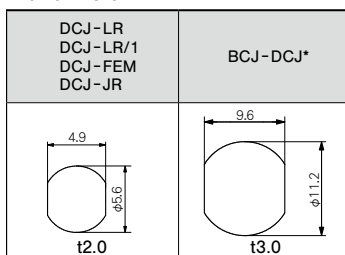
Model	Description	Panel Mount	Nut Driver Bit
DCJ-JR	Jack to Jack	Yes	NDT-DIN
BCJ-DCJ	BNC Jack to DIN1.0/2.3 Jack	Yes	N/A
BPC-DCJ	BNC Plug to DIN Jack	No	N/A

• Standard package (20 pcs)

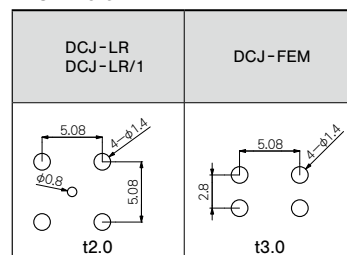
- Return loss: 26.4 dB or greater up to 3 GHz.

Note: Nut driver bit NDT-DIN is required for DCJ-JR

<Panel Hole Dim.>



<PCB Hole Dim.>



*BCJ-DCJ accepts insulation bushing IU-7/16. See page 24 for the panel hole with IU-7/16.

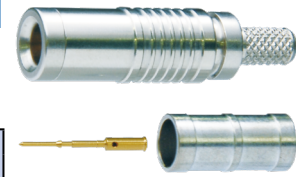
■ Nut Driver Bit

Model	Description
NDT-DIN	6.35mm (1/4") hex shank



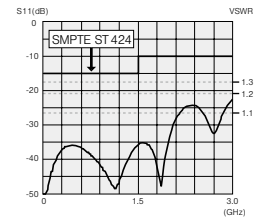
NDT-DIN*

* Torque driver not included

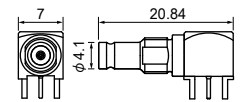


Website

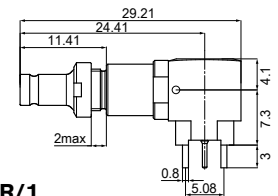
DCP-C25HD



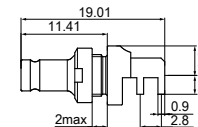
Return Loss for DCP-C25HD



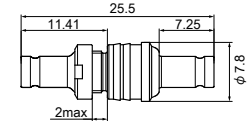
DCJ-LR



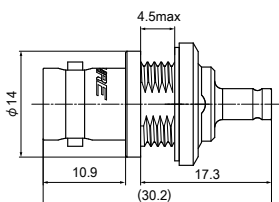
DCJ-LR/1



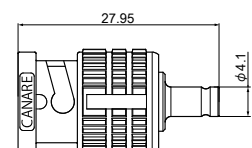
DCJ-FEM



DCJ-JR



BCJ-DCJ



BPC-DCJ

Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Connectors

12G-SDI 75Ω Micro-miniature Coaxial Connectors

75Ω Micro-miniature Coaxial Connectors

Website



Canare's exclusive micro miniature connectors, KC series : specially designed for 4K/8K UHD equipment. Our PCB mount solutions provide flexible layout and reliable connectivity on 12G-SDI signal path. Products are 12GHz verified and guaranteed SMPTE ST2082-1.

PCB Mount Receptacles **12G-SDI**

Model	Description
KCM-PC	Straight
KCM-LR	Right Angle

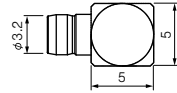
• Standard package (20 pcs)



KCM-PC



KCM-LR

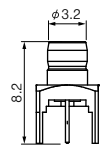


KC to BNC Conversion Adapter **12G-SDI**

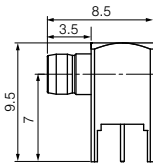
Model	Description	Nut Driver Bit
BCJ-KCM	Rear Mount, Hex Nut	—
BCJ-FKCM	Front Mount, Grooved Nut	NDT-7/16

• Standard package (20 pcs)

Note: BCJ-FKCM requires the nut driver bit NDT-7/16 for installation and removal. Contact for the details.



KCM-PC



KCM-LR



BCJ-KCM



BCJ-FKCM

Cable Assemblies **12G-SDI**

Model	Description	
	Plug A	Plug B
KC1.2R-****-S	Straight	Straight
KC1.2R-****-L	Right Angle	Right Angle
KC1.2R-****-SL	Straight	Right Angle

Jacket: FEP (blue)

****: cable length (see below)



KC1.2R-****-S

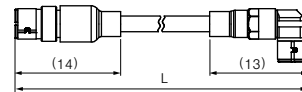


KC1.2R-****-L

<Ordering Information>

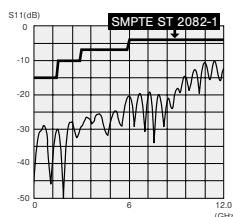
KC1.2R - 0015 - S	
Length	Plug Type
0015 150 mm	S Straight
0020 200 mm	L Right Angle
0030 300 mm	SL Straight to Right Angle

Custom length available. Contact for the details.

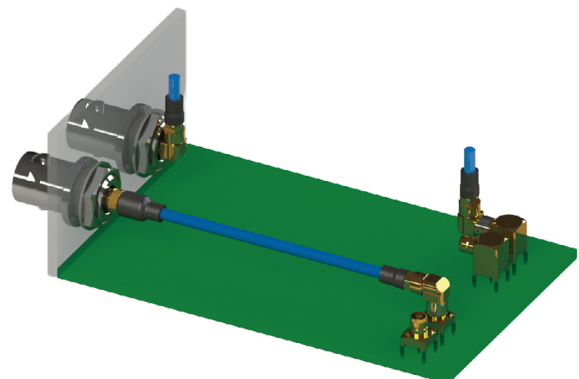


KC1.2R-****-SL

- DC to 12 GHz; meets the SMPTE 2082-1 return loss requirements.
Return loss : 26 dB @ 1.5 GHz, 20 dB @ 3 GHz,
15 dB @ 6 GHz, 10 dB @ 12 GHz
- Snap-on engaging
- Durable design; beneficial for maintenance.
- Temperature range : -25 to 85 degree C
- The best flexibility on PCB design



Return Loss
Interface to Termination
(reference)



<Example of Use>

4K-DIN Coax Connectors

Canare unique “4K-DIN” allows you to connect or disconnect 4 of 3G-SDI signals in one easy step.

■ Crimp Plugs Return Loss: 20 dB @ 3 GHz

Model	Suitable Cable	Die Set	Description
MDM-V4C25HW	V4-2.5CHW	TCD-D253F	Male
MDF-V4C25HW	V4-2.5CHW	TCD-D253F	Female

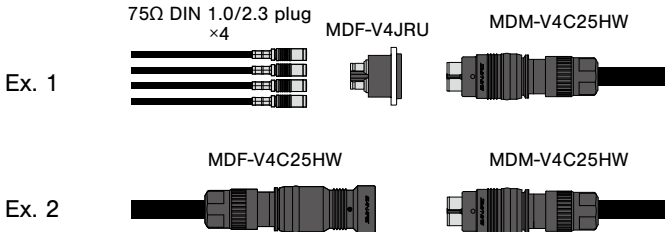
■ Flush-mount Receptacle Return Loss: 20 dB @ 3 GHz

Model	Description
MDF-V4JRU	Jack to Jack

- 75Ω 4-channel coax connector with push-pull locking mechanism.
- Compact, solid, and lightweight nylon resin (PA 66) body
- Return loss: 20 dB @ 3 GHz
- MDF-V4JRU accepts MDM-V4C25HW and also DIN 1.0/2.3 plugs.

* Replacement crimp units also available:
DCP-C25HW-ML for MDM
DCJ-C25HW-ML for MDF

<Connection Example>



Be sure to use Canare Crimp Tool

75Ω Multi-pin Coax Connectors

Handles five 75Ω coaxial connections.

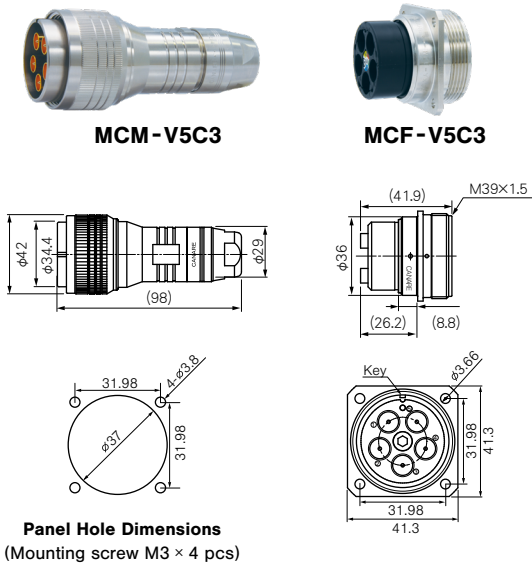
Model	Suitable Cable	Die Set	Description
MCM-V5C3	V5-3C	TCD-35CA	Plug
MCF-V5C3	V5-3C, L-3C2V, L-3C2VS	TCD-35CA	Receptacle

Model	Description
DCM01	Dust Cap for MCM-V5C3
DCF01	Dust Cap for MCF-V5C3

- 1.2 or less VSWR up to 1.5 GHz.
- Crimp system ensures quick and reliable installation.

* Replacement unit also available. MCM-V5C3: BN9078A MCF-V5C3: BN9079B

Be sure to use Canare Crimp Tool



Panel Hole Dimensions
(Mounting screw M3 × 4 pcs)



Replacement Unit **BN9078A**

Replacement Unit **BN9079B**



Website

Technical Trend

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Connectors

75Ω Triaxial Connectors

75Ω Triaxial Connectors

Website

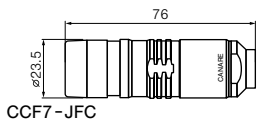


Canare CC series cover global triaxial interconnection. CC-F series are ideal for interconnecting European triax system and CC-K series for American triax system.

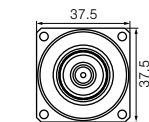
- True 75Ω, DC 1.5 GHz; ≥20 dB return loss (≤1.2 VSWR)
- Push-lock mechanism
- Reliable crimp system
- Rugged and durable construction

■ CC-F Series : European preferred type

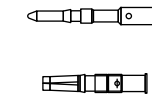
Model	Description	Suitable Cable		Boot/Cap	Center contact	Sleeve A	Sleeve B	Crimp Tool
		Canare	Others					
CCF5-JFC	Crimp type, Female cable mount	L-5CFTX	Belden : 7783A Klotz : TRIAX8 Fujikura : 4.8/1.0 EFTXF	CB31	BN9194	BN7120	BN7121	TC-1 + TCD-65C
CCM5-PFC	Crimp type, Male cable mount			CB32	BN1135			
CCF5-JFRC	Crimp type, Female panel mount			DCF02	BN9194			
CCM5-PFRC	Crimp type, Male panel mount			DCM02	BN1135			
CCF7-JFC	Crimp type, Female cable mount	L-7CFTX	Belden : 7784AS Klotz : TRIAX11 Fujikura : SUPERFLEX11	CB31	BN9182A	BN7113	BN7114	TC-2 + TCD-96C
CCM7-PFC	Crimp type, Male cable mount			CB32	BN1131			
CCF7-JFRC	Crimp type, Female panel mount			DCF02	BN9182A			
CCM7-PFRC	Crimp type, Male panel mount			DCM02	BN1131			



CCF7-JFC



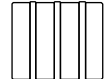
CCM7-PFRC



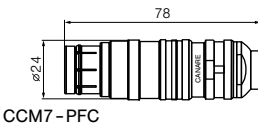
Center Contact



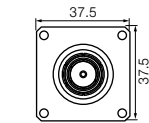
Sleeve A



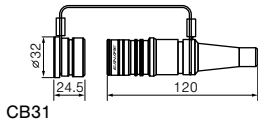
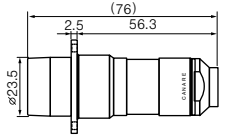
Sleeve B



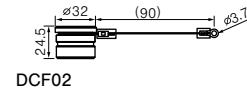
CCM7-PFC



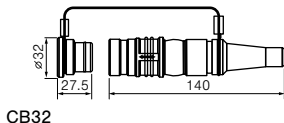
CCF7-JFRC



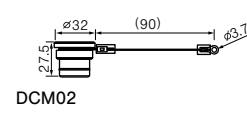
CB31



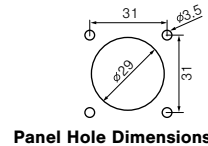
DCF02



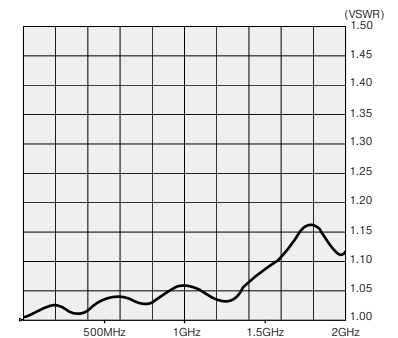
CB32



DCM02



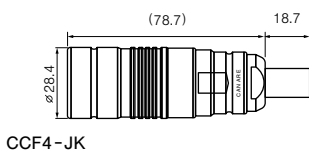
Panel Hole Dimensions



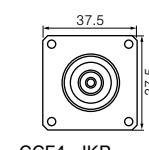
VSWR for CC*7-F

■ CC-K Series : U.S. preferred type

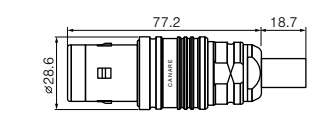
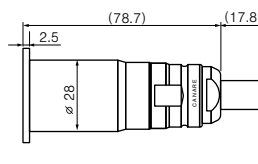
Model	Description	Suitable Cable		Retrofit Kit	Boot/Cap	Crimp Tool
		Canare	Others			
CCF4-JK	Crimp type, Female cable mount	L-4CFTX	Belden : 1856A, 1857A, 9267 Gepeco : LVT61859, VT61859	BN9127B	CB23	TC-1 + TCD-316C
CCM4-PK	Crimp type, Male cable mount			BN9128C	CB22	
CCF4-JKR	Crimp type, Female panel mount			BN9127B	DCM02	
CCM4-PKR	Crimp type, Male panel mount			BN9128C	DCM03	



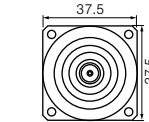
CCF4-JK



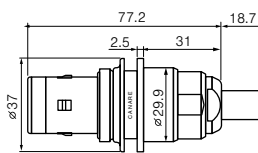
CCF4-JKR



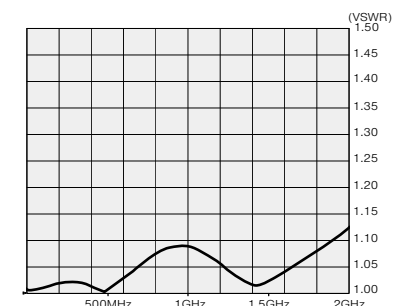
CCM4-PK



CCM4-PKR



Panel Hole Dimensions



VSWR for CC*4-K

RCA Pin Connectors

■ Crimp Plugs

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
RCAP - C25F	L-2.5CFB	1855A, 8218, 1417B, 1418B	B11014E	BN7029C	—	TCD-35CA
RCAP - C25HD	L-2.5CHD	—	B11015E	BN7129	—	TCD-35CA
RCAP - C3A	L-3C2VS, L-3C2V, V*-3C	—	B11014E	BN7003A	CB24	TCD-35CA
RCAP - C3GS	GS-6	—	BN1093	BN7079	CB25	TCD-35D
RCAP - C3F	L-3CFB, V*-3CFB	—	B11015E	BN7003A	CB24	TCD-35CA
RCAP - C42	—	1505F	B11016E	BN7011	—	TCD-31C
RCAP - C4A	LV-61S	8241, 8279, RG-59B/U	B11015E	BN7015A	CB25	TCD-4CA, TCD-451CA
RCAP - C4F	L-4CFB, V*-4CFB	1505A, 1505ANH, 8212, 8241F, 9167, 9259, 9659	B11016E	BN7015A	CB25	TCD-4CA, TCD-451CA
RCAP - C53	L-4.5CHD	1694A, 9066, 9116, 9118, 9248	B11020D	BN7016	CB26	TCD-35CA
RCAP - C5A	L-5C2VS, L-5C2V, V*-5C	—	B11016E	BN7016	CB26	TCD-35CA
RCAP - C5F	L-5CFB, V*-5CFB	—	B11020D	B75004A	CB26	TCD-5CF, TCD-55FA
RCAP - C77	LV-77S	8281F	B11016E	B75004A	CB26	TCD-5CF, TCD-55FA

• Standard package (20pcs/100pcs)

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

Be sure to use Canare Crimp Tool

■ Solder Plugs

Model	Description
F-09	Plug
F-10	Plug (long sleeve)

• Standard package (10 pcs)

- Robust metal shell
- Comfortable grip
- Cable O.D. up to 6.0 mm.

■ Standoff Receptacle

Model	Description
RJ-JR	Jack to Jack

• Standard package: 20 pcs by insulation color

- Insulation color is available in 5 colors (red, green, blue, yellow, white).
- VSWR 1.2 @ 100 MHz

■ Flush-mount Receptacles

Model	Description	Flange Type	Insulator Color
RJ-RU	RCA - Solder	ITT XLR-F77	
RJ-RUD		Neutrik D	RED GRN BLU YEL WHT
RJ-RUDB		Neutrik D (Black)	
RJ-JRU	RCA - RCA	ITT XLR-F77	
RJ-JRUD		Neutrik D	RED BLU YEL WHT
RJ-JRUDB		Neutrik D (Black)	
RJ-BCJRU	RCA - BNC	ITT XLR-F77	RED GRN BLU YEL WHT
RJ-BCJRUD		Neutrik D	
RJ-BCJRUDB		Neutrik D (Black)	RED BLU YEL WHT

• Standard package: 20 pcs by insulation color

- Three types of flanges are available.
- Insulation color is available in 5 colors (red, green, blue, yellow, white).
RJ-BCJRUDB, RJ-JRUD is 4 colors (red, blue, yellow, white)
- VSWR 1.2 @ 100 MHz

◀Panel Hole Dimensions▶

RJ-JR (*)	ITT XLR-F77 Flange	Neutrik D Flange

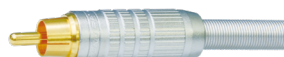
(*) RJ-JR accepts insulation bushing IU-7/16; in this case, panel hole for IU-7/16 should be adopted (see page 24)



RCAP - C3A



F-09



F-10



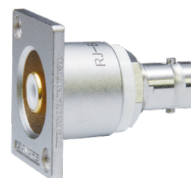
RJ - JR



RJ - RU



RJ - JRUD



RJ - BCJRU

Website



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

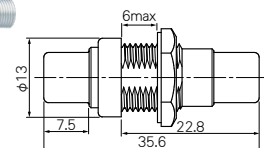
Connectors

Cables

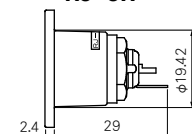
Panels & Patchbays

Multichannel Systems

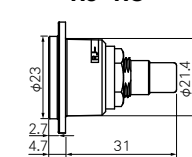
Cable Assemblies



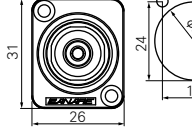
RJ - JR



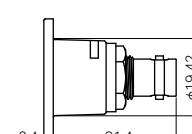
RJ - RU



RJ - JRUD



RJ - JRUD



RJ - BCJRU

Connectors

F Connectors

F Connectors

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

Website



■ Crimp Plugs

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
FP-C25HD	L-2.5CHD	—	BN1003B	BN7129	—	TCD-35CA
FP-C3	L-3C2VS, L-3C2V, V*-3C	—	BN1002B	BN7003A	CB24	TCD-35CA
FP-C31	L-3C2W	—	BN1002B	BN7011	CB25	TCD-31C
FP-C3F	L-3CFB, V*-3CFB	—	BN1003B	BN7003A	CB24	TCD-35CA
FP-C4	LV-61S	8241, 8279, RG-59B/U	BN1003B	BN7015A	CB25	TCD-4CA, TCD-451CA
FP-C4F	L-4CFB, V*-4CFB	1505A, 1505ANH, 8212, 8241F, 9167, 9259, 9659	BN1004B	BN7015A	CB25	TCD-4CA, TCD-451CA
FP-C5	L-5C2VS, L-5C2V, V*-5C	—	BN1004B	BN7016	CB26	TCD-35CA
FP-C52	L-5C2W	—	BN1004B	BN7014	—	TCD-451CA
FP-C53A	L-4.5CHD	1694A, 9066, 9116, 9118, 9248	BN1005B	BN7046	CB26	TCD-35CA
FP-C5F	L-5CFB, V*-5CFB	—	BN1005B	B75004A	CB26	TCD-5CF, TCD-55FA
FP-C71A	—	7731A, 9064, 9292, 1617A, 9011	BN1041A	BN7021A	—	TCD-7CA
FP-C7FA	L-7CFB	—	BN1030A	BN7021A	—	TCD-7CA

• Standard package (20pcs/100pcs)

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

Be sure to use Canare Crimp Tool



FP-C4

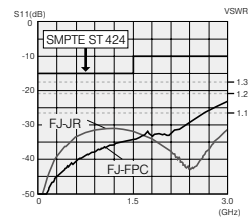


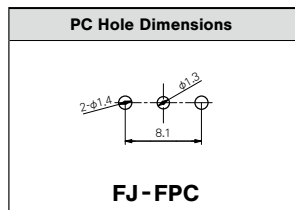
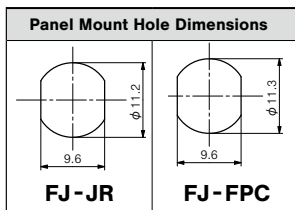
Fig.1 Return loss for FJ-FPC and FJ-JR

■ Standoff Receptacle

Model	Description
FJ-JR	Jack to Jack
FJ-FPC	PC Board Straight Mount

• Standard package (20pcs/100pcs)

- VSWR of 1.1 or less up to 2 GHz. <Fig. 1>
- Accept insulation bushing IU-7/16. See page 24 for more information.



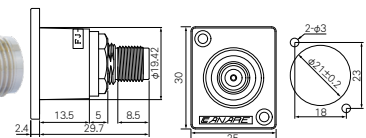
FJ-JR



FJ-FPC



FJ-JRU



FJ-JRU

■ Flush-mount Receptacles

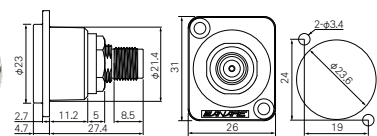
Model	Description	Flange Type
FJ-JRU	Jack to Jack	ITT XLR-F77
FJ-JRUD		Neutrik D
FJ-JRUDB		Neutrik D (Black)

• Standard package (20pcs)

- Three types of flanges are available.



FJ-JRUD



FJ-JRUD

Phone Plugs

Website



Featuring a properly cable clamp system ensures long life reliability.

■ 3.5mm Mini Phone Plug

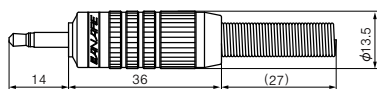
F - 11	F - 12	F - 12SA
Description		
2 Conductor 3.5mm mini phone plug	3 Conductor 3.5mm mini phone plug	3 Conductor 3.5mm mini phone plug *Smaller shell version of F-12
Nickel contacts, Nickel shell φ 6.0 max (w/o spring : φ 7.5 max)	Nickel contacts, Nickel shell φ 6.0max (w/o spring : φ 7.5 max)	Nickel contacts, Nickel shell φ 5.0max (w/o spring : φ 6.7 max)

• Standard package (10pcs)

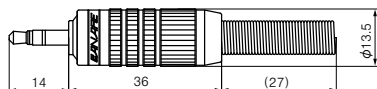
■ 1/4" Phone Plug

F - 15	F - 15L	F - 16
Description		
2 Conductor 1/4" phone plug	2 Conductor 1/4" phone plug *Right-angle Type	3 Conductor 1/4" phone plug
Nickel contacts, Nickel shell φ 6.0max (w/o spring : φ 7.5 max)	Nickel contacts, Nickel shell φ 6.0max (w/o spring : φ 7.5 max)	Nickel contacts, Nickel shell φ 6.0max (w/o spring : φ 7.5 max)

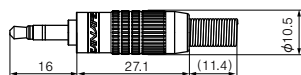
• Standard package (10pcs)



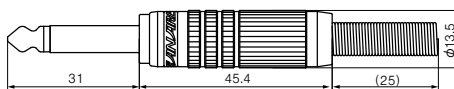
F - 11



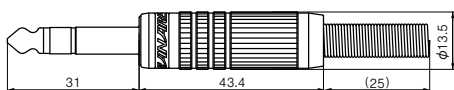
F - 12



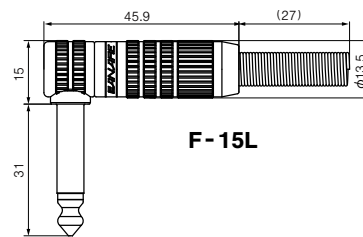
F - 12SA



F - 15

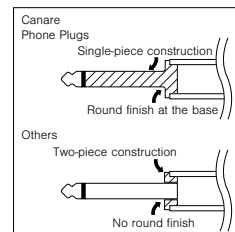


F - 16



F - 15L

Canare's durable design



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Connectors

50Ω BNC Connectors

50Ω BNC Crimp Plugs

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

■ Straight

Model	Suitable Cable	Center Pin	Sleeve	Boot	Die Set
BP-C3	L-3D2V, 3D-2V	BN1023A	BN7003A	CB03	TCD-35D
BP-C31	L-3D2W, 3D-2W	BN1023A	BN7011	CB04	TCD-3151D
BP-C4	RG-58C/U, RG-58A/U	BN1024A	BN7030A	CB03	TCD-35D
BP-C5	L-5D2V, 5D-2V	BN1025B	BN7016	CB05A	TCD-35D
BP-C51	L-5D2W, 5D-2W	BN1025B	BN7002	—	TCD-3151D
BP-C5FA	L-5DFB, 5D-FB	BN1016C	B75004A	CB05A	TCD-35DF TCD-55FA
BP-C51F	L-5DFBW-PE	BN1016C	BN7002	—	

• Standard package (20pcs)

■ Right Angle

Model	Suitable Cable	Center Pin	Sleeve	Die Set
BP-LC31	L-3D2W, 3D-2W	BN1023A	BN7011	TCD-3151D
BP-LC51	L-5D2W, 5D-2W	BN1025B	BN7002	

• Standard package (20pcs)

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

Be sure to use Canare Crimp Tool



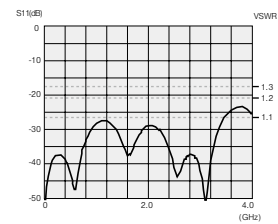
BP-C5



BP-LC31



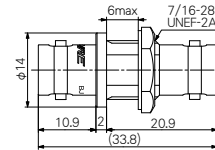
Website



Return loss for BP-C31



BJ-JR



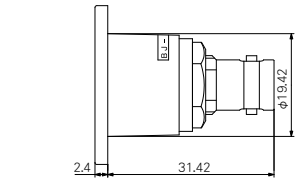
BJ-JR



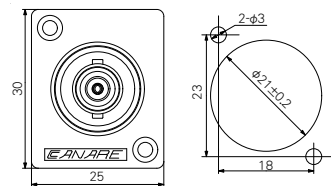
Website



BJ-JRU



BJ-JRU



50Ω BNC Receptacles

■ Standoff

Model	Description
BJ-JR	Jack to Jack

• Standard package (20pcs)

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

■ Flush-mount Receptacles

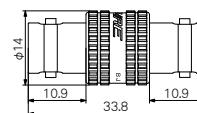
Model	Description	Flange Type
BJ-JRU	Jack to Jack	ITT XLR-F77
BJ-JRUD		Neutrik D

• Standard package (20pcs)

- Two types of flanges are available.
- Flush-mount receptacle prevents damage on the jack.



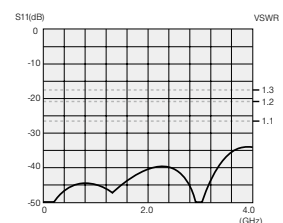
BJ-J



BJ-J



Website



Return loss for BJ-J

50Ω BNC Extension Adapter

Model	Description
BJ-J	Jack to Jack

• Standard package (20pcs)

- VSWR of 1.1 or less up to 4 GHz.

50Ω TNC Crimp Plugs

■ Straight

Model	Suitable Cable	Boot	Die Set
TNP-C3	L-3D2V, 3D-2V	CB03	TCD-35D
TNP-C31	L-3D2W, 3D-2W	CB04	TCD-3151D
TNP-C4	RG-58C/U, RG-58A/U	CB03	TCD-35D
TNP-C5	L-5D2V, 5D-2V	CB05A	
TNP-C51	L-5D2W, 5D-2W	—	TCD-3151D
TNP-C5F	L-5DFB, 5D-FB	CB05A	TCD-35DF TCD-55FA

• Standard package (20pcs)

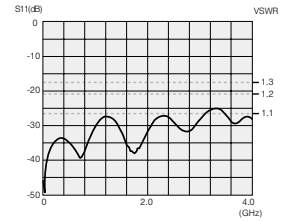
- VSWR of 1.1 or less up to 2 GHz, 1.2 or less up to 4 GHz.
- Canare crimp design ensures quick and reliable installation

Be sure to use Canare Crimp Tool

Website



TNP-C3



Return loss for TNP-C3

Technical Trend

IP Connectivity Products

Fiber-Optic Systems

50Ω N Crimp Plugs

■ Straight

Model	Suitable Cable	Boot	Die Set
NP-C31	L-3D2W, 3D-2W	CB04	TCD-3151D
NP-C51	L-5D2W, 5D-2W	—	
NP-C5F	L-5DFB, 5D-FB	CB05A	TCD-35DF TCD-55FA
NP-C51F	L-5DFBW-PE	—	TCD-55FA

• Standard package (20pcs)

■ Straight Jack

Model	Suitable Cable	Boot	Die Set
NJ-C5F	L-5DFB, 5D-FB	CB05A	TCD-35DF TCD-55FA

• Standard package (20pcs)

- VSWR of 1.1 or less up to 2 GHz, 1.2 or less up to 4 GHz.
- Canare crimp design ensures quick and reliable installation

Be sure to use Canare Crimp Tool

Website



NP-C51

Connectors

Cables

50Ω SMA Crimp Plugs

■ Straight

Model	Suitable Cable	Die Set
SMAP-C1	1.5D-QEW	TCD-1DB
SMAP-C31A	L-3D2W, 3D-2W	TCD-3151D
SMAP-C3F	L-3DFB	TCD-35DF
SMAP-C51	L-5D2W, 5D-2W	TCD-3151D
SMAP-C5F	L-5DFB, 5D-FB	TCD-35DF, TCD-55FA

• Standard package (20pcs)

■ Straight Jack

Model	Suitable Cable	Die Set
SMAJ-C3F	L-3DFB	TCD-35DF
SMAJ-C51	L-5D2W, 5D-2W	TCD-3151D
SMAJ-C5F	L-5DFB, 5D-FB	TCD-35DF, TCD-55FA

• Standard package (20pcs)

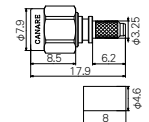
- VSWR of 1.1 or less up to 2 GHz, 1.2 or less up to 4 GHz. (SMAP-C1: VSWR of 1.2 or less up to 2 GHz)
- Canare crimp design ensures quick and reliable installation (SMAP-C1 has solder center contact)

Be sure to use Canare Crimp Tool

Website



SMAP-C1



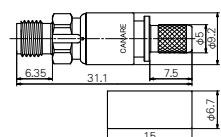
SMAP-C1



SMAP-C31A



SMAJ-C3F



SMAJ-C3F

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Connectors

Cable Stripper, Crimp Tools

Coaxial Cable Stripper

Three internal circular steel blades perform precise, extremely clean and easy stripping.

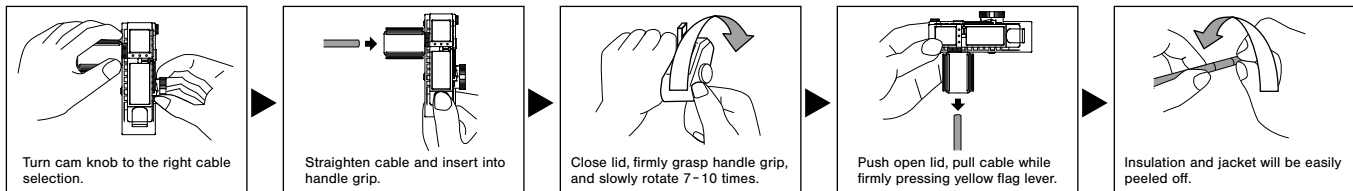
Model	Preset to
TS100E	LV-77S-L-5CFB, V*-5CFB, V*-5C, LV-61S-L-4CFB, V*-3C
TS100H	L-2.5CHD-L-2.5CHLT, L-3.3CUHD-L-3C-AHD, L-3CFB-L-3C2V-L-3C2VS, L-5CFB, L-4CFB
TS100U	L-2.5CHD, 1855A, 1505A, 1694A

- For most Canare BNC, DIN, RCA and F crimp plugs.
 - Rotary knob to select 5 different cable setups.
 - Make your own cable setting within cable O.D. 4mm~11mm
 - Hex wrench is attached on the lid top for quick adjustment.
 - One replacement blade included, and also sold separately.
- Replacement blade: TSC (1pc)

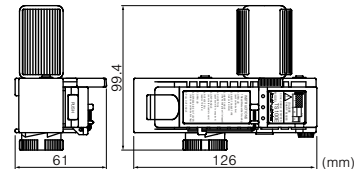
Note: The stripping quality of coaxial cables may be affected by their construction, particularly in the following cases:

1. Harder jackets
2. Softer insulation
3. Multilayer shielding

These factors can result in suboptimal stripping conditions.



TS100E



Website

Crimp Tools

Canare crimp tool offers reliable high-quality crimping performance in an easy-to-use design.

Die Sets

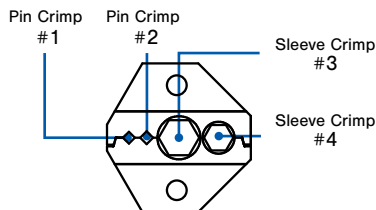
Model	Pin Crimp		Sleeve Crimp		Model
	#1 (mm)	#2 (mm)	#3 (mm)	#4 (mm)	
TC-D-1DB	—	—	3.94	—	TC-1
TC-D-31C	1.37	—	6.75	—	TC-1
TC-D-3151D	1.92	—	8.36	6.75	TC-1
TC-D-316C	1.35	—	9.4	6.75	TC-1
TC-D-35CA	1.35	—	7.6	5.85	TC-1
TC-D-35D	1.92	—	7.6	5.85	TC-1
TC-D-35DF	1.92	2.1	8.05	5.82	TC-1
TC-D-4CA	1.35	—	6.48	—	TC-1
TC-D-451CA	1.35	—	8.36	6.4	TC-1
TC-D-5CF	1.31	—	8.05	—	TC-1
TC-D-5HD	1.87	—	8.05	—	TC-1
TC-D-55FA	1.35	2.1	8.05	—	TC-1
TC-D-55UHD	1.62	—	8.05	—	TC-1
TC-D-57C	1.62	—	8.5	—	TC-1

Hand Crimp Tools

Die Sets

Model	Pin Crimp		Sleeve Crimp		Model
	#1 (mm)	#2 (mm)	#3 (mm)	#4 (mm)	
TC-D-65C	1.92	—	9.4	7.6	TC-1
TC-D-67HD	2.1	—	10.2	—	TC-1
TC-D-7CA	1.87	—	10.2	—	TC-1
TC-D-8HD	2.4	—	11.26	—	TC-2
TC-D-96C	1.92	—	11.26	9.4	TC-2
TC-D-D253F	1.1	—	5.1	5.85	TC-1
TC-D-D534F	1.27	—	7.55	6.4	TC-1

Hand Crimp Tools



Website

Crimp Tools

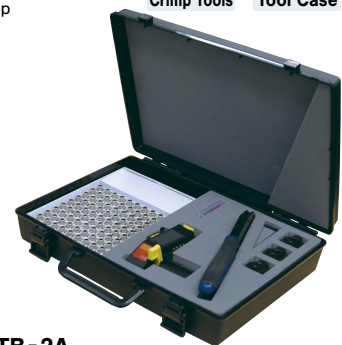


Website

Tool Case

Accessories

Model	Description	Length
TB-2A	Tool case	—
BET-BNC	Extraction tool for BNC straight plug	300 mm
BET-MBNC	Extraction tool for MBNC-C series	300 mm
BET-HBNC	Extraction tool for HBCP-D25HDA, D25HWA, D33UHDA (Narrow Pitch Ready: 8mm)	300 mm
BET-DIN	Extraction tool for DCP-C series	300 mm
BET-D/H	Extraction tool for DCP-C, HBCP-D series & HBCP-DA series Narrow Pitch Ready: DCP-C: 11mm HBCP-D25HDA, D25HWA, D33UHDA: 10mm HBCP-D53A, D55UHD: 12mm	300 mm

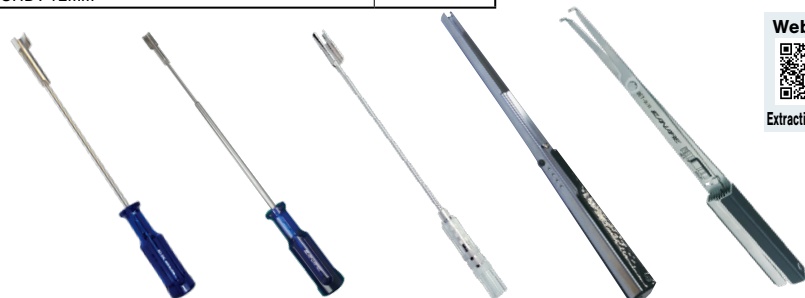


TB-2A
(tools and connectors not included)

- Select the appropriate die set to suit the individual connector
- Hand crimp tool is required for die set, and sold separately
- Die set are interchangeable



TC-1



BET-BNC

BET-HBNC

BET-MBNC

BET-DIN

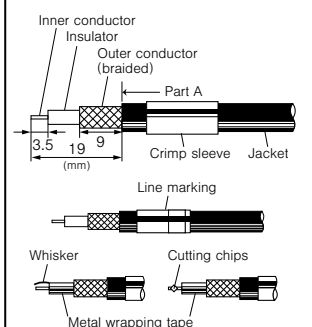
BET-D/H



Website

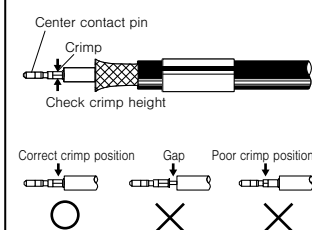
Extraction Tools

Crimp Connector Assembly Instructions

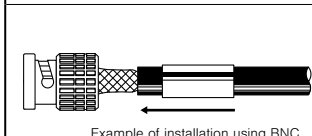


Confirm compatibility of the connector and cable prior to assembly.

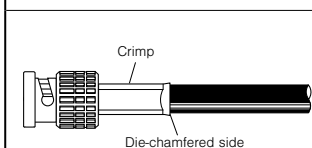
- Slide the crimp sleeve over the cable and strip the jacket, braided shield, and insulation of the coaxial cable as shown at left.
 - For cables with stranded inner conductor, twist the strands in the same direction as plied after removing the insulation.
 - For a crimp sleeve with steps, slip it over the cable from the stepped end, as in the diagram.
 - If any metal foil shield is left on the cable, it may get stuck in the mouth of connector, making insertion impossible.
 - Remove all stray strands and offcuts of the metal foil shield to avoid possible short circuiting.
 - Make sure the inner conductor is free of all insulation debris and offcuts to ensure complete crimping.



- Place the center contact pin of the connector on the inner conductor of the cable and crimp the center contact pin at the correct position (without remaining a gap) as shown at left, using the specified crimp tool and die set.
 - To confirm the crimping properly, measure the crimp height after removing burrs with a knife. If it is not within the ideal value range, adjust the crimp tool.
 - Do not crimp the center contact pin at the stepped root end.
 - Confirm the center contact pin is crimped straight to the inner conductor. If the center contact pin is slanted, align it gently.



- Hold the cable and push it into the connector body until the center contact is locked in place. You may feel a click sound when the center contact is locked.
 - Pull the cable gently (less than 4.5 lbs or 19.6 N) to confirm that is locked.



- Slide crimp sleeve up against connector body over the braided shield until it butts against the connector body. Center the die over the crimp sleeve and crimp in place, using the specified crimp tool and die set.
 - Do not pull the cable while crimping is executed.

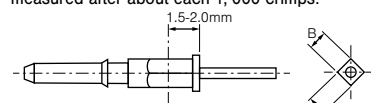
Adjusting Crimp Tool

1. Measuring Crimping height

Crimp height is measured after the crimp is made. As shown in the figure, the sum of the measured values for both directions is divided by two to arrive at the crimp height. The ideal value range for the BCP-A3 connector, for example, is 1.4 mm to 1.5 mm. When this value is lower (overcrimping occurs) than the recommended crimp height, the crimp becomes very hard. A value higher (undercrimping occurs) than the recommended value can result in increased electrical resistance and a physically weaker crimp. Either digital calipers or a micrometer should be used for measuring crimp height.

2. Measuring Frequency

Crimp height is measured prior to commencing use of the crimp tool and always when changing the crimping die. After this, the crimp height is regularly measured after about each 1,000 crimps.



Crimp height value= (A+B) / 2

Refer to the separately included manual for the appropriate crimp height values for individual connectors.

3. Tool Measuring Procedures

Crimp force increases and crimp height decreases when the tool's adjuster dial is turned in the direction of the 9. The dial is adjusted by first releasing it using a screw driver.



FAQ

Q Does it matter in which direction crimp sleeves are attached?

A For BCP-A3-use and other non-stepped (straight type) crimp sleeves, it does not matter in which direction the crimp sleeve is attached. The attachment direction also does not matter for BCP-A5F-use and other specific-use types that have a chamfer (groove) at one end of the crimp sleeve. However, stepped crimp sleeves such as those for BCP-C1, etc. are directional and must be attached in the direction shown in the diagram below, with the cable threaded through the sleeve starting from the end with the step (that is, the end with smaller-diameter hole).



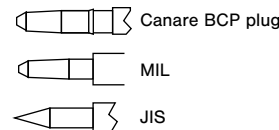
Q What should be done with a metal foil shield?

A Strip the metal foil shield to the root of the braided shield (to the edge of the jacket). If any metal foil shield is left on the cable, it may get stuck in the mouth of connector, making insertion impossible.

Q Why do some BNC plugs made by other companies have a sharp point at the tip of the central contact? Are these compatible with Canare's BNC receptacles?

A The central contact is pointed in conformance with the JIS standard for 50Ω BNC connectors. The central contacts on Canare's connectors conform to the MIL standard, and therefore are not pointed. These two different shapes simply offer different ways to guide the plug into the female receptacle and have no direct effect on contact quality.

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



Q Is it possible to use cables not listed in the connector compatibility table as long as they are close to the dimensions of those listed?

A No. While connection may be possible, performance may be adversely affected. Even if the connection appears to work, factors such as electrical instability, weak cable contact strength and others may cause problems during actual use. Therefore, it is necessary to test and evaluate whether it is actually possible to use the configuration in question. Particular caution should be used when crimping is involved.

Q What is meant by "cable contact strength"?

A Cable contact strength refers to the maximum load borne by the cable when exerting tensile force to remove it from the connector. For Canare products, "cable contact strength" refers to the contact strength of a cable's outer conductor, not including the pull-out strength of the central contact or the contact strength of the inner conductor.

Q What is the approximate insertion loss associated with connectors?

A The value varies depending on the connector, but for BNC plugs, the value is approximately 0.1 dB per plug (DC-2 GHz).

Connectors

Crimp Tools

Cables to Connector Cross-Reference

■ BNC, Slim BNC, F, RCA

See page 39-40, for 50Ω cables and connectors.
See page 42, for more information about the crimp height.
These tables include cables of other brands such as Belden, Draka, and Geppo.

Cable	BNC			Slim BNC MBCP-C	F FP-C	RCA RCAP-C	Multi-pin MCM/MCF	Suitable Die Set	Crimp Height
	BCP-D/B	BCP-A/C	BCP-L*						
L-1.5C2VS/V*-1.5C 1.5C-2V		BCP-C1						TCD-1DB	N/A (solder pin)
L-2.5C2V		BCP-A25						TCD-35CA	1.40 - 1.47
L-2.5CFB 1855A 1855P	BCP-B26	BCP-A25F	BCP-LD25HD	MBCP-C25F		RCAP-C25F			1.40 - 1.50
L-2.5CHD/L-2.5CHLT VDM230 1855ENH HD PRO 0.6/2.8 AF	BCP-B25HD		BCP-LD25HD		FP-C25HD	RCAP-C25HD			
L-2.5CHWS V4-2.5CHW	BCP-B25HW		BCP-LD25HW						
L-3C2V/L-3C2VS V3-3C/V4-3C V5-3C		BCP-A3					MC*-V5C3		
L-3CFB V*-3CFB	BCP-B3F	BCP-A3F	BCP-LC3F	MBCP-C3F	FP-C3F	RCAP-C3F	MC*-V5C3		
L-3C-AHD		BCP-A3AHD						TCD-35CA	
L-3.3CUHD L-3.3CUHWS	BCP-D33UHD BCP-D33UHW		BCP-LD33UHD						
1695A VSD2001TS		BCP-A55						TCD-451CA	
L-3C2W L-3CFW V*-3CFW	BCP-B31F	BCP-A31			FP-C31			TCD-31C	
LV-61S RG-59B/U		BCP-A4		MBCP-C4	FP-C4	RCAP-C4A		TCD-4CA or TCD-451CA	1.40 - 1.50
L-4CFB/V*-4CFB 1505A, 1505ANH HD PRO 0.8/3.7 AF VPM2000	BCP-B4F	BCP-A4F		MBCP-C4F	FP-C4F	RCAP-C4F			
L-4CHD 1505F		BCP-A42				RCAP-C42		TCD-31C	
L-4.5CHD 1694A HD PRO 1.0/4.8 AF	BCP-B53 BCP-B56		BCP-LD53	MBCP-C53	FP-C53A	RCAP-C53		TCD-35CA	1.40 - 1.50
L-4.5CHWS	BCP-B45HW								
L-5C2V/L-5C2VS V*-5C		BCP-A5 BCP-A5 BCP-VA5	BCP-LC5		FP-C5	RCAP-C5A		TCD-5CF or TCD-55FA excluding BCP-A5F (*1)	1.40 - 1.50
LV-77S		BCP-A77				RCAP-C77			
L-5CFB V*-5CFB	BCP-B5F	BCP-A5F (*1)	BCP-LC5F	MBCP-C5F	FP-C5F	RCAP-C5F			
L-5CFW V*-5CFW	BCP-B51F								
8281F		BCP-A77				RCAP-C77			
L-5C2W L-5CHD		BCP-A52			FP-C52				
L-5.5CUHD L-5.5CUHWS	BCP-D55UHD BCP-D55UHW							TCD-451CA	1.90 - 2.00
4794R	BCP-D57							TCD-5HD	
L-6CHD L-7CHD L-7CFB 7731A 9292		BCP-C6HD BCP-C7HD BCP-C7FA BCP-C71A						TCD-55UHD	1.62 - 1.72
L-8CHD/L-8CUHD GS-6	BCP-D8UHD							TCD-57C	
								TCD-8HD	2.44 - 2.54
						RCAP-C3GS		TCD-35D	2.01 - 2.20

*1: Suitable die set for BCP-A5F is TCD-35CA

■ Micro BNC, DIN1.0/2.3, 4K-DIN

Cable	Micro BNC	DIN	4K-DIN	Suitable Die Set	Crimp Height
	HBCP-D	DCP-C	MDM/MDF		
L-2.5CHD/L-2.5CHLT 1855A VDM230	HBCP-D25HDA	DCP-C25HD		TCD-D253F	1.08 - 1.16
L-2.5CHWS V4-2.5CHW	HBCP-D25HWA	DCP-C25HW	MD*-V4C25HW		
L-3CFB		DCP-C3F			
L-3.3CUHD	HBCP-D33UHDA				
L-4CFB 1505A VPM2000		DCP-C4F		TCD-D534F	1.25 - 1.33
L-4CHD					
L-4.5CHD 1694A VSD2001	HBCP-D53A	DCP-C53			
L-5.5CUHD	HBCP-D55UHD				
				TCD-55UHD	1.62 - 1.72

■ Video Patch Plugs

Cable	Video Plug	Suitable Die Set	Crimp Height
L-2.5CHWS	VWP-C25HW MVP-C25HW	TCD-D253F	N/A (solder pin)
	MCVP-C25HW SVP-C25HW	TCD-D253F	1.08 - 1.16
LV-61S	VWP-C4A MVP-C4	TCD-4CA or TCD-451CA	N/A (solder pin)
RG-59B/U			

Be sure to use in the suitable combination of cable, connector, and die set

110Ω-75Ω Impedance Transformers



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Passively convert AES/EBU digital audio signals from 110Ω/XLR3 output to a 75Ω BNC coaxial cable and then back again to a 110Ω/XLR3 input.

Adapter Type

Model	Description
BCJ-XJ-TRC	XLR3 (F) - BNC Jack
BCJ-XP-TRC	XLR3 (M) - BNC Jack
BCJ-XJ-A10TRC	XLR3 (F) - BNC Jack, 10dB Attenuation Pad

Panel Mount Type

Model	Description (Front - Back)	Flange Type
XJ3F-TRC-BCJ	XLR3 (F) - BNC Jack	ITT XLR-F77
XJ3M-TRC-BCJ	XLR3 (M) - BNC Jack	
BCJ-TRC-XP3F	BNC Jack - XLR (F)	
BCJ-TRC-XP3M	BNC Jack - XLR (M)	
XJ3F-A10TRC-BCJ	XLR3 (F) - BNC Jack, 10dB Attenuation Pad	
BCJ-A10TRC-XP3F	BNC Jack - XLR3 (F), 10dB Attenuation Pad	

- SMPTE 276M and AES3 transmission standards
- Coaxial transmission of 2 channel digital audio
- Allows longer cable runs than 110Ω twisted pair
- AES/EBU signal distribution using Canare 75Ω video patchbays



BCJ-XJ-TRC



BCJ-XP-TRC



BCJ-XJ-A10TRC

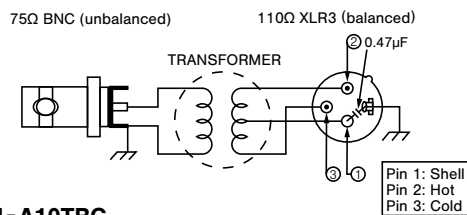


XJ3F-TRC-BCJ

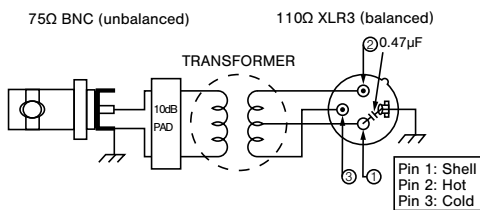


BCJ-TRC-XP3M

BCJ-XJ-TRC / BCJ-XP-TRC



BCJ-XJ-A10TRC



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

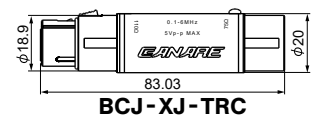
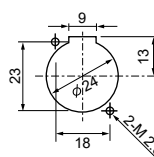
AES/EBU Transmitter (V)	Transformer Out (V)
2.0	1.60
3.0	2.39
4.0	3.18
4.5	3.60
5.0	3.98
6.0	4.78
7.0	5.58
8.0	6.38
9.0	7.18
10.0	7.98

BCJ-XJ-TRC/BCJ-XP-TRC

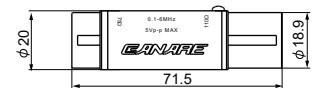
AES/EBU Transmitter (V)	Transformer Out -10dB Pad (V)
2.0	0.50
3.0	0.75
4.0	1.01
4.5	1.13
5.0	1.26
6.0	1.51
7.0	1.76
8.0	2.02
9.0	2.27
10.0	2.52

BCJ-XJ-A10TRC

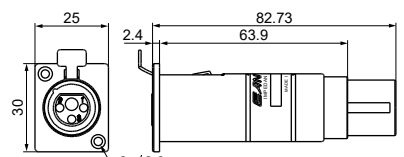
Panel Hole Dimensions



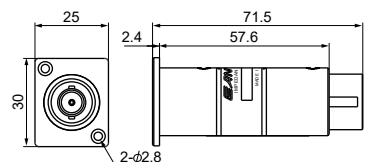
BCJ-XJ-TRC



BCJ-XP-TRC



XJ3F-TRC-BCJ



BCJ-TRC-XP3M

Considerations When Configuring and Selecting Cables for Microphone Systems

With the growing demand of recent years for both greater physical comfort and savings in energy consumption, systems incorporating digital control based on the latest advances in electronics are coming into wider use for air conditioning and lighting systems. As all these systems come on line, we cannot help but be reminded of the fact that the wiring used for these digital control systems generates pulse-based electromagnetic noise of the kind that affects the very delicate signals used in microphone lines.

Microphone cables are designed to carry a range of signals that span the spectrum from 1/100 of a volt (10 mV) to 1/1,000,000 (1 μ V). One small error in wiring procedure or cable selection and the entire microphone system turns into an antenna collecting the surrounding noise.

The following section uses a question and answer format to cover a list of the essential points for configuring microphone systems.



Q1 Under what sort of conditions should a two-conductor microphone cable be used?

The two-conductor microphone cable is suited to environments where noise is not such a great factor and the audio signals are in the comparatively high -20 dB to 0 dB level range. In such cases, the two-conductor cable offers the advantages of smaller diameter and lower cost. Of course if microphone level, rather than line level, is the criterion being used, star quad cable should be used instead.

Q2 Under what conditions should star quad microphone cable be used?

This type is used for environments with a higher noise factor and where audio signals are in the low -50 dB or less range. This type of cable performs well under noise conditions that exceed the capacity of the two-conductor shielded cable, effectively shielding out over ninety percent more noise. (See Figs. 1, 2)

However, should this type be routed alongside a power cable of any significant capacity it should probably be encased in metal conduit just to be safe.

Q3 Isn't star quad cable expensive?

The cost for this type of cable has fallen significantly in recent years. Several decades ago, cost was so prohibitive a factor that only large musical auditoriums and broadcasting facilities could afford them. Canare succeeded in developing a low-cost star quad cable using aluminum foil in 1981. In addition to traditional professional facilities, this type gained wide use in such non-traditional areas as wedding halls and school lecture rooms.

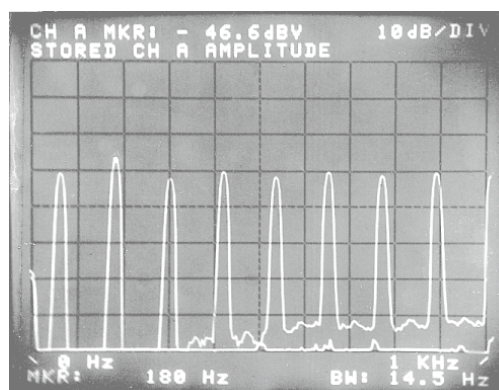


Fig. 1 Noise induced in two-conductor shielded cable (MVVS)

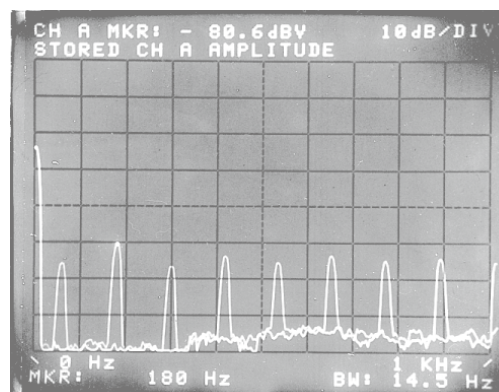
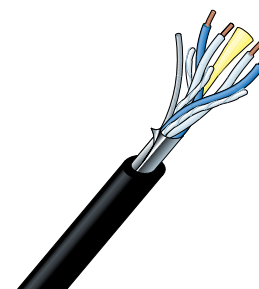


Fig. 2 Noise induced in star quad cable (Canare L-4E5AT)

<Test conditions>

1. Flush along power cables for 20 m distance
2. Power cable connected to lighting fixture dimmed to 50% capacity with load of 1 kW.
3. The noise induced in the audio cable was boosted by 50 dB in the head amplifier and viewed on a spectrum analyzer.



Star quad cable with aluminum foil shield

Q4 When avoiding use of metal conduit, how far away should microphone cable be from power cables?

When foregoing the use of protective metal conduit, use the graph shown in Fig. 3 as a general guide for distancing cables. Note that ignoring basic guidelines for positioning cables can easily result in noise induction problems which are very difficult to deal with later. Encasing microphone cables in metal conduits is highly recommended for applications that utilize the delicate signal range.

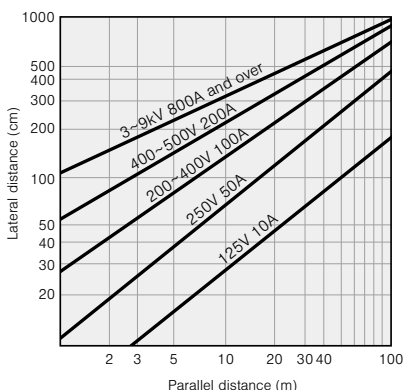


Fig. 3 Distances for positioning microphone and power cables

<Requisite conditions>
 1. Cables are the star quad type.
 2. Power cables are in the circular cab tire configuration.

Q5 What considerations are required when using a rack for strong electric current?

The same as for the preceding question when metal conduit is not used.

Q6 Would there be any problem with routing the cables through a flexible metal conduit?

The flexible conduit would certainly help to reduce noise but would not be as effective as a rigid metal conduit. Use the graph in Fig. 4 as a guide for distancing cables.

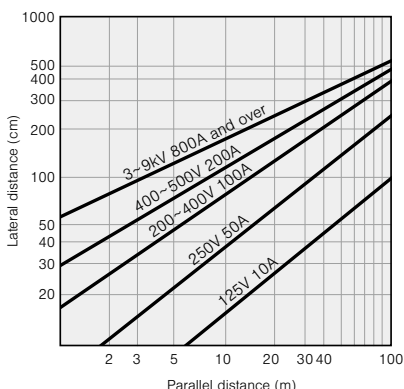


Fig. 4 Distances for positioning microphone and power cables when routing microphone cables via flexible metal conduit

<Requisite conditions>
 1. Cables are the star quad type routed through flexible metal conduit.
 2. Metal conduit is grounded using appropriate level of resistance.
 3. Power cables are in the circular cab tire configuration.

Q7 What are the criteria for choosing between the many different types of microphone cables?

As all are designed to provide electromagnetic shielding there is not that much basic difference in shielding performance. However, they do differ in various specific characteristics. Cable type should be selected according to specific requirements. (See Fig. 5)

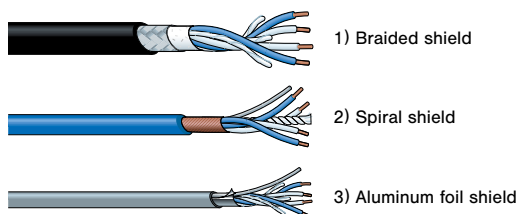


Fig. 5 Types of star quad microphone cables

• Braided Shield

The braided copper shield is designed to maintain effective shielding performance, regardless of how many times the cable is unwound, bent, twisted or rewound. It is ideal for use as handheld microphone cables or extension cables. This type is more expensive than other types as it is braided very finely to ensure a highly impenetrable shield. Cable termination requires seasoned expertise.

• Spiral Shield

The spiral shield consists of several copper wires wound tightly around the cable in a spiral wind. The shielding effect is heightened by winding the shield on twice, each time from different directions in what is referred to as the "double-spiral shield." The cost range for the spiral shield cable lies roughly mid way between the braided shield and the aluminum foil shield cable. Although cable termination operations are comparatively simple, the spiral shield tends to deteriorate when flexed too frequently. It is designed for stationary installation.

• Aluminum Foil Shield

The aluminum foil shield cable consists of aluminum foil fused onto a polyester film and wound around the cable in the form of a tape. Cable termination involves a simple operation and the cable is relatively inexpensive. The aluminum foil cable is recommended for use as stationary cabling.

Aluminum foil cable with a Kevlar cable filler is highly recommended for areas where cables will be routed through metal conduit. The Kevlar filler protects the cable as it passes through the conduit, preventing cable breakage or shorting, even when intense stress is applied to the cable. The aluminum foil cable is currently widely used in function halls and multipurpose track and field stadiums.

AWG is for Indicating conductor size

AWG stands for American Wire Gauge. While it is primarily used in North America, it is widely recognized internationally. For solid conductors, the AWG number corresponds to the diameter, whereas for stranded conductors, it is determined by the cross-sectional area. Table 1 provides a list of typical AWG sizes for Canare cables. Complete AWG details can be found on each cable's product page.

Type	Solid Conductor			Stranded Conductor		
	Diameter (mm)		Canare Model	Cross Sec Area (mm ²)		Canare Model
AWG	Nominal	Minimum		Nominal	Minimum	
25	0.455	0.450		0.162	0.159	MR202-AT, DA202
24	0.511	0.506		0.205	0.201	L-4E6S, LV-61S
23	0.574	0.569	L-2.5CHD	0.259	0.254	L-2T2S
22	0.643	0.635		0.324	0.318	DMX203, LV-77S, L-3.3CUHWS
21	0.724	0.716	L-3.3CUHD	0.412	0.404	
20	0.813	0.805		0.519	0.509	4S6, L-4.5CHWS
19	0.910	0.904		0.653	0.641	
18	1.020	1.016	L-4.5CHD	0.823	0.807	GS-6
17	1.150	1.140		1.040	1.020	
16	1.290	1.278	L-5.5CUHD	1.310	1.280	4S8, 2S7F, L-5.5CUHWS
15	1.450	1.435		1.650	1.620	
14	1.630	1.613		2.080	2.040	4S11, 2S9F
13	1.830	1.800	L-8CUHD	2.630	2.580	
12	2.050	2.030		3.310	3.240	2S11F

< Table 1 >

Cables

Star Quad Cables

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 with braided shields 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.

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.

Conductors

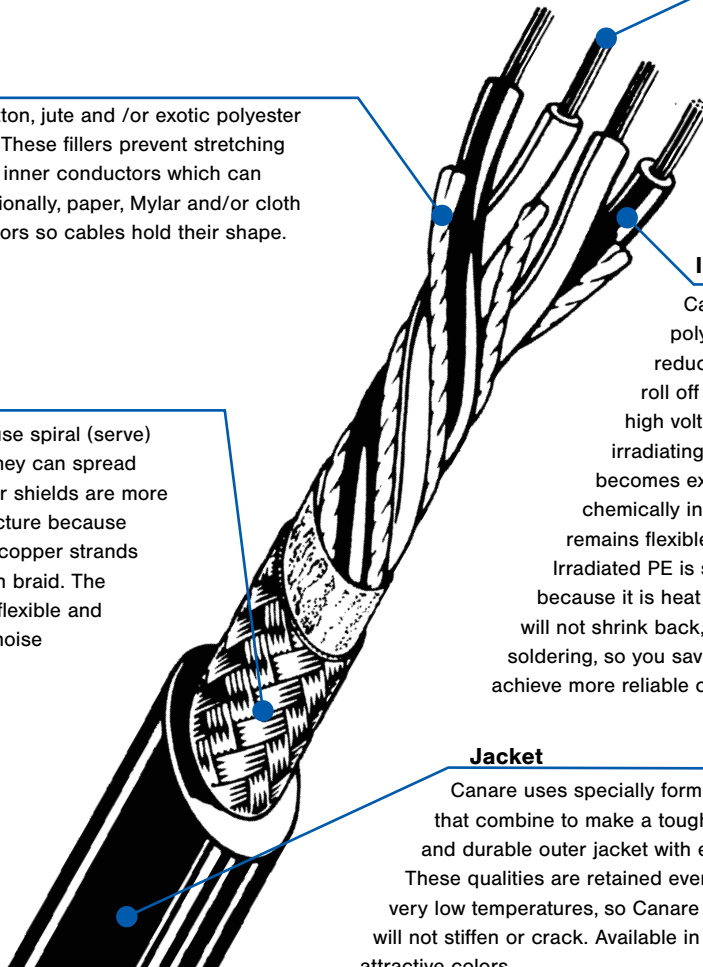
All Canare microphone cables utilize high-conductivity, annealed copper wires, stranded to form flexible conductors and shields.

Insulation

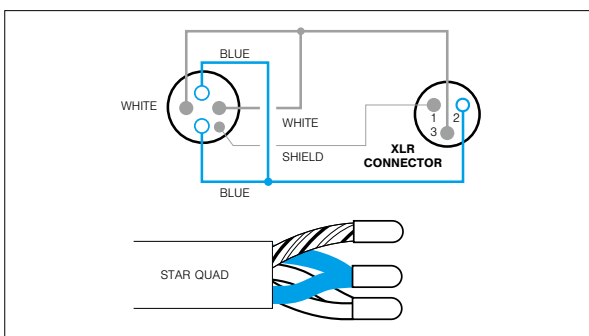
Canare cables utilize special polymer compounds that reduce capacitive "R-C" filter roll off within the cable and prevent high voltage breakdown. By irradiating the material, the polymer becomes extensively cross-linked, chemically inert, water resistant, and remains flexible at very low temperatures. 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

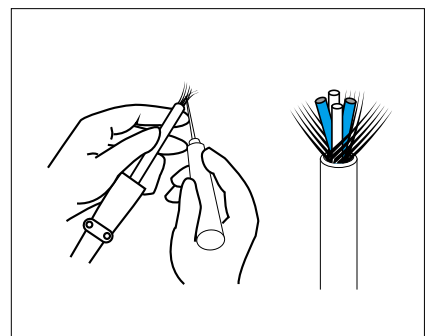
Canare uses specially formulated PVC compounds that combine to make a tough, strong and durable outer jacket with excellent flexibility. These qualities are retained even at very low temperatures, so Canare cables will not stiffen or crack. Available in 10 attractive colors.



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.



Star Quad Microphone Cables (Single)



Effectively reduce noise levels to 1/10 that of general-purpose, 2-conductor shielded cables.

Aluminum Foil Shield

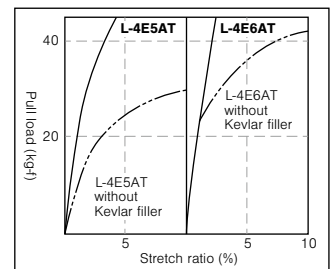
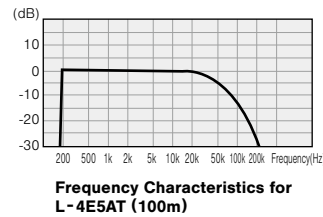
Type	Model	Sales units	Nom. O.D.	Weight	Composition			Electrical characteristics				
					No. of cond.	Cross sec. area (AWG) and cond. comp.	Twist pitch	Shield	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
		m	mm	kg/100m		mm ² /(AWG) Q'ty/mm	mm		Ω/100m	Ω/100m	pF/m	pF/m
	L-4E3AT	200 500	3.0	1.2	4	0.08(28) 7/0.12A	16	AL foil	24.6	—	—	—
	L-4E5AT	100 200 400	5.0	3.3	4	0.18(25) 16/0.12A	21	AL foil	10.7	—	164	222
	L-4E5ATG		5.0	3.3	4	0.18(25) OFC 1/0.18+30/0.08	21		11.1	—	164	222
	L-4E6AT		6.2	5.0	4	0.31(23) 12/0.18A	25		6.4	—	150	210
	L-4E6ATG		5.8	4.6	4	0.34(22) OFC 1/0.18+63/0.08	35		5.5	—	150	210
	L-4E5AT-WBS	100 200 400	6.8	8.9	4	0.18 (25) 16/0.12A	21	AL foil + double braid	10.7	—	164	222
	L-4E6AT-WBS	100 200 400	8.6	12.3	4	0.31 (23) 12/0.18A	25	6.4	—	150	210	

Insulation: Cross-linked PE Jacket: PVC Dielectric strength: 500V AC/min.

*Capacitance between conductors **Capacitance between conductor and shield.

L-4E*AT Series

- Designed for fixed installations
- Aluminum foil shielding provides 100% coverage
- DuPont Kevlar* filler can resist stretching of cable when pulled through conduit. (excluding L-4E3AT)
- Foil shield and drain wire offer quick assembly work
- L-4E*ATG has an OFC conductor
- L-4E*AT-WBS has a high-density double-braided shield. Its foil and braided shield are insulated by inner jacket.



Braided Shield

Type	Model	Sales units	Nom. O.D.	Weight	Composition			Electrical characteristics				
					No. of cond.	Cross sec. area (AWG) and cond. comp.	Twist pitch	Shield Coverage (braid)	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
		m	mm	kg/100m		mm ² /(AWG) Q'ty/mm	mm	%	Ω/100m	Ω/100m	pF/m	pF/m
	L-4E5C	100 200	4.8	3.4	4	0.15(26) 30/0.08A	18	96%	13.0	2.4	162	200
	L-4E6S		6.0	4.8	4	0.20(24) 40/0.08A	20	94%	9.8	3.1	150	185
	L-4E5	100 200	4.8	3.5	4	0.15(26) 30/0.08A	18	96%	13.0	1.9	162	200
	L-4E6	100 200 400	6.5	6.1	4	0.23(24) 20/0.12A	25	96%	8.6	1.6	144	187

Insulation: Cross-linked PE Jacket: PVC Dielectric strength: 500V AC/min.

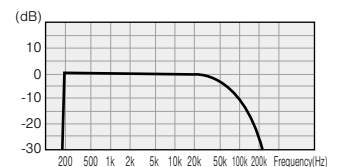
*Capacitance between conductors. **Capacitance between conductor and shield.

L-4E5C, L-4E6S

- Bend resistant design: the conductor consists of ultrafine 0.08 mm strands offers excellent durability.
- High-density braided shield

L-4E5, L-4E6

- High-density braided shield
- Drain wire included

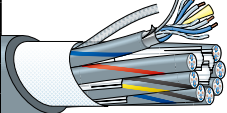


Frequency Characteristics for L-4E6S (100m)



Multichannel Star Quad Microphone Cables

Aluminum Foil Shield

Type	Model	No. of ch.	Sales units	Nom. O.D.	Weight	No. of cond.	Unit composition			Electrical characteristics			
							Cross sec. area (AWG) and cond. comp.	Twist pitch	Ch. O. D.	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
							mm ² /(AWG) Q'ty/mm	mm	mm	Ω/100m	Ω/100m	pF/m	pF/m
 L-4E4-8AT Jacket color: GRY	L-4E3-2AT	2	100 200 500	8.5	7.3	8	0.08(28) 7/0.12A	16	3.0	24.8	—	—	—
	L-4E3-4AT	4		10.0	11	16							
	L-4E3-8AT	8		13.8	19	32							
	L-4E3-12AT	12		15.6	26	48							
	L-4E3-16AT	16		17.2	32	64							
	L-4E3-24AT	24		21.3	47	96							
	L-4E4-2AT	2		10.5	12	8	0.18(25) 16/0.12A	21	3.7	10.8	—	164	222
	L-4E4-4AT	4		12.3	17	16							
	L-4E4-8AT	8		16.9	31	32							
	L-4E4-12AT	12		18.9	41	48							
	L-4E4-16AT	16		20.9	50	64							
	L-4E4-24AT	24		26.1	76	96							

Insulation: Cross-linked PE (blue-blue, white-white) Jacket, inner Jacket: PVC Dielectric strength: 500V AC/min. *Capacitance between conductors **Capacitance between conductor and shield.

L-4E3-**AT, L-4E4-**AT

- The multichannel microphone cable is the cable of choice for music auditorium and studio facilities where noise prevention and audio quality are the prime considerations.
- Each unit contains the highly pull-resistant Kevlar* cable filler.
- *Kevlar is a trademark of DuPont.
- Drain wire included in each unit.

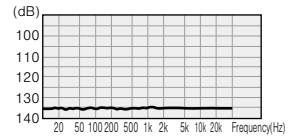
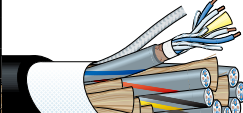


Fig. 1 Crosstalk Characteristics for L-4E4-4AT (100m)

Braided Shield

Type	Model	No. of ch.	Sales units	Nom. O.D.	Weight	No. of cond.	Unit composition			Electrical characteristics				
							Cross sec. area (AWG) and cond. comp.	Twist pitch	Shield coverage (braid)	Ch. O.D.	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
							mm ² /(AWG) Q'ty/mm	mm	%	mm	Ω/100m	Ω/100m	pF/m	pF/m
 L-4E3-8P Jacket color: BLK (L-4E3-2H GRY)	L-4E3-2H	2	100 200 500	8.9	9.5	8	0.08(28) 7/0.12A	16	93%	3.4	24.9	3.4	145	170
	L-4E3-2P	2		8.9	8.2	8								
	L-4E3-4P	4		10.9	13	16								
	L-4E3-8P	8		15.3	26	32								
	L-4E3-12P	12		17.4	36	48								
	L-4E3-16P	16		18.9	46	64								
	L-4E3-24P	24		24.0	70	96	0.15(26) 30/0.08A	18	95%	4.0	13.1	2.4	162	200
	L-4E4-2P	2		11.1	13	8								
	L-4E4-4P	4		13.4	21	16								
	L-4E4-8P	8		18.2	34	32								

Insulation: Cross-linked PE (blue-blue, white-white) Jacket, inner jacket: PVC Dielectric strength: 500V AC/min. *Capacitance between conductors **Capacitance between conductor and shield.

L-4E3-2H, L-4E3-**P, L-4E4-**P

- Ideal multichannel cable for PA and live events where cables are laid down and taken back up on a regular basis.
- Each unit of L-4E3-2P and L-4E3-2H contains the highly pull-resistant Kevlar* cable filler.
- *Kevlar is a trademark of DuPont.
- The L-4E3-2H is the reinforced version containing a stainless steel wire support.

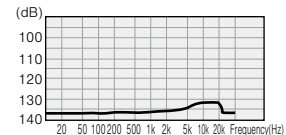



Fig. 1 Crosstalk Characteristics for L-4E4-4P (100m)

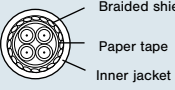
Cross-sectional View

Single unit config.


Aluminum foil shield




Braided shield




2ch




4ch




8ch




12ch



16ch



24ch







Channel color code: Spiral marks on inner jacket (gray).

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
Spiral mark	RED	BLU	YEL	GRN	BRN	-	BLU/BLK	YEL/BLK	GRN/BLK	BRN/BLK	BLK	BLU/ORN	YEL/ORN	GRN/ORN	BRN/ORN	ORN	BLU/PNK	YEL/PNK	GRN/PNK	BRN/PNK	PNK	BLU/WHT	YEL/WHT	GRN/WHT



Two-Conductor Shielded Cables (Single)

Aluminum Foil Shield

Type	Model	Sales units	Nom. O.D.	Weight	Composition			Electrical characteristics			
					No. of cond.	Cross sec. area (AWG) and cond. comp.	Twist pitch	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
						mm ² /(AWG) Q'ty/mm	mm	Ω/100m	Ω/100m	pF/m	pF/m
 Jacket colors: GRY BLK	L-2B2AT	200 500	3.2	1.3	2	0.18(25) 16/0.12A	25	10.5	—	66	120
 Jacket color: GRY	L-2B2AL	200	3.2	1.1	2	0.18(25) 7/0.18TA Overall tin coated	20	11.3	—	—	—
 Jacket colors: GRY BLK SEPIA	L-2E5AT	200	5.0	3.3	2	0.31(23) 12/0.18A	30	6.2	—	68	140
 Jacket color: GRY	L-2E5AL	200 500	5.0	3.7	2	0.29(23) 7/0.23TA Overall tin coated	30	6.8	—	—	—

Insulation: Cross-linked PE (polyethylene for L-2E5AL and L-2B2AL) Jacket: PVC Dielectric strength: 500V AC/min. *Capacitance between conductors **Capacitance between conductor and shield.

L-2B2AT, L-2E5AT

- Ideal for internal rack wiring.
- Drain wire included.
- The L-2E5AT contains the Tetoron cable filler reinforcement material. <Fig. 1>

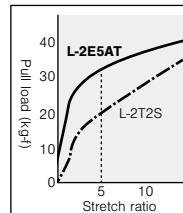


Fig. 1 Pull Load and Stretch Ratio for Cable

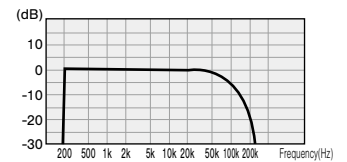



Fig. 2 Frequency Characteristics for L-2B2AT (100m)

L-2B2AL, L-2E5AL

- Cables for connecting devices with which wrapping tools can be used.
- Drain wire included.

Braided Shield

Type	Model	Sales units	Nom. O.D.	Weight	Composition			Electrical characteristics				
					No. of cond.	Cross sec. area (AWG) and cond. comp.	Twist pitch	Shield coverage (braid)	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
						mm ² /(AWG) Q'ty/mm	mm	%	Ω/100m	Ω/100m	pF/m	pF/m
 L-2T2S Jacket colors: L-2T2S: BLK RED ORN YEL BLU GRY L-2E5: BLK	L-2T2S	100 200	6.0	4.6	2	0.30(23) 60/0.08A	20	94%	6.5	3.1	60	106
	L-2E5	200	4.6	3.0	2	0.15(26) 30/0.08A	18	97%	12.7	2.2	63	117

Insulation: Cross-linked PE Jacket: PVC Dielectric strength: 500V AC/min. *Capacitance between conductors **Capacitance between conductor and shield.

L-2T2S, L-2E5



- Braid coverage of 94% and above provides dense shielding that blocks out electromagnetic noise.
- L-2T2S consists of 60 ultra-fine 0.08 mm strands (30 for L-2E5) in a stranded format that offers excellent durability.
- Highly pliable and durable PVC used for jacket. (Brittle temp. -49°C)

Technical Trend
IP Connectivity Products
Fiber-Optic Systems
Connectors
Cables
Panels & Patchbays
Multichannel Systems
Cable Assemblies

Cables

Two-Conductor Shielded Cables

■ Spiral Shield

Type	Model	Sales units	Nom. O.D.	Weight	No. of cond.	Composition			Electrical characteristics			
						Cross sec. area (AWG) and cond. comp.	Twist pitch	Shield coverage	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
						mm ² /(AWG) Q'ty/mm	mm	%	Ω/100m	Ω/100m	pF/m	pF/m
 MS202 Jacket color: BLK	MS202	200	2.8	1.4	2	0.18 (25) 1/0.18TA + 30/0.08TA	25	91% (spiral)	11.3	3.2	74	145
 MS203 Jacket color: GRY		200	3.5	2.1	2	0.31(23) 12/0.18TA	30	91% (spiral)	6.5	2.3	—	—

Insulation: Cross-linked PE Jacket: PVC Dielectric strength: 500V AC/min.

*Capacitance between conductors **Capacitance between conductor and shield.

MS202

- Ideal for analog audio internal rack wiring.
- Composite conductors with 1 of 0.18 mm and 30 of 0.08 mm strands.
- Drain wire included.

MS203

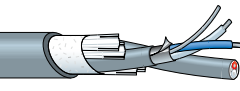
- Ideal for internal rack wiring.
- Drain wire included.

Website



Two-Conductor Shielded Multichannel Cables

■ Aluminum Foil Shield

Type	Model	No. of ch.	Sales units	Nom. O.D.	Weight	No. of cond.	Unit composition			Electrical characteristics			
							Cross sec. area (AWG) and cond. comp.	Twist pitch	Ch. O. D.	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
							mm ² /(AWG) Q'ty/mm	mm	mm	Ω/100m	Ω/100m	pF/m	pF/m
 L-2E4-2AL Jacket color: GRY	L-2E4-2AL	2	100 200 500	8.6	7.6	4	0.29(23) 7/0.23TA Overall tin coated	30	3.7	6.9	—	81	144
	L-2E4-4AL	4		10.8	13.1	8							
	L-2E4-8AL	8		14.9	23.7	16							
	L-2E4-12AL	12		16.9	32.0	24							
	L-2E4-16AL	16		18.8	40.0	32							

Insulation: Cross-linked PE Jacket: PVC Dielectric strength: 500V AC/min.

*Capacitance between conductors **Capacitance between conductor and shield.

L-2E4-AL Series

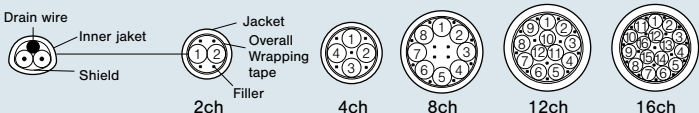
- Used as cables for connecting devices with which wrapping tools can be used.
- Drain wire included in each unit.

Website



No.	Dot line markings
1	—
2	—
3	—
4	—
5	—
6	—
7	—
8	—
9	—
0	—

■ Cross-sectional View

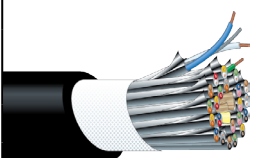
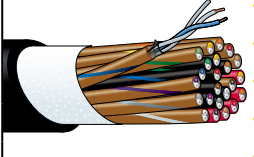
Single unit config. 

2ch 4ch 8ch 12ch 16ch

■ Channel color code: color-coded insulation and dot line markings (ch 1 to 10: red, ch 11 to 16: blue) on inner jacket (gray).

Unit no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Insulation color	RED/ WHT	BLU/ WHT	YEL/ WHT	GRN/ WHT	BRN/ WHT	GRY/ WHT	BLU/ BLK	YEL/ BLK	GRN/ BLK	BRN/ BLK	GRY/ BLK	BLU/ ORN	YEL/ ORN	GRN/ ORN	BRN/ ORN	GRY/ ORN

Aluminum Foil Shield

Type	Model	No. of ch.	Sales units	Nom. O.D.	Weight	No. of cond.	Unit composition			Electrical characteristics			
							Cross sec. area (AWG) and cond. comp.	Twist pitch	Ch. O. D.	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
							mm ² /(AWG) Q'ty/mm	mm	mm	Ω/100m	Ω/100m	pF/m	pF/m
 M202-24AT Jacket color: BLK	M202-2AT	2	100 200 500	6.5	4.8	4	0.18(25) 16/0.12A	30	—	10.5	—	75	135
	M202-4AT	4		8.1	9.0	8							
	M202-8AT	8		11.1	16	16							
	M202-12AT	12		12.5	18	24							
	M202-16AT	16		13.8	24	32							
	M202-24AT	24		16.8	32	48							
	M202-32AT	32		18.6	40	64							
 MR202-24AT Jacket color: BLK	MR202-2AT	2	100 200 500	6.7	4.5	4	0.18(25) 7/0.18A	25	2.7	10.7	—	76	142
	MR202-4AT	4		7.6	6.2	8							
	MR202-8AT	8		11.0	13.2	16							
	MR202-12AT	12		12.7	18.4	24							
	MR202-16AT	16		14.0	22.8	32							
	MR202-24AT	24		17.4	34.0	48							
	MR202-32AT	32		19.1	43.8	64							

Insulation: Cross-linked PE Jacket: PVC Dielectric strength: 500V AC/min.

*Capacitance between conductors **Capacitance between conductor and shield.

M202-AT Series

- Multichannel cable featuring light weight and slim form. At only 16kg for a 50 m length of 24 channel cable, the M202-AT achieves a 47% weight reduction over previous Canare cables.
- Each channel is individually isolated using insulated (PET) aluminum foil shield. <Fig. 1>
- Contains the highly pull-resistant Kevlar cable filler.
- Drain wire included.

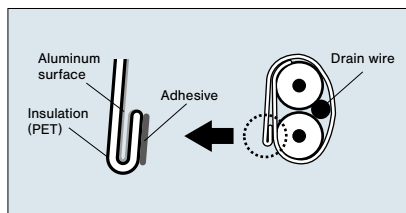
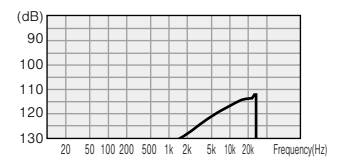


Fig. 1 Aluminum Foil Shield



Crosstalk Characteristics for M202-24AT (100m)



Note:

This series does not have inner jacket, so it cannot be used for fantails.

■ Cross-sectional View

Single unit config. Drain wire, Jacket, Wrapping tape, Aluminum foil shield, Filler, Kevlar

2ch 4ch 8ch 12ch 16ch 24ch 32ch

■ 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
Insulation color	RED/WHT	BLU/WHT	YEL/WHT	GRN/WHT	BRN/WHT	GRY/BLK	BLU/BLK	YEL/BLK	GRN/BLK	BRN/BLK	GRY/ORN	BLU/ORN	YEL/ORN	GRN/ORN	BRN/ORN	GRY/PNK	BLU/PNK	YEL/PNK	GRN/PNK	BRN/PNK	GRY/RED	BLU/RED	YEL/RED	GRN/RED	BRN/RED	GRY/BLU	BLU/BLU	YEL/BLU	GRN/BLU	BRN/BLU	GRY/YEL	BLU/YEL

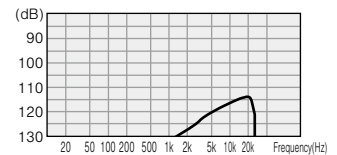
MR202-AT Series

Our bestselling two-conductor multichannel cable featuring AWG 25 stranded conductor, 100% shielding by aluminum foil, and drain wire.

- Studio interconnect, portable snake system
- Each channel identified per resistor color-coding
- Aluminum foil shield and drain wire for easy terminate

Note:

Not appropriate for heavy-duty applications.



Crosstalk Characteristics for MR202-24AT (100m)

■ Cross-sectional View


Single unit config. Drain wire, Inner jacket, Jacket, Overall Wrapping tape, Aluminum foil shield, Filler

2ch 4ch 8ch 12ch 16ch 24ch 32ch

■ Channel color code: Inner jacket color coding and spiral markings.* Insulation inside units: one is clear and the other bears the same color as the spiral markings.

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
Insulation 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 markings	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						ORN					

■ Spiral Shield

Type	Model	No. of ch.	Sales units	Nom. O.D.	Weight	No. of cond.	Unit composition				Electrical characteristics			
							Cross sec. area (AWG) and cond. comp.	Twist pitch	Shield coverage	Ch. O. D.	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
							mm ² /(AWG) Q'ty/mm	mm	%	mm	Ω/100m	Ω/100m	pF/m	pF/m
 MS202-8P Jacket color: BLK	MS202-2P	2	100 200 500	7.1	5.9	4	0.18 (25) 1/0.18TA + 30/0.08TA	25	91% (spiral)	2.8	11.4	3.3	74	145
	MS202-4P	4		8.2	9.2	8								
	MS202-8P	8		10.9	16.0	16								
	MS202-12P	12		13.6	24.2	24								

Insulation: Cross-linked PE Jacket: PVC Dielectric strength: 500V AC/min.

*Capacitance between conductors **Capacitance between conductor and shield.

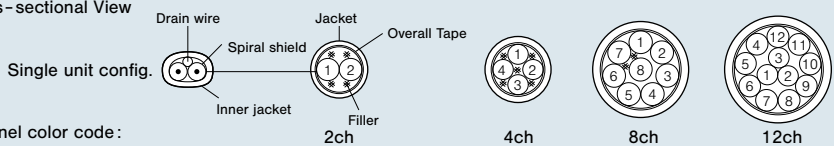
MS202-P Series

- Multichannel cable for analog audio.
- Composite conductors with 1 of 0.18 mm and 30 of 0.08 mm strands.
- Easy-to-use color-coded units and spiral shield.
- Drain wire included in each unit.

Website



■ Cross-sectional View

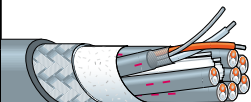


Single unit config.

■ Channel color code:

Unit no.	1	2	3	4	5	6	7	8	9	10	11	12
Insulation color	BRN	RED	ORN	YEL	GRN	BLU	PPL	GRY	WHT	BLK	BRN	RED
Spiral markings	BRN	RED	ORN	YEL	GRN	BLU	PPL	GRY	WHT	BLK	-	RED
Inner jacket color	BLK										BRN	

■ Spiral Shield

Type	Model	No. of ch.	Sales units	Nom. O.D.	Weight	No. of cond.	Unit composition				Overall shield coverage (braid)	Electrical characteristics			
							Cross sec. area (AWG) and cond. comp.	Twist pitch	Shield coverage	Ch. O. D.		Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
							mm ² /(AWG) Q'ty/mm	mm	%	mm		Ω/100m	Ω/100m	pF/m	pF/m
 MS203-8BS Jacket color: GRY	MS203-2BS	2	100 200 500	8.9	11	4	0.31(23) 12/0.18TA	30	91% (spiral)	3.5	79%	6.6	2.3	—	—
	MS203-4BS	4		10.3	15	8					80%				
	MS203-8BS	8		13.5	27	16									

Insulation: Cross-linked PE (orange, white) Jacket: PVC Dielectric strength: 500V AC/min.

*Capacitance between conductors **Capacitance between conductor and shield.

MS203-BS Series

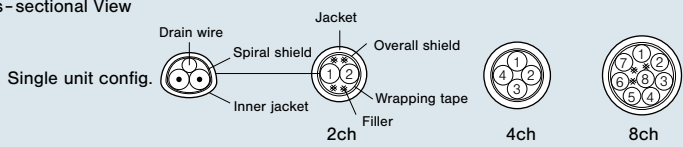
- Multichannel version of MS203. (See page 51)
- Overall braided shield enables robust shielding performance.
- Drain wire included in each unit.

Website



No.	Dot line markings
1	—
2	—
3	—
4	—
5	—
6	—
7	—
8	—
9	—
0	—

■ Cross-sectional View



Single unit config.

■ Unit ID: by dot line markings

AES/EBU Digital Audio Cables



Ideal for conveying digital audio signals in conformance with AES/EBU and IEC standards.

Type	No. of ch.	Model	Sales units	Nom. O.D.	Weight	Unit composition			Electrical characteristics				Charac-teristic impedance	Attenua-tion	
						Cross sec. area (AWG) and cond. comp.	Twist pitch	Shield coverage (braid)	Unit O.D.	Cond. DCR	Shield DCR	Nom. cap.*			Nom. cap.**
			m	mm	kg/100m	mm ² /(AWG) Q'ty/mm	mm	%	mm	Ω/100m	Ω/100m	pF/m	pF/m	Ω	dB/100m (3 MHz)
 Jacket color: BLU	1	DA206	100 200	7.3	7.5	0.56(20) 7/0.32A	60	95%	—	3.3	1.4	48	73	110	2.6
 Jacket color: BLU	1	DA202	100 200	5.0	3.6	0.18(25) 7/0.18A	32	95%	—	10.6	2.0	48	—	110	5.1
 Jacket color: BLU	1	DA202AT	100 200	4.0	1.6	0.18(25) 7/0.18A	38	—	—	10.6	—	45	—	110	6.7
 Jacket color: BLU	1	DA203AL	100 200	6.0	4.2	0.29(23) 7/0.23TA Overall tin coated	45	—	—	6.8	—	48	95	110	5.4
 Jacket color: BLU	2	DA202F-2P	100 200 500	7.7	6.7	0.18(25) 7/0.18TA	25	91% Spiral shield	3.0	11.3	3.0	47	95	110	5.6
	4	DA202F-4P		8.8	10										
	8	DA202F-8P		11.5	17										
 Jacket color: BLU	2	DA203-2AL	100 200 500	11.8	12.2	0.29(23) 7/0.23TA Overall tin coated	42	—	4.9	6.9	—	48	95	110	5.4
	4	DA203-4AL		13.8	18.9										
	8	DA203-8AL		19.3	33.2										
	12	DA203-12AL		21.9	44.1										

Insulation : Cross-linked PE (DA202F-P : Cross-linked foam PE) Jacket : PVC Dielectric strength : 500V AC/min. *Capacitance between conductors **Capacitance between conductor and shield.

DA206, DA202

- PE rod configuration ensures consistent 110 Ω impedance with large or small bends in cable during installation.
- DA206 ideal for digital audio paths up to 360 m*. DA202 ideal for digital audio paths up to 180 m*.
- DA202 contains a drain wire.

DA203-AL Series

- Wrapping tool can be used.
- Ideal for digital audio paths up to 170 m*.
- Drain wire included in each unit.

DA202AT

- Designed for internal cabling connections on racks.
- Ideal for digital audio paths up to 140 m*.
- Drain wire included.

DA202F Series

- Slim and lightweight.
- DA202F-8P designed to fit snugly with D-sub 25 pin connector.
- Cross-linked foam PE insulation.
- Ideal for digital audio paths up to 140 m*.
- Drain wire included in each unit.

*Condition : AES3 SR48kHz

Channel Color Coding

DA202F-P: by the insulator color & the spiral markings on the inner jacket (blue).

Unit no.	1	2	3	4	5	6	7	8
Insulator color	BRN, WHT	RED, WHT	ORG, WHT	YEL, WHT	GRN, WHT	BLU, WHT	PPL, WHT	GRY, WHT
Spiral markings	BRN	RED	ORN	YEL	GRN	-	PPL	GRY

DA203-AL: by the insulator color & the spiral markings on the inner jacket (gray).

Unit no.	1	2	3	4	5	6	7	8	9	10	11	12
Insulator color	RED, WHT	BLU, WHT	YEL, WHT	GRN, WHT	BRN, WHT	GRY, WHT	BLU, BLK	YEL, BLK	GRN, BLK	BRN, BLK	GRY, BLK	BLU, ORG
Spiral markings	RED	BLU	YEL	GRN	BRN	-	BLU, BLK	YEL, BLK	GRN, BLK	BRN, BLK	BLK	BLU, ORG

Cross-sectional View for DA202F-P & DA203-AL

Single unit config.

Speaker Cables (Single)



Four-conductor configuration minimizes noise and polyethylene insulation reduces induction rate to boost frequency characteristics

4-conductor Speaker Cable

Type	Model	Pair cross-sec. mm ²	Sales units m	Nom. O.D. mm	Weight kg/100m	Composition				Electrical characteristics	
						No. of cond.	Cross sec. area (AWG)	Cond. comp.	Twist pitch	Cond. DCR	Nom. capacitance*
							mm ² /(AWG)	Q'ty/mm	mm	Ω/100m	pF/m
<p>4S8</p> <p>Jacket colors for 4S6: GRV, BLK, RED, BLU, WHT 4S8, 4S11, 4S6G: GRV, BLK 4S8G, 4S11G: GRV</p>	4S6	1.0	100 200 400	6.4	5.4	4	0.51(20)	20/0.18A	45	3.7	125
	4S8	2.5		8.3	9.5	4	1.27(16)	50/0.18A	70	1.5	145
	4S11	4.3		10.7	16	4	2.18(14)	41/0.26A	100	0.9	146
	4S6G	1.0		6.4	5.4	4	0.51(20)	20/0.18(OFC)	45	3.7	125
	4S8G	2.5		8.3	9.5	4	1.27(16)	50/0.18(OFC)	70	1.5	145
	4S11G	4.3		10.7	16	4	2.18(14)	41/0.26(OFC)	100	0.9	146

Insulation: polyethylene (red, translucent red, white, translucent white) Jacket: PVC Dielectric strength: 500V AC/min. *Capacitance between conductors.

4S6, 4S8, 4S11

- High-performance PVC jacket, resistant to bending and twisting.
- 4S6 designed to fit snugly with Cannon XLR.

4S6G, 4S8G, 4S11G

- The G versions feature oxygen-free copper (OFC, JIS H3510) conductors.

4-conductor Speaker Cable for Fixed Installation

Type	Model	Pair cross-sec. mm ²	Sales units m	Nom. O.D. mm	Weight kg/100m	Composition				Electrical characteristics	
						No. of cond.	Cross sec. area (AWG)	Cond. comp.	Twist pitch	Cond. DCR	Nom. capacitance*
							mm ² /(AWG)	Q'ty/mm	mm	Ω/100m	pF/m
<p>4S10F</p> <p>Jacket colors for 4S10F, 4S12F, 4S14F, 4S18F: GRV, BLK 4S10FG, 4S12FG: GRV</p>	4S10F	3.5	100 200 400 1000	9.6	15	4	1.75(15)	33/0.26A	100	1.1	144
	4S12F	5.6		11.6	22	4	2.81(13)	35/0.32A	120	0.7	152
	4S14F	8.0		14.0	32	4	4.02(12)	50/0.32A	120	0.5	—
	4S18F	14.2		17.5	53	4	7.08(9)	88/0.32A	150	0.3	—
	4S10FG	3.5		9.6	15	4	1.75(15)	33/0.26(OFC)	100	1.1	144
	4S12FG	5.6		11.6	22	4	2.8(13)	35/0.32(OFC)	120	0.7	152

Insulation: polyethylene (red, translucent red, white, translucent white) Jacket: PVC Dielectric strength: 500V AC/min. *Capacitance between conductors.

4S10F, 4S12F, 4S14F, 4S18F

- Special supple jacket designed for use in building conduits.

4S10FG, 4S12FG

- The G versions feature oxygen-free copper (OFC, JIS H3510) conductors.

Multichannel Speaker Cables

Type	Model	Pair cross-sec. mm ²	Sales units m	Nom. O.D. mm	Weight kg/100m	Unit composition				Electrical characteristics	
						No. of cond.	Cross sec. area (AWG) and cond. comp.	Twist pitch	Ch. O.D.	Cond. DCR	Nom. capacitance*
							mm ² /(AWG) Q'ty/mm	mm	mm	Ω/100m	pF/m
<p>S410-4P Jacket color: GRV</p>	S410-4P	2.0	100 200 500	15.0	26	16	1.0(18) 127/0.10(OFC)	50	5.1	1.9	165
	S410-6P	2.0		18.3	39	24					
	S410-8P	2.0		21.6	53	32					

Insulation: Polyethylene Jacket: PVC Dielectric strength: 500V AC/min. *Capacitance between conductors.

S410-P Series

- Low crosstalk performance
- Ideal for use in multi-way speaker systems.
- Oxygen-free copper (OFC, JIS H3510) conductors.

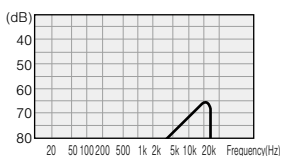
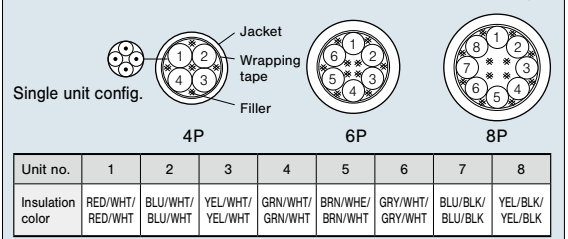


Fig. 1 Crosstalk Characteristics for S410-4P

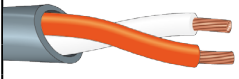



Website



Cross-sectional View of S410-4P and Channel color coding



2-conductor Speaker Cable

Type	Model	Sales units	Nom. O.D.	Weight	Composition				Electrical characteristics	
					No. of cond.	Cross sec. area (AWG)	Cond. comp.	Twist pitch	Cond. DCR	Nom. capacitance*
						mm ² /(AWG)	Q'ty/mm			
 2S11F Jacket colors: GRY BLK	 2S7F	100 200 400	6.8	5.2	2	1.27 (16)	50/0.18A	50	1.5	56
	 2S9F		8.9	8.7	2	2.18 (14)	41/0.26A	60	0.9	56
	 2S11F		11.1	14	2	3.62 (12)	45/0.32A	80	0.5	55
	2S14F		13.8	21	2	5.63 (10)	70/0.32A	90	0.3	55
	2S7FG		6.8	5.2	2	1.27 (16)	50/0.18(OFC)	50	1.5	56
	2S9FG		8.9	8.7	2	2.18 (14)	41/0.26(OFC)	60	0.9	56
	2S11FG		11.1	14	2	3.62 (12)	45/0.32(OFC)	80	0.5	55
	2S14FG		13.8	21	2	5.63 (10)	70/0.32(OFC)	90	0.3	55

Insulation: polyethylene (orange, white) Jacket: PVC Dielectric strength: 500V AC/min.

*Capacitance between conductors.

2S7F, 2S9F, 2S11F, 2S14F

- Special supple jacket designed for use in building conduits.

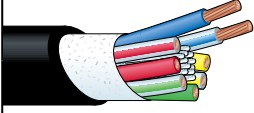
2S7FG, 2S9FG, 2S11FG, 2S14FG

- The G versions feature oxygen-free copper (OFC, JIS H3510) conductors.

Website



Multicore Speaker Cable

Type	Model	Sales units	Nom. O.D.	Weight	Composition			Electrical characteristics	
					No. of cond.	Cross sec. area and cond. comp.	Cond. O. D.	Cond. DCR	Nom. capacitance*
						mm ² /(AWG) Q'ty/mm			
 8S15G Jacket color: BLK		100	14.9	33.0	8	2.49 (14) 98/0.18 (OFC)	3.26	0.7	51

Insulation: polyethylene Jacket: PVC Dielectric strength: 500V AC/min.

*Capacitance between adjacent conductors.

8S15G

- Eight-core speaker cable ideally suited for use with Neutrik speakON NL8 and a line array speaker.
- Oxygen-free copper (OFC, JIS H3510) conductors.

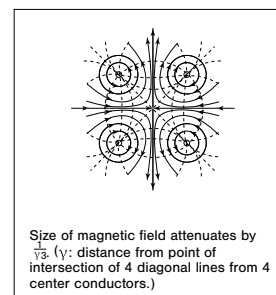
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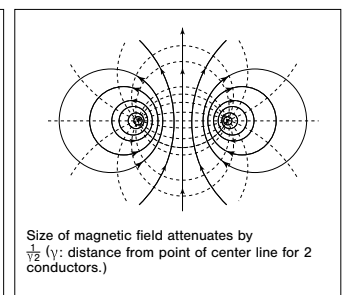
Technical Note

Four-conductor Configuration Minimizes Noise

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 center, the opposing magnetic fields are cancelled out. Attenuation of magnetic field radiation is superior when compared to a standard 2-conductor speaker wire.



Four-conductor cable



Two-conductor cable

Selecting the Right Speaker Cable

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. connect 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.

$$\text{damping factor} = \frac{\text{speaker impedance}}{\text{power amp. output impedance} + \text{cable cond. resist. for total loop}}$$

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

Speaker Cable Length obtained from the Damping Factor (reference)


Model	Cross-sec. Area	Cond. Resist.	Cond. Resist. for Total Loop	Cable Length (m)	
	mm ² /AWG	Ω/100m	Ω/m	DF = 20	DF = 50
4S6(G)	1.02/17 (pair)	1.85	0.037	9.5	3.0
4S8(G)	2.52/14 (pair)	0.75	0.015	23.3	7.3
4S11(G)	4.36/11 (pair)	0.45	0.009	38.9	12.2
4S10F(G)	3.50/15 (pair)	0.55	0.011	31.8	10.0
4S12F(G)	5.62/13 (pair)	0.35	0.007	50.0	15.7
4S14F(G)	8.00/12 (pair)	0.25	0.005	70.0	22.0
4S18F(G)	14.16/9 (pair)	0.15	0.003	116.7	36.7
S410-*P	2.00/18 (pair)	0.95	0.019	18.4	5.8
2S7F(G)	1.27/16	1.5	0.030	11.7	3.7
2S9F(G)	2.18/14	0.9	0.018	19.4	6.1
2S11F(G)	3.62/12	0.5	0.010	35.0	11.0
2S14F(G)	5.63/10	0.3	0.006	58.3	18.3
8S15G	2.49/14	0.7	0.014	25.0	7.9

Conditions: Speaker impedance = 8 Ω, Power amplifier output impedance = 0.05 Ω

Cables

OFC Line, A/V Composite Cables

OFC Line Cables

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation	Outer conductors	Electrical characteristics		
					Cross sec. area (AWG) and cond. comp.	Nom. O.D.			Nom. O.D.	Shield construction and coverage	Chan. DCR
					m	mm	kg/100m	mm ² /(AWG) Q'ty/mm	mm	mm	mm/ends/carriers
 GS-6 Jacket colors for GS-4: BLK GS-6: BLK RED ORN YEL GRN BLU	GS-4	200	4.0	2.7	0.39(22) 50/0.1(OFC)	0.82	1.82	Carbon plastic shield + 0.1 (OFC)/6/16 93%	4.7	3.1	—
	GS-6	100 200	5.8	5.0	1.0(18) 127/0.1(OFC)	1.3	3.0	Carbon plastic shield + 0.1 (OFC)/8/16 92%	1.8	2.5	160

Insulation: polyethylene Jacket: PVC Dielectric strength: 500V AC/min.

*Capacitance between conductor to shield.

GS-4, GS-6

- Outer conductor of fine 0.1 mmφ OFC strands provide a highly flexible braided configuration. (See photographs A and B)



- Center conductor with 127 fine 0.1 mmφ strands (50 for GS-4) increases durability.

Note:
The GS-4 and GS-6 have a layer of carbon plastic shield underneath the braided shield (see Fig. 1) to block out noise. Shorting will result if this shield contacts the center conductor line, so special care must be taken when connecting the cable.

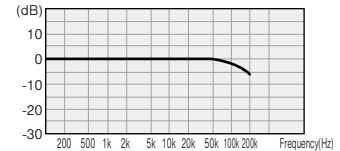
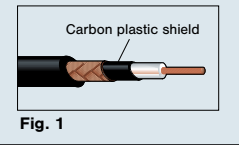



Fig. 2 Frequency Characteristics for GS-6 (100m, 100Ω → 1MΩ load)



A/V Composite Cables

Used for linking audio video equipment and as extensions for video cameras.

Type	Model	Sales units	Nom. O.D.	Weight	Unit type V: Video A: Audio C: Control line	Unit composition			Electrical characteristics	
						Cross sec. area Conductor comp.	Shield coverage	Unit O.D.	Characteristic impedance	Attenuation
						mm ² /(AWG) Q'ty/mm	%	mm	Ω	dB/100m (10 MHz)
 A2V1 Jacket color: BLK	A2V1	100 200	9.7	11	V Video 3C-2V × 1	0.20(25) 1/0.5A	97% (braid)	4.4	75	4.1
	A2V2-L		V Video 3C-2V × 2	0.20(25) 1/0.5A	97% (braid)	4.4	75	4.1		
			A Audio L-2B2AT × 2	Refer to L-2B2AT	Aluminum foil shield	3.2	—	—		
	A2V1B		V Video 3C-2VS × 1	0.18(25) 7/0.18A	97% (braid)	4.4	75	4.5		
			A Audio 4E3 Unit × 2	0.08(28) 7/0.12A	93% (braid)	3.4	—	—		
	A2V2B		V Video 3C-2VS × 2	0.18(25) 7/0.18A	97% (braid)	4.4	75	4.5		
A Audio 4E3 Unit × 2		0.08(28) 7/0.12A	93% (braid)	3.4	—	—				
A3V2-FB	V Video 3CFB Unit × 2	0.33(22) 1/0.65A	91% (braid) + Aluminum foil	4.4	75	3.7				
	A Audio L-2B2AT × 3	Refer to L-2B2AT	Aluminum foil shield	3.2	—	—				

Jacket: PVC Dielectric strength: 500V AC/min.

A2V1, A2V2-L

- Designed for fixed installation.

A2V1B, A2V2B

- Ideal for locations requiring cable bending.

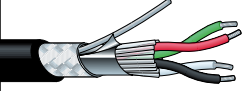


A3V2-FB

- 3 balanced audio channels and 2 video coax channels for ENG, EFP, or OB applications.



DMX Cables

Designed for DMX 512: commonly used to stage lighting control.

Type	Model	Sales units	Nom. O.D.	Weight	No. of cond.	Conductors		Shield		Cond. DCR	Characteristic impedance
						Cross sec. area (AWG) and cond. comp.	Twist pitch	Foil	Braid comp. (coverage)		
						mm ² /(AWG) Q'ty/mm	mm		mm/ends/carries		
 Jacket colors: BLK GRY WHT	DMX203-2P	100 200 500	7.9	7.9	4 (2 pair)	0.35(22) 44/0.10TA	25	AL	0.10TA/10/24 (94%)	5.9	110
 Jacket color: BLK WHT	DMX203	100 200	6.0	5.0	2 (1 pair)	0.35 (22) 44/0.10TA	45	AL	0.10TA/10/24 (94%)	5.8	110
 Jacket color: BLK WHT	DMX403	100 200	6.5	6.2	4 (quad)	0.35 (22) 44/0.10TA	50	AL	0.10TA/10/24 (94%)	5.8	110

Insulation: Cross-linked PE Jacket: Frame retardant PVC Dielectric strength: 500V AC/min.

DMX203-2P

- Standard DMX cable
- PE filler rods ensure consistent 110Ω impedance

DMX203

- Single-pair cable suitable for RDM (Remote Device Management) bidirectional communication.
- PE filler rods ensure consistent 110Ω impedance





DMX403

- Slim profile 4-conductor cable
- Can be easily inserted into Neutrik NC5 connector.
- More flexible than DMX203-2P

Website



RS422 Cables

Type	Cross-section view	Model	Sales units	Nom. O.D.	Weight	Unit type	Unit composition			Overall Shield coverage	Conductor resistance	Characteristic impedance	
							Cross sec. area (AWG) and cond. comp.	Shield coverage	Unit O.D.				
							mm ² /(AWG) Q'ty/mm	%	mm				
 Jacket color: BLK		A2C3	100 200 500	6.5	5.5	A	Digital lines two conductor shielded × 2	0.09(28) 7/0.127TA	90% Spiral shield	2.5	—	25.3	110
						C	Control lines 0.2mm ² × 3	0.22(24) 11/0.16TA	—	1.24			
 Jacket color: BLK		A2C3-SS	100 200 500	7.0	7.2	A	Digital lines two conductor shielded × 2	0.09(28) 7/0.127TA	90% Spiral shield	2.5	91% Spiral shield	25.3	110
						C	Control lines 0.2mm ² × 3	0.22(24) 11/0.16TA	—	1.24			

Insulation: Cross-linked foam PE Jacket: Frame retardant PVC Dielectric strength: 500V AC/min.

A2C3

- Short distance version of the RS422 class cables.
- Irradiated foam core PE used for the insulation in the digital signal unit.

A2C3-SS

- Created by adding an overall spiral shield to the A2C3 to heighten shielding performance.

Website






Ethernet Cables

Website



Experience unrivaled quality and stability with Canare ethernet cables. Engineered for AV over IP, our cables ensure professional connectivity for all your IP applications, whether you're on live productions, broadcast IP cabling, or any networking installations.

Mobile PoE PoE+ PoE++

Type	Model	Shield type	Sales units	Nom. O.D.	Weight	Conductors			Insertion loss		
						Cross sec. area & composition	DCR	Impedance	100 MHz	250 MHz	500 MHz
									mm ² /(AWG) Q'ty/mm	Ω/100m	Ω
 Jacket color: BLK	RJC6A-4P-SFM Cat 6A	Overall AL foil and braid (SF/UTP)	100 200	8.6	8.9	0.26 (23) 1/0.57A	8.2	100	19.1	31.1	45.3
 Jacket color: BLK	RJC5E-4P-WJ Cat 5e	N/A (U/UTP)	100 200	7.4	5.4	0.22 (24) 1/0.53A	8.8	100	22.0	—	—
 Jacket color: BLK	RJC5ES-4P-BS Cat 5e	Overall braid (S/UTP)	100 200	6.7	6.1	0.22 (24) 7/0.20A	9.5	100	44.0	—	—

Insulation: polyethylene Jacket: PVC Dielectric strength: 700V AC/min

RJC6A-4P-SFM

- Flexible and rugged SF/UTP Cat6A cable
- 10GbE 10GBASE-T network
- Maximum distance to 100 meters
- Aluminum foil + braided shielding

RJC5E-4P-WJ

- Durable U/UTP Cat5e cable
- 1GbE 1000BASE-T network
- Maximum distance to 100 meters
- Double PVC jacket

RJC5ES-4P-BS

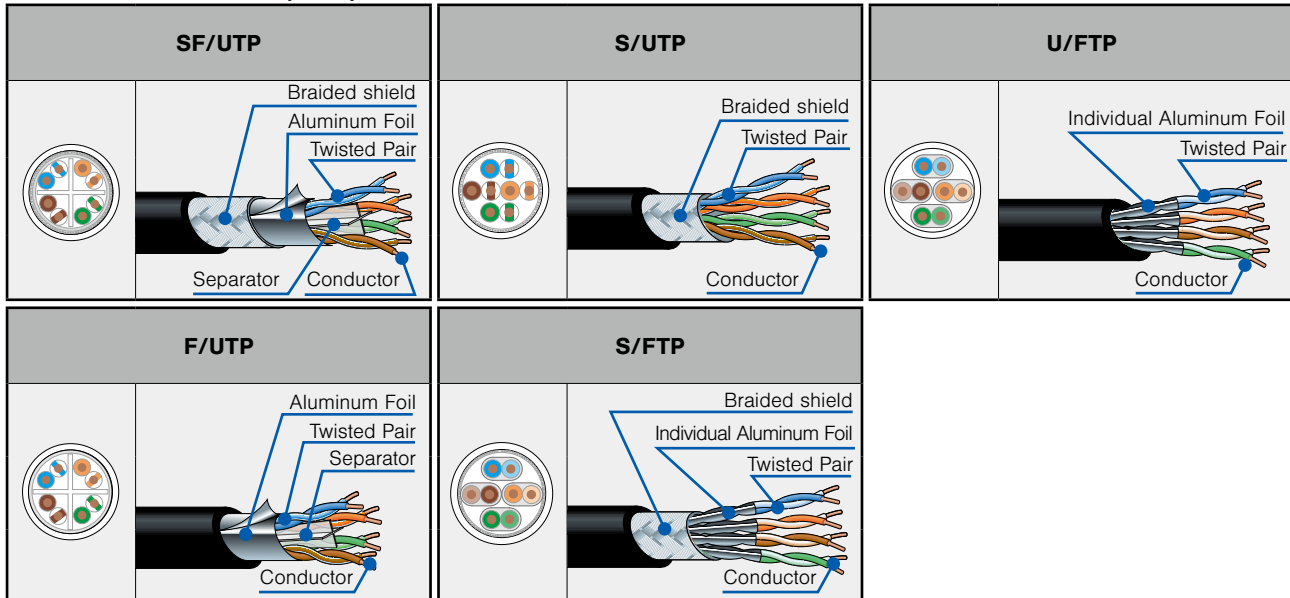
- Flexible S/UTP Cat5e cable
- 1GbE 1000BASE-T network
- Maximum distance to 50 meters
- Stranded conductors
- Braided shielding

Technical Note

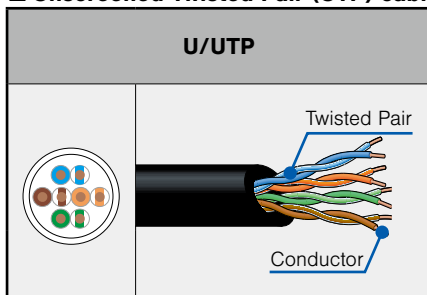
Ethernet Cable Guide

Growing market demand of higher data rates, ethernet cables are adding several different types. The following is a quote from ISO/IEC standard for LAN cables.

Screened Twisted Pair (ScTP) Cables



Unscreened Twisted Pair (UTP) cable
















ISO/IEC 11801 (JIS X 5150)

Overall Construction		Pair or Quad	
U	Unscreened	TP	Twisted Pair
F	Foil Screened	TQ	Twisted Quad
S	Braid Screened	Element	
SF	Braid & Foil Screened	U	Unscreened
		F	Foil Screened

Note: "Screen" in the standard, Canare refers to "Shield" and "Sheath" refers to "Jacket".

General PoE PoE+ PoE++

Type	Model	Shield type	Sales units	Nom. O.D.	Weight	Conductors		Impedance	Insertion loss		
						Cross sec. area & composition	DCR		100 MHz	250 MHz	500 MHz
			m	mm	kg/100m	mm ² /(AWG) Q'ty/mm	Ω/100m	Ω	dB/100m	dB/100m	dB/100m
 Jacket colors: BLK WHT	RJC6A-F4PH  	Individual aluminum foil (U/FTP)	200	7.6	5.5	0.27(23) 1/0.59A	9.4	100	19.1	31.1	45.3
 Jacket colors: BLK	RJC6A-4P-FA   	Overall aluminum foil (F/UTP)	100 200	7.4	5.3	0.24 (23) 1/0.55A	9.4	100	19.1	31.1	45.3
 Jacket colors: BLK LB	RJC6-4P-F 	Overall aluminum foil (F/UTP)	100 200	7.0	5.0	0.23 (24) 1/0.54A	9.4	100	19.8	32.8	—
 Jacket color: BLK	RJC6-4P+ 	N/A (U/UTP)	305	6.0	3.8	0.24 (23) 1/0.55A	9.4	100	19.8	32.8	—
 Jacket color: LB	RJC5E-4P+ 	N/A (U/UTP)	305	5.0	3.0	0.20 (24) 1/0.50A	9.4	100	22.0	—	—

Insulation: polyethylene Jacket: PVC Dielectric strength: 700V AC/min.

RJC6A-F4PH

- HDBaseT3.0 Premium certified
- U/FTP Cat6A cable
- 10GbE 10GBASE-T network
- Maximum distance to 100 meters

RJC6A-4P-FA

- HDBaseT certified
- F/UTP Cat6A cable
- 10GbE 10GBASE-T network
- Maximum distance to 100 meters

RJC6-4P-F

- High quality F/UTP Cat6 cable
- 1GbE 1000BASE-T network
- Maximum distance to 100 meters

RJC6-4P+, RJC5E-4P+

- High quality U/UTP cable
- Budget friendly solution
- 305m (1000ft) in pull box
- UL rated

RJ45 Modular Plug

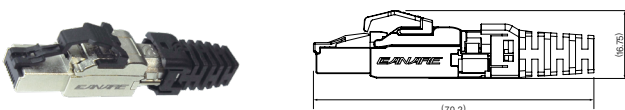
IDC Style Tool Less PoE PoE+ PoE++

Model	Suitable Cable	Standards
RJSP-6AFT	RJC6A-F4PH (Other suitable LAN cables specified below.)	ANSI/TIA-568-C.2 Cat6A, ISO 11801, ANSI/TIA-1096-A, IEC 60603-7

*Standard package (1 pc)


- Field termination ready
- Removable latch button reduces height by 25%
- IDC (Insulation Displacement Connection): Terminals cut into the wire for a secure, tool-free setup.

*Acceptable cables: O.D. 6.0 to 7.7mm, Insulator 0.8 to 1.47mm, 26AWG to 23AWG (Stranded / Solid)



RJSP-6AFT

IPC Style PoE PoE+ PoE++

Model	Suitable Cable	Standards	Tool
RJSP-6A 	RJC6A-4P-FA	ANSI/TIA-568-C.2 Cat6A, ISO 11801, ANSI/TIA-1096-A, IEC 60603-7	TC-RJ1



*Standard package (50pc)

- Cost-effective alternative to the RJSP-6AFT
- Requires dedicated assembly tool (TC-RJ1)
- Superior Shielding: Unique internal sled for noise resistance
- IPC (Insulation Piercing Connection): Points pierce the insulation, optimized for compact, crimp-style plugs.



RJSP-6A

Accessory

Model	Description
RJSP-FTLB	Replacement Latch Button for RJSP-6AFT, Black
TC-RJ1 	Dedicated crimping tool for RJSP-6A
RJP-PC 	Cable protection caps; compatible with O.D. 6.0-7.6 mm



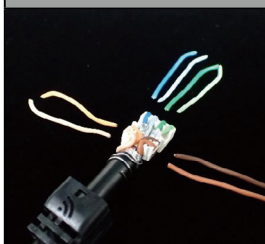
RJSP-FTLB

TC-RJ1


RJP-PC

Simplified Assembly Guide *See "Instructions" for details.


Step1



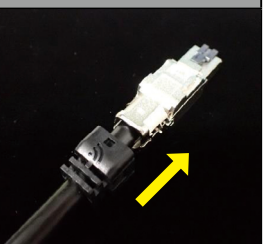
Step2




Step3



Step4



Instructions



75Ω Coaxial Cables

Website



Analog to digital. HD to UHD. Canare 75Ω coaxial cable series expands the range of choices for any kind of video formats.

■ Ultra Coax **12G-SDI**

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation	Outer conductors		Inner cond. resist.	Outer cond. resist.	Static capacity	Characteristic impedance	Attenuation	NVP
					Comp.	O.D.		O.D.	Foil						
		m	mm	kg/100m	(AWG) Q'ty/mm	mm	mm		mm/ends/carriers	Ω/km	Ω/km	pF/m	Ω	dB/100m (6 GHz)	%
	L-3.3CUHD	100 200	5.5	4.1	(21) 1/0.75A	0.75	3.3	Cu	0.12TA/8/16 (92%)	41.4	14.9	55	75	68.5	82
	L-5.5CUHD	100 200 500 1000	7.7	7.1	(16) 1/1.35A	1.35	5.55	Cu	0.12TA/8/24 (91%)	12.8	10.3	52	75	39.5	86
	L-8CUHD	100 200 500 1000	11.1	14.1	(13) 1/2.00A	2.00	8.26	Cu	0.16TA/8/24 (90%)	5.8	6.3	52	75	28.5	86

Jacket colors: **BLK** and others

Jacket: PVC Dielectric strength: 1000V AC/min.

L-CUHD Series

- Specially designed for 12G-SDI
- The max. transmission distance of 4K UHD over L-5.5CUHD single link able to reach 100 m or longer*.
*Depending on receiving equipment.
- As handy as conventional coaxial cables.
- Copper foil and high-density tinned copper braided shielding.
- Highly-foamed multi-layer PE insulation

Note 1: Designed for fixed installation, please avoid repeated bending or external pressure.
Note 2: Cable strippers (TS100 series) cannot be used for L-5.5CUHD and L-8CUHD.

Website



■ Super Coax

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation	Outer conductors		Inner cond. resist.	Outer cond. resist.	Static capacity	Characteristic impedance	Attenuation	NVP
					Comp.	O.D.		O.D.	Foil						
		m	mm	kg/100m	(AWG) Q'ty/mm	mm	mm		mm/ends/carriers	Ω/km	Ω/km	pF/m	Ω	dB/100m (1.5 GHz)	%
	12G-SDI L-2.5CHD	100 200	4.2	2.6	(23) 1/0.59A	0.59	2.59	AL	0.12TA/7/16 (95%)	66.9	16.9	55	75	91.7 (6 GHz)	82
	L-4CHD		6.1	5.2	(20) 1/0.82A	0.82	3.68	AL	0.14TA/8/16 (95%)	36.4	11.4	53	75	30.6	82
	12G-SDI L-4.5CHD		7.0	6.2	(18) 1/1.02A	1.02	4.58	AL	0.14TA/6/24 (91%)	23.3	9.9	55	75	53.6 (6 GHz)	81
	L-5CHD		7.7	7.4	(17) 1/1.20A	1.20	4.9	AL	0.14TA/7/24 (93%)	16.1	8.2	53	75	22.5	85
	L-6CHD		8.9	9.0	(16) 1/1.40A	1.40	6.1	AL	0.14TA/8/24 (92%)	11.8	7.7	53	75	19.0	83
	L-7CHD		10.2	13.0	(14) 1/1.80A	1.80	7.3	AL	0.16TA/8/24 (92%)	7.1	6.1	53	75	15.9	84
	L-8CHD		11.1	13.5	(12) 1/2.00A	2.00	8.2	AL	0.16TA/8/24 (89%)	5.8	6.3	53	75	14.1	84
	L-2.5CHLT	100 200	4.2	1.8	(23) 1/0.59A	0.59	2.59	AL	0.14TCCA/6/16 (95%)	66.9	21.5	53	75	43.1	82

Jacket colors: **BLK** and others

Jacket: PVC Dielectric strength: 1000V AC/min.

L-CHD Series

- Best suited to 3G-SDI/HD-SDI transmission.
- Highly-foamed PE insulation allows further improvement in the attenuation characteristics.
- Multi-layer insulation in which to each layer is given a different foaming ratio is used to increase strength.
- High-density tinned copper braided shield with aluminum foil brings excellent shielding.
- Solid conductor

L-2.5CHLT

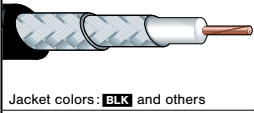



- Ideal for an O.B. van installation.
- Tinned copper-clad aluminum (CCA) braided shield brings an advantage in weight-saving.
- 30% lighter than L-2.5CHD, yet the same attenuation.
- Space-saving slim design: O.D. 4.2 mm
- High-density braided shield with aluminum foil
- Highly-foamed PE insulation
- Solid conductor

L-2.5CHD and L-4.5CHD **12G-SDI**

- Sweep test up to 12GHz
- 12G-SDI solution with Canare Micro BNC

Note 1: Designed for fixed installation, please avoid repeated bending or external pressure.
Note 2: L-2.5CHLT has less connection strength with the connector BCP-B25HD compared with L-2.5CHD.
Note 3: Availability for Cable Stripper TS100 Series:
OK: L-2.5CHD and L-2.5CHLT, N/A: others

Mobile Coax

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation	Outer conductors		Inner cond. resist.	Outer cond. resist.	Static capacity	Characteristic impedance	Attenuation	NVP
					Comp.	O.D.		Foil	Braid comp. (coverage)						
					m	mm	kg/100m			(AWG) Q'ty/mm	mm	mm	mm/ends/carriers	Ω/100m	Ω/100m
	L-3.3CUHWS <small>12G-SDI</small>	100 200	5.8	4.8	(22) 7/0.26A	0.78	3.30	AL	0.10TA/6/24 (92%) 0.10TA/7/24 (92%)	5.0	0.9	57	75	98.7 (6 GHz)	80
	L-5.5CUHWS <small>12G-SDI</small>	100 200 300	8.1	8.7	(16) 7/ Compact strand	1.30	5.56		0.10TA/9/24 (93%) 0.10TA/9/24 (90%)	1.4	0.8	54	75	57.0 (6 GHz)	82.5
	L-2.5CHWS	100 200	4.2	3.2	(24) 7/0.20A	0.6	2.6	AL	0.10TA/8/16 (95%) 0.10TA/9/16 (94%)	8.5	1.0	53	75	54.7	81
	L-4.5CHWS	100 200	7.2	6.6	(20) 7/0.34A	1.02	4.57		0.10A/8/24 (93%) 0.10A/9/24 (95%)	3.3	0.8	53	75	33.3	79.5
	L-3CFW	100 200	5.8	5.1	(22) 1/0.65A	0.65	3.1	AL	0.12A/5/24 (94%) 0.12A/6/24 (94%)	5.5	0.7	55	75	49.4	79
	L-5CFW	1000	7.7	8.1	(18) 1/1.05A	1.05	5.0		0.12A/7/24 (93%) 0.12A/9/24 (96%)	2.1	0.5	55	75	28.4	79

Jacket: PVC Dielectric strength: 1000V AC/min.

L-CUHWS Series 12G-SDI

- Specially designed for 12G-SDI mobile applications
- Flexible and low loss structure
- Highly-foamed PE insulation
- High-density double braided shield

Note: L-CUHWS series is specially designed as a cable for mobile use. Refer to "Typical Transmission Distance as per SMPTE Standard" on page66 for the length of the cable to be used.

L-CHWS Series

- Designed for mobile applications
- Flexible stranded center conductor
- Highly-foamed PE insulation
- High-density double braided shield

Note: Cable strippers (TS100 series) cannot be used for Mobile Coax.

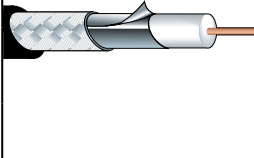
L-CFW Series

- Designed for mobile applications
- Solid center conductor
- Foamed PE insulation
- High-density double braided shield

Website



Low Loss Coax

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation	Outer conductors		Inner cond. resist.	Outer cond. resist.	Static capacity	Characteristic impedance	Attenuation	NVP
					Comp.	O.D.		Foil	Braid comp. (coverage)						
					m	mm	kg/100m			(AWG) Q'ty/mm	mm	mm	mm/ends/carriers	Ω/100m	Ω/100m
	L-2.5CFB	100 200	4.0	2.4	(25) 1/0.50A	0.50	2.4	AL	0.12TA/6/16 (92%)	9.3	2.0	55	75	37.0	79
	L-3CFB		5.5	4.0	(22) 1/0.65A	0.65	3.1		0.14TA/6/16 (91%)	5.5	1.6	55	75	29.1	79
	L-4CFB		6.1	4.9	(20) 1/0.80A	0.80	3.7		0.14TA/8/16 (93%)	3.6	1.1	55	75	23.6	79
	L-5CFB		7.7	7.3	(18) 1/1.05A	1.05	5.0		0.14TA/7/24 (93%)	2.1	0.8	55	75	17.7	79
	L-7CFB		10.2	13.0	(15) 1/1.50A	1.50	7.3		0.18TA/8/24 (95%)	1.0	0.5	55	75	13.4	79

Jacket: PVC Dielectric strength: 1000V AC/min.

Note: Designed for fixed installation, please avoid repeated bending or external pressure.

L-CFB Series

- Suited to HD video signals
- High-density tinned copper braided shield with aluminum foil
- Solid center conductor
- Foamed PE insulation

Website



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors




Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

■ Standard Coax (Solid PE Insulation)

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation	Outer conductors		Inner cond. resist.	Outer cond. resist.	Static capacity	Characteristic impedance	Attenuation	NVP
					Comp.	O.D.		O.D.	Braid composition (coverage)						
					m	mm	kg/100m	(AWG) Q'ty/mm	mm	mm	mm	mm/ends/carriers	Ω/100m	Ω/100m	pF/m
 L-3C2VS Jacket colors: BLK and others	L-1.5C2VS	200	2.9	1.3	(31) 7/0.09A	0.27	1.6		0.10A/5/16 (94%)	41.9	3.3	69	75	8.7	66
	L-3C2VS	100 200	5.5	4.5	(25) 7/0.18A	0.54	3.1		0.12A/7/16 (94%)	10.5	1.9	67	75	4.5	66
	LV-61S	153	6.1	5.0	(24) 7/0.20A	0.60	3.6		0.12A/6/24 (95%)	8.5	1.3	67	75	3.8	66
	L-5C2VS	100 200	7.4	6.8	(22) 7/0.26A	0.78	4.8		0.12A/7/24 (93%)	5.0	1.2	67	75	2.9	66
 L-3C2V Jacket colors: BLK and others	L-2.5C2V	100 200	4.0	2.4	(26) 1/0.40A	0.40	2.4		0.12TA/6/16 (94%)	19.2	2.1	69	75	5.2	66
	L-3C2V		5.4	4.3	(25) 1/0.50A	0.50	3.1		0.14TA/5/24 (97%)	9.3	1.2	67	75	4.1	66
	L-5C2V		7.4	7.2	(20) 1/0.80A	0.80	4.9		0.14TA/7/24 (94%)	3.6	0.8	67	75	2.5	66
 L-3C2W Jacket color: BLK	L-3C2W	100 200	6.5	7.0	(25) 1/0.50A	0.50	3.1		0.14TA/5/24 (97%) 0.14TA/5/24 (93%)	9.3	0.6	67	75	4.1	66
	L-5C2W		8.3	11.0	(20) 1/0.80A	0.80	4.9		0.14TA/7/24 (94%) 0.14TA/7/24 (95%)	3.6	0.4	67	75	2.5	66
	LV-77S	153	7.7	9.0	(22) 7/0.26A	0.78	4.8		0.12A/7/24 (92%) 0.12A/8/24 (95%)	5.0	0.6	67	75	3.4	66

Jacket: PVC Dielectric strength: 1000V AC/min.

L-1.5C2VS, L-3C2VS, L-5C2VS, LV-61S

- Ideal for locations requiring cable bending.
- Flexible stranded center conductor
- High-density braided shield
- LV-61S is equivalent to RG-59B/U

L-2.5C2V, L-3C2V, L-5C2V

- Solid center conductor
- High-density tinned copper braided shield

L-3C2W, L-5C2W

- Solid center conductor
- High-density tinned copper double braided shield

LV-77S


- Ideal for locations requiring cable bending.
- Flexible stranded center conductor
- High-density double braided shield

Note: Cable strippers (TS100 series) cannot be used for L-1.5C2VS, L-3C2W, L-5C2W and LV-77S

Website



Analog HD Coax

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation	Outer conductors		Inner cond. resist.	Outer cond. resist.	Static capacity	Characteristic impedance	Attenuation	NVP
					Comp.	O.D.		O.D.	Foil						
					m	mm	kg/100m	(AWG) Q'ty/mm	mm	mm	mm	mm	mm/ends/carriers	Ω/100m	Ω/100m
 L-3C-AHD Jacket color: BLK	L-3C-AHD	300	5.5	3.0	(21) 1/0.75A	0.75	3.3	AL	0.14AL/4/24 (84%)	4.1	3.7	55	75	2.5	82

Jacket: PVC Dielectric strength: 1000V AC/min.

L-3C-AHD

- Cost effective aluminum alloy braided shield
- Recommended for an analog high definition video surveillance system.
- Fits for AHD, HD-TVI and HD-CVI, and also for HD-SDI or EX-SDI
- Highly-foamed PE insulation for better transmission characteristics
- Packaged in REELEX pull box

Note 1: The aluminum braid cannot be soldered. BNC crimp plug for L-3C-AHD: BCP-A3AHD (see page21)
 Note 2: Designed for fix installation

Nominal Attenuation


dB/100m

NTSC D1 7MHz	NTSC WD1 10MHz	AHD 1080/30p 36MHz	HD-TVI 1080/30p 48MHz	EX-SDI 1080/30p 135MHz	270 MHz	HD-SDI 750MHz	3G-SDI 1500MHz
2.0	2.5	4.9	5.7	10.1	14.3	24.2	34.7

Website



75Ω Triaxial Cables

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation 1	Outer cond.1	Insulation 2	Outer cond.2	Electrical characteristics			Charac-teristic impedance	Attenu-ation	NVP
					Comp.	O.D.					O.D.	Braid coverage and comp.	O.D.			
		m	mm	kg/100m	(AWG) Q'ty/mm	mm	mm	mm/ends/carriers	mm	mm/ends/carriers	Ω/100m	Ω/100m	pF/m	Ω	dB/100m (10 MHz)	%
 L-5CFTX Jacket colors: BLK RED GRN	L-5CFTX	100 200	8.8	12.0	(19) 1/1.0A	1.0	4.8	0.14A/6/24 (91%)	6.4	0.16A/8/24 (95%)	2.3	—	55	75	2.2	79
	L-4CFTX	100 200	9.1	10.5	(20) 1/0.80A	0.80	3.7	0.14A/7/16 (93%)	5.5	0.14A/7/24 (94%)	3.64	—	55	75	3.0	79
	L-7CFTX	100 200 500	11.0	15.4	(16) 1/1.40A	1.40	6.5	0.14A/8/24 (93%)	8.7	0.14A/8/24 (88%)	1.18	—	55	75	1.7	79




Insulation: 1: foamed PE 2: polyethylene Dielectric strength: 1000V AC/min.

- For digital or analog broadcast camera applications.
- Abrasion-resistance PVC jacket.

Website



75Ω Multichannel Coaxial Cables

Type	Model	No. of ch.	Sales units	Nom. O.D.	Weight	Unit composition						Inner cond. resist.	Outer cond. resist.	Charac-teristic impedance	Attenu-ation	NVP
						Inner cond.		Insulation	Outer conductors		Unit O.D.					
						Comp.	O.D.		O.D.	Foil						
		m	mm	kg/100m	(AWG) Q'ty/mm	mm	mm	mm/ends/carriers	mm	Ω/100m	Ω/100m	Ω	dB/100m (750 MHz)	%		
 V4- *CFB Jacket color: BLK Insulation: Foamed PE	V3-3CFB	3	100 500	11.5	14	(22) 1/0.65A	0.65	3.1	AL	0.14TA/6/16 (91%)	4.4	5.6	1.6	75	29.1	79
	V4-3CFB	4		13.0	19											
	V5-3CFB	5		14.2	23											
	V3-4CFB	3		12.9	18	(20) 1/0.80A	0.80	3.7	AL	0.14TA/8/16 (93%)	5.0	3.6	1.1	75	24.3	79
	V4-4CFB	4		14.4	23											
	V5-4CFB	5		16.1	29											
	V3-5CFB	3		17.1	29	(18) 1/1.05A	1.05	5.0	AL	0.14TA/7/24 (93%)	6.5	2.1	0.8	75	17.7	79
	V4-5CFB	4		18.8	36											
	V5-5CFB	5		21.1	46											
 V4-2.5 CHW Jacket color: BLK Insulation: Highly-foamed PE	V4-2.5CHW	4	100 500	13.0	21	(23) 1/0.59A	0.59	2.59	—	0.10TA/8/16 (95%) 0.10TA/9/16 (94%)	4.2	6.7	1.0	75	35.7	81
	V3-3CFW	3	100 500	13.0	22	(22) 1/0.65A	0.65	3.1	—	0.12A/5/24 (94%) 0.12A/6/24 (94%)	4.9	5.6	0.7	75	33.1	79
V4-3CFW	4	14.6		28												
V5-3CFW	5	16.2		34												
V3-5CFW	3	18.4		36	(18) 1/1.05A	1.05	5.0	—	0.12A/7/24 (93%) 0.12A/9/24 (96%)	7.0	2.1	0.5	75	19.4	79	
V4-5CFW	4	20.4		47												
V5-5CFW	5	22.4		58												
 V4- *C Jacket color: BLK Insulation: Solid PE	V3-1.5C	3	100 500	7.4	7.3	(31) 7/0.09A	0.27	1.55	—	0.10A/5/16 (94%)	2.6	42.3	3.3	75	—	66
	V4-1.5C	4		8.4	9.4											
	V5-1.5C	5		9.2	11											
	V3-3C	3		11.5	15	(25) 7/0.18A	0.54	3.1	—	0.14A/5/24 (97%)	4.4	10.6	1.1	75	43.2	66
	V4-3C	4		13.0	20											
	V5-3C	5		14.2	24											
	V3-5C	3		15.5	26	(22) 7/0.26A	0.78	4.8	—	0.12A/7/24 (93%)	6.0	5.1	1.2	75	29.2	66
	V4-5C	4		17.1	33											
	V5-5C	5		19.2	39											

Jacket PVC Dielectric strength: 1000V AC/min.

Note: Cable strippers (TS100 series) cannot be used for V-CHW, V-CFW, and V-1.5C.

V-CFB Series

- Low-loss multichannel coax for fixed installations.

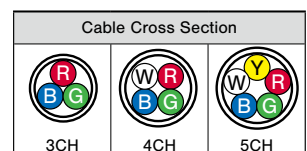
V-CHW, V-CFW Series

- Mobile multichannel coax developed for digital video signals.

V-C Series

- Our long selling standard multichannel coax with flexible stranded center conductor.
- Ideal for component video signals.

Website

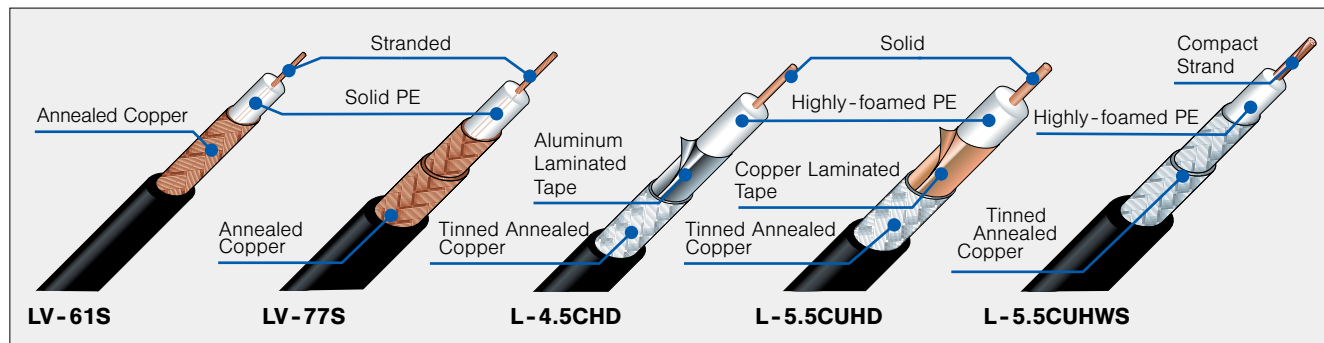


Technical Note

Many types of video coax. What're the differences and how select?

In brief, there are three of essential factors : **1** center conductor, **2** insulation, and **3** shield.
Each factor has its advantage and disadvantage as described below :

1	Center Conductor	Solid conductor	Single solid metal core, low signal loss, ideal for long-distance or high-frequency transmission.
		Stranded conductor	Multiple thin strands twisted together, offers flexibility and resistance to bending, commonly used for patch cords and mobile applications.
		Compact strand conductor	Multiple fine metal wires tightly bundled, denser than regular stranded conductors, which achieving advantages from both solid and stranded. It enhances low signal loss and flexibility, ideal for 12G-SDI mobile applications.
2	Insulation	Includes "Solid", "Foamed", and "Highly-foamed" types. Foamed and highly-foamed insulation would perform better attenuation, compared to the solid type thus they are often selected for hi-def video. However, since foamed and high-foamed insulation contain the air physically, they are weak to external pressure. You should pay attention to where and how the cables are installed.	
3	Shield	We have "Braided" and "Braided with aluminum foil" type. Braided shields include single, double, or triple layers as well as bare copper or tinned copper. Braided with aluminum foil offers perfect screening, but they are not suitable for repeated bending and mobile applications due to the foil's lack of strength. In that case, it's better to choose "Braided".	



What is Propagation Delay?

Propagation delay refers to the time required for a signal to be transmitted from one end of connection to another. In the case of cable transmission, this greatly depends on the materials and construction of the actual cable, and large differences in delay can cause transmission errors if they exceed the receiver delay tolerance.

The following table shows the differences in coaxial cable propagation delay time relative to the insulation type.

Propagation Delay Caused by Coaxial Cable Insulation (reference)

Insulation	Propagation Delay
Solid PE	5.0 ns/m
Foamed PE	4.2 ns/m
Highly-Foamed PE	3.7 ns/m

Typical Transmission Distance as per SMPTE Standard

SMPTE	ST 259				ST 344	ST 292	ST 424	ST 2082-1
	SD-SDI				540 Mbps-SDI	HD-SDI	3G-SDI	12G-SDI
Video Format	NTSC	PAL	525/625 (4:3)	525/625 (16:9)	525/625 (4:3) p60	2K 1080i	2K 1080p	4K UHD
Bit Rate	143 Mb/s	177 Mb/s	270 Mb/s	360 Mb/s	540 Mb/s	1.5 Gb/s	3 Gb/s	12 Gb/s
Clock	143 MHz	177 MHz	270 MHz	360 MHz	540 MHz	1.485 GHz	2.97 GHz	11.88 GHz
Cable Loss @ 1/2 Clock	30 dB @ 72 MHz	30 dB @ 88 MHz	30 dB @ 135 MHz	30 dB @ 180 MHz	30 dB @ 270 MHz	20 dB @ 750 MHz	30 dB @ 1.5 GHz	40 dB @ 6 GHz
Model	m	m	m	m	m	m	m	m
L-2.5CFB	265	242	199	172	139	54	55	32
L-2.5CHD	314	287	237	206	168	66	69	43
L-2.5CHLT	314	287	237	206	168	66	69	43
L-3CFB	344	314	257	222	179	68	69	42
L-3.3CUHD	461	422	306	265	215	85	90	58
L-4CFB	422	314	315	272	220	84	86	52
L-4CHD	447	410	337	294	238	93	98	61
L-5CFB	563	513	420	364	294	112	114	68
L-4.5CHD	551	504	415	361	293	115	119	74
L-5CHD	614	562	464	403	327	128	133	82
L-6CHD	766	700	575	499	403	154	158	95
L-5.5CUHD	769	697	566	491	400	155	157	101
L-7CHD	902	824	678	589	476	184	188	116
L-8CHD	1034	937	769	681	545	208	212	131
L-8CUHD	1034	937	789	681	555	217	225	140
L-2.5CHWS	275	247	198	171	138	53	54	32
V4-2.5CHW	288	258	208	178	144	56	57	34
L-3CFW	319	288	230	197	158	60	60	35
L-3.3CUHWS	333	300	240	206	167	64	66	40
L-4.5CHWS	447	405	322	280	225	87	90	50
L-5CFW	535	483	384	333	267	103	105	56
L-5.5CUHWS	612	555	441	379	306	117	120	70

*The above values are distances when cable loss reaches a typical attenuation specified by SMPTE standard at 1/2 clock frequency.

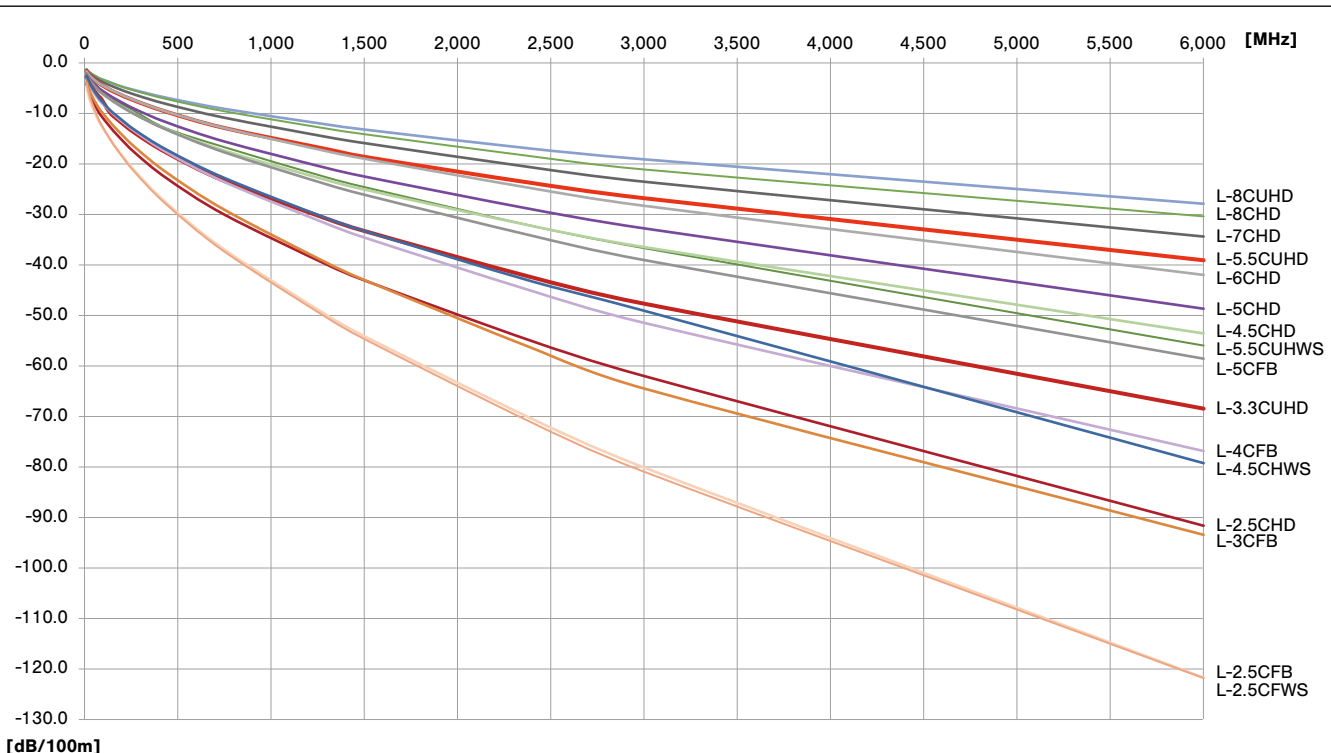
*These values are not equivalent to actual transmission distances, which depends on the equalized distance of receiver.

*Please check with vendor of receiver for equalized distance and reference cable to calculate actual transmission distance.





75Ω Coax Cable Nominal Attenuation

Model		Frequency												dB/100m
		10MHz	30MHz	SMPTE 259M Composite NTSC 72.0MHz	ITU-R BT.601 Composite PAL 88.0MHz	SMPTE 259M Composite 4:2:2 135MHz	SMPTE 259M Composite 4:2:2 16x9 180MHz	SMPTE 344M 540Mb/s SDI 270MHz	SMPTE 292M HD-SDI 750MHz	1.3GHz	1.5GHz	3GHz	6GHz	
75Ω	L-1.5C2VS	8.7	15.2	23.9	26.6	33.2	38.7	48.0	83.7	114.0	123.7	185.9	—	
	V*-1.5C	8.7	15.1	23.6	26.2	32.7	37.9	46.8	80.5	108.6	117.5	173.4	—	
	L-2.5CFB	4.8	7.6	11.3	12.4	15.1	17.4	21.5	37.0	50.0	54.1	80.2	121.8	
	L-2.5CHD/L-2.5CHLT	4.1	6.5	9.5	10.4	12.6	14.5	17.8	30.2	40.0	43.1	62.0	91.7	
	L-2.5CHWS	4.0	7.0	10.9	12.1	15.1	17.5	21.7	37.4	50.5	54.7	81.0	121.9	
	V4-2.5CHW	3.8	6.7	10.4	11.6	14.4	16.8	20.7	35.7	48.3	52.3	77.4	115.9	
	L-3C2V/L-3C2W	4.1	7.2	11.3	12.5	15.7	18.3	22.8	40.0	54.9	59.7	90.5	—	
	L-3C2VS/V*-3C	4.5	7.9	12.4	13.8	17.2	20.0	24.8	43.3	58.9	63.9	96.0	—	
	L-3CFB/V*-3CFB	3.7	5.9	8.7	9.5	11.7	13.5	16.7	29.1	39.6	43.0	64.5	93.5	
	L-3CFW/V*-3CFW	3.4	5.9	9.4	10.4	13.0	15.2	18.9	33.1	45.4	49.4	74.8	114.2	
	L-3.3CUHD	2.8	4.4	6.5	7.1	9.8	11.3	13.9	23.4	30.9	33.3	47.7	68.5	
	L-3.3CUHWS	3.3	5.8	9.0	10.0	12.5	14.5	17.9	30.8	41.4	44.8	66.1	98.7	
	L-4CFB	3.0	4.8	7.1	7.8	9.5	11.0	13.6	23.6	31.9	34.6	51.5	76.9	
	V*-4CFB	3.0	4.9	7.2	7.9	9.7	11.2	13.9	24.3	33.2	36.0	54.3	83.8	
	L-4CHD	2.9	4.6	6.7	7.3	8.9	10.2	12.6	21.3	28.4	30.6	44.3	65.1	
	L-4.5CHD	2.3	3.7	5.4	6.0	7.2	8.3	10.2	17.4	23.2	25.1	36.5	53.6	
	L-4.5CHWS	2.5	4.3	6.7	7.4	9.3	10.7	13.3	22.8	30.8	33.3	49.1	79.3	
	L-5C2V/L-5C2W	2.5	4.5	7.1	7.9	9.9	11.5	14.4	25.7	35.7	38.9	60.0	94.8	
	L-5C2VS/V*-5C	2.9	5.1	8.1	9.0	11.3	13.2	16.5	29.3	40.8	44.4	68.3	108.0	
	L-5CFB/V*-5CFB	2.2	3.6	5.3	5.8	7.1	8.2	10.2	17.7	24.1	26.1	39.1	58.6	
	L-5CFW/V*-5CFW	2.1	3.6	5.6	6.2	7.8	9.0	11.2	19.4	26.2	28.4	42.2	70.5	
	L-5CHD	2.1	3.3	4.9	5.3	6.5	7.4	9.1	15.6	20.8	22.5	32.8	48.7	
	L-5.5CUHD	1.5	2.5	3.9	4.3	5.3	6.1	7.5	13.3	17.1	19.0	26.8	39.5	
	L-5.5CUHWS	1.8	3.1	4.9	5.4	6.8	7.9	9.8	17.0	23.6	25.0	37.4	57.0	
	L-6CHD	1.7	2.7	3.9	4.3	5.2	6.0	7.4	12.9	17.5	19.0	28.3	42.0	
	L-7CFB	1.6	2.5	3.8	4.2	5.1	6.0	7.5	13.4	18.8	20.5	32.0	53.6	
	L-7CHD	1.4	2.3	3.3	3.6	4.4	5.1	6.3	10.9	14.7	15.9	23.5	34.4	
	L-8CHD	1.2	2.0	2.9	3.2	3.9	4.4	5.5	9.6	13.0	14.1	21.1	30.4	
L-8CUHD	1.2	2.0	2.9	3.2	3.8	4.4	5.4	9.2	12.2	13.3	19.1	28.5		
LV-61S	3.8	6.6	10.4	11.5	14.4	16.8	20.9	36.8	50.4	54.8	83.1	—		
LV-77S	2.9	5.2	8.1	9.0	11.3	13.1	16.3	28.6	—	—	—	—		

75Ω Low Loss Coax Cable Attenuation Chart



50Ω Coaxial Cables

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.			Insulation	Outer conductors		Inner cond. resist.	Outer cond. resist.	Static capacity	Characteristic impedance	Attenuation
					Comp.	O.D.	O.D.		Foil	Braid comp. (coverage)					
 L-3D2V Jacket: PVC Color: GRY	L-3D2V	100 200	5.3	4.5	(20) 7/0.32A	0.96	3.0	—	0.14TA/5/24 (98%)	3.3	1.2	100	50	4.5	
	L-5D2V		7.3	7.9	(15) 1/1.40A	1.40	4.8	—	0.14TA/7/24 (95%)	1.2	0.8	100	50	2.5	
 L-3D2W Jacket: PVC Color: GRY	L-3D2W	100 200	6.4	7.3	(20) 7/0.32A	0.96	3.0	—	0.14TA/5/24 (98%) 0.14TA/5/24 (96%)	3.3	0.6	100	50	4.5	
	L-5D2W		8.0	11.0	(15) 1/1.40A	1.40	4.8	—	0.14TA/7/24 (95%) 0.14TA/7/24 (96%)	1.2	0.4	100	50	2.5	
 Jacket: PVC Color: BLK	L-5DFB	100 200	7.6	8.5	(14) 1/1.80A	1.80	5.0	AL	0.14TA/6/24 (90%)	0.7	1.1	84	50	2.4	
 Jacket: PE Color: BLK	L-5DFBW-PE	100 200	8.0	10.4	(14) 1/1.80A	1.80	5.0	AL	0.14TA/7/24 (93%) 0.14TA/8/24 (95%)	0.7	0.4	84	50	2.4	

Insulation: polyethylene Dielectric strength: 1000V AC/min



L-3D2V, L-5D2V

- Tinned copper braided shield

L-3D2W, L-5D2W

- Tinned copper double braided shield

L-5DFB

- Low-loss foamed PE insulation
- Tinned copper braided shield with aluminum foil.

Note: Designed for fixed installation.

L-5DFBW-PE

- Ideal for digital microwave communication systems
- PE jacket for fixed outdoor installation
- Low-loss foamed PE insulation
- Tinned copper double braided shield with aluminum foil

Note: Designed for fixed installation.

■ 50Ω Coax Cable Nominal Attenuation

dB/100m

Model		Frequency														
		10 MHz	130 MHz	470 MHz	600 MHz	710 MHz	714 MHz	800 MHz	1240 MHz	1260 MHz	1575 MHz	1700 MHz	2000 MHz	2400 MHz	2600 MHz	6000 MHz
50Ω	L-3D2V / L-3D2W	4.5	17.3	35.4	40.7	44.9	45.1	48.2	62.6	63.2	72.5	76.0	84.1	94.4	99.3	172.9
	L-5D2V / L-5D2W	2.5	9.6	19.6	22.6	25.0	25.1	26.8	35.0	35.3	40.5	42.5	47.1	53.0	55.8	98.0
	L-5DFB / L-5DFBW-PE	2.4	6.9	13.7	15.6	17.1	17.2	18.2	23.1	23.3	26.4	27.5	30.1	33.3	34.8	56.4

Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

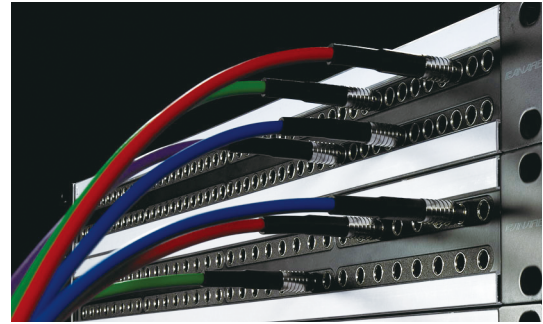
Panels and Patchbays

75Ω Video Patchbays

Overview

Video patchbays, as a backup or a final means for safety in a routing system, often face high demand on stable and constant patching connections and contacts. Over the decades, Canare has focused on these essentials and has developed the solutions for the latest video format such as 4K/8K.

The following table will help finding the right panels for you.



Product Finder

Patchbays	CH	Rack Unit	Jacks	Self Terminating	Front	Rear	NET Weight (approx.)	SMPTE	Features	Patch Cord / U-Link
4K8K / 12G-SDI / 6G-SDI	32	1RU 1.5RU 2RU		Yes	Canare Micro	BNC	1RU: 2.8 kg 1.5RU: 3.5 kg 2RU: 3.7 kg	ST 2081-x ST 2082-x	Mechanical switch with Dust-proof Shutter	
			32MCKA-ST*							MCVJKA-STW/S
	48	1RU		Yes	Canare Micro	Micro BNC	1RU: 2.3 kg		Mechanical switch with Dust-proof Shutter	MCVPC**
4K8K / 12G-SDI / 6G-SDI	32	1RU 1.5RU		No	Canare Single	BNC	1RU: 1.7 kg 1.5RU: 2.4 kg		MUSA style Hassle-free patching	
			32SVK-ST							SVJK-S/L
	48	1RU		Yes	Canare Micro	DIN 1.0/2.3	1RU: 2.3 kg		Mechanical switch with Dust-proof Shutter	MCVPC**
2K4K / 3G-SDI / HD-SDI	32	1RU 1.5RU 4RU		Yes	Mini-WECO	BNC	1RU: 2.9 kg 2RU: 3.9 kg 4RU: 8.0 kg	ST 292 ST 424 ST 425-x	100% sealed rotary switch	
			48MC*							MCVJ-W/S
	20 24 26	1RU 2RU		Yes	WECO	BNC	20DV: 2.4 kg* 24DV: 2.7 kg* 26DV: 2.8 kg* (*1RU)		100% sealed rotary switch	VPC**

WECO: Western Electric Company (W.E. standard)

Technical Note

Dual Video Jack Normalling Chart

There are two types of dual video jacks: Normal Through and Straight Through. In Canare, these are identified at the end of the model name, W means the former and S means the latter. The following chart explains the differences between two types.

W type (Normal Through)				S type (Straight Through)			
Video Port: No Patch		BNC Port: Signal thru as Arrowed	Signal routes between top and bottom BNC without the use of Video plugs.	Video Port: No Patch		BNC Port: Both Signal Terminated	Two independent single jacks in a dual housing.
Video Port: Patch Upper		BNC Port: Lower Terminated	Inserting a Video Patch Cord into front "upper" port automatically terminates signal path into the lower 75Ω load.	Video Port: Patch Upper		BNC Port: Lower Terminated	Inserting a Video Patch Cord into front "upper" port automatically terminates signal path into the lower 75Ω load.
Video Port: Patch Lower		BNC Port: Upper Terminated	Inserting a Video Patch Cord into front "lower" port automatically terminates signal path into the upper 75Ω load.	Video Port: Patch Lower		BNC Port: Upper Terminated	Inserting a Video Patch Cord into front "lower" port automatically terminates signal path into the upper 75Ω load.
Video Port: Patch Both		BNC Port: Signal thru as Arrowed	Inserting Video Patch Cords into both front ports inputs and/or outputs signal.	Video Port: Patch Both		BNC Port: Signal thru as Arrowed	Inserting Video Patch Cords into both front ports inputs and/or outputs signal.

75Ω 12G-SDI Micro Video Patchbays

Engineered for 12G-SDI (SMPTE ST 2082-1) with Micro BNC connectivity. These high-performance jacks are significantly thinner and lighter, enabling maximum I/O density in a compact 1RU design.

Patchbays 12G-SDI

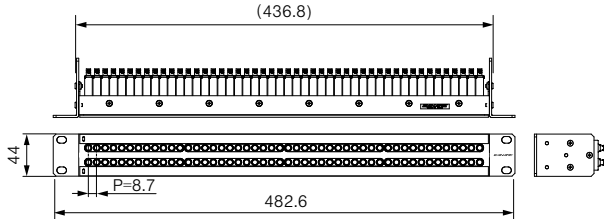
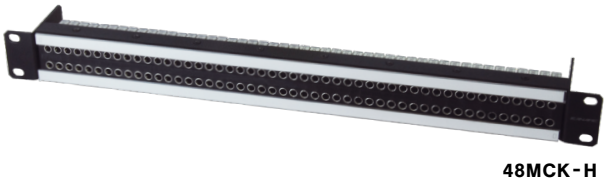
Model	Panel Size	Loaded Video Jacks
48MCK-H New	1RU	48 × MCVJHK-W
48MCK-HS New	1RU	48 × MCVJHK-S

Standard panel color: Black. Available in 6 colors. see page 76.

- 12G-SDI: SMPTE ST 2082-1 Fully Compliant
- Ultra-High Density: 48 Channels / 1RU
- Lightweight Jacks: 35g (50% lighter than standard)
- Ideal for Mobile Trucks: Maximum space and weight savings
- Micro BNC Rear Connectivity
- Equipped with Dust-Proof Shutters

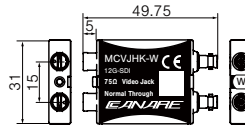


Note: Be sure to use with Canare Micro Video Patch Cords.



Dual Video Jacks

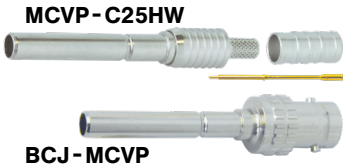
Model	Description	Rear Jacks
MCVJHK-W New	Normal through	micro BNC
MCVJHK-S New	Straight through	micro BNC



Micro Video Plug 12G-SDI

Model	Suitable Cable	Boot	Die Set
MCVP-C25HW	L-2.5CHWS	—	TCD-D253F

*Standard package: 20 pcs
*The plug is specifically designed for MCJV and MCVJKA jacks.

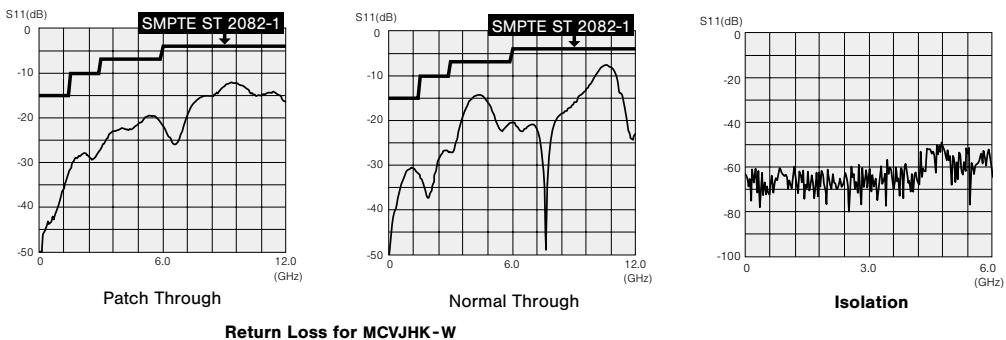


Accessories

Model	Description
MCVPC**	Canare Micro patch cords (see page 79)
BCJ-MCVP	BNC (female) to Micro Video plug conversion adapter (10 pcs)
BET-BNC	BNC extraction tool (see page 41)
PH50B	Patch cord holder for MCVPC**
MCVJ-DC	Dust cap for MCVJHK (black, 100 pcs)
MJ2-M48CK-1U New	Unloaded panels (see page 77)

Return Loss & Isolation

Model	MCVJHK-W	MCVJHK-S
RL	micro BNC - micro BNC: Normal Through	—
	micro BNC - Video: Patch Through	15 dB or more @ 1.5 GHz 10 dB or more @ 3 GHz 7 dB or more @ 6 GHz 4 dB or more @ 12 GHz
	micro BNC - Self: Termination	15 dB or more @ 1.5 GHz 10 dB or more @ 3 GHz 7 dB or more @ 6 GHz 4 dB or more @ 12 GHz
Isolation	45 dB or more @ 6 GHz	45 dB or more @ 6 GHz



Technical Trend
IP Connectivity Products
Fiber-Optic Systems
Connectors
Cables
Panels & Patchbays
Multichannel Systems
Cable Assemblies

Panels and Patchbays

75Ω Video Patchbays

75Ω Staggered Video Patchbays

The next-generation 12G-ready video patchbays with newly developed staggered dual video jacks.

■ Patchbays **12G-SDI**

Model	Panel Size	Loaded Video Jacks
32MCKA-ST	1RU	32 × MCVJKA-STW
32MCKA-STs	1RU	32 × MCVJKA-STs
32MCKA-ST-1.5U	1.5RU	32 × MCVJKA-STW
32MCKA-STs-1.5U	1.5RU	32 × MCVJKA-STs
32MCKA-ST-2U	2RU	32 × MCVJKA-STW
32MCKA-STs-2U	2RU	32 × MCVJKA-STs

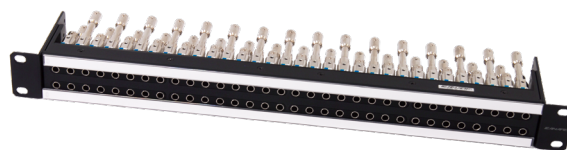
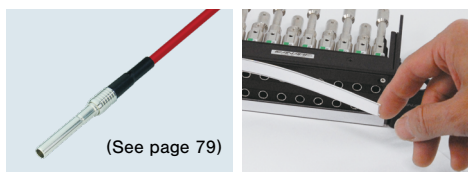
Standard panel color: Black. Available in 5 colors. see page 76.

- 12G-SDI: SMPTE ST 2082-1 fully compliant
- Refined the entire performance for 12G applications
- Lightweight video jacks with simple structure
- Dust-proof shutter
- New 1.5RU and 2RU panels:
Finger removal and wider designation strip

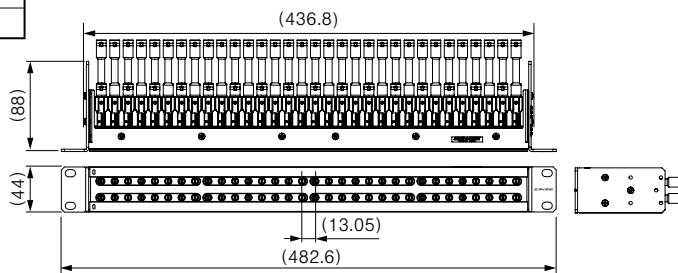
Website



Note: Be sure to use with Canare Micro Video Patch Cords.



32MCKA-ST



■ Dual Video Jacks

Model	Description	Rear Jacks
MCVJKA-STW	Normal through, Staggered rear jacks	BNC
MCVJKA-STs	Straight through, Staggered rear jacks	BNC

Website



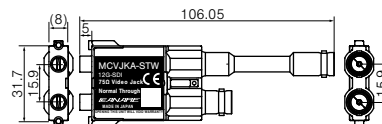
■ Micro Video Plug **12G-SDI**

Model	Suitable Cable	Boot	Die Set
MCVP-C25HW	L-2.5CHWS	—	TCD-D253F

*Standard package: 20 pcs

*The plug is specifically designed for MCVJ and MCVJKA jacks.

Website



MCVP-C25HW



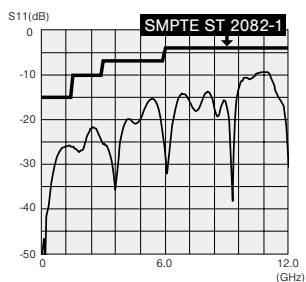
BCJ-MCVP

■ Accessories

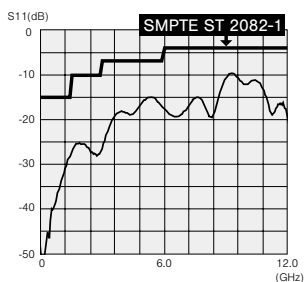
Model	Description
MCVPC**	Canare Micro patch cords (see page 79)
BCJ-MCVP	BNC (female) to Micro Video plug conversion adapter (10 pcs)
BET-BNC	BNC extraction tool (see page 41)
PH50B	Patch cord holder for MCVPC**
MCVJ-DC	Dust cap for MCVJKA (black, 100 pcs)
MJ2-M32CKA-U-***	Unloaded panels (see page 77)

■ Return Loss & Isolation

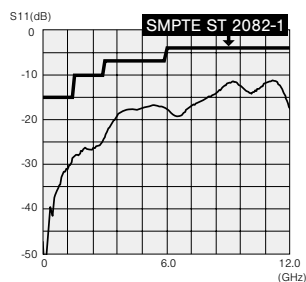
Model	MCVJKA-STW	MCVJKA-STs
RL	BNC-BNC: Normal Through	—
	BNC-Video: Patch Through	15 dB or greater @ 1.5 GHz 10 dB or greater @ 3 GHz 7 dB or greater @ 6 GHz
	BNC-Self Termination	15 dB or greater @ 1.5 GHz 10 dB or greater @ 3 GHz 7 dB or greater @ 6 GHz 4 dB or greater @ 12 GHz
Isolation	45 dB or greater @ 6 GHz	45 dB or greater @ 6 GHz



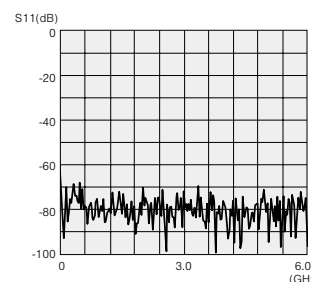
Normal Through



Patch Through
(Long BNC port)



Patch Through
(Short BNC port)



Isolation

Return Loss for MCVJKA-STW

75Ω Single Video Patchbay

The true 12G-SDI video patching system :
 Canare exclusive 12G capable single jacks, convenient looping plug, flexible patch cords, and 75Ω termination video plug. This MUSA style solution exceeds 4K/8K UHD requirements.

■ Patchbay **12G-SDI**

Model	Panel Size	Loaded Video Jacks
32SVK-ST	1RU	32 × SVJK-L 32 × SVJK-S
32SVK-ST-1.5U	1.5RU	32 × SVJK-L 32 × SVJK-S

Standard panel color : Black. Available in 9 colors. see page 76.

- 12G-SDI: SMPTE ST 2082-1 compliant
- Return loss performance: 15dB@12GHz
- 40% lighter than 32MCKA-ST/32MD-ST
- 32 channels of I/O into 1RU or 1.5RU
- Canare original hassle-free patching design
- Staggered BNC rear jacks
- Can be recessed 25 mm
- Included a sheet of channel designator for easy identification

Website



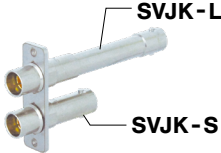
Note : Be sure to use with Canare Single Video Patch Cords.

■ Single Video Jacks

Model	Description	Rear Jack
SVJK-L	Long type	BNC
SVJK-S	Short type	BNC

*Adapter plates: SVJK-AP should be used for loading the jacks. Call for the details.

Website

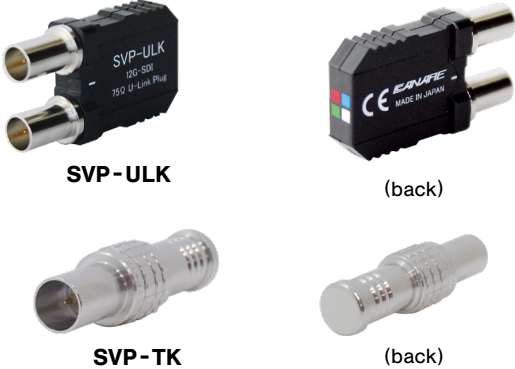


■ Single Video Plug

Model	Suitable Cable	Boot	Die Set
SVP-C25HW	L-2.5CHWS	CB02	TCD-D253F

*Standard package : 20 pcs

Website



■ U-link and Termination Plugs

Model	Description
SVP-ULK	U-link/Looping plug
SVP-TK	Termination plug (standard package 20 pcs)

Website

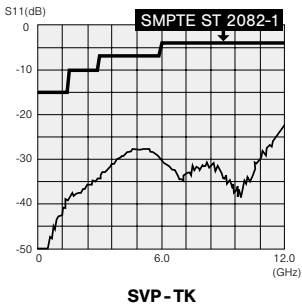
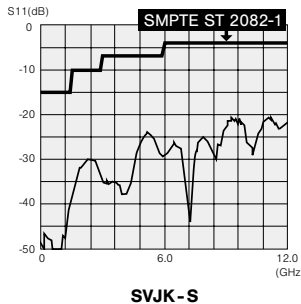
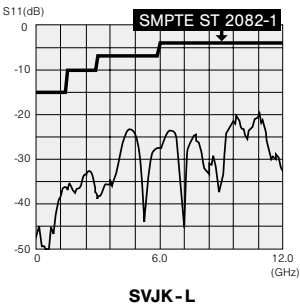
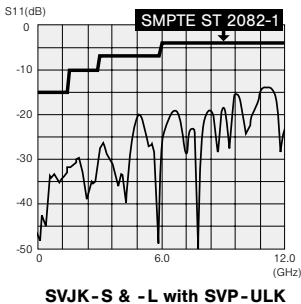


■ Accessories

Model	Description
SVPC**	Canare SV patch cords (see page 79)
BET-BNC	BNC extraction tool (see page 41)
PH50A	Patch cord holder for SVPC**
SVJK-DC	Dust cap for SVJK (black, 10 pcs)
MJ2-M32-U-***	Unloaded panels (see page 77)

■ Return Loss

Model	SVJK-S, SVJK-L	SVP-TK	SVP-ULK
@ 3 GHz	26 dB or greater	25 dB or greater	20 dB or greater
@ 6 GHz	20 dB or greater	20 dB or greater	15 dB or greater
@ 12 GHz	15 dB or greater	10 dB or greater	10 dB or greater



Technical Trend
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 Multichannel Systems
 Cable Assemblies

Panels and Patchbays

75Ω Video Patchbays

75Ω Micro Video Patchbays

Our unique, thinnest and lightest video jacks realize ultimate space efficiency.

■ Patchbays

Model	Panel Size	Loaded Video Jacks
48MC	1RU	48 × MCVJ-W
48MCS	1RU	48 × MCVJ-S

Standard panel color: Black. Available in 5 colors. Contact for more details.

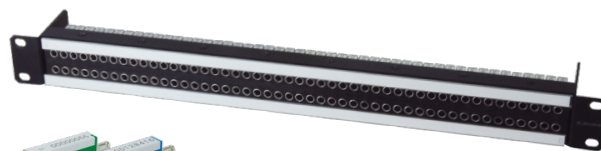
Website



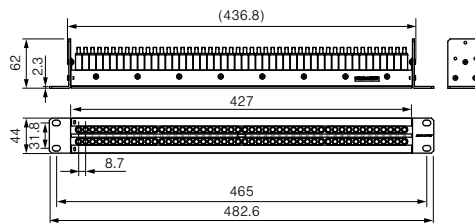
- High density 48 channels of I/O into 1RU design.
- Video jack weights 35 g and is half of our conventional one.
- Space and weight saving; beneficial to O.B. vans
- DIN 1.0/2.3 rear jacks.
- Dust-proof shutter
- Included a sheet of channel designator for easy identification.
- Can be recessed 25 mm.
- 3G-SDI: SMPTE ST 424 compliant



Note: Be sure to use with Canare Micro Video Patch Cords.



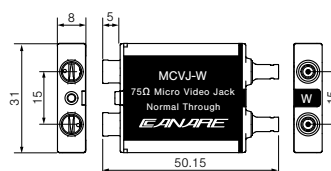
48MC



■ Dual Video Jacks

Model	Description	Rear Jacks
MCVJ-W	Normal through	DIN 1.0/2.3
MCVJ-S	Straight through	DIN 1.0/2.3

Website



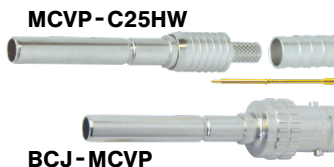
■ Micro Video Plug

Model	Suitable Cable	Boot	Die Set
MCVP-C25HW	L-2.5CHWS	—	TCD-D253F

*Standard package: 20 pcs

*The plug is specifically designed for MCVJ and MCVJKA jacks.

Website

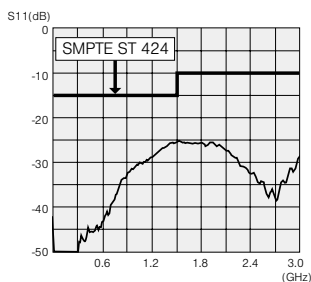


■ Accessories

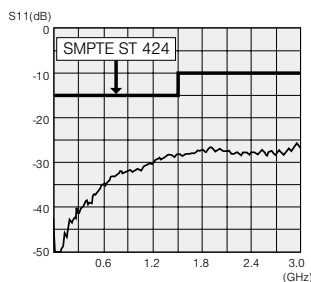
Model	Description
MCVPC**	Canare Micro patch cords (see page 79)
BCJ-MCVP	BNC (female) to Micro Video plug conversion adapter (10 pcs)
BET-DIN	Extraction tool for DCP-C series (see page 41)
BET-D/H	
PH50B	Patch cord holder for MCVPC**
MCVJ-DC	Dust cap for MCVJ (black, 100 pcs)

■ Return Loss & Isolation

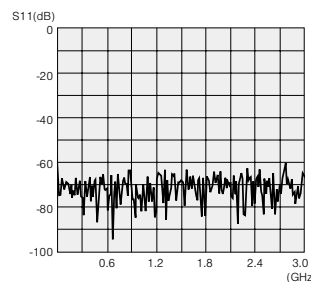
	Model	MCVJ-W	MCVJ-S
RL	DIN-DIN: Normal Through	20 dB or greater @ 3 GHz	—
	DIN-Video: Patch Through	20 dB or greater @ 3 GHz	20 dB or greater @ 3 GHz
	DIN-Self Termination	10 dB or greater @ 3 GHz	20 dB or greater @ 3 GHz
	Isolation	45 dB or greater @ 3 GHz	45 dB or greater @ 3 GHz



Normal Through



Patch Through



Isolation

Return Loss for MCVJ-W

75Ω Staggered Mid-size Video Patchbays

3G-ready mid-size video jacks allow for more efficient use of rack space.

Patchbays

Model	Panel Size	Loaded Video Jacks
32MD-ST	1RU	32 × MDVJ-STW
32MD-STs	1RU	32 × MDVJ-STs
32MD-ST-2U	2RU	32 × MDVJ-STW
32MD-STs-2U	2RU	32 × MDVJ-STs
32MD-ST-4U	4RU	96 × MDVJ-STW
32MD-STs-4U	4RU	96 × MDVJ-STs

Standard panel color: Black. Available in 9 colors. see page 76.

- 32 channels of I/O into 1 or 2RU, 96 channels of I/O into 4RU.
- Rotary Switch Technology with dual-contact construction.
- Can be recessed 25 mm (except 4RU type).
- Wide designation strip (2RU, 4RU type).
- Lightweight aluminum alloy video jacks.

Note: Be sure to use with Mini-WECO Video Patch Cords.

Website



MVPC**
(See page 79)

Dual Video Jacks

Model	Description	Rear Jacks
MDVJ-STW	Normal through, Staggered rear jacks	BNC
MDVJ-STs	Straight through, Staggered rear jacks	BNC

Website

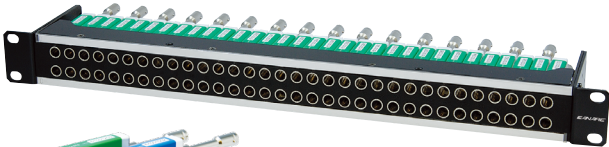


Mini-WECO Video Plugs

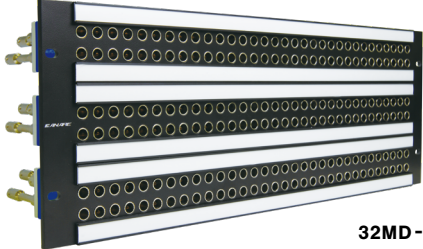
Model	Suitable Cable	Boot	Die Set
MVP-C25HW	L-2.5CHWS	CB25	TCD-D253F
MVP-C4	LV-61S, RG-59B/U, Belden 8241, 8279, 88241	CB25	TCD-451CA TCD-4CA

*Standard package: 20 pcs

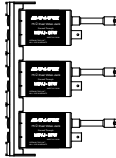
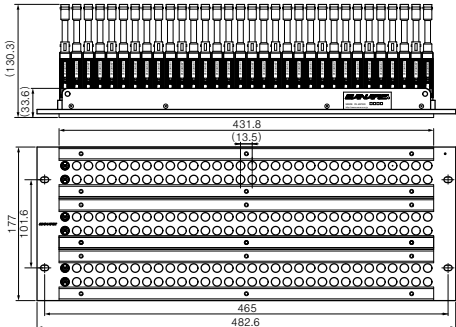
Website



32MD-STs



32MD-STs-4U



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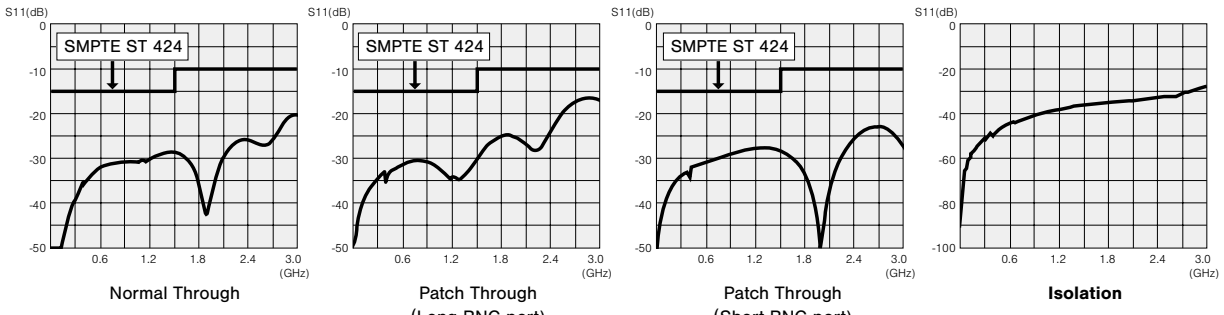
Accessories

Model	Description
MVPC**	Mini WECO patch cords (see page 79)
MVPC**-HW	Mini WECO patch cords (see page 79)
BCJ-MVP	BNC (female) to Mini-WECO plug conversion adapter (10 pcs)
BET-BNC	BNC extraction tool (see page 41)
PH50A	Patch cord holder for MVPC**
MVJ-DC	Dust cap for MDVJ (color: black 40 pcs)
MJ2-M32-U-***	Unloaded panels (see page 77)
VJ2-M32-4U	

*BCJ-MVP is recommended to use with Slim BNC plug (see page 22).

Return Loss & Isolation

Model	MDVJ-STW	MDVJ-STs	
RL	BNC-BNC: Normal Through	—	
	BNC-Video: Patch Through	26 dB or greater @ 750 MHz 20 dB or greater @ 2.4 GHz 10 dB or greater @ 3 GHz	26 dB or greater @ 750 MHz 20 dB or greater @ 2.4 GHz 10 dB or greater @ 3 GHz
	BNC-Self Termination	26 dB or greater @ 750 MHz 20 dB or greater @ 1.5 GHz 10 dB or greater @ 3 GHz	26 dB or greater @ 750 MHz 20 dB or greater @ 1.5 GHz 10 dB or greater @ 3 GHz
Isolation	35 dB or greater @ 1.5 GHz 20 dB or greater @ 3.0 GHz	35 dB or greater @ 1.5 GHz 20 dB or greater @ 3.0 GHz	



Return loss for MDVJ-STW

Panels and Patchbays

75Ω Video Patchbays

75Ω Video Patchbays

3G-ready HD-SDI video patchbays featuring Canare's uniquely-developed rotary switches.

■ Patchbays

Model	Panel Size	Loaded Video Jacks
20DV	1RU	20 × DVJB-W
24DV		24 × DVJB-W
26DV		26 × DVJB-W
20DVS	1RU	20 × DVJB-S
24DVS		24 × DVJB-S
26DVS		26 × DVJB-S
20DV-2U	2RU	20 × DVJB-W
24DV-2U		24 × DVJB-W
26DV-2U		26 × DVJB-W
20DVS-2U	2RU	20 × DVJB-S
24DVS-2U		24 × DVJB-S
26DVS-2U		26 × DVJB-S

Standard panel color: Black. Available in 9 colors, see page 76.

- Rotary Switch Technology with dual-contact construction.
- Can be recessed 25 mm.
- Wide designation strip (2RU type).
- Lightweight aluminum alloy video jacks.

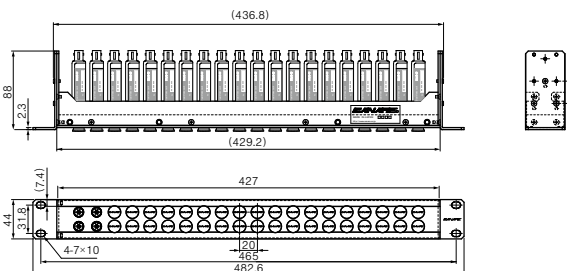
Note: Be sure to use with WECO Video Patch Cords.



Website



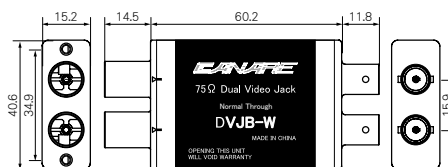
26DV



■ Dual Video Jacks

Model	Description	Rear Jacks
DVJB-W	Normal through	BNC
DVJB-S	Straight through	BNC

Website



■ WECO Plugs

Model	Suitable Cable	Boot	Die Set
VWP-C25HW	L-2.5CHWS	CB04	TCD-D253F
VWP-C4A	LV-61S, RG-59B/U, Belden 8241, 8279, 88241	CB04	TCD-451CA TCD-4CA

*Standard package: 20 pcs

Website



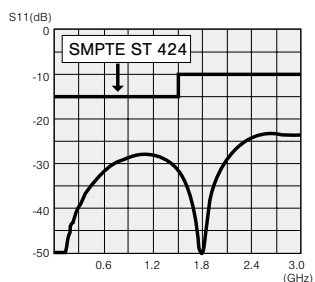
VWP-C4A

■ Accessories

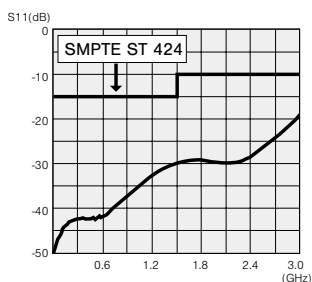
Model	Description
VPC**-WC	WECO patch cords (see page 79)
VPC**-HW-WC	
BCJ-VWP	BNC (female) to WECO plug conversion adapter
BET-BNC	BNC extraction tool (see page 41)
PH50A	Patch cord holder for VPC**
VJ-DC	Duct cap for DVJB (black, 40 pcs)
VJ2-V**-*U-***	Unloaded panels (see page 77)

■ Return Loss & Isolation

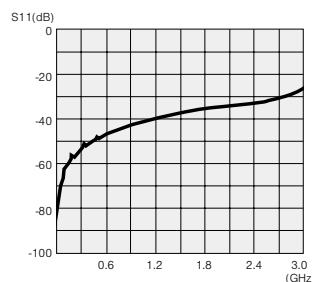
Model	DVJB-W	DVJB-S
RL	BNC-BNC: Normal Through	—
	BNC-Video: Patch Through	26 dB or greater @ 750 MHz 20 dB or greater @ 2.4 GHz 10 dB or greater @ 3 GHz
	BNC-Self Termination	26 dB or greater @ 750 MHz 20 dB or greater @ 1.5 GHz 10 dB or greater @ 3 GHz
Isolation	35 dB or greater @ 1.5 GHz 20 dB or greater @ 3.0 GHz	35 dB or greater @ 1.5 GHz 20 dB or greater @ 3.0 GHz



Normal Through



Patch Through

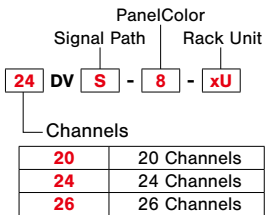


Isolation

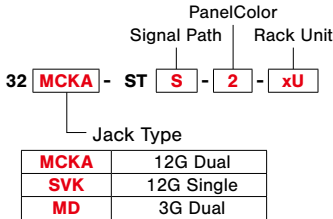
Return loss for DVJB-W

Ordering Information

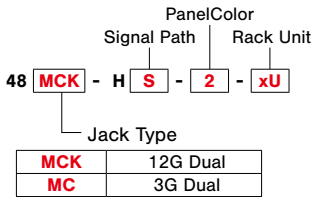
WECO Video Patchbays



32 Channels Video Patchbays



48 Channels Video Patchbays



Panel Color

Model Name	Blank	1	2	3	4	5	6	7	8	9
48MCK-H(S)	Black	N/A	Red	N/A	Yellow	Green	Blue	Purple	N/A	N/A
48MC(S)	Black	N/A	Red	N/A	Yellow	Green	Blue	Purple	N/A	N/A
32MCKA-ST(S)	Black	N/A	Red	N/A	Yellow	Green	Blue	Purple	N/A	N/A
32SVK-ST	Black	Brown	Red	Orange	Yellow	Green	Blue	Purple	Gray	White
32MD-ST(S)	Black	Brown	Red	Orange	Yellow	Green	Blue	Purple	Gray	White
2xDV(S)	Black	Brown	Red	Orange	Yellow	Green	Blue	Purple	Gray	White

*32MD-ST(S)-4U type is available in black color only.

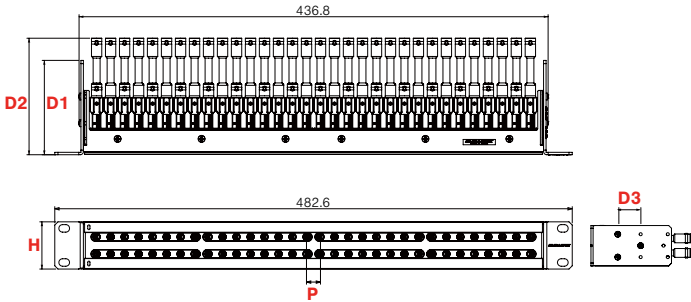
Rack Unit

Model Name	Blank	1.5U	2U	4U
48MCK-H(S)	1RU	N/A	N/A	N/A
48MC(S)	1RU	N/A	N/A	N/A
32MCKA-ST(S)	1RU	1.5RU	2RU	N/A
32SVK-ST	1RU	1.5RU	N/A	N/A
32MD-ST(S)	1RU	N/A	2RU	4RU
2xDV(S)	1RU	1.5RU	2RU	N/A

Signal Path

Model Name	Blank	S
48MCK-H(S)	Normal Through	Straight Through
48MC(S)		
32MCKA-ST(S)		
32MD-ST(S)		
2xDV(S)		

* 32SVK-ST is Single.



Dimensions

Model Name	D1	D2	D3	H	P	Designation Strip
48MCK-H(S)	62	N/A	25	44	8.7	426 × 6.2
48MC(S)	62	N/A	25	44	8.7	426 × 8.5
32MCKA-ST(S)	88	108.7	25	44	13.05	426 × 8.5
32MCKA-ST(S)-1.5U	88	109.2	25	66.1	13.05	426.5 × 16.7
32MCKA-ST(S)-2U	88	109.4	25	88.1	13.05	426.5 × 16.7
32SVK-ST(S)	88	N/A	25	44	12.7	426 × 6.2
32SVK-ST(S)-1.5U	88	N/A	25	66.1	12.7	426.5 × 16.7
20DV(S)	88	N/A	25	44	20	426 × 6.2
24DV(S)	88	N/A	25	44	17	426 × 6.2
26DV(S)	88	N/A	25	44	16	426 × 6.2
20DV(S)-2U	88	N/A	25	88.1	20	426 × 6.2
24DV(S)-2U	88	N/A	25	88.1	17	420 × 18.4
26DV(S)-2U	88	N/A	25	88.1	16	420 × 18.4
32MD-ST(S)	88	126.8	25	44	12.7	426 × 6.2
32MD-ST(S)-2U	88	126.8	25	88.1	12.7	420 × 18.4
32MD-ST(S)-4U*	N/A	130.3	N/A	177	13.5	431.8 × 13.2

*See the drawings for 32MD-ST(S)-4U, 4RU type can not be recessed. (See page 74)



Technical Trend
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Fiber-Optic Systems
Connectors
Cables
Panels & Patchbays
Multichannel Systems
Cable Assemblies

Panels and Patchbays

Unloaded Video Jack Panels

Unloaded Video Jack Panels

Website



Model	Panel Size	Description
MJ2-M48CK-1U-*** New	1RU	48 ch (48 slots), for MCVJHK
MJ2-M32CKA-1U-***	1RU	32 ch (32 slots), for MCVJKA
MJ2-M32CKA-1.5U-***	1.5RU	32 ch (32 slots), for MCVJKA
MJ2-M32CKA-2U-***	2RU	32 ch (32 slots), for MCVJKA
MJ2-M32-1U-***	1RU	32 ch (64 holes), for MDVJ and SVJK
MJ2-M32-1.5U-***	1.5RU	32 ch (64 holes), for MDVJ and SVJK
MJ2-M32-2U-***	2RU	32 ch (64 holes), for MDVJ and SVJK
VJ2-M32-4U	4RU	96 ch (3 × 32 ch, 192 holes), for MDVJ, Black
VJ2-V20-1U-***	1RU	20 ch (40 holes), for DVJB
VJ2-V20-2U-***	2RU	20 ch (40 holes), for DVJB
VJ2-V24-1U-***	1RU	24 ch (48 holes), for DVJB
VJ2-V24-2U-***	2RU	24 ch (48 holes), for DVJB
VJ2-V26-1U-***	1RU	26 ch (52 holes), for DVJB
VJ2-V26-2U-***	2RU	26 ch (52 holes), for DVJB

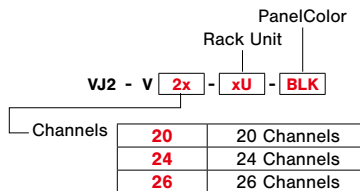


MJ2-M32CKA

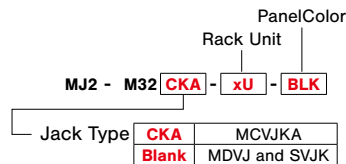
***: Please refer to the ordering information below.

<Ordering Information>

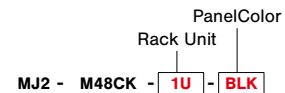
WECO Video Patchbays



32 Channels Video Patchbays



48 Channels Video Patchbays



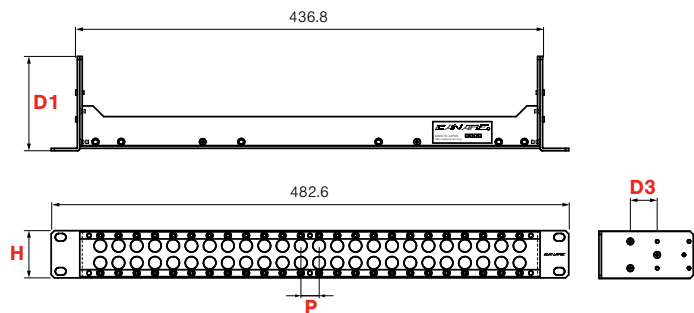
■ Panel Color

Model Name	BLK	BRN	RED	ORG	YEL	GRN	BLU	PPL	GRY	WHT
MJ2-M48CK-1U-***	Black	N/A	Red	N/A	Yellow	Green	Blue	Purple	N/A	N/A
MJ2-M32CKA-1U-***	Black	N/A	Red	N/A	Yellow	Green	Blue	Purple	N/A	N/A
VJ2-V2x-xU-***	Black	Brown	Red	Orange	Yellow	Green	Blue	Purple	Gray	White
MJ2-M32-xU-***	Black	Brown	Red	Orange	Yellow	Green	Blue	Purple	Gray	White
VJ2-M32-4U	Black	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*4RU type is available in black color only.

■ Rack Unit

Model Name	1U	1.5U	2U	4U
MJ2-M48CK-1U-***	1RU	N/A	N/A	N/A
MJ2-M32CKA-1U-***	1RU	1.5RU	2RU	N/A
VJ2-V2x-xU-***	1RU	N/A	2RU	N/A
MJ2-M32-xU-***	1RU	1.5RU	2RU	N/A
VJ2-M32-4U	N/A	N/A	N/A	4RU



■ Dimensions

Model Name	D1	D3	H	P	Designation Strip
MJ2-M48CK-1U-***	62	25	44	8.7	426 × 6.2
MJ2-M32CKA-1U-***	88	25	44	N/A	426 × 8.5
MJ2-M32CKA-1.5U-***	88	25	66.1	N/A	426.5 × 16.7
MJ2-M32CKA-2U-***	88	25	88.1	N/A	426.5 × 16.7
VJ2-V20-1U-***	88	25	44	20	426 × 6.2
VJ2-V24-1U-***	88	25	44	17	426 × 6.2
VJ2-V26-1U-***	88	25	44	16	426 × 6.2
VJ2-V20-2U-***	88	25	88.1	20	420 × 18.4
VJ2-V24-2U-***	88	25	88.1	17	420 × 18.4
VJ2-V26-2U-***	88	25	88.1	16	420 × 18.4
MJ2-M32-1U-***	88	25	44	12.7	426 × 6.2
MJ2-M32-1.5U-***	88	25	66.1	12.7	426.5 × 16.7
MJ2-M32-2U-***	88	25	88.1	12.7	420 × 18.4
VJ2-M32-4U	33.6	N/A	177	13.5	431.8 × 13.2



Designation Strip

*4RU type can not be recessed.

RS422 Patchbays

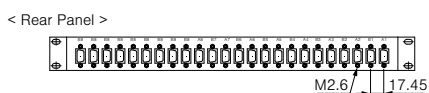
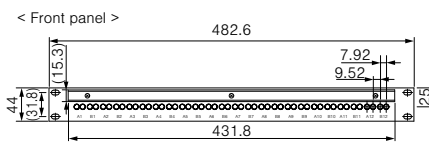
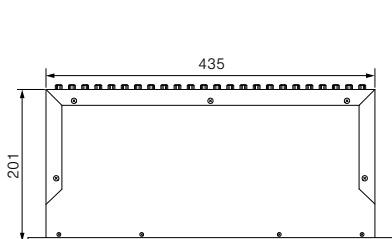
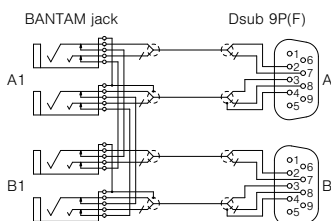
Model	Panel Size	Connectors	
		Front Panel	Rear Panel
RS-422-1U-16	1RU	Bantam	D sub 9P(F) × 16
RS-422-1U-24	1RU	Bantam	D sub 9P(F) × 24
RS-422-2U-32	2RU	Bantam	D sub 9P(F) × 32
RS-422-2U-48	2RU	Bantam	D sub 9P(F) × 48

- The RS422 serial signal used for VTR remote applications can now be switched with Bantam patchbay ease.
- D sub screws are M2.6

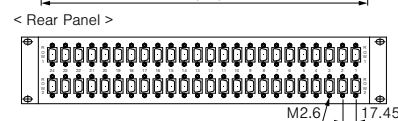
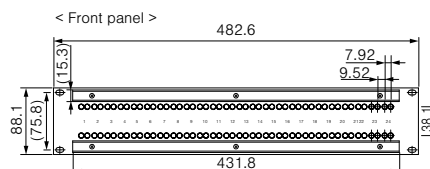
* Listed above items are other manufacturer's products.



RS-422-2U-48



RS-422-1U-24



RS-422-2U-48

Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

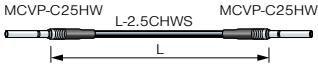
Panels and Patchbays

Video Patch Cords

Video Patch Cords

Canare Micro

For 32MCKA-ST or 48MC

Type	Model	Length (m)
	MCVPC003	0.3
	MCVPC005	0.5
	MCVPC01	1

BLK BRN RED YEL GRN BLU PPL

Website

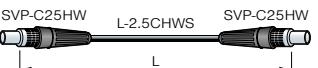


Canare Micro



Canare Single

For 32SVK

Type	Model	Length (m)
	SVPC003	0.3
	SVPC005	0.5
	SVPC01	1

BLK BRN RED YEL GRN BLU PPL

Website

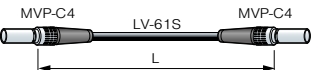



Canare Single



Mini-WECO

For 32MD-ST and Mini-WECO patchbays

Type	Model	Length (m)
	MVPC003	0.3
	MVPC005	0.5
	MVPC01	1
	MVPC003-HW	0.3
	MVPC005-HW	0.5
	MVPC01-HW	1

BLK RED YEL GRN BLU

BLK BRN RED YEL GRN BLU PPL

Website

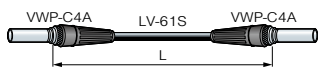



Mini-WECO



WECO

For 2*DV and WECO patchbays

Type	Model	Length (m)
	VPC003-WC	0.3
	VPC005-WC	0.5
	VPC01-WC	1
	VPC003-HW-WC	0.3
	VPC005-HW-WC	0.5
	VPC01-HW-WC	1

BLK BRN RED GRN YEL GRN BLU PPL GRN

WHT

BLK BRN RED YEL GRN BLU PPL

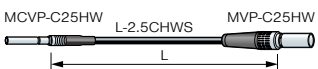
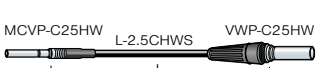
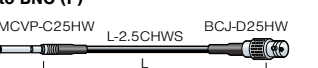
Website



WECO



Canare Micro Conversion

Type	Model	Length (m)
to Mini-WECO 	MCVPC003-MVP	0.3
	MCVPC005-MVP	0.5
	MCVPC01-MVP	1
to WECO 	MCVPC003-VWP	0.3
	MCVPC005-VWP	0.5
	MCVPC01-VWP	1
to BNC (F) 	MCVPC002-BJ	0.2

BLK BRN RED YEL GRN BLU PPL



BLK BRN RED YEL GRN BLU PPL

BLK BRN RED YEL GRN BLU PPL

Website



Mini-WECO Conversion

Type	Model	Length (m)
to BNC (F) 	MVPC002-BJ	0.2
to BNC (M) 	MVPC02A-BP	2
	MVPC05A-BP	5

BLK RED YEL GRN BLU

BLK RED YEL GRN BLU

Website



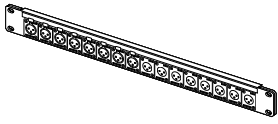
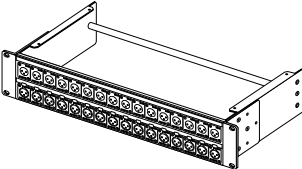
Pre-Loaded A/V Connector Panels




- BNC and XLR types are available.
- Clear plastic cover, full screen desi-strip

- Variety of panel options
- Most popular panel holes XLR F77 and Neutrik D available

XLR Connector Panels

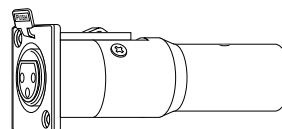
Type	Panel Size	Model	Loaded Connector	Panel P/N	Dimensions (mm)
 <p>161U-X12F</p>	1RU	161U-X1F	XLR3-31-F77 (16 pcs)	1U-AS1	44 × 482.6 × 39.7
		161U-X2F	XLR3-32-F77 (16 pcs)		44 × 482.6 × 26.6
		161U-X12F	XLR3-31-F77 (8 pcs, Left) XLR3-32-F77 (8 pcs, Right)		44 × 482.6 × 39.7
		161U-B1	NC3FD-LX-B (16 pcs)	1U-AS1D	44 × 482.6 × 31.3
		161U-B2	NC3MD-LX-B (16 pcs)		44 × 482.6 × 23.6
 <p>162U-X21</p>	2RU	162U-X21	XJ3M-P3FA (16 pcs, Upper Row) XJ3F-P3MA (16 pcs, Lower Row)	2U-AS7	88.1 × 482.6 × 217
		162U-X22	XJ3M-P3FA (32 pcs, 2 rows)		

BNC Connector Panels

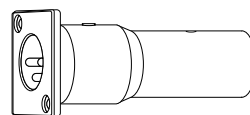
Type	Panel Size	Model	Loaded Connector	Panel P/N	Dimensions (mm)
 <p>161U-JRUK</p>	1RU	161U-JRUK	BCJ-JRUK (16 pcs)	1U-AS1	44 × 482.6 × 31.4
	2RU	162U-JRUK	BCJ-JRUK (32 pcs, 2 rows)	2U-AS7	88.1 × 482.6 × 217

XLR3 Panel Mount Adapters

Model	Description		Flange Type
	Front	Rear	
XJ3M-P3FA	XLR 3pin (M)	XLR 3pin (F)	ITT XLR-F77
XJ3M-P3MA	XLR 3pin (M)	XLR 3pin (M)	
XJ3F-P3FA	XLR 3pin (F)	XLR 3pin (F)	
XJ3F-P3MA	XLR 3pin (F)	XLR 3pin (M)	



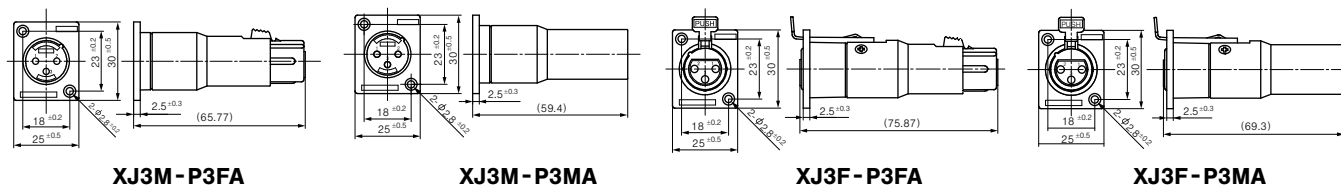
XJ3F-P3MA



XJ3M-P3MA



- XJ3 series are XLR3 full compatible.
- XLR jack to jack extremely reduce installation hours.



XJ3M-P3FA

XJ3M-P3MA

XJ3F-P3FA

XJ3F-P3MA

Blank Panels

Model	Description
BP-DXF (20 pcs)	Snap-on blank panels for both ITT XLR-F77/Neutrik D holes
BP-XF (10 pcs)	Blank panels for ITT XLR-F77 hole with screws
BP-D (10 pcs)	Blank panels for Neutrik D hole with screws

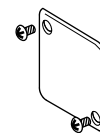
BP-DXF

- Easy and quick snap-on mounting without any tools
- Can be used for both ITT XLR-F77 and Neutrik D holes

Note: Panel thickness range: t 1.2 to t 2.3 mm



BP-DXF



BP-XF



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

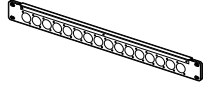
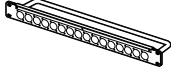
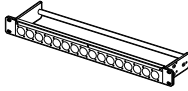
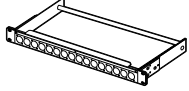
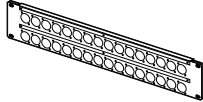
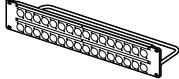
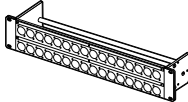
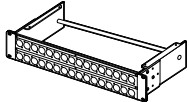
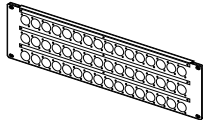
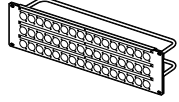
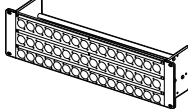
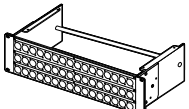
Multichannel Systems

Cable Assemblies

Panels and Patchbays

Connector Panels

Unloaded A/V Connector Panels

Panel Type	AS1 (D)	AS3 (D)	AS5 (D)	AS7 (D)
Description	Flat panel	Flat panel w/cable tie bar	Variable panel w/cable tie bar short type	Variable panel w/cable tie bar Long type
1RU 16 holes × 1 row				
Model	1U-AS1 (D)	1U-AS3 (D)	1U-AS5 (D)	1U-AS7 (D)
Depth (mm)	—	64.8	100	217
2RU 16 holes × 2 rows				
Model	2U-AS1 (D)	2U-AS3 (D)	2U-AS5 (D)	2U-AS7 (D)
Depth (mm)	—	64.8	100	217
3RU 16 holes × 3 rows				
Model	3U-AS1 (D)	3U-AS3 (D)	3U-AS5 (D)	3U-AS7 (D)
Depth (mm)	—	64.8	100	217

Variable panel can be recessed 25 mm.

Ordering Information

Panel Height,

Number of holes and Rows

1U	1RU, 16 holes, 1row
2U	2RU, 32 holes, 2rows
3U	3RU, 48 holes, 3rows

1U - AS3 D — Hole Type

Blank	ITT XLR-F77 Type
D	Neutrik D Type

Website



Panel Type

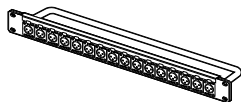
AS1	Flat panel
AS3	Flat panel w/ cable tie bar
AS5	Variable panel w/ cable tie bar - short depth
AS7	Variable panel w/ cable tie bar - long depth

Note: Depending on their length, some connectors can not be mounted on the panel with a cable tie bar installed.

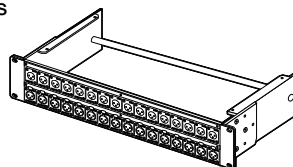
Related Products

Model	Description
M-MA1U02A	1RU mounting brackets for a Variable panel, 2 pcs. (left and right)
M-MA2U02	2RU mounting brackets for a Variable panel, 2 pcs. (left and right)
M-MA3U02	3RU mounting brackets for a Variable panel, 2 pcs. (left and right)
DS10-AS4	Designation strip for Canare A/V connector panels, 2 pcs.

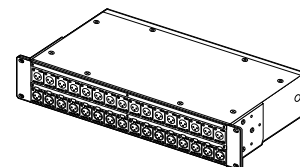
Examples of Custom-Made Connector Panels



1U-AS3 + XLR3-31-F77 × 16



2U-AS7 + XLR3-32-F77 × 16
XLR3-31-F77 × 16



2U-AS7 (box type)
Connectors can be mounted on the both side.

Connectors Canare Flush-mount BNC, F, RCA and XLR (ITT XLR-F77 or Neutrik D type) are available.

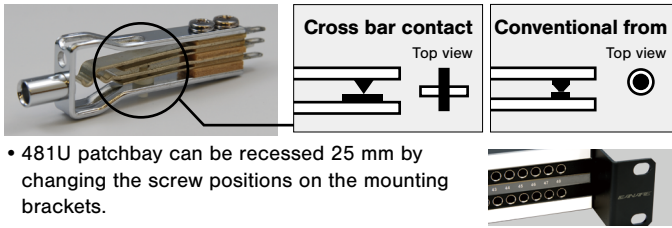
Options

- A) Rear Panel A connector panel can be mounted on the rear.
- B) Box Type A connector panel, top plate and bottom plate can be mounted on the rear.
- C) Recessed Variable panel can be recessed 25 mm by changing the screw positions of the mounting brackets and can be recessed either 50 mm or 75 mm by changing the mounting brackets to M-MA1U02A or M-MA*U02.

Options	AS1 (D)	AS3 (D)	AS5 (D)	AS7 (D)
A) Rear Panel	N/A	N/A	Available	Available
B) Box Type	N/A	N/A	N/A	Available
C) Recessed	N/A	N/A	Available	Available

Audio Patchbays

The gold alloy cross bar contact, which features a low faulty contact rate, is used for the jacks.

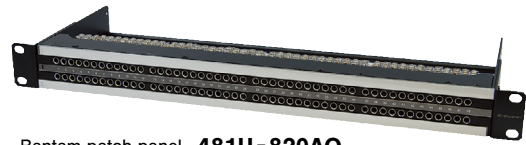


- 481U patchbay can be recessed 25 mm by changing the screw positions on the mounting brackets.

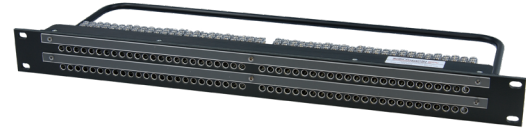
Model	Description	Connector
481U - 820AQ	Bantam Patchbay	820AQ × 96

Model	Description	Connector
48 - 12A/820AQ/EIA	Bantam Patchbay	820AQ × 96
32 - 12A/620A/EIA	Skini Patchbay	620A × 64

* Listed above items are other manufacturer's products.



Bantam patch panel 481U-820AQ



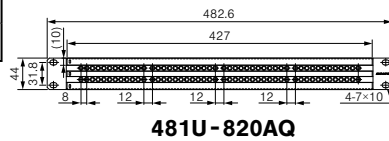
Bantam patch panel 48-12A/820AQ/EIA

Website
Bantam

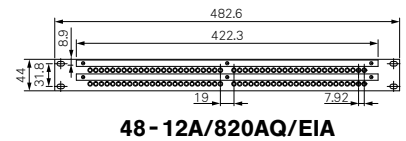
Website
Skini



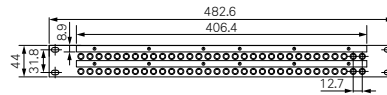
BC * M
(See page 94 for patch cords.)



481U-820AQ



48-12A/820AQ/EIA

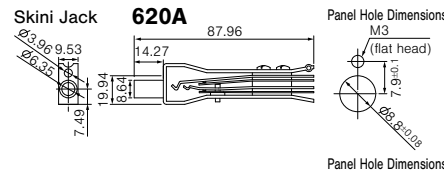
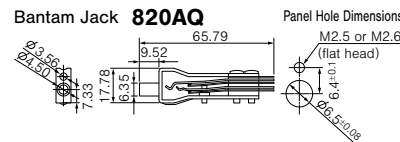


32-12A/620A/EIA

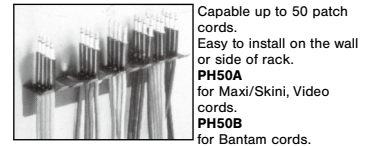
Audio Patchbays Related Products

Model	Description
620A	Skini Jack
820AQ	Bantam Jack
ABJ - DC	Bantam Jack Dust Cap (100 pcs/pkg)
NP3TMC - B	Maxi/Skini Plug
ABP - DP	Bantam Dummy Plug (10 pcs.)
ABP - TA	600Ω Bantam Terminating Plug
PH50A	Maxi/Skini/Video Patch Cord Holder
PH50B	Bantam Patch Cord Holder
DS10 - AS1	Designation Strip for Bantam (2 pcs.)
DS10 - AS2	Designation Strip for Skini (2 pcs.)
DS10 - AS3	Designation Strip for Maxi (2 pcs.)

* Listed above items are other manufacturer's products.



Patch Cord Holder



Capable up to 50 patch cords.
Easy to install on the wall or side of rack.
PH50A for Maxi/Skini, Video cords.
PH50B for Bantam cords.



ABP-DP



ABP-TA

Technical Note

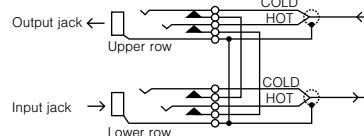
Audio Patchbay Normalling Descriptions

Output from a device is obtained from the upper row, while input to a device is normally connected to the lower row.

Users can select from the following three types of connecting functions.

<Wiring formats connecting upper and lower connectors>

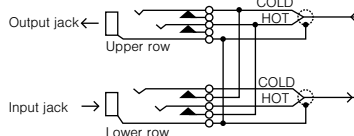
F: Full normal connection



Full Normal Format (series)

The upper (output) row is connected to the lower row (input) in the state when a plug is not inserted.
When a plug is inserted in the upper jack to obtain a signal, the signal is not connected to the lower jack. A signal can be entered by inserting a plug in the lower jack. In this case the signal is not connected to the upper jack.

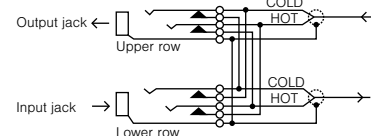
H: Half normal connection



Half Normal Format (half-parallel)

The upper (output) row is connected to the lower row (input) in the state when a plug is not inserted.
When a plug is inserted in the upper jack to obtain a signal, the signal is connected to the lower jack. This format allows the signal to be obtained in parallel. The signal can be prevented from going to the lower jack by inserting a dummy plug.
Signals are input by inserting a plug in the lower jack. In this case the signal is not connected to the upper jack.

W: Double normal connection



Double Normal Format (series-parallel)

The upper (output) row is connected to the lower row (input) in the state when a plug is not inserted.
When a plug is inserted in the upper jack to obtain a signal, the signal is connected to the lower jack. This format allows the signal to be obtained in parallel. The signal can be prevented from going to the lower jack by inserting a dummy plug.
A signal can be entered by inserting another plug in the lower jack. Note that the signal in this case is connected to the upper jack.
This can be prevented by inserting a dummy plug.

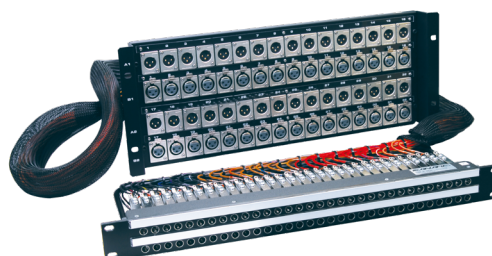
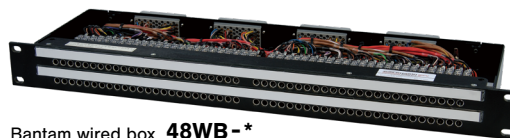
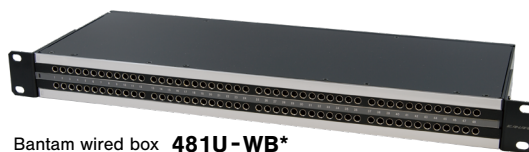
Panels and Patchbays

Audio Patchbays

Wired Box

Type	Model	Size	Connector	
			Front	Rear
Bantam	481U-WBF	1RU	820AQ × 96	90-602 × 4
	481U-WBH	1RU	820AQ × 96	90-602 × 4
	481U-WBW	1RU	820AQ × 96	90-602 × 4
	481U-WBS	1RU	820AQ × 96	90-602 × 4
	48WB-F	1RU	820AQ × 96	90-602 × 4
	48WB-H	1RU	820AQ × 96	90-602 × 4
	48WB-W	1RU	820AQ × 96	90-602 × 4
Skini	32WB-F	1RU	620A × 64	90-602 × 4
	32WB-H	1RU	620A × 64	90-602 × 4
	32WB-W	1RU	620A × 64	90-602 × 4

481U-WB can be recessed 25 mm
 *90-602 connector is identical to
 ELCO 00-8016-090-***-702V connector



Wired Panels

Type	Model	Panel 1		Panel 2	
		Size	Connector	Size	Connector
Bantam	48XP-F	1RU	820AQ × 96	3RU × 2	XLR3-31-F77 × 48 XLR3-32-F77 × 48
	48XP-H	1RU	820AQ × 96	3RU × 2	XLR3-31-F77 × 48 XLR3-32-F77 × 48
	48XP-W	1RU	820AQ × 96	3RU × 2	XLR3-31-F77 × 48 XLR3-32-F77 × 48
Skini	32XP-F	1RU	620A × 64	4RU	XLR3-31-F77 × 32 XLR3-32-F77 × 32
	32XP-H	1RU	620A × 64	4RU	XLR3-31-F77 × 32 XLR3-32-F77 × 32
	32XP-W	1RU	620A × 64	4RU	XLR3-31-F77 × 32 XLR3-32-F77 × 32

*Cables are 2 meters in length.

Normalizing Options

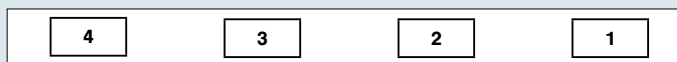
- 481U-WB* — F: Full normal
- 48WB-* — H: Half normal
- 48XP-* — W: Double normal
- S: Single (No normal)



(See page 94 or patch cords)

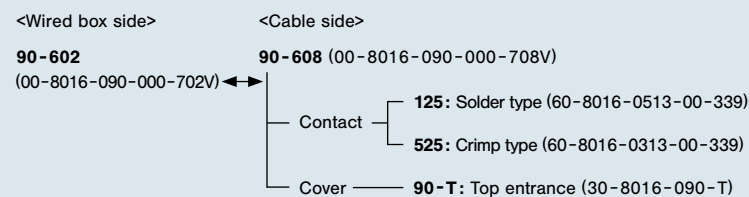
90-602 Connector Format (Wired box)

<Rear panel>



Bantam Lower row 25-48 ch Upper row 25-48 ch Lower row 1~24 ch Upper row 1~24 ch
 Skini Lower row 17-32 ch Upper row 17-32 ch Lower row 1~16 ch Upper row 1~16 ch

90-602 connector is mated with 90-608 connector.
 90-608 requires either 125 or 525 contact and 90-T cover for assembling.



*The numbers in parentheses are ELCO ordering codes.
 ** Contact extraction tool: 06-1877-04.
 Crimping pliers for 525: 06-1001-015 (AWG #18), 06-1001-016 (AWG #20-#22), 06-1001-017 (AWG #24-#26).

Wiring Table for 90-602

Channel no.	Skini		Bantam		HOT	COLD	SHIELD
	1	2	1	2			
1	17	1	25	A	H	R	
2	18	2	26	B	J	S	
3	19	3	27	C	K	T	
4	20	4	28	D	L	U	
5	21	5	29	E	M	V	
6	22	6	30	F	N	W	
7	23	7	31	X	AE	AM	
8	24	8	32	Y	AF	AN	
9	25	9	33	Z	AH	AP	
10	26	10	34	AA	AJ	AR	
11	27	11	35	AB	AK	AS	
12	28	12	36	AC	AL	AT	
13	29	13	37	BJ	BS	BY	
14	30	14	38	BK	BT	BZ	
15	31	15	39	BL	BU	CA	
16	32	16	40	BM	BV	CB	
			17	41	BN	BW	CC
			18	42	BP	BX	CD
			19	43	CF	CN	CW
			20	44	CH	CP	CX
			21	45	CJ	CR	CY
			22	46	CK	CS	CZ
			23	47	CL	CT	DA
			24	48	CM	CU	DB

Snake Trunk



Junction Box



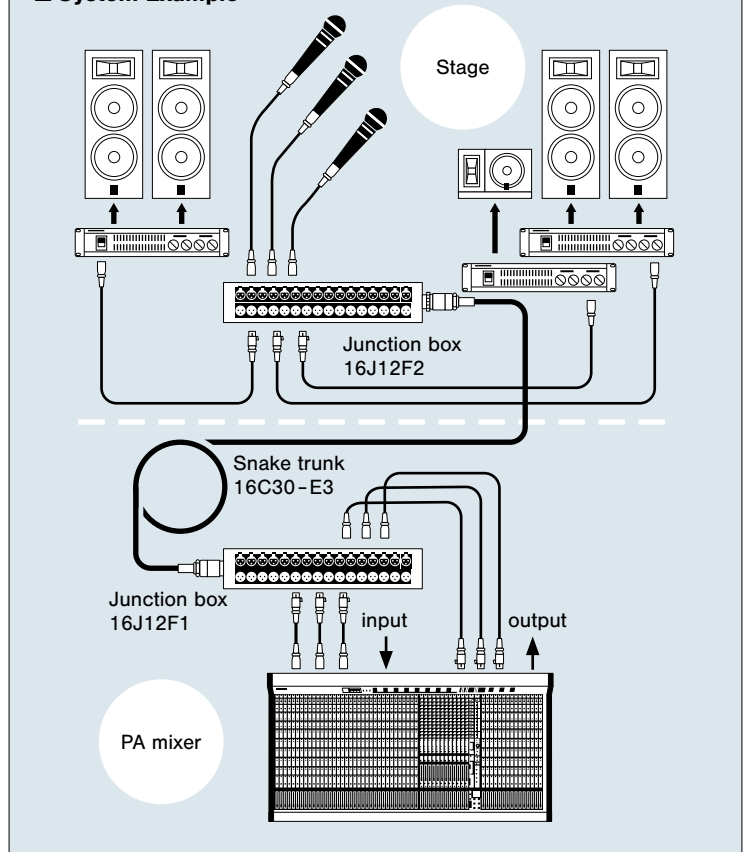
Fantail



Cable Reel Snake



System Example



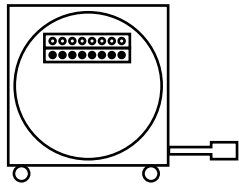
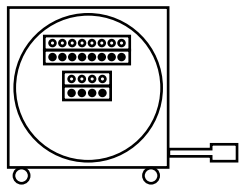
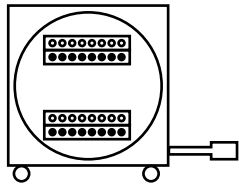
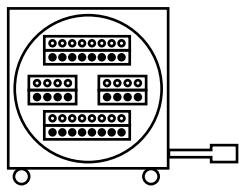














Connectors used with Canare multichannel cable system

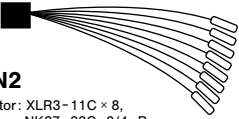
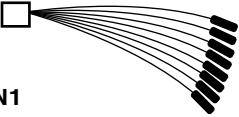


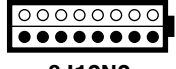
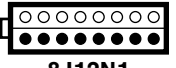
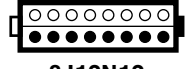
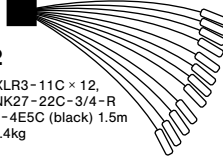
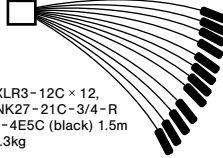
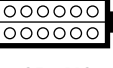
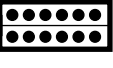
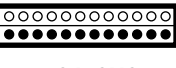
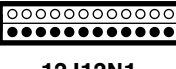
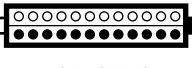
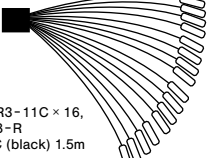
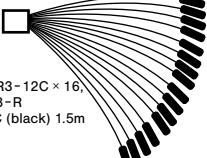
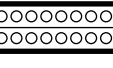
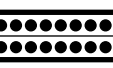
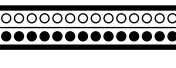
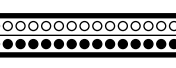
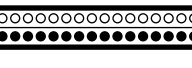
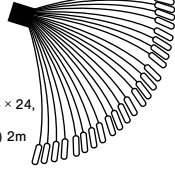
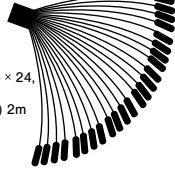
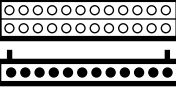
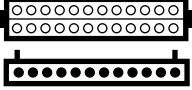
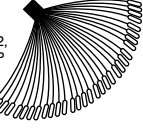
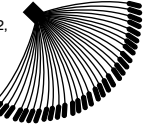
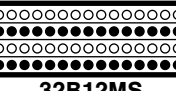
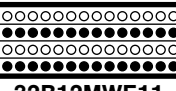
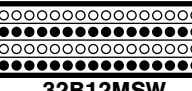
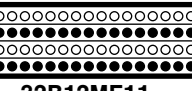
Cable mount	Panel mount	Cable mount	Panel mount
XLR3-11C (female)	XLR3-32-F77 (male)	XLR3-12C (male)	XLR3-31-F77 (female)
For multichannel cable Plug	For Junction box Receptacle	For multichannel cable Plug	For Junction box Receptacle
NK27-21C-R (female) + NK-AD1-R (barrel extension)	NK27-32S-R (male)	FK37-21C-R (female) + FK-AD2-R (barrel extension)	FK37-32S-R (male)
NK27-22C-R (male) + NK-AD1-R (barrel extension)	NK27-31S-R (female)	FK37-22C-R (male) + FK-AD2-R (barrel extension)	FK37-31S-R (female)
D/MS3106B32A-10S (female) + EB-02 (barrel extension) + D/MS3057-20A(R1) (cable clamp)	D/MS3102A32A-10P (male)	D/MS3106B36-73S (female) + EB-03 (barrel extension) + D/MS3057-24A(R1) (cable clamp)	D/MS3102A36-73P (male)

Multichannel Systems

Snake Trunks, Cable Reel Snakes

	Snake Trunks		Cable Reel Snakes																																							
8 CH	<p>L-4E3 Star quad, Braided shield</p>  <p>Connector: NK27-21C 3/4-R, NK27-22C 3/4-R Cable: L-4E3-8P (black) Rubber bushing: AN3420-12(R1) + Heat Shrink Tube</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>8C05-E3</td> <td>5m</td> <td>1.6kg</td> </tr> <tr> <td>8C10-E3</td> <td>10m</td> <td>3.0kg</td> </tr> <tr> <td>8C30-E3</td> <td>30m</td> <td>8.4kg</td> </tr> <tr> <td>8C50-E3</td> <td>50m</td> <td>13.8kg</td> </tr> </tbody> </table>	Model	Length	Weight	8C05-E3	5m	1.6kg	8C10-E3	10m	3.0kg	8C30-E3	30m	8.4kg	8C50-E3	50m	13.8kg	<p>M2 Two-cord, AT shield</p>  <p>Connector: NK27-21C 3/4-R, NK27-22C 3/4-R Cable: M202-8AT (black) Rubber bushing: AN3420-10(R1), 12(R1) + Heat Shrink Tube</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>8C10-M2</td> <td>10m</td> <td>1.7kg</td> </tr> <tr> <td>8C30-M2</td> <td>30m</td> <td>4.5kg</td> </tr> <tr> <td>8C50-M2</td> <td>50m</td> <td>7.3kg</td> </tr> </tbody> </table>	Model	Length	Weight	8C10-M2	10m	1.7kg	8C30-M2	30m	4.5kg	8C50-M2	50m	7.3kg	 <p>Connector: NK27-21C-3/4-R Cable: L-4E3-8P (black)</p> <table border="1"> <thead> <tr> <th>Model</th> <th>Length</th> <th>Weight</th> <th>Cable reel</th> </tr> </thead> <tbody> <tr> <td>8R30-E3</td> <td>30m</td> <td>18.1kg</td> <td>R380</td> </tr> <tr> <td>8R50-E3</td> <td>50m</td> <td>23.0kg</td> <td>R380</td> </tr> </tbody> </table>	Model	Length	Weight	Cable reel	8R30-E3	30m	18.1kg	R380	8R50-E3	50m	23.0kg	R380
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8R30-E3	30m	18.1kg	R380																																							
8R50-E3	50m	23.0kg	R380																																							
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Note: Connecting cables 24C005-E3MS22 and 32C005-M2MS22 are to be used to interconnect snake trunks only and they do not mate with our other standard snake system.

Fantails	Junction Boxes		
<p>8S1N2 Connector: XLR3-11C x 8, NK27-22C-3/4-R Cable: L-4E6S (black) 1.5m Weight: 1.1kg</p>  <p>8S2N1 Connector: XLR3-12C x 8, NK27-21C-3/4-R Cable: L-4E6S (black) 1.5m Weight: 1.0kg</p> 	<p>Single XLR per channel</p> <p>8B1N2 Connector: XLR3-31-F77 x 8, NK27-32S-R x 1 Weight: 0.9kg</p>  <p>8B2N1 Connector: XLR3-32-F77 x 8, NK27-31S-R x 1 Weight: 1.1kg</p> 	<p>Parallel XLR per channel</p> <p>8J12N2 Connector: XLR3-31-F77 x 8, XLR3-32-F77 x 8, NK27-32S-R x 1 Weight: 1.5kg</p>  <p>8J12N1 Connector: XLR3-31-F77 x 8, XLR3-32-F77 x 8, NK27-31S-R x 1 Weight: 1.5kg</p> 	<p>Parallel XLR per channel MultiPin feed through</p> <p>8J12N12 Connector: XLR3-31-F77 x 8, XLR3-32-F77 x 8, wNK27-31S-R x 1, NK27-32S-R x 1 Weight: 1.6kg</p> 
<p>12S1N2 Connector: XLR3-11C x 12, NK27-22C-3/4-R Cable: L-4E5C (black) 1.5m Weight: 1.4kg</p>  <p>12S2N1 Connector: XLR3-12C x 12, NK27-21C-3/4-R Cable: L-4E5C (black) 1.5m Weight: 1.3kg</p> 	<p>12B1N2 Connector: XLR3-31-F77 x 12, NK27-32S-R x 1 Weight: 1.3kg</p>  <p>12B2N1 Connector: XLR3-32-F77 x 12, NK27-31S-R x 1 Weight: 1.2kg</p> 	<p>12J12N2 Connector: XLR3-31-F77 x 12, XLR3-32-F77 x 12, NK27-32S-R x 1 Weight: 2.1kg</p>  <p>12J12N1 Connector: XLR3-31-F77 x 12, XLR3-32-F77 x 12, NK27-31S-R x 1 Weight: 2.1kg</p> 	<p>12J12N12 Connector: XLR3-31-F77 x 12, XLR3-32-F77 x 12, NK27-31S-R x 1, NK27-32S-R x 1 Weight: 2.2kg</p> 
<p>16S1F2 Connector: XLR3-11C x 16, FK37-22C-7/8-R Cable: L-4E5C (black) 1.5m Weight: 1.9kg</p>  <p>16S2F1 Connector: XLR3-12C x 16, FK37-21C-7/8-R Cable: L-4E5C (black) 1.5m Weight: 1.7kg</p> 	<p>16B1F2 Connector: XLR3-31-F77 x 16, FK37-32S-R x 1 Weight: 1.6kg</p>  <p>16B2F1 Connector: XLR3-32-F77 x 16, FK37-31S-R x 1 Weight: 1.3kg</p> 	<p>16J12F2 Connector: XLR3-31-F77 x 16, XLR3-32-F77 x 16, FK37-32S-R x 1 Weight: 2.5kg</p>  <p>16J12F1 Connector: XLR3-31-F77 x 16, XLR3-32-F77 x 16, FK37-31S-R x 1 Weight: 2.5kg</p> 	<p>16J12F12 Connector: XLR3-31-F77 x 16, XLR3-32-F77 x 16, FK37-31S-R x 1, FK37-32S-R x 1 Weight: 2.6kg</p> 
<p>24S1MS2 Connector: XLR3-11C x 24, D/MS3101A32A-10P Cable: L-4E5C (black) 2m</p>  <p>24S2MS2 Connector: XLR3-12C x 24, D/MS3101A32A-10P Cable: L-4E5C (black) 2m</p> 		<p>24B12MS Connector: XLR3-31-F77 x 24 (on top), XLR3-32-F77 x 24 (12 on each side), D/MS3102A32A-10P Weight: 2.7kg</p> 	<p>24B12MSW Connector: XLR3-31-F77 x 24 (on top), XLR3-32-F77 x 24 (12 on each side), D/MS3102A32A-10P x 2 Weight: 3.0kg</p> 
<p>32S1MS2 Connector: XLR3-11C x 32, D/MS3101A36-73P Cable: L-4E5C (black) 2m</p>  <p>32S2MS2 Connector: XLR3-12C x 32, D/MS3101A36-73P Cable: L-4E5C (black) 2m</p> 		<p>32B12MS Connector: XLR3-31-F77 x 32, XLR3-32-F77 x 32, D/MS3102A36-73P Weight: 5.3kg</p>  <p>32B12MWF11 Connector: XLR3-31-F77 x 32, XLR3-32-F77 x 32, D/MS3102A36-73P x 2, FK37-31S-R x 2 Weight: 6.0kg</p> 	<p>32B12MSW Connector: XLR3-31-F77 x 32, XLR3-32-F77 x 32, D/MS3102A36-73P x 2 Weight: 5.5kg</p>  <p>32B12MF11 Connector: XLR3-31-F77 x 32, XLR3-32-F77 x 32, D/MS3102A36-73P x 1, FK37-31S-R x 2 Weight: 5.7kg</p> 

Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

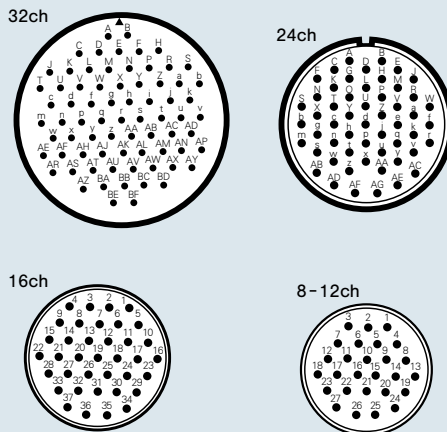
Cable Assemblies

Multichannel Systems

Pin Assignments, Reels

Multichannel Connector Pin Assignments

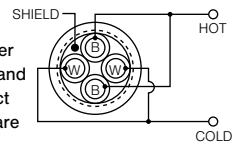
Ch No.	Cable Unit Identification		32ch		24ch		16ch		8ch / 12ch		
	L-4E3	M202	D/MS3102A36-73 D/MS3106B36-73		D/MS3102A32A-10 D/MS3106B32A-10		FK37		NK27		
	Spiral Marker Color	Insulator Color Identifying Color Common Identifying Color	HOT	COLD	HOT	COLD	HOT	COLD	HOT	COLD	
1	RED	RED • WHT	A	B	A	B	1	2	1	3	
2	BLU	BLU •	C	D	C	D	3	4	4	5	
3	YEL	YEL •	F	H	F	G	5	6	6	7	
4	GRN	GRN •	J	K	H	J	8	9	8	9	
5	BRN	BRN •	L	M	K	L	10	11	11	12	
6	N/A	GRY •	N	P	N	O	12	13	13	14	
7	BLU • BLK	BLU • BLK	R	S	P	R	14	15	15	16	
8	YEL • BLK	YEL •	T	U	S	T	16	17	17	18	
9	GRN • BLK	GRN •	V	W	U	V	21	22	19	20	
10	BRN • BLK	BRN •	Y	Z	X	Y	23	24	22	23	
11	BLK	GRY •	a	b	Z	a	25	26	24	25	
12	BLU • ORN	BLU • ORN	c	d	b	c	27	28	26	27	
13	YEL • ORN	YEL •	f	g	d	e	29	30	SHIELD		
14	GRN • ORN	GRN •	h	i	g	h	32	33	10		
15	BRN • ORN	BRN •	j	k	j	k	34	35			
16	ORN	GRY •	m	n	m	n	36	37			
17	BLU • PNK	BLU • PNK	u	v	p	q	SHIELD				
18	YEL • PNK	YEL •	w	x	s	t	19				
19	GRN • PNK	GRN •	y	z	u	v					
20	BRN • PNK	BRN •	AA	AB	w	x					
21	PNK	GRY •	AC	AD	AB	z					
22	BLU • WHT	BLU • RED	AE	AF	AA	AC					
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24	GRN • WHT	GRN •	AL	AM	AG	AE					
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26	—	GRY •	AR	AS	E						
27	—	YEL • BLU	AT	AU							
28	—	GRN •	AV	AW							
29	—	BRN •	AX	AY							
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32	—	GRY •	BE	BF							
			SHIELD								
			E	q	t						
			X	r	AK						
			p	s	BB						



■ Connection Method

L-4E3 Types:

Identify the channel number by the color of the spiral marker on the inner jacket (gray). The unit is 4-core construction and the insulator colors are blue, blue, white, and white. Connect these with the same colored cores, so that the blue cores are connected to Hot and the white cores to Cold.



M202 Types:

The unit is 2-core construction, with the channel number identified by the insulator color (a combination of the identifying color and common identifying color). Connect the identifying color core to Hot, and the common identifying color core to Cold.

■ Connections to XLR Connectors

Polarity	HOT	COLD	SHIELD
Pin No.	2	3	1

Lightweight Cable Reels

Lightweight plastic cable reels made by Schill™

Model	Flange Dim.	Description	Weight
RGT310.RM	310 mm	with auxiliary reel	1.8 kg
RGT380.RM	380 mm		4.8 kg
RGT310.MFK	310 mm	with latching door	1.4 kg
RGT380.MFK	380 mm		4.3 kg

Color: dark blue

- Canare and Schill™ collaboration
- *Schill™ is a trademark of Schill GmbH & Co. KG
- Easy to carry around
- High quality resin: durable, weatherproof and lightweight.
- Locking brake
- Latching door type (MFK) allows you to store cable connector inside reel.
- Canare special colored flange
- Rough estimate of maximum cable lengths (cable O.D.)
- RGT310: L-4E6S 120 m (6 mm)
- RGT380: L-5CFW 130 m (7.7 mm)
- RJC6A-4P-SFM 110m (8.6 mm)
- LF-2SM9N 100m (9.2 mm)



RGT310.RM

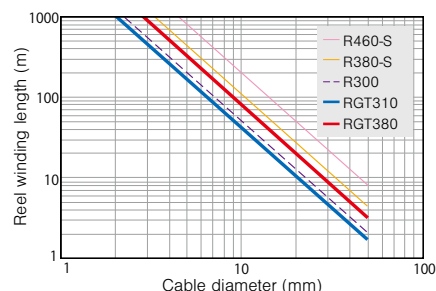
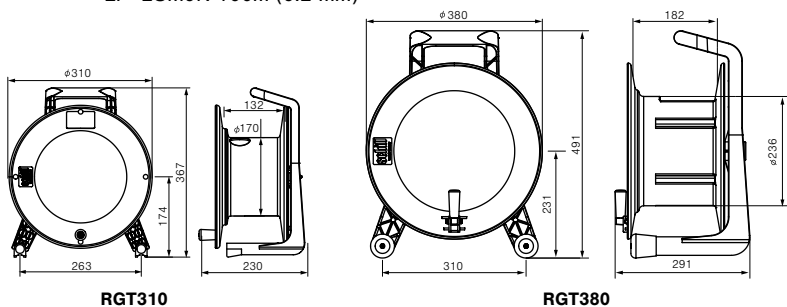


RGT380.MFK



RGT380.MFK
door open

Website



Cable winding length reference chart

Cable Reels

Dependable cable reels Dependable steel reels with 3-speed brake

Model	Flange Dim.	Description	Feature	Weight
R300-S	300 mm	with auxiliary reel	stackable	4.6 kg
R380-S	380 mm		w/caster	8.3 kg
R460-S	460 mm		w/caster	9.9 kg
R300	300 mm	cable hole on hub (no exit)	stackable	4.3 kg
R300-L	300 mm	connector trench on hub (no holes)	stackable	4.4 kg
R300-CN	300 mm	XLR3 receptacles on hub and flange	stackable	4.6 kg
R300-BN	300 mm	BNC receptacles on hub and flange	stackable	4.6 kg

Color: black

- 3-speed brake : lock/soft/free
- Oilless bearing
- Tubular steel E brace construction
- Parallel wired M & F XLR3s for genderless connection (R300-CN)

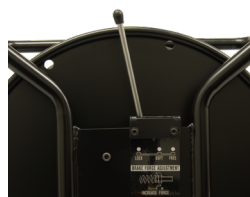
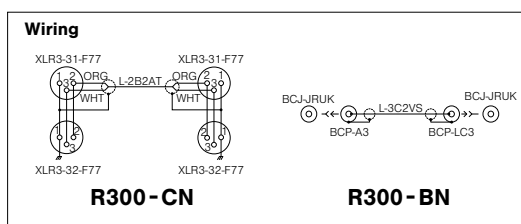
Website



R460-S



R300-S



3-speed brake

Reels with Cable Assemblies

Cable reels with detachable cables

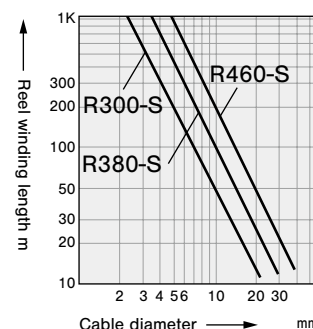
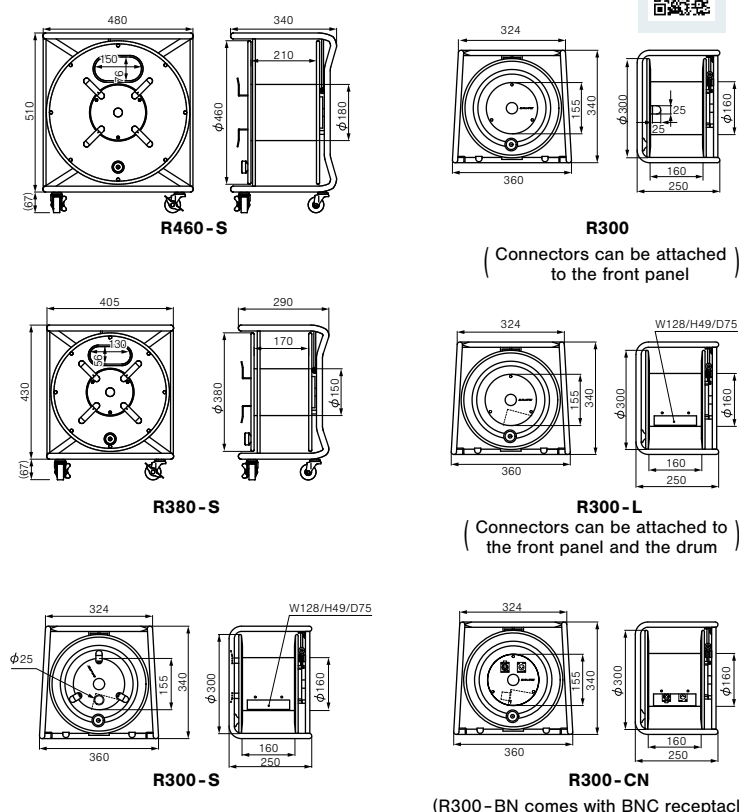
Model	Cable reel	Description			Weight (kg)
		Inner end	Cable	Outer end	
CR100-CN	R300-CN	XLR3-12C	L-4E6S(100m)	XLR3-11C	9.6
CR100-S	R300-S	XLR3-12C	L-4E6S(100m)	XLR3-11C	9.6
CR90-BN	R300-BN	BCP-H5B	L-5C2VS(90m)	BCP-H5B	10.5

Website



CR100-CN

Dimensions



Cable winding length reference chart

<Wind length conversion formula>

$$R300-S \text{ (S, L, CN)} \quad L = \frac{8448}{D^2} \times 0.6 \text{ (m)} \quad R460-S \quad L = \frac{33852}{D^2} \times 0.6 \text{ (m)}$$

$$R380-S \quad L = \frac{18207}{D^2} \times 0.6 \text{ (m)} \quad \begin{matrix} D: \text{cable outer diameter (mm)} \\ L: \text{wind length} \end{matrix}$$

R300-CN
(R300-BN comes with BNC receptacles)

Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Cable Assemblies


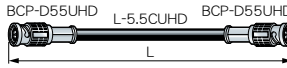
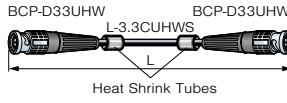
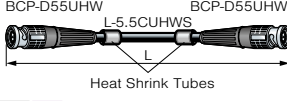
BNC

- High quality and reliable Canare assemblies are ideal for any interconnection including broadcast, professional A/V, and telecommunication.
- Custom assembly configurations can be special ordered at affordable cost and quick lead-time.

Website

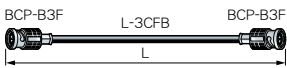
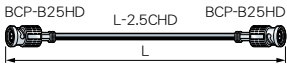
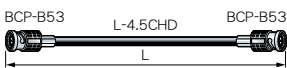


BNC 12G-SDI

Type	Model	Length (m)
BNC (M) - BNC (M) Crimp For fixed installation 	D3.3UHDC005E	0.5
	D3.3UHDC01E	1
	D3.3UHDC015E	1.5
	D3.3UHDC02E	2
	D3.3UHDC03E	3
	D3.3UHDC05E	5
	D3.3UHDC10E	10
BNC (M) - BNC (M) Crimp For fixed installation 	D5.5UHDC01E	1
	D5.5UHDC03E	3
	D5.5UHDC05E	5
	D5.5UHDC10E	10
	D5.5UHDC20E	20
	D5.5UHDC30E	30
	D5.5UHDC50E	50
	D5.5UHDC70E	70
D5.5UHDC100E	100	
BNC (M) - BNC (M) Crimp For mobile applications 	D3.3UHW005-S	0.5
	D3.3UHW01-S	1
	D3.3UHW02-S	2
	D3.3UHW03-S	3
	D3.3UHW05-S	5
	D3.3UHW10-S	10
BNC (M) - BNC (M) Crimp For mobile applications 	D5.5UHW10-S	10
	D5.5UHW20-S	20
	D5.5UHW30-S	30
	D5.5UHW50-S	50
	One tube for lengths <1m	

BNC


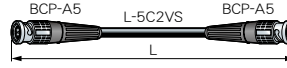
For fixed installation

Type	Model	Length (m)
BNC (M) - BNC (M) Crimp 	D3FBC005E	0.5
	D3FBC01E	1
	D3FBC015E	1.5
	D3FBC02E	2
	D3FBC03E	3
	D3FBC05E	5
	D3FBC10E	10
BNC (M) - BNC (M) Crimp 	D2.5HDC005E	0.5
	D2.5HDC01E	1
	D2.5HDC015E	1.5
	D2.5HDC02E	2
	D2.5HDC03E	3
	D2.5HDC05E	5
	D2.5HDC10E	10
	D4.5HDC03E	3
BNC (M) - BNC (M) Crimp 	D4.5HDC05E	5
	D4.5HDC10E	10
	D4.5HDC15E	15
	D4.5HDC20E	20



BNC

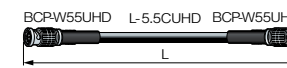
For mobile applications

Type	Model	Length (m)
BNC (M) - BNC (M) Crimp 	D3C005A-S	0.5
	D3C01A-S	1
	D3C02A-S	2
	D3C03A-S	3
	D3C05A-S	5
	D3C10A-S	10
BNC (M) - BNC (M) Crimp 	D5C005A-S	0.5
	D5C01A-S	1
	D5C015A-S	1.5
	D5C03A-S	3
	D5C05A-S	5
	D5C10A-S	10
D5C15A-S	15	
D5C20A-S	20	

Website

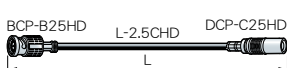
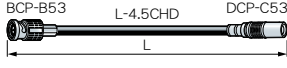


BNC water-proof

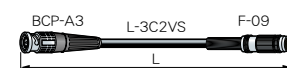
Type	Model	Length (m)
BNC (M) - BNC (M) 12G-SDI 	WD5.5UHDC20	20
	WD5.5UHDC30	30
	WD5.5UHDC50	50

Sold separately: BNC Cap: BCP-DC (20 pcs.) • BCP-W55UHD is not for sale.

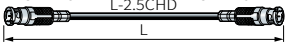




BNC - DIN

Type	Model	Length (m)
BNC (M) - DIN (M) Crimp 	D2.5HDC005E-D	0.5
	D2.5HDC01E-D	1
	D2.5HDC015E-D	1.5
	D2.5HDC02E-D	2
	D2.5HDC03E-D	3
	D2.5HDC05E-D	5
	D2.5HDC10E-D	10
BNC (M) - DIN (M) Crimp 	D4.5HDC03E-D	3
	D4.5HDC05E-D	5
	D4.5HDC10E-D	10
	D4.5HDC15E-D	15
	D4.5HDC20E-D	20

BNC - RCA

Type	Model	Length (m)
BNC (M) - RCA (M) 	D3C01A-SR	1
	D3C03A-SR	3
	D3C05A-SR	5

Micro BNC

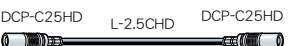

Type	Model	Length (m)
Micro BNC (M) - Micro BNC (M) Crimp 12G-SDI 	DM2.5HDC005A	0.5
	DM2.5HDC01A	1
	DM2.5HDC015A	1.5
	DM2.5HDC02A	2
	DM2.5HDC03A	3
Micro BNC (M) - BNC (M) Crimp 	DM2.5HDC005EA-BP	0.5
	DM2.5HDC01EA-BP	1
	DM2.5HDC015EA-BP	1.5
	DM2.5HDC02EA-BP	2
	DM2.5HDC03EA-BP	3
Micro BNC (M) - Micro BNC (M) Crimp 12G-SDI 	DM3.3UHDC03A	3
	DM3.3UHDC05A	5
Micro BNC (M) - BNC (M) Crimp 12G-SDI 	DM3.3UHDC03EA-BP	3
	DM3.3UHDC05EA-BP	5
Micro BNC (M) - BNC (F) Crimp 12G-SDI 	DM2.5HWSC002EA-BJ	0.2



DM2.5HDC**A

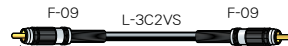
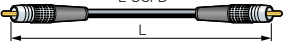


DIN

Type	Model	Length (m)
DIN (M) - DIN (M) Crimp 	DN2.5HDC005	0.5
	DN2.5HDC01	1
	DN2.5HDC015	1.5
	DN2.5HDC02	2
	DN2.5HDC03	3
	DN2.5HDC05	5
	DN2.5HDC10	10
	DN4.5HDC03	3
	DN4.5HDC05	5
	DN4.5HDC10	10
DIN (M) - BNC (F) Crimp 	DN2.5HWSC002E-BJ	0.2



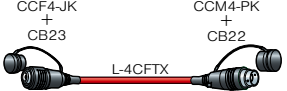
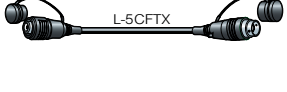
RCA (Video)

Type	Model	Length (m)
RCA (M) - RCA (M) Solder 	DRC01-S	1
	DRC03-S	3
	DRC05-S	5
RCA (M) - RCA (M) Crimp 	DRC10-F3	10
	DRC15-F3	15
	DRC20-F3	20
	DRC30-F3	30
	DRC40-F3	40



Triax

Cables used for connections such as those between broadcast cameras and CCUs.

Type	Model	Length (m)
Triaxial (F) - Triaxial (M) U.S. preferred type 	TXC10-K	10
	TXC20-K	20
	TXC30-K	30
	TXC50-K	50
	TXC100-K	100
	TXC150-K	150
Triaxial (F) - Triaxial (M) EU preferred type 	TXC10-F	10
	TXC20-F	20
	TXC30-F	30
	TXC50-F	50
	TXC100-F	100
	TXC150-F	150
TXC200-F	200	



Cable Assemblies

Ethernet

■ Cat6A (Standard U/FTP)

Type	Model	Length (m)
RJ45 - RJ45 RJSP-6AFT RJC6A-F4PH RJSP-6AFT T568B (Straight)	NC6AAT-30	30
	NC6AAT-50	50
	NC6AAT-70	70
	NC6AAT-100	100

■ Cat6A (Standard F/UTP)

Type	Model	Length (m)	
RJ45 - RJ45 RJC6A-4P-F-SD T568B (Straight)	NC6AFSD-01	1	
	NC6AFSD-015	1.5	
	NC6AFSD-02	2	
	NC6AFSD-03	3	
	NC6AFSD-05	5	
	NC6AFSD-07	7	
	NC6AFSD-10	10	
	NC6AFSD-15	15	
	NC6AFSD-20	20	
	NC6AFSD-25	25	
	NC6AFSD-30	30	
	RJ45 - RJ45 RJSP-6A RJC6A-4P-FA RJSP-6A T568B (Straight)	NC6AF-30 New	30
		NC6AF-50 New	50
NC6AF-70 New		70	
NC6AF-100 New	100		

• RJC6A-4P-F-SD is not for sale.

Website



■ Cat6 (Standard F/UTP)

Type	Model	Length (m)
RJ45 - RJ45 RJC6-4P-F T568B (Straight)	NC6F-01	1
	NC6F-015	1.5
	NC6F-02	2
	NC6F-03	3
	NC6F-05	5
	NC6F-07	7
	NC6F-10	10
	NC6F-15	15
	NC6F-20	20
	NC6F-25	25
	NC6F-30	30
	NC6F-35	35
	NC6F-40	40
NC6F-45	45	
NC6F-50	50	
NC6F-70	70	
NC6F-100	100	

Website



■ Cat6 (Standard U/UTP)

Type	Model	Length (m)
RJ45 - RJ45 RJC6-4P+ T568B (Straight)	NC6-003	0.3
	NC6-005	0.5
	NC6-01	1
	NC6-015	1.5
	NC6-02	2
	NC6-03	3
	NC6-05	5
	NC6-07	7
	NC6-10	10
	NC6-15	15
	NC6-20	20
	NC6-25	25
	NC6-30	30
	NC6-35	35
	NC6-40	40
	NC6-45	45
	NC6-50	50

Website



■ Cat6A (Flexible SF/UTP)

Type	Model	Length (m)
etherCON - etherCON NE8MX6-B-T RJC6A-4P-SFM NE8MX6-B-T T568B (Straight)	ETC6A-03-N	3
	ETC6A-05-N	5
	ETC6A-10-N	10
	ETC6A-20-N	20
	ETC6A-30-N	30
	ETC6A-50-N	50
	ETC6A-70-N	70
RJ45 - RJ45 RJC6A-4P-SFM T568B (Straight)	ETC6A-03-T	3
	ETC6A-05-T	5
	ETC6A-10-T	10
	ETC6A-20-T	20
	ETC6A-30-T	30
	ETC6A-50-T	50
	ETC6A-70-T	70
etherCON - RJ45 NE8MX6-B-T RJC6A-4P-SFM RJ45 T568B (Straight)	ETC6A-01-TN	1
	ETC6A-02-TN	2
	ETC6A-03-TN	3
	ETC6A-05-TN	5
	ETC6A-10-TN	10
	ETC6A-20-TN	20
	ETC6A-30-TN	30
ETC6A-50-TN	50	

■ Cat5e (Standard U/UTP)

Type	Model	Length (m)
RJ45 - RJ45 RJC5E-4P+ T568B (Straight)	NC5E-003	0.3
	NC5E-005	0.5
	NC5E-01	1
	NC5E-015	1.5
	NC5E-02	2
	NC5E-03	3
	NC5E-05	5
	NC5E-07	7
	NC5E-10	10
	NC5E-15	15
	NC5E-20	20
	NC5E-25	25
	NC5E-30	30
	NC5E-35	35
	NC5E-40	40
NC5E-45	45	
NC5E-50	50	

Website



Website



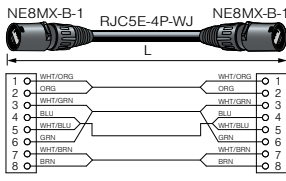
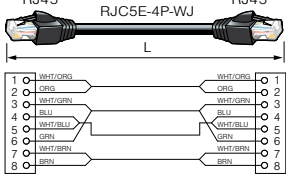
ETC6A-**-N



ETC6A-**-T

Cat5e (Flexible U/UTP)

Easy routing

Type	Model	Length (m)
etherCON - etherCON NE8MX-B-1 RJC5E-4P-WJ NE8MX-B-1 	ETC10L-B	10
	ETC30L-B	30
	ETC50L-B	50
	ETC70L-B	70
	ETC100L-B	100
RJ45 - RJ45 RJ45 RJC5E-4P-WJ RJ45 	ETC10L-M	10
	ETC30L-M	30
	ETC50L-M	50
	ETC70L-M	70
	ETC100L-M	100

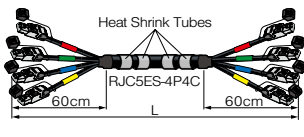
BLK T568B (Straight)

BLK T568B (Straight)

Website



Quad-Cat5e (Flexible U/UTP)

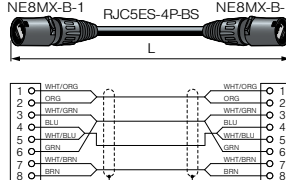
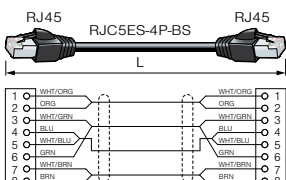
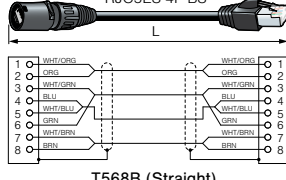
Type	Model	Length (m)
RJ45 - RJ45 	4ETCS-30-T	30
	4ETCS-50-T	50

BLK

Website



Cat5e (Flexible S/UTP) For short distance (max. 50 m)

Type	Model	Length (m)
etherCON - etherCON NE8MX-B-1 RJC5E-4P-BS NE8MX-B-1 	ETC003S-B	0.3
	ETC005S-B	0.5
	ETC01S-B	1
	ETC015S-B	1.5
	ETC02S-B	2
	ETC03S-B	3
	ETC05S-B	5
	ETC07S-B	7
	ETC10S-B	10
	ETC15S-B	15
RJ45 - RJ45 RJ45 RJC5E-4P-BS RJ45 	ETC003S-M	0.3
	ETC005S-M	0.5
	ETC01S-M	1
	ETC015S-M	1.5
	ETC02S-M	2
	ETC03S-M	3
	ETC05S-M	5
	ETC07S-M	7
	ETC10S-M	10
	ETC15S-M	15
etherCON - RJ45 NE8MX-B-1 RJC5E-4P-BS RJ45 	ETC01S-BM	1
	ETC02S-BM	2
	ETC03S-BM	3
	ETC05S-BM	5
	ETC10S-BM	10

BLK T568B (Straight)

BLK T568B (Straight)

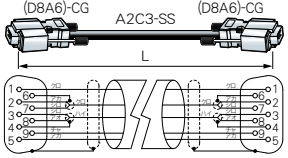
BLK T568B (Straight)

Website



RS422

Used for RS422 serial signals.

Type	Model	Length (m)
Dsub9P (M) - Dsub9P (M) 17JE-23090-02 (DBA6)-CG 17JE-23090-02 (DBA6)-CG A2C3-SS 	DC01-9JE22	1
	DC03-9JE22	3
	DC05-9JE22	5
	DC07-9JE22	7
	DC10-9JE22	10
	DC20-9JE22	20
	DC30-9JE22	30

BLK

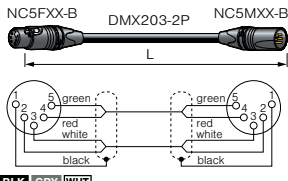
Screws : 2.6

Website

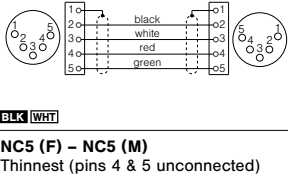


DMX

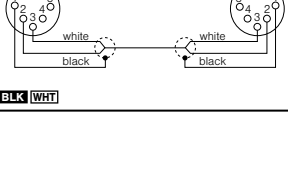
Used for controlling stage and studio lighting equipment.

Type	Model	Length (m)
NC5 (F) - NC5 (M) Standard NC5FXX-B DMX203-2P NC5MXX-B 	DMC01-B	1
	DMC03-B	3
	DMC05-B	5
	DMC10-B	10
	DMC20-B	20
	DMC30-B	30
	DMC50-B	50
	DMC100-B	100

BLK GRV WHT

Type	Model	Length (m)
NC5 (F) - NC5 (M) Thinner NC5FXX-B DMX403 NC5MXX-B 	DM4C01-B	1
	DM4C02-B	2
	DM4C03-B	3
	DM4C05-B	5
	DM4C10-B	10
	DM4C20-B	20
	DM4C30-B	30
	DM4C50-B	50
	DM4C100-B	100

BLK WHT

Type	Model	Length (m)
NC5 (F) - NC5 (M) Thinnest (pins 4 & 5 unconnected) NC5FXX-B DMX203 NC5MXX-B 	DM2C01-B	1
	DM2C02-B	2
	DM2C03-B	3
	DM2C05-B	5
	DM2C10-B	10
	DM2C20-B	20
	DM2C30-B	30
	DM2C50-B	50
	DM2C100-B	100

BLK WHT

Website



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

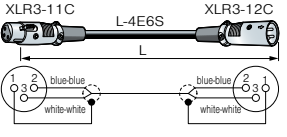
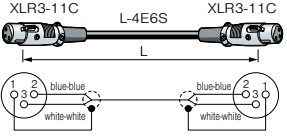
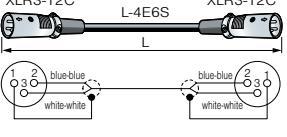
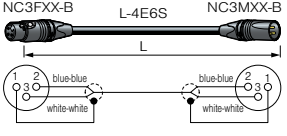
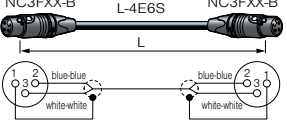
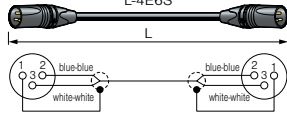
Multichannel Systems

Cable Assemblies

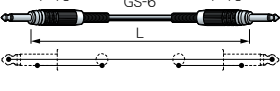
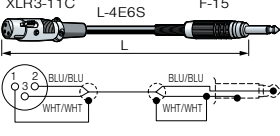
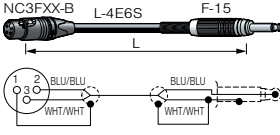
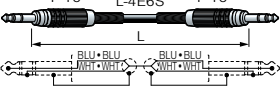
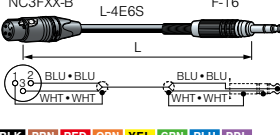
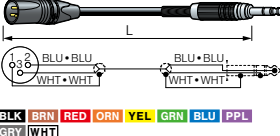
Cable Assemblies

XLR, Phone

XLR3

Type	Model	Length (m)
XLR3 (F) – XLR3 (M) 	EC003	0.3
	EC005	0.5
	EC01	1
	EC015	1.5
	EC02	2
	EC03	3
	EC05	5
	EC07	7
	EC10	10
	EC15	15
	EC20	20
	XLR3 (F) – XLR3 (F) 	EC003-X11
EC005-X11	0.5	
EC01-X11	1	
EC015-X11	1.5	
EC02-X11	2	
EC03-X11	3	
EC05-X11	5	
EC10-X11	10	
XLR3 (M) – XLR3 (M) 	EC003-X22	0.3
EC005-X22	0.5	
EC01-X22	1	
EC015-X22	1.5	
EC02-X22	2	
EC03-X22	3	
EC05-X22	5	
EC10-X22	10	
NC3 (F) – NC3 (M) 	EC003-B	0.3
EC005-B	0.5	
EC01-B	1	
EC015-B	1.5	
EC02-B	2	
EC03-B	3	
EC05-B	5	
EC07-B	7	
EC10-B	10	
EC15-B	15	
EC20-B	20	
NC3 (F) – NC3 (F) 	EC003-B11	0.3
EC005-B11	0.5	
EC01-B11	1	
EC015-B11	1.5	
EC02-B11	2	
EC03-B11	3	
EC05-B11	5	
EC10-B11	10	
NC3 (M) – NC3 (M) 	EC003-B22	0.3
EC005-B22	0.5	
EC01-B22	1	
EC015-B22	1.5	
EC02-B22	2	
EC03-B22	3	
EC05-B22	5	
EC10-B22	10	

Phone

Type	Model	Length (m)
Mono Phone (M) - Mono Phone (M) 	LC018	1.8
	LC03	3
	LC05	5
XLR3 (F) – Mono Phone (M) 	PC03	3
PC05	5	
PC07	7	
PC10	10	
NC3 (F) – Mono Phone (M) 	PC03-B	3
PC05-B	5	
PC07-B	7	
Stereo Phone (M) – Stereo Phone (M) 	SPC01	1
	SPC03	3
	SPC05	5
	SPC07	7
	SPC10	10
NC3 (F) – Stereo Phone (M) 	SPC02-B1	2
	SPC05-B1	5
NC3 (M) – Stereo Phone (M) 	SPC02-B2	2
	SPC05-B2	5

Website



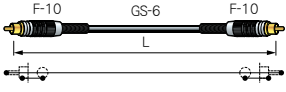
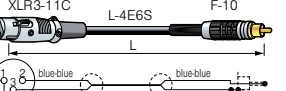
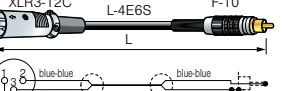
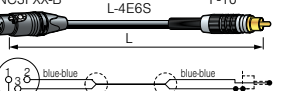

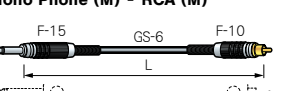
XLR3

Website

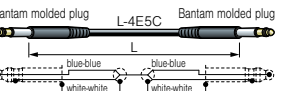



Phone

RCA (Audio)

Type	Model	Length (m)
RCA (M) – RCA (M)  BLK RED ORN YEL GRN BLU	RC018	1.8
	RC03	3
	RC05	5
XLR3 (F) – RCA (M)  BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	RC02 - X1	2
	RC05 - X1	5
XLR3 (M) – RCA (M)  BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	RC02 - X2	2
	RC05 - X2	5
NC3 (F) – RCA (M)  BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	RC02 - B1	2
	RC05 - B1	5
NC3 (M) – RCA (M)  BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	RC02 - B2	2
	RC05 - B2	5
Mono Phone (M) - RCA (M)  BLK RED ORN YEL GRN BLU	QC018	1.8
	QC03	3
	QC05	5

Audio Patch (Bantam)

Type	Model	Length (m)
Bantam (M) – Bantam (M)  BLK RED ORN YEL GRN BLU GRY	BC003M	0.3
	BC006M	0.6
	BC009M	0.9
XLR3 (F) – Bantam (M)  BLK RED ORN YEL GRN BLU GRY	BC02M - X1	2
	BC02M - X2	2



BC003M

Website



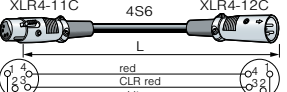
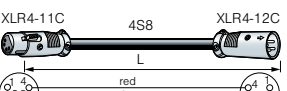
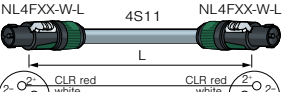



RCA Audio

Website



Bantam

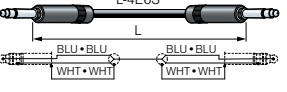
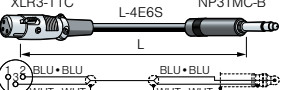
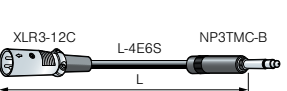
Speaker

Type	Model	Length (m)
XLR4 (F) – XLR4 (M)  BLK RED BLU GRY WHT	SC003	0.3
	SC005	0.5
	SC01	1
	SC05	5
	SC10	10
XLR4 (F) – XLR4 (M)  BLK GRY	SC05 - S8	5
	SC10 - S8	10
NL4 – NL4  BLK GRY	SC005A - NL	0.5
	SC01A - NL	1
NL8 – NL8  BLK	SC02A - NL	2
	SC05A - NL	5
	SC10A - NL	10
	SC15A - NL	15
	SC20A - NL	20
	SC30A - NL	30
	SC03 - 8NL	3
	SC05 - 8NL	5
	SC10 - 8NL	10
	SC20 - 8NL	20
	SC30 - 8NL	30
	SC50 - 8NL	50

Website



Audio Patch (Skini/Maxi)

Type	Model	Length (m)
Skini/Maxi (M) – Skini/Maxi (M)  BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	TC003B	0.3
	TC005B	0.5
	TC01B	1
XLR3 (F) – Skini/Maxi (M)  BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	TC02B - X1	2
	TC05B - X1	5
XLR3 (M) – Skini/Maxi (M)  BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	TC02B - X2	2
	TC05B - X2	5



TC003B

Website



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

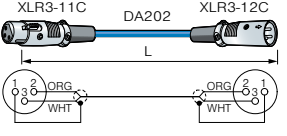
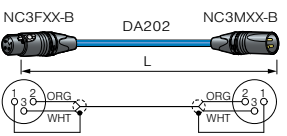
Multichannel Systems

Cable Assemblies

Cable Assemblies

Digital Audio, Analog Audio

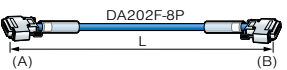
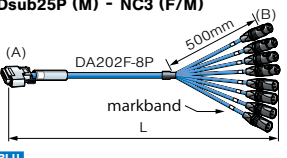
■ AES/EBU Digital Audio

Type	Model	Length (m)
XLR3 (F) - XLR3 (M) 	DAC03	3
	DAC05	5
	DAC10	10
	DAC20	20
	DAC30	30
	BLU	
NC3 (F) - NC3 (M) 	DAC003 - B	0.3
	DAC005 - B	0.5
	DAC01 - B	1
	DAC02 - B	2
	DAC03 - B	3
	DAC05 - B	5
	DAC10 - B	10
	DAC20 - B	20
	DAC30 - B	30
	BLU	

Website



■ AES/EBU Digital Audio (Multi)

Type	Model	Length (m)
Dsub25P (M) - Dsub25P (M) 	8DAC02 - ##	2
	8DAC03 - ##	3
	8DAC05 - ##	5
	8DAC07 - ##	7
	8DAC10 - ##	10
	8DAC30 - ##	30
BLU		
Dsub25P (M) - NC3 (F/M) 	8DACS02 - #B12	2
	8DACS03 - #B12	3
	8DACS05 - #B12	5
	8DACS07 - #B12	7
	8DACS10 - #B12	10
	8DACS30 - #B12	30
BLU		

* Please use following information to fill in the '#' in the model above.

Website



<Ordering Information>

Model	Brands (ref.)	A - side		B - side	
		Screws	Wiring	Screws	Wiring
8DAC** - DD	Digidesign	4 - 40	Individual - A	4 - 40	Individual - B
8DAC** - TT	TEAC	4 - 40	Individual - A	4 - 40	Individual - B
8DAC** - YY	YAMAHA	M2.6	Common - A	M2.6	Common - B
8DAC** - DT	Digidesign - TEAC	4 - 40	Individual - A	4 - 40	Individual - B
8DAC** - DY	Digidesign - YAMAHA	4 - 40	Individual - A	M2.6	Common - B
8DAC** - TY	TEAC - YAMAHA	4 - 40	Individual - A	M2.6	Common - B
8DACS** - DB12	Digidesign	4 - 40	Individual - A	N/A	2: Hot 3: Cold
8DACS** - TB12	TEAC	4 - 40	Individual - A	N/A	1: Shield
8DACS** - YB12	YAMAHA	M2.6	Common - A	N/A	

<Wiring>

Individual - A

Ch. No.	Color Coding	HOT	COLD	SHIELD	N.C.
1	BLU/BRN	24	12	25	13
2	BLU/RED	10	23	11	
3	BLU/ORG	21	9	22	
4	BLU/YEL	7	20	8	
5	BLU/GRN	18	6	19	
6	BLU/-	4	17	5	
7	BLU/PPL	15	3	16	
8	BLU/GRY	1	14	2	

Individual - B

Ch. No.	Color Coding	HOT	COLD	SHIELD	N.C.
1	BLU/BRN	18	6	19	13
2	BLU/RED	4	17	5	
3	BLU/ORG	15	3	16	
4	BLU/YEL	1	14	2	
5	BLU/GRN	24	12	25	
6	BLU/-	10	23	11	
7	BLU/PPL	21	9	22	
8	BLU/GRY	7	20	8	

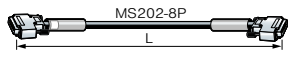
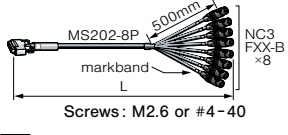
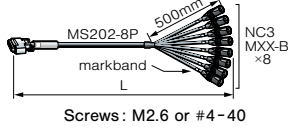
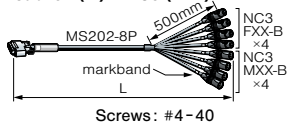
Common - A

Ch. No.	Color Coding	HOT	COLD	SHIELD	N.C.
1	BLU/BRN	1	14	10	9
2	BLU/RED	2	15	12	
3	BLU/ORG	3	16	13	
4	BLU/YEL	4	17	22	
5	BLU/GRN	5	18	23	
6	BLU/-	6	19	24	
7	BLU/PPL	7	20	25	
8	BLU/GRY	8	21	25	

Common - B

Ch. No.	Color Coding	HOT	COLD	SHIELD	N.C.
1	BLU/BRN	5	18	10	9
2	BLU/RED	6	19	12	
3	BLU/ORG	7	20	13	
4	BLU/YEL	8	21	22	
5	BLU/GRN	1	14	23	
6	BLU/-	2	15	24	
7	BLU/PPL	3	16	25	
8	BLU/GRY	4	17	25	

■ Analog Audio (Multi)

Type	Model	Length (m)
Dsub25P (M) - Dsub25P (M) 	8MC02 - #	2
	8MC03 - #	3
	8MC05 - #	5
	8MC07 - #	7
	8MC10 - #	10
	8MC30 - #	30
BLK		
Dsub25P (M) - NC3 (F) 	8MCS02 - #B1	2
	8MCS03 - #B1	3
	8MCS05 - #B1	5
	8MCS07 - #B1	7
	8MCS10 - #B1	10
	8MCS30 - #B1	30
BLK		
Dsub25P (M) - NC3 (M) 	8MCS02 - #B2	2
	8MCS03 - #B2	3
	8MCS05 - #B2	5
	8MCS07 - #B2	7
	8MCS10 - #B2	10
	8MCS30 - #B2	30
BLK		
Dsub25P (M) - NC3 (F/M) 	8MCS02 - CB12	2
	8MCS03 - CB12	3
	8MCS05 - CB12	5
	8MCS07 - CB12	7
	8MCS10 - CB12	10
	8MCS30 - CB12	30
BLK		

* Please choose between A: M2.6 and C: #4-40, and fill in the '#' in the model with A or C. e.g. 8MC02-A, 8MCS02-CB1

Website

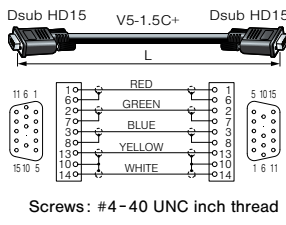
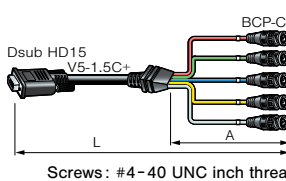
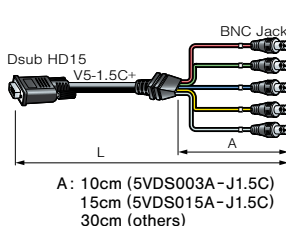



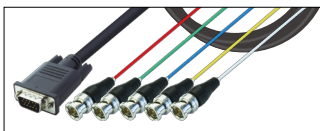
<Wiring for 8MC/8MCS>

Ch. No.	Color Coding	Dsub25P				NC3		
		HOT	COLD	SHIELD	N.C.	HOT	COLD	SHIELD
1	BLK/BRN	24	12	25	13	2	3	1
2	BLK/RED	10	23	11		2	3	1
3	BLK/ORG	21	9	22		2	3	1
4	BLK/YEL	7	20	8		2	3	1
5	BLK/GRN	18	6	19		2	3	1
6	BLK/BLU	4	17	5		2	3	1
7	BLK/PPL	15	3	16		2	3	1
8	BLK/GRY	1	14	2		2	3	1

VGA

Not compatible with VESA-DDC Plug and Play.

Type	Model	Length (m)
HD-15 (M) – HD-15 (M)  <p>Screws: #4-40 UNC inch thread</p>	5VDC015A-1.5C	1.5
	5VDC02A-1.5C	2
	5VDC03A-1.5C	3
	5VDC05A-1.5C	5
	5VDC10A-1.5C	10
	5VDC15A-1.5C	15
	5VDC20A-1.5C	20
	BLK	
HD-15 (M) – BNC (M)  <p>Screws: #4-40 UNC inch thread</p> <p>A: 15cm (5VDS015A-1.5C) 30cm (others)</p>	5VDS015A-1.5C	1.5
	5VDS02A-1.5C	2
	5VDS03A-1.5C	3
	5VDS05A-1.5C	5
	5VDS10A-1.5C	10
BLK		
HD-15 (M) – BNC (F)  <p>Screws: #4-40 UNC inch thread</p> <p>A: 10cm (5VDS003A-J1.5C) 15cm (5VDS015A-J1.5C) 30cm (others)</p>	5VDS003A-J1.5C	0.3
	5VDS015A-J1.5C	1.5
	5VDS02A-J1.5C	2
	5VDS03A-J1.5C	3
	5VDS05A-J1.5C	5
	5VDS10A-J1.5C	10
BLK		
HD-15 (M) – BNC (F)  <p>Lock nuts included</p>	HDR15F-J1.5CA	0.13



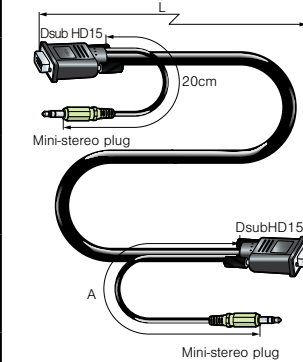
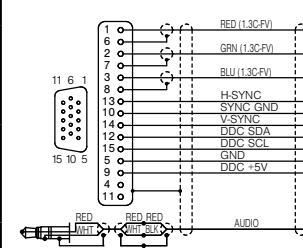
5VDS02A-1.5C

Website



VGA with Audio

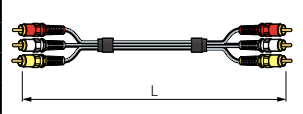
VESA-DDC Plug and Play compliant

Type	Model	Length (m)	
HD-15 (M) – HD-15 (M) 3.5 mm TRS  <p>A: 200 mm (A1VGA005) 600 mm (others)</p>  <p>Screws: #4-40 UNC inch thread</p>	A1VGA005	0.5	
	A1VGA0075	0.75	
	A1VGA01	1	
	A1VGA015	1.5	
	A1VGA02	2	
	A1VGA03	3	
	A1VGA05	5	
	A1VGA10	10	
	BLK		

Website



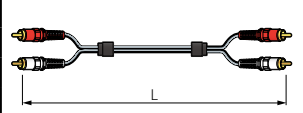
3 RCA Video & Audio

Type	Model	Length (m)
RCA - RCA 	3RCS003	0.3
	3RCS005	0.5
	3RCS01	1
	3RCS015	1.5
	3RCS02	2
	3RCS03	3
	3RCS05	5
	3RCS10	10
	3RCS15	15
	3RCS20	20
	3RCS30	30
BLK		

Website



2 RCA Stereo Audio

Type	Model	Length (m)
RCA - RCA 	2RCS003	0.3
	2RCS005	0.5
	2RCS01	1
	2RCS015	1.5
	2RCS02	2
	2RCS03	3
	2RCS05	5
	2RCS10	10
	2RCS15	15
	2RCS20	20
2RCS30	30	
BLK		

Website



Technical Trend

IP Connectivity Products

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Cable Assemblies

HDMI

Overview

4K/8K HDMI solution has been adopted by a lot of applications such as digital signage, video conference systems, streaming video, e-sports, live events, and even more for professional broadcasting. Canare's HDMI product line offers reliable and fully knowledgeable products based on more than 10 years of experience in HDMI business.



Product Finder

Model	HDM***U	page 98	HDM***P	page 98	HDM***P-A6	page 99	HDM***AE HDM**H	page 98	HDM**H-A	page 98	HDM10M-EQ	page 98
Appearance												
Description	ULTRA High Speed HDMI Cable		PREMIUM High Speed HDMI Cable with Ethernet		High Speed HDMI Active Optical Cable		High Speed HDMI Cable with Ethernet (H Series)		High Speed HDMI Cable with Ethernet H Series		Active Durable High Speed HDMI Cable	
Bit Rate	48Gbps		18Gbps		18Gbps		10.2Gbps		10.2Gbps		10.2Gbps	
Frame Rate	8K	60p	N/A		N/A		N/A		N/A		N/A	
	4K	120p	60p		60p		30p		30p		30p	
High Dynamic Range	Dynamic HDR/HDR		HDR		HDR		N/A		N/A		N/A	
Audio Return Channel	eARC/ARC		ARC		ARC * *30 - 100m not Supported		ARC		ARC		ARC	
Length	1 - 7m		0.6 - 9m		5 - 100m		0.6 - 10m		15m, 20m		10m	
O.D.	6.0 / 8.0 / 9.0mm		4.5 / 5.7 / 6.5 / 9.0mm		6.0mm		6.0 / 7.3 / 8.0mm		8.5mm		8.0mm	
Remarks	Supports all functions specified in HDMI 2.1a, passive copper cable, lengths up to 7m.		Supports all functions specified in HDMI 2.0, passive copper cable, lengths up to 9m.		Long distance up to 100m, built-in IC, one-directional, optical fiber, flexible cable.		Affordable solution for 4K@30p, passive copper cable, lengths up to 10m.		Lengths up to 20m, built-in IC, one-directional, active copper cable.		For mobile application, built-in IC, one-directional, flexible & durable copper cable, 10 meters only.	

Technical Note


HDMI 2.1 Specification

HDMI 2.1 increases bandwidth capability up to 48 Gbps. It highlights supporting ultra high video resolutions and refresh rates including 8K60p/4K120p, additionally Dynamic HDR.

Canare HDM***U series has qualified for The Ultra High Speed HDMI Certification Program. HDM***U is backwards compatible and can be used with the existing installed base of HDMI devices. The following table shows the entire functions that each HDMI device per version features.

	HDMI version						
	1	1.1	1.2-1.2a	1.3-1.3a	1.4-1.4b	2.0-2.0b	2.1
Full HD Blu-ray Disc and HD DVD video	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Consumer Electronic Control (CEC)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVD - Audio	No	Yes	Yes	Yes	Yes	Yes	Yes
Super Audio CD (DSD)	No	No	Yes	Yes	Yes	Yes	Yes
Auto lip-sync	No	No	No	Yes	Yes	Yes	Yes
Dolby TrueHD / DTS-HD Master Audio bitstream capable	No	No	No	Yes	Yes	Yes	Yes
Updated list of CEC commands	No	No	No	Yes	Yes	Yes	Yes
3D video	No	No	No	No	Yes	Yes	Yes
Ethernet channel (100 Mbit/s)	No	No	No	No	Yes	Yes	Yes
Audio return channel (ARC)	No	No	No	No	Yes	Yes	Yes
4 audio streams	No	No	No	No	No	Yes	Yes
2 video streams (Dual View)	No	No	No	No	No	Yes	Yes
Hybrid Log - Gamma (HLG) HDR OETF	No	No	No	No	No	Yes	Yes
Static HDR (HDR static metadata)	No	No	No	No	No	Yes	Yes
Dynamic HDR (HDR dynamic metadata)	No	No	No	No	No	No	Yes
Enhanced audio return channel (eARC)	No	No	No	No	No	No	Yes
Variable Refresh Rate (VRR)	No	No	No	No	No	No	Yes
Quick Media Switching (QMS)	No	No	No	No	No	No	Yes
Quick Frame Transport (QFT)	No	No	No	No	No	No	Yes
Auto Low Latency Mode (ALLM)	No	No	No	No	No	No	Yes
Display Stream Compression (DSC)	No	No	No	No	No	No	Yes

Ultra High Speed HDMI Cable


Type	Model	Length (m)	O.D. (mm)
	HDM01U	1	6.0
	HDM015U	1.5	
	HDM02U	2	
	HDM03U	3	
	HDM05U	5	8.0
	HDM07U	7	9.0

- Ultra High Speed HDMI Certification Program qualified
- 8K60p/4K120p, and 48 Gbps data rate support
- Improved finger grip connector design
- Simple package

Website



Premium High Speed HDMI Cable with Ethernet


Type	Model	Length (m)	O.D. (mm)
	HDM006P	0.6	4.5
	HDM01P	1	
	HDM015P	1.5	5.7
	HDM02P	2	
	HDM03P	3	
	HDM05P	5	6.5
	HDM07P	7	9.0
	HDM09P	9	

- Premium HDMI Cable Certification Program qualified
- 4K60p, and 18 Gbps data rate support
- Two jacket colors available

Website





High Speed HDMI Cable with Ethernet

Type	Model	Length (m)	O.D. (mm)
	HDM006AE	0.6	6.0
	HDM01AE	1	
	HDM015AE	1.5	
	HDM02AE	2	
	HDM03AE	3	
	HDM05AE	5	7.3


- 4K30p, and 10.2 Gbps data rate support
- Cost effective

High Speed HDMI Cable with Ethernet H Series

Type	Model	Length (m)	O.D. (mm)
	HDM07H	7	8.0
	HDM10H	10	
	HDM15H-A	15	8.5
	HDM20H-A	20	

- 4K30p, and 10.2 Gbps data rate support
- Reliabilities updated
- UL AWM 20276 VW-1
- Offering budget friendly solutions
- 15m and 20m cables for fixed installations featuring built-in IC

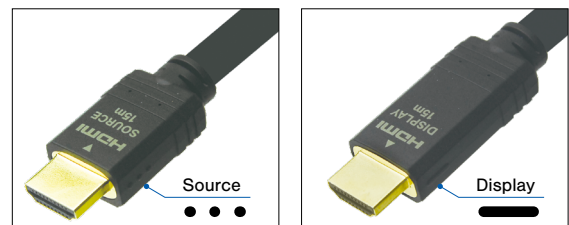
Active Durable High Speed HDMI Cable

Type	Model	Length (m)	O.D. (mm)
	HDM10M-EQ	10	8.0

HEC not supported Note: The cables are directional

- Ideal for mobile applications
- Verified 20,000 cycles of bending test
- 10 meters transmission with built-in IC
- 4K30p, and 10.2 Gbps data rate support

Website



HDM**H-A

HDMI Extender

Extends uncompressed HDMI signal up to 100 meters over a Cat6 STP cable.

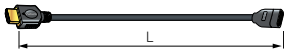
Model	In the Box
HDE100CP-EXA	TX unit, RX unit, IR cables, AC/DC adapter, wall mount tabs, and RS-232 cable mount connectors.

- Up to 100 m* at 1080p @ 60 Hz or WUXGA
- Up to 70 m* at 4K @ 30 Hz
- Power over Ethernet (PoE)
- HDCP 1.4/2.2 passthrough
- CEC passthrough
- RS-232 and 20 to 60 Hz wideband IR extension.
- TX unit can be purchased individually as a HDBaseT transmitter. (Model: HDE100CP-TXA. Contact us for more details.)

Website



High Speed HDMI Extension Cable

Type	Model	Length (m)	O.D. (mm)
	HDM003E-FM	0.3	5.7
	HDM02E-FM	2	6.5

- HDMI Type A female-to-male extension
- 4K30p, and 10.2 Gbps data rate support



HDE100CP-EXA TX: 115 × 29 × 71 mm, 160 g
RX: 115 × 29 × 83 mm, 170 g

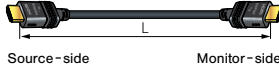
- The transmission distance may vary depending on a cable type and environmental factors.
- Recommended cable: Cat6 STP 24 AWG
- HEC and ARC not supported
- Note: HDE100CP-EXA does not include Ethernet/HDMI/RS232 cables.
- *HDMI* and *HDMI Logo* are registered by HDMI Licensing Administrator, Inc..
- *HDBaseT* and *HDBaseT Logo* are registered by HDBaseT Alliance.

Cable Assemblies

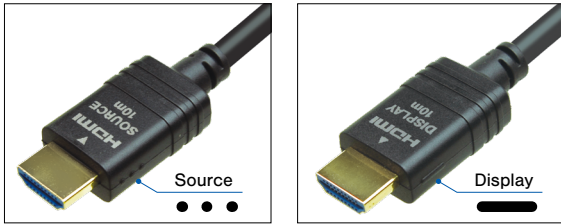
HDMI

High Speed HDMI Active Optical Cable

HEC not supported

Type	Model	Length (m)	O.D. (mm)
	HDM05P-A6	5	6.0
	HDM10P-A6	10	
	HDM15P-A6	15	
	HDM20P-A6	20	
	HDM30P-A6 *	30	
	HDM50P-A6 *	50	
	HDM70P-A6 *	70	
	HDM100P-A6 *	100	

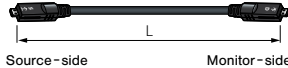
- Built-in IC, fiber and copper
 - Supports 4K60p
 - For longer cabling up to 100 meters without extra device
 - flexible, and lightweight
- * ARC not supported
Note: The cables are directional



HDM**P-A6

Detachable HDMI Active Optical Cable

ARC & HEC not supported

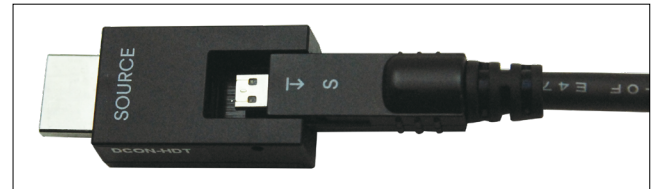
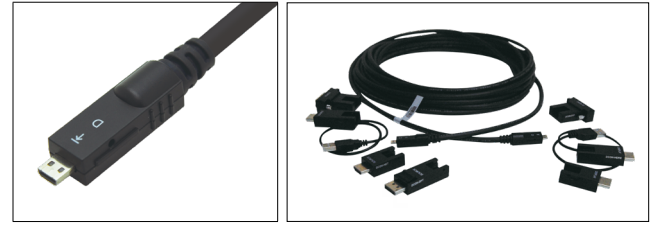
Type	Model	Length (m)	O.D. (mm)
	APF10-DCON	10	5.8
	APF15-DCON	15	
	APF20-DCON	20	
	APF30-DCON	30	
	APF50-DCON	50	
	APF70-DCON	70	
	APF100-DCON	100	

- Built-in IC, fiber plus 28 AWG copper, HDMI type D
- Supports 4K60p
- Detachable solution for narrow space wiring
- Optional interfaces: HDMI type A, Display Port, and DVI
- Slim, flexible, and lightweight

Website



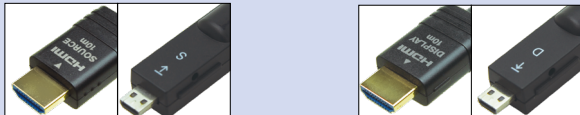
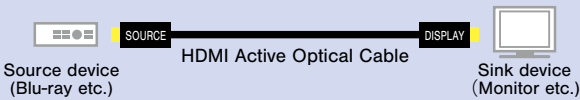
Note: The cables are directional



APF**-DCON

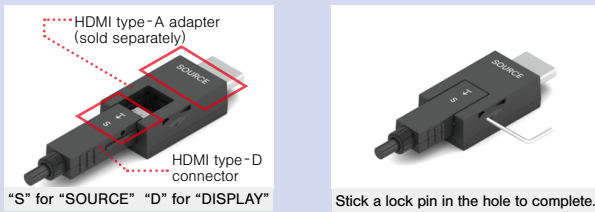
Use of HDMI Active Optical Cables

Connect the right direction



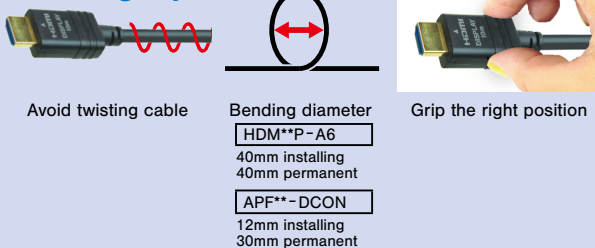
HDMI Active Optical Cables are equipped with IC in both ends connectors. Confirm a designation mark on the connector. It is directional and shall be connected in the right way.

APF**-DCON and adapters








APF**-DCON is outfitted with HDMI type-D, a smaller profile of the normal size of HDMI called type-A, ideal for backside installation of wall/ceiling. Available in HDMI type-A, Display Port, or DVI adapter (sold separately) to hook up devices. Be sure of the appropriate combination of source and display.

Handling Tips




Interface Connector Options

Cables and Detachable Connectors are sold separately.

Type	Model	Plug Type	Type	Model	Plug Type
	DCON-HDT	Source(TX) HDMI Type A		DCON-DPT	Source(TX) DisplayPort
	DCON-HDR	Monitor(RX) HDMI Type A		DCON-DVT	Source(TX) DVI-D
				DCON-DVR	Monitor(RX) DVI-D

HDMI with USB-A(5V)

Type	Model	Plug Type
	DCON-HDE-SET	HDMI Type A with Built-in Equalizer

- Equipped with USB power supply for power insufficient condition.

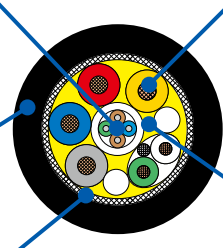
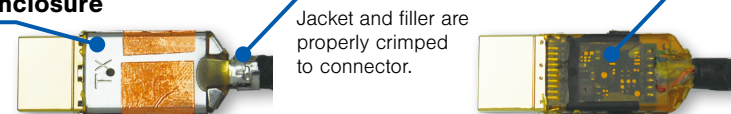
Be sure to attach these connectors to both ends of the cable when using it.
Sales unit, 2pcs package only

Interface Options

Source(TX)	Resolution	Monitor(RX)	Source(TX)	Resolution	Monitor(RX)
HDMI Type D	4K60p	HDMI Type D	DCON-DVT	DVI-D	DCON-DVR
HDMI Type D	4K60p	DCON-HDR	DCON-DVT	4K30p	HDMI Type D
HDMI Type D	DVI-D	DCON-DVR	DCON-DVT	4K30p	DCON-HDR
DCON-HDT	4K60p	DCON-HDR	DCON-DPT	4K60p	HDMI Type D
DCON-HDT	4K60p	HDMI Type D	DCON-DPT	4K60p	DCON-HDR
DCON-HDT	DVI-D	DCON-DVR	DCON-DPT	DVI-D	DCON-DVR
			DCON-HDE-SET	4K60p	DCON-HDE-SET


Why Canare HDMI Active Optical Cable is so reliable?

One of our responsibilities is to deliver the truly reliable products for professionals. Canare engineers put a lot of efforts to achieve the highest quality of HDMI active optical cables for professional use ready.

Canare HDMI Active Optical Cable	
Cable	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Fiber unit in the center The right position to avoid critical damage from outside impact.</p> <p>Quality PVC material Smooth and nice feeling like L-4E6S.</p> <p>Aluminum foil + braided shield Rejecting noises perfectly. Costly but the most reliable construction.</p> </div> <div style="width: 45%;"> <p>Stranded conductor Optimizing flexibility of cable, better handling than solid conductor.</p> <p>Plenty of reinforcing filler Performing enhanced durability including cable tensile strength and bending stress.</p> </div> </div> 
Connector	<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>ESD level 4, fully covered enclosure Verified ESD: Electro-Static Discharge level 4 performance, stable in even harsh environment.</p> </div> <div style="width: 30%;"> <p>Securely crimped Jacket and filler are properly crimped to connector.</p> </div> <div style="width: 30%;"> <p>Inner molded Filled with resin inside of connector to prevent PCB damage.</p> </div> </div> 

DVI-D Dual Link

VESA-DDC Plug and Play compliant


Type	Model	Length (m)
 Screws: #4-40 UNC inch thread	DVID01A	1
	DVID015A	1.5
	DVID02A	2
	DVID03A	3
	DVID05A	5

Website



DVI-HDMI

DVI-D Single Link to HDMI

Type	Model	Length (m)
 Screws: #4-40 UNC inch thread	DVI01-HDMA	1
	DVI015-HDMA	1.5
	DVI02-HDMA	2
	DVI03-HDMA	3
	DVI05-HDMA	5


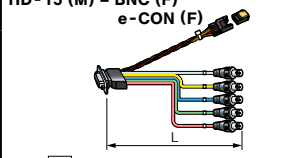
Note: DVI cannot carry audio signal.

Website



VGA

VESA-DDC Plug and Play compliant.
5VDC-1.7CF series are enhanced by low-loss coax unit.

Type	Model	Length (m)
 Screws: #4-40 UNC inch thread	5VDC015-1.7CF	1.5
	5VDC02-1.7CF	2
	5VDC03-1.7CF	3
	5VDC05-1.7CF	5
	5VDC10-1.7CF	10
	5VDC15-1.7CF	15
	5VDC20-1.7CF	20
 e-CON (F) e-CON male plug and lock nuts included	HDR15F-EJ1.5CA	0.13

* V5D2P-1.7CF is not for sale.

Website



Technical Note

USB Type-C Technology

■ Advantages of USB Type-C

USB Type-C refers to the shape and specification of a USB connector. Below are some features and benefits of USB Type-C:

- 1) Reversible connector
- 2) Compact and lightweight
- 3) High-speed data transfer up to 80Gbps
- 4) High power delivery up to 240W
- 5) Integration of multiple functions including 4K/8K video
- 6) Widely adopted and compatible

Canare believes USB Type-C will be future-proof, a key solution for Professional AV system installations.



■ Simplify naming of USB Type-C cables

USB-IF (USB Implementers Forum) concerns that inconsistent use of terminology creates confusion in the market, can be misleading to users. To fix this issue, USB-IF has developed the below recommendations on how to enter marketing names during product certification registration.

USB-IF Marketing Name	Data Rate	Mode Name	Multiple Lanes	Lane Rate
Hi-Speed USB	480 Mbps	USB 2.0	Single	480 Mbps
USB 5Gbps	5 Gbps	USB 3.2 Gen1 <small>* Old names as USB 3.0 and USB 3.1 Gen1</small>	Single	5 Gbps
N/A	10 Gbps	USB 3.2 Gen1 × 2	Dual	5 Gbps
USB 10Gbps	10 Gbps	USB 3.2 Gen2 <small>* Old name as USB 3.1 Gen2</small>	Single	10 Gbps
N/A	10 Gbps	USB4 Gen2x1	Single	10 Gbps
N/A	20 Gbps	USB 3.2 Gen2 × 2	Dual	20 Gbps
USB 20Gbps	20 Gbps	USB 3.2 Gen2 × 2	Dual	10 Gbps
N/A	20 Gbps	USB4 Gen3 × 1	Single	20 Gbps
USB 40Gbps	40 Gbps	USB 4 Version1	Dual	20 Gbps
USB 80Gbps	80 Gbps	USB 4 Version2	Symmetric	40 Gbps

■ USB Power Delivery

USB PD (Power Delivery) is an enhanced aspect of the USB Type-C standard, enabling higher power levels for faster charging and efficient power delivery between devices. This table illustrates common power levels supported by the USB PD specification along with their corresponding PD specification names.

Power Delivery	Voltage	Current	Connector
PD15W	5V	3A	USB Type-C
PD45W	15V	3A	
PD60W	20V	3A	
PD75W	15V	5A	
PD100W	20V	5A	
PD240W	48V	5A	

< Connection Example : USB Type-C >



USB Type-C Active Optical Cable

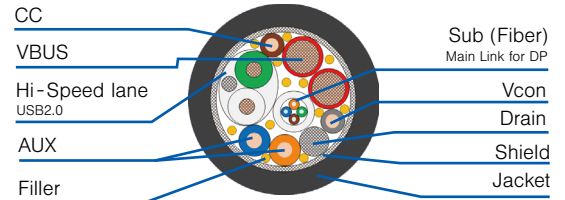
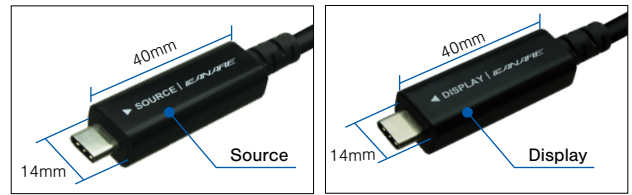
UCC-H Series : DP Alt 4-lane 8K30p + USB2.0 + PD60W

Type	Model	Length (m)	O.D. (mm)
 Source-side Monitor-side BLK	UCC03-HP6D1-A5	3	4.6
	UCC05-HP6D1-A5	5	4.6

- Flexible O.D. 4.6mm smooth PVC jacket
- 480 Mbps data rate, USB2.0
- 4K60p, 4K120p, and 8K30p support
- DP1.4a: 4 lanes max payload rate 25.92 Gbps for full DP performance
- PD60W allowing PC device connections simpler
- Lengths mark on connectors

Note: Directional connection

UCC**-HP6D1-A5



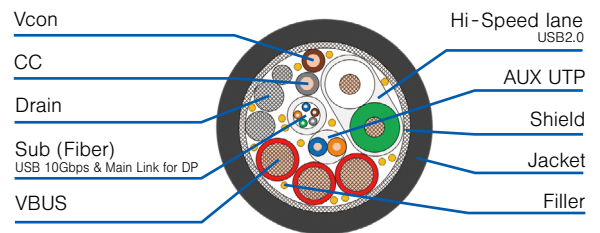
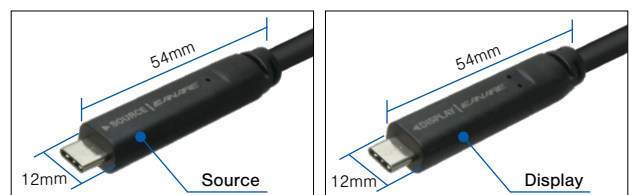
UCC-G Series : DP 4-lane 8K30p + USB 10Gbps + PD60W

Type	Model	Length (m)	O.D. (mm)
 Source-side Monitor-side BLK	UCC05-G1P6D1-A7	5	6.5
	UCC10-G1P6D1-A7	10	6.5

- Maneuverable O.D. 6.5mm smooth PVC jacket
- 10 Gbps data rate, USB 3.2 Gen2
- 4K60p, 4K120p, and 8K30p support
- DP1.4a: 4 lanes max payload rate 25.92 Gbps for full DP performance
- PD60W allowing PC device connections simpler
- Lengths mark on connectors

Note: Directional connection

UCC**-G1P6D1-A7



Note: Use quality verified USB charger/adaptor, PC, and monitor to optimize PD60W performance and avoid overheating.

Technical Note

DisplayPort over USB Type-C (DisplayPort Alternate Mode)

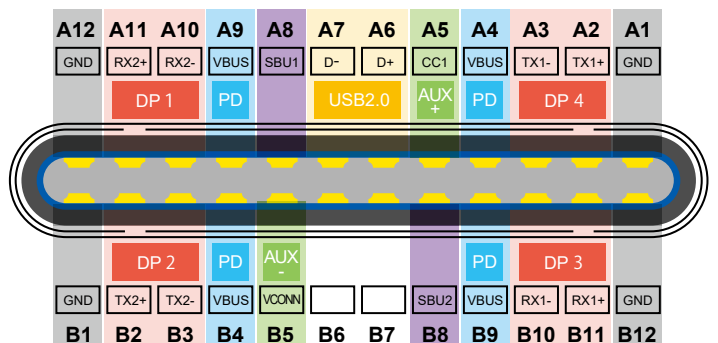
“DP Alt Mode” or “DP Alt” is a standard for communicating protocols such as DisplayPort and HDMI over USB Type-C interface. DP Alt Mode allows devices with USB Type-C ports to transfer DisplayPort signals, enabling them to connect directly to external displays. This specification enhances device portability and supports multiple functions through a single connector. It combines USB Type-C flexibility with DisplayPort performance for convenient connectivity.

As shown in the below pin-out, Canare USB Type-C cable, UCC series is engineered with DP1.4 8.1Gbps “4 lanes” technology for the maximum compatibilities.



USB Type-C Technology

Standard	Data Bandwidth		Video Format
	Max Link	Max Payload	
DP1.4Alt 8.1Gbps × 2lane	16.2 Gbps	12.96 Gbps	4K30p, YCC444, 10b 4K60p, YCC420, 10b
DP1.4Alt 8.1Gbps × 4lane	32.4 Gbps	25.92 Gbps	4K60p, YCC444, 12b 4K120p, YCC420, 12b 8K30p, YCC420, 12b



Canare DP1.4 Alt USB Type-C Cable Pin-out

Index

👑: Bestselling products
















































06 - 1001 - ***	83
06 - 1877 - 04	83
1	125
12B1N2	86
12B2N1	86
12C** - E3	85
12C** - M2	85
12FS** - S	19
12J12N1	86
12J12N12	86
12J12N2	86
12R** - E3	85
12S1N2	86
12S2N1	86
14347 CLEANER	14
161U - B1	80
161U - B2	80
161U - JRUK	80
161U - X12F	80
161U - X1F	80
161U - X2F	80
162U - JRUK	80
162U - X21	80
162U - X22	80
16B1F2	86
16B2F1	86
16C** - E3	85
16C** - M2	85
16FS** - S	19
16J12F1	86
16J12F12	86
16J12F2	86
16R** - E3	85
16S1F2	86
16S2F1	86
1U - AS*	81
1U - AS* D	81
2	20DV
20DV - 2U	75
20DVS	75
20DVS - 2U	75
24B12MS	86
24B12MSW	86
24C** - E3	85
24C** - M2	85
24C005 - E3MS22	85
24DV	75
24DV - 2U	75
24DVS	75
24DVS - 2U	75
24FS** - S	19
24KRJ - 6AJJ	5
24KRJS - 6AJJ	5
24R30 - E3	85
24S1MS2	86
24S2MS2	86
26DV	75
26DV - 2U	75
26DVS	75
26DVS - 2U	75
2FM3Z2S** - DLS	20
2FS** - S	19
2FSZ2S**A - DLS	19
2RCS**	96
2S11F	56
2S11FG	56
2S14F	56
2S14FG	56
2S7F	56
2S7FG	56
2S9F	56
2S9FG	56
2U - AS*	81
2U - AS* D	81
3	32 - 12A/620A/EIA
32B12MF11	86
32B12MS	86
32B12MSW	86
32B12MWF11	86
32C** - M2	85
32C005 - M2MS22	85
32MCKA - ST	71
32MCKA - ST - 1.5U	71
32MCKA - ST - 2U	71
32MD - ST	74
32MD - ST - 2U	74
32MD - ST - 4U	74
32MD - STS	74
32MD - STS - 2U	74
32MD - STS - 4U	74
32S1MS2	86
32S2MS2	86
32SVK - ST	72
32SVK - ST - 1.5U	72
32WB - *	83
32XP - *	83
3RCS**	96
3U - AS*	81
3U - AS* D	81
4	48 - 12A/820AQ/EIA
481U - 820AQ	82
481U - WB*	83
48MC	73
48MCS	73
48MCK - H	70
48MCK - HS	70
48WB - *	83
48XP - *	83
4ETCS - ** - T	92
4FO - M3 - ** - LS	20
4FO - M3 - ** - SS	20
4FS** - S	19
4FS**T - LS	18
4FS**T - SS	18
4FS**T - ST	18
4S10F	55
4S10FG	55
4S11	55
4S11G	55
4S12F	55
4S12FG	55
4S14F	55
4S18F	55
4S6	55
4S6G	55
4S8	55
4S8G	55
5	525
5VDC** - 1.7CF	100
5VDC**A - 1.5C	96
5VDS**A - 1.5C	96
5VDS**A - J1.5C	96
6	620A
6FS** - S	19
8	820AQ
8B1N2	86
8B2N1	86
8C** - E3	85
8C** - M2	85
8DAC** - ##	95
8DACS** - #B12	95
8FS** - S	19
8J12N1	86
8J12N12	86
8J12N2	86
8MC** - #	95
8MCS** - #B1	95
8MCS** - #B2	95
8MCS** - CB12	95
8R** - E3	85
8S15G	56
8S1N2	86
8S2N1	86
9	90 - 60*
90 - T	83
A	A1VGA**
A2C3	58
A2C3 - SS	58
A2V1	57
A2V1B	57
A2V2B	57
A2V2 - L	57
A3V2 - FB	57
ABJ - DC	82
ABP - DP	82
ABP - TA	82
AKU - 20LFYG	27
AKU - 20SFYG	27
APF** - DCON	99
ASPT - 1	12
B	B11014E
B11015E	21, 22, 36
B11016E	21, 22, 36
B11020D	21, 22, 36
B75004A	21, 22, 29, 36, 37, 39
BC**M	94
BC02M - X1	94
BC02M - X2	94
BCAK - BL	27
BCAK - BS	27
BCAK - RL	27
BCAK - RS	27
BCAK - TL	27
BCAK - TS	27
BCA - RL	28
BCA - RS	28
BCA - TL	28
BCA - TS	28
BCJ - A10TRC - XP3F	44
BCJ - BPC2P	25
BCJ - BPCK	25
BCJ - BPLH2PA	25
BCJ - BPLH3PA	25
BCJ - BPLHA	25
BCJ - BPLHK	25
BCJ - BPLHK2P	25
BCJ - C4	23
BCJ - D25HD	23
BCJ - D25HW	23
BCJ - D33UHD	23
BCJ - DC	31
BCJ - DC - CH	31
BCJ - DCJ	32
BCJ - FC1	24
BCJ - FC1 - 7/16	24
BCJ - FKCM	33
BCJ - FPC	26
BCJ - FPC02	26
BCJ - FPLHA	26
BCJ - FPLV01	26
BCJ - FPLV - 12G	26
BCJ - FPLVA	26
BCJ - FPLV - L	26
BCJ - HBCJK	30
BCJ - JK	23
BCJ - JRK	24
BCJ - JRUDBK	24
BCJ - JRUDK	24
BCJ - JRUK	24
BCJ - KCM	33
BCJ - MCVP	70, 71, 73
BCJ - MVP	74
BCJ - R	24
BCJ - R/1	24
BCJ - RCAP	31
BCJ - RPC	26
BCJ - RPC/1	26
BCJ - RU	24
BCJ - RUC1	24
BCJ - RUD	24
BCJ - RUDB	24
BCJ - TRC - XP3F	44
BCJ - TRC - XP3M	44
BCJ - VWP	75
BCJ - XJ - A10TRC	44
BCJ - XJ - TRC	44
BCJ - XP - TRC	44
BCP - A25	21
BCP - A25F	21
BCP - A3	21
BCP - A31	21
BCP - A3AHD	21
BCP - A3F	21
BCP - A4	21
BCP - A42	21
BCP - A4F	21
BCP - A5	21
BCP - A52	21
BCP - A55	21

BCP-A5F	21
BCP-A77	21
BCP-B25HD	21
BCP-B25HW	21
BCP-B26	21
BCP-B28	21
BCP-B31F	21
BCP-B3F	21
BCP-B45HW	21
BCP-B4F	21
BCP-B51F	21
BCP-B53	21
BCP-B56	21
BCP-B5F	21
BCP-C1	22
BCP-C5HD	22
BCP-C6HD	22
BCP-C71A	22
BCP-C7FA	22
BCP-C7HD	22
BCP-D33UHD	21
BCP-D33UHW	21
BCP-D55UHD	21
BCP-D55UHW	21
BCP-D57	21
BCP-D8UHD	21
BCP-DC	89
BCP-DCJ	32
BCP-H31F	23
BCP-H3B	23
BCP-H45HW	23
BCP-H5/1	23
BCP-H51F	23
BCP-H5B	23
BCP-LC3	22
BCP-LC3F	22
BCP-LC5	22
BCP-LC5F	22
BCP-LD25HD	22
BCP-LD25HW	22
BCP-LD33UHD	22
BCP-LD53	22
BCP-RCAJ	31
BCP-TK	23
BCP-TK-CH	23
BCP-VA3	21
BCP-VA5	21
BET-BNC	41, 70, 71, 72, 74, 75
BET-D/H	30, 41
BET-DIN	41
BET-HBNC	30, 41
BET-MBNC	41
BJ-J	39
BJ-JR	39
BJ-JRU	39
BJ-JRUD	39
BN1002B	37
BN1003B	37
BN1004B	37
BN1005B	37
BN1012B	22
BN1016C	39
BN1018A	21
BN1023A	39
BN1024A	39
BN1025B	39
BN1030A	37
BN1041A	37
BN1043A	22
BN1082A	22
BN1083A	22
BN1093	36
BN1131	35
BN1139	22
BN1148	32
BN1157	32
BN1158	32
BN1174	21
BN1175	21
BN1181	21
BN1192	21
BN1204	23
BN1205	23
BN1214	29

BN1215	29
BN1218	29
BN1219	29
BN1223	22
BN7002	21, 39
BN7003A	21, 22, 23, 29, 32, 36, 37, 39
BN7011	21, 36, 37, 39
BN7014	21, 37
BN7015A	21, 22, 32, 36, 37
BN7016	21, 22, 29, 36, 37, 39
BN7021A	22, 37
BN7022	22
BN7026A	21
BN7029C	21, 22, 36
BN7030A	39
BN7045A	21, 37
BN7046	21, 22, 37
BN7052A	21
BN7074A	22
BN7079	36
BN7113	35
BN7114	35
BN7120	35
BN7121	35
BN7129	21, 22, 36, 37
BN7136	29, 32
BN7138	32
BN7141	29, 32
BN7143	21
BN7147	21
BN7158	23
BN7159	23
BN9078A	34
BN9079B	34
BN9127B	35
BN9128C	35
BN9182A	35
BN9194	35
BP-C**	39
BP-D	80
BP-DXF	80
BP-K(10)	5
BP-LC**	39
BP-XF	80
CB01	23
CB02	23
CB03	23
CB04	23
CB055W	23
CB05A	23
CB22	35
CB23	35
CB24	23
CB25	23
CB26	23
CB31	35
CB32	35
CCF4-JK	35
CCF4-JKR	35
CCF5-JFC	35
CCF5-JFRC	35
CCF7-JFC	35
CCF7-JFRC	35
CCM4-PK	35
CCM4-PKR	35
CCM5-PFC	35
CCM5-PFRC	35
CCM7-PFC	35
CCM7-PFRC	35
CLETOP 2.5/2.0	14
COF-12B	16
COF-13C	16
COF-32A	16
COF-33B	16
COPS3-FF*A	15
COPS3-FM*A	15
COPS-FF*A	15
COPS-FM*A	15
COU-BP*A	16
COU-CV*	16
COUS-FF*A	16
COUS-FM*A	16
CR100-CN	88
CR100-S	88

CR90-BN	88
D/MS3057-**A(R1)	85
D/MS3101A	85, 86
D/MS3102A	86
D/MS3106B	85
D2.5HDC**E	89
D2.5HDC**E-D	89
D3.3UHDC**E	89
D3.3UHDC**E-S	89
D3C**A-S	89
D3C**A-SR	89
D3FBC**E	89
D4.5HDC**E	89
D4.5HDC**E-D	89
D5.5UHDC**E	89
D5.5UHDC**E-S	89
D5C**A-S	89
DA202	54
DA202AT	54
DA202F-*P	54
DA203-**AL	54
DA203AL	54
DA206	54
DAC**	95
DAC**B	95
DC**-9JE22	92
DCF01	34
DCF02	35
DCJ-C25HW-ML	34
DCJ-FEM	32
DCJ-JR	32
DCJ-LR	32
DCJ-LR/1	32
DCM01	34
DCM02	35
DCM03	35
DCON-DPT	99
DCON-DVR	99
DCON-DVT	99
DCON-HDE-SET	99
DCON-HDR	99
DCON-HDT	99
DCP-C25HD	32
DCP-C25HW	32
DCP-C25HW-ML	34
DCP-C3F	32
DCP-C4F	32
DCP-C53	32
DM2.5HDC**A	90
DM2.5HDC**EA-BP	90
DM2.5HWSC002EA-BJ	90
DM2C**B	92
DM3.3UHDC**A	90
DM3.3UHDC**EA-BP	90
DM4C**B	92
DMC**B	92
DMX203	58
DMX203-2P	58
DMX403	58
DN2.5HDC**	90
DN2.5HWSC002E-BJ	90
DN4.5HDC**	90
DRC**F3	90
DRC**S	90
DS10-AS1	82
DS10-AS2	82
DS10-AS3	82
DS10-AS4	81
DVI**-HDMA	100
DVID**A	100
DVJB-S	75
DVJB-W	75
EC**	93
EC**B	93
EC**-B11	93
EC**-B22	93
EC**-X11	93
EC**-X22	93
ETC**L-B	92
ETC**L-M	92
ETC**S-B	92
ETC**S-BM	92
ETC**S-M	92
ETC6A**-N	91

 Bestselling products

ETC6A**-T	91	HDM**E-FM	98	L-7CFTX	64
ETC6A**-TN	91	HDM**H 	98	L-7CHD 	61
 F-09 	36	HDM**H-A 	98	L-8CHD	61
F-10	36	HDM**P	98	L-8CUHD	61
F-11	38	HDM**P-A6	99	LC**	93
F-12	38	HDM**U	98	LF-2SM16	9
F-12SA	38	HDM10M-EQ	98	LF-2SM7N	10
F-15	38	HDR15F-EJ1.5CA	100	LF-2SM7T	11
F-15L	38	HDR15F-J1.5CA	96	LF-2SM9N 	9
F-16	38	 IBC Brand Cleaner	14	LF-2SM9T	11
FCC**-7N	10	IU-7/16	24	LF-M32T-6C 	20
FCC**-7T	11	IU-FC*-SET	12	LF-M32-*C-EM	20
FCC**-9T	11	 K24S-1U-BLK	5	LF-M3R4-12C-EM	20
FCC**A-WJ	9	KBCJ-DCJ 	6	LF-SM2-**C	18
FCC**N 	9	KBCJ-HBCJK 	6	LF-SM2T-4C	18
FCC**N-FMRC	12	KBCJ-JRK 	6	LV-61S 	63
FCC**N-FRCM	12	KC1.2R-****-L	33	LV-77S	63
FC-CV-F-SET-**	9	KC1.2R-****-S	33	 M202-**AT	52
FC-CV-M-SET-**	9	KC1.2R-****-SL	33	MBCP-C25F	22
FCE-*	16	KCM-LR	33	MBCP-C3F	22
FCF02N-OCM	13	KCM-PC	33	MBCP-C4	22
FCM02N-OCF	13	KDCJ-JR 	6	MBCP-C4F	22
FCS003A-FR	15	KDCJ-JR2P 	6	MBCP-C53	22
FCS003A-MR	15	KHBCJ-JRK 	6	MBCP-C5F	22
FCS015A-FR	12	KHBCJ-JRK2P 	6	MCF-V5C3	34
FCS015A-MR	12	 L-1.5C2VS	63	MCM-V5C3	34
FCT-FC RED	10	L-2.5C2V	63	MCVJ-DC	70, 71, 73
FCT-FCKIT RED	10	L-2.5CFB	62	MCVJHK-S 	70
FCT-FCLB RED	10	L-2.5CHD 	61	MCVJHK-W 	70
FCT-OC RED	10	L-2.5CHLT	61	MCVJKA-ST5	71
FCT-OCKIT RED	10	L-2.5CHWS	62	MCVJKA-STW	71
FCT-OCLB RED	10	L-2B2AL	50	MCVJ-S	73
FJ-FPC	37	L-2B2AT 	50	MCVJ-W	73
FJ-JR	37	L-2E4-**AL	51	MCVPC**	79
FJ-JRU	37	L-2E5	50	MCVPC**-MVP	79
FJ-JRUD	37	L-2E5AL	50	MCVPC**-VWP	79
FJ-JRUDB	37	L-2E5AT 	50	MCVPC002-BJ	79
FK37-2*C	85, 86	L-2T2S 	50	MCVP-C25HW	70, 71, 73
FK37-3*S	86	L-3.3CUHD 	61	MDF-V4C25HW	34
FKDLJ-JM	6	L-3.3CUHWS 	62	MDF-V4JRU	34
FKDLJ-JM-S	6	L-3C2V	63	MDM-V4C25HW	34
FKDLJ-JS	6	L-3C2VS	63	MDVJ-ST5	74
FKDLJ-JS-S	6	L-3C2W	63	MDVJ-STW	74
FKDLP-SUL	5	L-3C-AHD	63	MJ2-M32-1.5U-**	77
FKMPJ-JM	6	L-3CFB 	62	MJ2-M32-1U-***	77
FKSJ-JM	6	L-3CFW	62	MJ2-M32-2U-***	77
FKSJ-JM-S	6	L-3D2V	68	MJ2-M32CKA-1.5U-***	77
FKSJ-JS	6	L-3D2W	68	MJ2-M32CKA-1U-***	77
FKSJ-JS-S	6	L-4.5CHD 	61	MJ2-M32CKA-2U-***	77
FM32C**-LS	20	L-4.5CHWS 	62	MJ2-M48CK-1U-*** 	77
FM32C**-SS	20	L-4CFB 	62	M-KB01	5
FM32C**-SS/LS	20	L-4CFTX	64	M-MA*U02	81
FM33C**-S	20	L-4CHD	61	M-MA1U02A	81
FP-C25HD	37	L-4E3-**AT	49	MR202-**AT 	52
FP-C3	37	L-4E3-**P 	49	MS202	51
FP-C31	37	L-4E3-2H	49	MS202-**P	53
FP-C3F	37	L-4E3AT	48	MS203	51
FP-C4	37	L-4E4-**AT 	49	MS203-*BS	53
FP-C4F	37	L-4E4-*P	49	MVJ-DC	74
FP-C5	37	L-4E5	48	MVPC**	79
FP-C52	37	L-4E5AT 	48	MVPC**A-BP	79
FP-C53A	37	L-4E5ATG	48	MVPC**-HW	79
FP-C5F	37	L-4E5AT-WBS	48	MVPC002-BJ	79
FP-C71A	37	L-4E5C	48	MVP-C25HW	74
FP-C7FA	37	L-4E6 	48	MVP-C4	74
FS2C**A-LS	19	L-4E6AT 	48	 NC5E-**	91
FS2C**A-SS	19	L-4E6ATG	48	NC6-**	91
FS2C**A-SS/LS	19	L-4E6AT-WBS	48	NC6AAT-**	91
FS3C**A-S	19	L-4E6S 	48	NC6AF-*** 	91
 GS-4	57	L-5.5CUHD	61	NC6AFSD-**	91
 GS-6 	57	L-5.5CUHWS	62	NC6F-**	91
 HBCJ-FEMK	30	L-5C2V	63	NCJ-BCJR	31
HBCJ-JRK	30	L-5C2VS	63	NCP-H8HD	31
HBCJ-LRK	30	L-5C2W	63	NDT-DIN	32
HBCJ-LRK/1	30	L-5CFB	62	NDT-HBC	30
HBCP-D25HDA	29	L-5CFTX	64	NJ-C5F	40
HBCP-D25HWA	29	L-5CFW	62	NK27-2*C	85, 86
HBCP-D33UHDA	29	L-5CHD	61	NK27-3*S	86
HBCP-D53A	29	L-5D2V	68	NP3TMC-B	82
HBCP-D55UHD	29	L-5D2W	68	NP-C**	40
HDE100CP-EXA	98	L-5DFB	68	 OCC**-7N	13
HDE100CP-TXA	98	L-5DFBW-PE	68	OCC**-7T	13
HDM**AE	98	L-6CHD	61	OCC**-9T	13
HDM**E-EQ	98	L-7CFB	62	OCC**-N	13

OCC**N-FMRC	13
OCC**N-FRCM	13
OCS**-FR	13
OCS**-MR	13
OM12C**	17
OM12S02-JR	17
OM12S02-PR	17
OM12S02-JR-L New	17
OM12S02-PR-L New	17
OM6C**	17
OM6S**-JR	17
OM6S**-PR	17
P PC**	93
PC**-B	93
PH50A	72, 74, 75, 82
PH50B	70, 71, 73, 82
Q QC**	94
R R300	88
R300-BN	88
R300-CN	88
R300-L	88
R300-S 👑	88
R380-S 👑	88
R460-S 👑	88
RC**	94
RC**-B1	94
RC**-B2	94
RC**-X1	94
RC**-X2	94
RCAP-C25F	36
RCAP-C25HD	36
RCAP-C3A	36
RCAP-C3F	36
RCAP-C3GS	36
RCAP-C42	36
RCAP-C4A	36
RCAP-C4F	36
RCAP-C53	36
RCAP-C5A	36
RCAP-C5F	36
RCAP-C77	36
RGT310.MFK	87
RGT310.RM	87
RGT380.MFK	87
RGT380.RM	87
RJ-BCJRU	36
RJ-BCJRUD	36
RJ-BCJRUDB	36
RJC5E-4P+	60
RJC5E-4P-WJ	59
RJC5ES-4P-BS	59
RJC6-4P+	60
RJC6-4P-FA New	60
RJC6A-4P-F	60
RJC6A-4P-SFM	59
RJC6A-F4PH	60
RJJ-DC New	5
RJJDC-CH New	5
RJ-JR	36
RJ-JRU	36
RJ-JRUD	36
RJ-JRUDB	36
RJP-PC New	60
RJ-RU	36
RJ-RUD	36
RJ-RUDB	36
RJSJ-J6A	6
RJSP-6A New	60
RJSP-6AFT	60
RJSP-FTLB	60
RJJJ-J6A	6
RS-422-1U-**	78
RS-422-2U-**	78
S S410-*P	55
SC**	94
SC**-8NL	94
SC**A-NL	94
SC**-S8	94
SG***-T3*	5
SMAJ-C**	40
SMAP-C**	40
SPC**	93
SPC**-B1	93
SPC**-B2	93

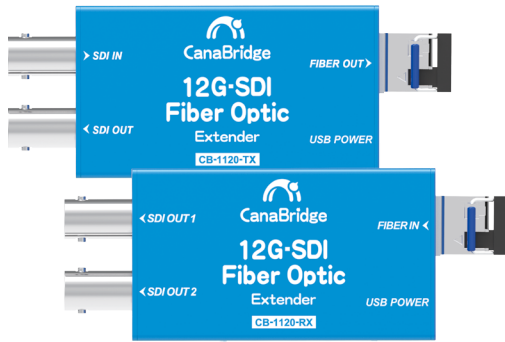
SVJK-AP	72
SVJK-DC	72
SVJK-L	72
SVJK-S	72
SVPC**	79
SVP-C25HW	72
SVP-TK	72
SVP-ULK	72
T TB-2A	41
TC**B	94
TC**B-X1	94
TC**B-X2	94
TC-1	41
TC-2	41
TCD-1DB	41
TCD-3151D	41
TCD-316C	41
TCD-31C	41
TCD-35CA	41
TCD-35D	41
TCD-35DF	41
TCD-451CA	41
TCD-4CA	41
TCD-55FA	41
TCD-55UHD	41
TCD-57C	41
TCD-5CF	41
TC-RJ1 New	60
TCD-5HD	41
TCD-65C	41
TCD-67HD	41
TCD-7CA	41
TCD-8HD	41
TCD-96C	41
TCD-D253F	41
TCD-D534F	41
TNP-C**	40
TRP-010-DC081 New	7
TRP-011-DC13	7
TRP-011-DI13BS New	7
TRP-011-DI15BS New	7
TRP-100-DC08 New	7
TRP-101-DC13	7
TRP-250-DC13 New	7
TRP-251-DI13 New	7
TS100E	41
TS100H New	41
TS100U	41
TXC**-F	90
TXC**-K	90
U UCC**-HP6D1-A5 New	102
UCC**-G1P6D1-A7 New	102
V V*-1.5C	64
V*-3C	64
V*-3CFB	64
V*-3CFW	64
V*-4CFB	64
V*-5C	64
V*-5CFB	64
V*-5CFW	64
V4-2.5CHW	64
VJ2-M32-4U	77
VJ2-V**-*U-***	77
VJ-DC	75
VPC**-HW-WC	79
VPC**-WC	79
VWP-C25HW	75
VWP-C4A	75
W WD5.5UHDC**	89
X XJ3F-A10TRC-BCJ	44
XJ3F-P3FA	80
XJ3F-P3MA	80
XJ3F-TRC-BCJ	44
XJ3M-P3FA	80
XJ3M-P3MA	80
XJ3M-TRC-BCJ	44

ANNEX Index

1 161UPS-LC	114
2 2PSC-**	114
2S**FG-CCA New	112
4 4S**FG-CCA New	112
6 6PSC-**	114
C CB-1010	110
CB-1120 New	108
CB-2011	109
CB-2012	109
CB-2021	109
CB-2022	109
CB-8010	110
CB-8120 New	108
CB-8130 New	108
E EE12G-100	113
EO12G-100A-**	113
EO12G-100B	113
EO3G-100	113
EO3G-100A-**	113
EO3G-200	113
F FC-CV-F-SET-**	111
FC-CV-M-SET-**	111
FCBA4-FF5W1	113
FCBA4-FF5W1-PV	113
FCBA4-FM5W2	113
FCBA4-FM5W2-PV	113
FCBA-FF3W1-3G	113
FCBA-FF3W1-3G-PV	113
FCBA-FM3W2-3G	113
FCBA-FM3W2-3G-PV	113
FCBK4-FF5W1-12G	113
FCBK4-FF5W1-12G-PV	113
FCBK4-FM5W2-12G	113
FCBK4-FM5W2-12G-PV	113
FCBK-FF3W1-12G	113
FCBK-FF3W1-12G-PV	113
FCBK-FM3W2-12G	113
FCBK-FM3W2-12G-PV	113
FCC**N-PUR 👑	111
FCWDM16A	114
FCWDM8/1A	114
FCWDM8/1A-13	114
FCWDM8/2A	114
FCWDM8/2A-13	114
FCWDM-8B	114
FCWDM-8B-13	114
FDM-2	114
FDM-4	114
L LF-2SM9N-PUR 👑	111
LF-2SM9-FRNC 👑	111
L-3.3CUHD-FRNC 👑	112
L-5.5CUHD-FRNC 👑	112
L-2.5CHD-FRNC 👑	112
L-4.5CHD-FRNC 👑	112
O OE12G-101B	113
OE3G-101	113
OE3G-201	113
R RGT310.RM	111
RGT380.RM	111
RGT310.MFK	111
RGT380.MFK	111
T TRM-100	114
TRM-101	114
TRM-210	113
TRM-210A-**	113
TRM-211	113
TRM-220	114
TRM-220A-**	114
TRM-221	114
TRM-230	114
TRM-231	114
TRM-300A-G**	113
TRM-300-G31	113
TRM-300-G55	113
TRM-400	114
TRM-401	114
TRM-540	113
TRM-540A-**	113
TRM-541	113
W WEPZ0258	114
WMM0190	114

ANNEX: Regional Product Catalog

CanaBridge Brand

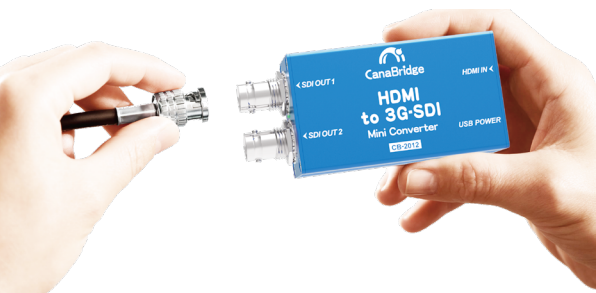


About CanaBridge

The professionals' choice

A sub brand "CanaBridge" is established by Canare. Providing simple and affordable solutions of video signals, bridging long lasting Canare users between new generation of SNS video creators.

CanaBridge video converters will give you smart move on HDMI, 3G-SDI, and 12G-SDI interconnects. Canare engineers its development and quality verification. All CanaBridge products are equipped with light weight and sleek aluminum chassis.



CanaBridge **5** Identities

01 *Superb Combination*

We raised the bar on mini converters solutions. CanaBridge converters connected with Canare products are superb combination.

02 *Professional Support*

Canare is here to assist you all the time. All CanaBridge products include one-year hassle free exchange program. In addition, We will provide the best sales support as well as after sale service.

03 *Stable Performance*

CanaBridge converters will deliver stable performance even under demanding environments. It meets your expectation without any surprises.

04 *Fully Engineered*

Canare engineers invest engineering effort and whole enthusiasm into CanaBridge products. Verified technical accuracies and put it into original aluminum case.

05 *Solid*

CanaBridge has been looking at cutting-edge technologies, appropriate materials, and standardized processes.

CanaBridge



Website

Lifetime Support
CanaBridge 5 Identities Guarantees

5 CanaBridge
Identities Guarantees 

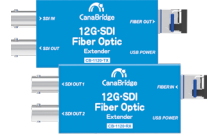
12G-SDI Solutions

CB-1120 (TX and RX)

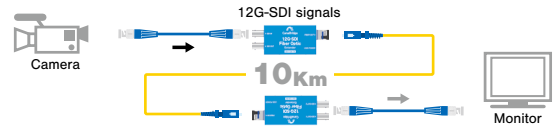
12G-SDI Fiber Optic Extender

Key Features and Benefits

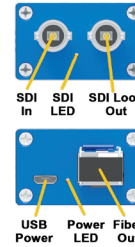
- 12G/6G/3G-SDI input & loopout on transmitter
- Dual 12G-SDI outputs on receiver
- Supports up to 12G bandwidth
- SDI input automatic switching SD, HD, 3G, 6G, 12G-SDI
- 10km transmission distance



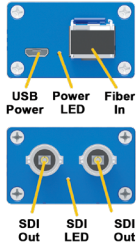
12G-SDI



CB-1120-TX



CB-1120-RX



Specifications

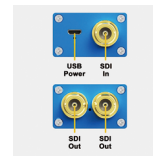
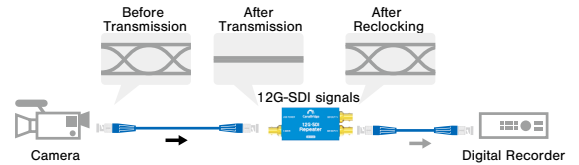
Model	CB-1120 (TX and RX)
Power	Micro USB
Power Consumption	2.0W (Max)
Voltage Range	USB 3.3-5.5 V
Dimension	72.4 × 41 × 24.6 mm
Net Weight	Transmitter: 115 g, Receiver: 115 g
Gross Weight	960g

CB-8120

12G-SDI 1 × 2 Signal Repeater

Key Features and Benefits

- Input: 1 × 12G-SDI, Output: 2 × 12G-SDI
- Support DVB-ASI signal
- Automatically detects SD, HD, 3G, 6G, 12G-SDI
- Automatic cable equalization and signal retiming
- Detachable bracket design for wall mounting



Specifications

Model	CB-8120
Power	Micro USB
Power Consumption	1.0W (Max)
Voltage Range	USB 3.3-5.5 V
Dimension	72.4 × 41 × 24.6 mm
Net Weight	110 g
Gross Weight	470g

CB-8130

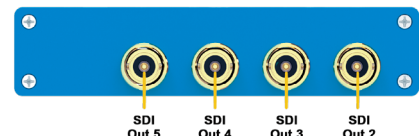
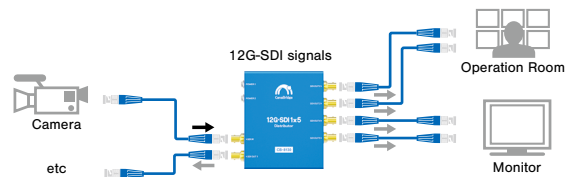
12G-SDI 1 × 5 Reclocking Distribution Amplifier

Key Features and Benefits

- 12G/6G/3G/HD/SD-SDI multi-rate signal processing
- 5 buffered and re-clocked outputs
- Support DVB-ASI signal (OUT1, 4, 5)
- Automatic cable equalization and signal retiming
- All ancillary data is passed to the outputs



12G-SDI



Specifications

Model	CB-8130
Power Supply	Threaded locking DC connector
Voltage Range	DC 6-23 V
Power Consumption	3W (Max)
Dimension	125.5 × 102 × 27.5 mm
Net Weight	310 g
Gross Weight	950 g

Lifetime Support

CanaBridge 5 Identities Guarantees

5

CanaBridge
Identities Guarantees



Website



ANNEX: Regional Product Catalog

CanaBridge Mini Converters

3G-SDI Solutions

CB-2011
3G-SDI to HDMI mini Converter

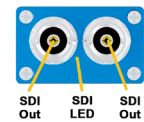
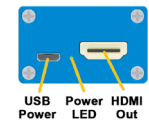
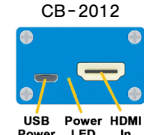
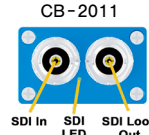
CB-2012
HDMI to 3G-SDI mini Converter

Key Features and Benefits

- Being made for Broadcast equipment
- Powered Anywhere
- Pocket Size and Easy to Mount

Specifications

Model	CB-2011	CB-2012
Power	Micro USB	
Power Consumption	2.5W (Max)	2W (Max)
Voltage Range	USB 3.3-5.5 V	
Dimension	72.4 × 41 × 24.6 mm	
Net Weight	110 g	
Gross Weight	470 g	



CB-2021
3G-SDI to HDMI & AV Scaling Converter

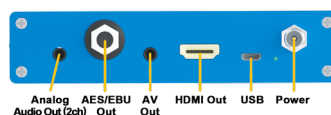
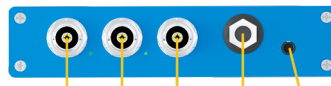
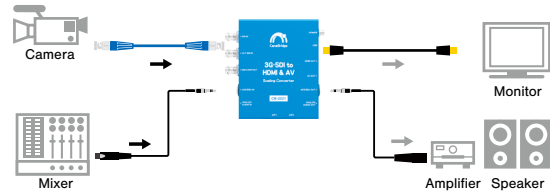
Key Features and Benefits

- Up/down scaling and frame rate conversion
- AES/EBU or Analog Audio Embedding & De-embedding
- Input signal automatic detection and configuration
- LED indicators for power and signal lock



Specifications

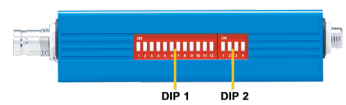
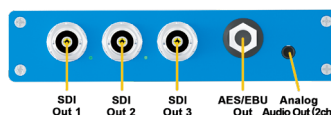
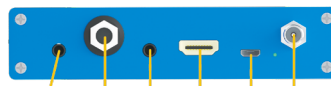
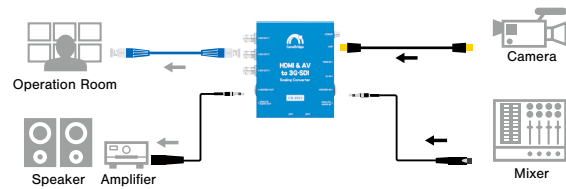
Model	CB-2021
Power	Threaded locking connector
Power Consumption	6W (Max)
Voltage Range	DC 6-24 V
Dimension	125.5 × 101.4 × 27.5 mm
Net Weight	310 g
Gross Weight	995 g



CB-2022
HDMI & AV to 3G-SDI Scaling Converter

Key Features and Benefits

- Up/down scaling and frame rate conversion
- AES/EBU or Analog Audio Embedding & De-embedding
- Input signal automatic detection and configuration
- LED indicators for power and signal lock



Website



Lifetime Support
CanaBridge 5 Identities Guarantees

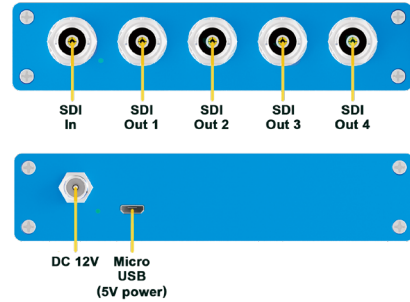
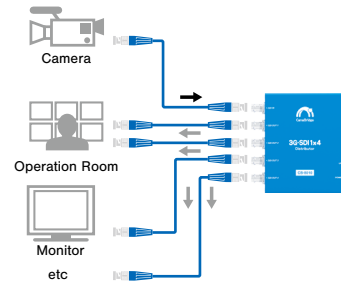


3G-SDI Solutions

CB-8010
3G-SDI 1 × 4 Distribution Amplifier

Key Features and Benefits

- Automatically detects SD, HD and 3G-SDI
- 4 buffered and re-clocked outputs
- 3G/HD/SD-SDI multi-rate signal processing
- Output 2 & 4 support DVB-ASI signal
- Automatic cable equalization and signal retiming



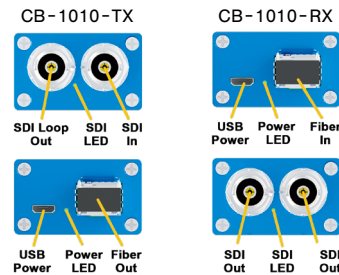
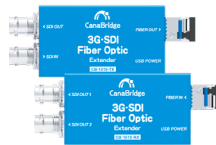
Specifications

Model	CB-8010
Power	Micro USB or Threaded locking DC connector
Power Consumption	1.5W (Max)
Voltage Range	USB 5V, DC 5-17 V
Dimension	125.5 × 101.4 × 27.5 mm
Net Weight	310 g
Gross Weight	920 g

CB-1010 (TX and RX)
3G-SDI Fiber Optic Extender

Key Features and Benefits

- 20km transmission distance
- Support 3Gbit Level A and Level B (all formats)
- SFP/LC Fiber transmitter & receiver
- SDI equalization and re-clocking
- 3G-SDI input & loopout on transmitter



Specifications

Model	CB-1010 (TX and RX)
Power	Micro USB
Power Consumption	1.5W (Max)
Voltage Range	USB 3.3-5.5 V
Dimension	72.4 × 41 × 24.6 mm
Net Weight	Transmitter: 115 g, Receiver: 115 g
Gross Weight	750 g



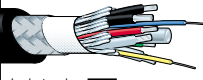
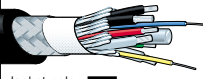
ANNEX: Regional Product Catalog

For European Market

Canare Europe GmbH is expanding its cabling product portfolio to meet European construction requirements. In Canare quality/performance, we made installation cables with appropriate FRNC and LSZH materials for broadcast infrastructures and ProAV installations.

Hybrid Fiber-optic Camera Cables (SMPTE ST311)

👑: Bestselling products

Type	Model	Sales Units (m)	Nom. O.D. (mm)	Weight kg/100m	Outer Jacket	Overall Shield	Tension Tolerance (N)	Strength Member O.D. (mm)	Min. Bend Radius	Temp. Range (deg C)	Channel Unit		
											Fiber	Aux. (Power)	Signal (Control)
 Jacket color: BLK	👑 LF-2SM9N-PUR	Call	9.2	12.0	PUR	9/24/ 0.10TA 91%	700	2.6	6 × Nom. O.D.	-40 to +75	2 × SM 9/125 (low-water- peak Unit O.D. 0.9 mm	4 × 20 AWG 21/0.18TA Unit O.D. 1.7 mm	2 × 25 AWG 7/0.18TA Unit O.D. 1.2mm
 Jacket color: BLK	👑 LF-2SM9-FRNC <small>CPR Eca</small>	Call	9.2	12.0	FRNC	9/24/ 0.10TA 91%	700	2.6	6 × Nom. O.D.	-40 to +75	2 × SM 9/125 (low-water- peak Unit O.D. 0.9 mm	4 × 20 AWG 21/0.18TA Unit O.D. 1.7 mm	2 × 25 AWG 7/0.18TA Unit O.D. 1.2mm

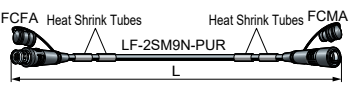
LF-2SM9N-PUR

- PUR: Polyurethane jacketed durable SMPTE cable
- Bend-resistant in extremely low temperatures

LF-2SM9-FRNC

- Fire Rated: IEC 60332-1, IEC 60754-2, and IEC 61034
- FRNC jacketed installation cable

■ Camera to CCU

Type	Model	Length (m)
 Jacket color: BLK	👑 FCC10N-PUR	10
	👑 FCC50N-PUR	50
	👑 FCC100N-PUR	100
	FCC200N-PUR	200



FCFA



FCMA

FC**N-PUR

- Heavy duty SMPTE camera cable
- For all studio and outside broadcast applications
- Assembled in Europe
- Professional service points in EU for quick support

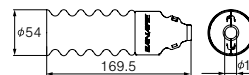
HFO Protective Covers

Any-time-fit-on protector for SMPTE connector-the new traditional

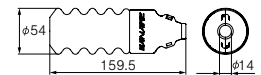
Model	Shape	Component	Color
FC-CV-F-SET-**	Female	1 × Boot	RD: Red GR: Green
FC-CV-M-SET-**	Male	1 × Holder	YL: Yellow BK: Black

Please specify the color such as FC-CV-F-SET-RD

Cover: PVC, Holder: PE



FC-CV-F-SET-GR



FC-CV-M-SET-RD

Lightweight Cable Reels

Lightweight plastic cable reels made by Schill™

Model	Flange Dim.	Description	Weight
RGT310.RM	310 mm	with auxiliary reel	1.8 kg
RGT380.RM	380 mm		4.8 kg
RGT310.MFK	310 mm	with latching door	1.4 kg
RGT380.MFK	380 mm		4.3 kg

Color: dark blue

- Canare and Schill™ collaboration
- *Schill™ is a trademark of Schill GmbH & Co. KG
- Easy to carry around
- High quality resin: durable, weatherproof and lightweight.
- Locking brake
- Latching door type (MFK) allows you to store cable connector inside reel.
- Canare special colored flange
- Rough estimate of maximum cable lengths (cable O.D.)
RGT310: L-4E6S 120 m (6 mm)
RGT380: L-5CFW 130 m (7.7 mm)
RJC6A-4P-SFM 110m (8.6 mm)
LF-2SM9N 100m (9.2 mm)



RGT310.RM



RGT380.MFK

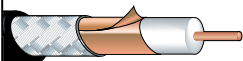



RGT380.MFK
door open

Website



CPR Rated 75Ω Coaxial Cables

Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation	Outer conductors		Inner cond. resist.	Outer cond. resist.	Static capacity	Character-istic impedance	Attenua-tion	NVP
					Comp.	O.D.		Foil	Braid comp. (coverage)						
					(AWG) Qty/mm	mm	mm			mm/ends/ carriers	Ω/km	Ω/km	pF/m	Ω	dB/100m (6 GHz)
 Ultra Coax Jacket colors: BLK BRN GRN PPL	L-3.3CUHD-FRNC 12G-SDI CPR B2ca	100 200	5.5	4.4	(21) 1/0.75A	0.75	3.3	Cu	0.12TA/ 8/16 (92%)	41.4	14.9	52	75	68.5	82
	L-5.5CUHD-FRNC 12G-SDI CPR B2ca	100 200 500 1000	7.7	7.7	(16) 1/1.35A	1.35	5.55	Cu	0.12TA/ 8/24 (92%)	12.8	10.3	52	75	39.1	86
 Super Coax Jacket colors: BLK and others	L-2.5CHD-FRNC CPR B2ca	100 200	4.2	2.8	(23) 1/0.59A	0.59	2.59	AL	0.12TA/ 7/16 (95%)	65.6	16.9	53	75	91.7	82
	L-4.5CHD-FRNC CPR Cca	100 200	7.0	6.8	(18) 1/1.02A	1.02	4.57	AL	0.15TA/ 9/16 (94%)	23.3	9.9	53	75	53.6	81

Jacket: FRNC Dielectric strength: 1000V AC/min.

L-CUHD-FRNC Series

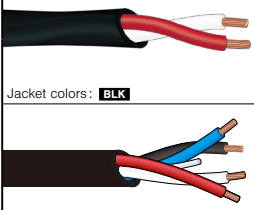
- FRNC jacketed ultra coax
- CPR Euro Class B2ca
- Specially designed for 12G-SDI
- The max. transmission distance of 4K UHD over L-5.5CUHD single link able to reach 100 m or longer*.
* Depending on receiving equipment.
- As handy as conventional coaxial cables.
- Copper foil and high-density tinned copper braided shielding.
- Highly-foamed multi-layer PE insulation

L-CHD-FRNC Series

- FRNC jacketed super coax
- CPR Euro Class B2ca or Cca
- Best suited to 3G-SDI/HD-SDI transmission
- Highly-foamed PE insulation allows further improvement in the attenuation characteristics.
- Multi-layer insulation in which to each layer is given a different foaming ratio is used to increase strength.
- High-density tinned copper braided shield with aluminum foil brings excellent shielding.

Note 1: Designed for fixed installation, please avoid repeated bending or external pressure.
Note 2: Cable strippers (TS100 series) cannot be used for L-5.5CUHD-FRNC.

CPR Rated Loudspeaker Cable

Type	Model	Sales units	Nom. O.D.	Weight	Composition				Electrical characteristics	
					No of cond.	Cross sec area(AWG)	Cond. Comp.	Twist pitch	Cond. DCR	Nom ca-pacitance*
 Jacket colors: BLK	2S1.5FG-CCA New CPR Cca	in multiples of 100 m	7.0	6.8	2	1.52(16)	28/0.26 OFC	45	1.26	60.2
	2S2.5FG-CCA New CPR Cca		9.1	11.5	2	2.45(14)	50/0.25 OFC	55	0.9	62.5
	4S2.5FG-CCA New CPR Cca		10.9	21.1	4	2.45(14)	50/0.25 OFC	80	0.76	—
	4S4.0FG-CCA New CPR Cca		13.9	34.2	4	3.96(12)	56/0.30 OFC	100	0.44	—

* Capacitance between conductors.

2S**FG-CCA / 4S**FG-CCA Series

- FRNC jacket installation cable
- Fire Performance Tested according to EN 50399, EN 61034-2, EN 60754-2.
- CPR Euroclass Cca-s1a, d1, a1
- Oxygen-free copper conductors

ANNEX: Regional Product Catalog

Converters, HFO Transmission Devices

Converters

12G-SDI EO/OE Converters 12G-SDI						1 slot
12G	6G	3G	HD	SD	DVB-ASI	
Electric to Optic Converter (TX)			Optic to Electric Converter (RX)			
1310 nm	1 × LC	1 × 75Ω BNC	1260-1650nm	1 × LC	1 × 75Ω BNC	
1 EO12G-100B			2 OE12G-101B			
1271-1451nm for CWDM	1 × LC	1 × 75Ω BNC				
3 EO12G-100A-**						

- Capable of Pathological Test Pattern transmission
- 12G-SDI Optical transmission: 12km (typ.)

12G-SDI Repeater 12G-SDI						1 slot
12G	6G	3G	HD	SD	DVB-ASI	
4 EE12G-100						2 × 75Ω BNC

- 12G-SDI Cable Reach : 100 m over L-5.5CUHD (Typ.)
- Capable of Pathological Test Pattern transmission

3G-SDI EO/OE Converters						
3G	HD	SD	DVB-ASI			
Electric to Optic Converter (TX)			Optic to Electric Converter (RX)			
1310 nm	1 × LC	1 × 75Ω BNC	1200-1620nm	1 × LC	1 × 75Ω BNC	
5 EO3G-100			6 OE3G-101			
1310 nm	1 × LC	2 × 75Ω BNC	1200-1620nm	1 × LC	2 × 75Ω BNC	
7 EO3G-200			8 OE3G-201			
1271-1611nm for CWDM	1 × LC	2 × 75Ω BNC				
9 EO3G-100A-**						

- Capable of Pathological Test Pattern transmission (SMPTE RP-178, 198 Check Field Test Pattern)

HFO Transmission Devices

26 FCBK4-12G 12G-SDI						
12G	6G	3G	HD	SD	DVB-ASI	
FCFRA (Female)			4 × OE12G-101B			
FCBK4-FF5W1-12G						
FCFRA (Female)			4 × OE12G-101			IDX V-plate
FCBK4-FF5W1-12G-PV						
FCMRA (Male)			4 × EO12G-100A			
FCBK4-FM5W2-12G						
FCMRA (Male)			4 × EO12G-100A			IDX V-plate
FCBK4-FM5W2-12G-PV						

27 FCBA4-3G						
3G	HD	SD	DVB-ASI			
FCFRA (Female)			4 × OE3G-101			
FCBA4-FF5W1						
FCFRA (Female)			4 × OE3G-101			IDX V-plate
FCBA4-FF5W1-PV						
FCMRA (Male)			4 × EO3G-100A			
FCBA4-FM5W2						
FCMRA (Male)			4 × EO3G-100A			IDX V-plate
FCBA4-FM5W2-PV						

Regionally Exclusive Sales

Analog Audio Optical Converters						5 slots
Analog Audio						
1310 nm	1 × SC	1 × D sub 25 pin(F)	1550 nm	1 × SC	1 × D sub 25 pin(F)	
10 TRM-540			TRM-541			
1471-1611 nm for CWDM						2 × LC
11 TRM-540A-**						1 × D sub 25 pin(F)

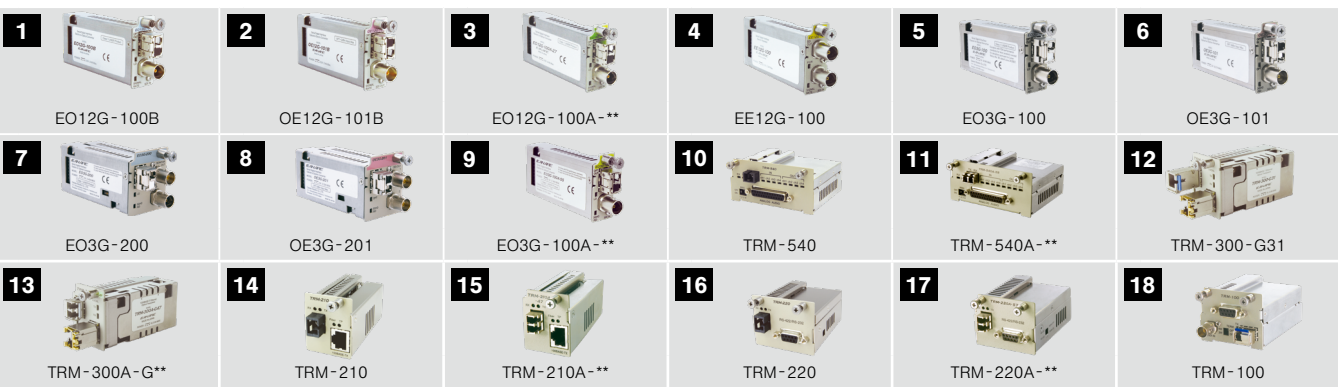
- Enables line level audio signals to transmit long distance over a fiber-optic cable.

1000BASE-T Optical Converters						2 slots
1000BASE-T						
1310 nm	1 × SC	1 × RJ45	1550 nm	1 × SC	1 × RJ45	
12 TRM-300-G31			TRM-300-G55			
1471-1611 nm for CWDM						2 × LC
13 TRM-300A-G**						1 × RJ45

- Media converters for Gigabit Ethernet 1000BASE-T

100BASE-TX Optical Converters						2 slots
100BASE-TX						
1310 nm	1 × SC	1 × RJ45	1550 nm	1 × SC	1 × RJ45	
14 TRM-210			TRM-211			
1471-1611 nm for CWDM						2 × LC
15 TRM-210A-**						1 × RJ45

- Media converters for Fast Ethernet 100BASE-TX



Active Devices for Broadcasting, Live Production, and ProAV

Converters, Platforms, Stand Alone Kit, CWDM Mux/Demux, Optical Splitter

Please note that certain products on these pages may not be eligible for sale due to non-compliance with local regulations, including but not limited to UL, CE, KC certifications, and voltage specifications. Contact us for further information.

Website



RS-422/RS-232 Optical Converters

3 slots

RS-422 RS-232

1310 nm 1 × SC 1 × Dsub 9 pin(F) 1550 nm 1 × SC 1 × Dsub 9 pin(F)

16 TRM-220 TRM-221

1471-1611 nm for CWDM 2 × LC 1 × Dsub 9 pin(F)

17 TRM-220A-**

• TIA-422, SMPTE ST 207, RS-232

18 HD-SDI/RS-485 Optical Converters

3 slots

HD-SDI + RS-485 SD-SDI + RS-485

TRM-100 1 × LC 1 × Dsub 9 pin(F)

TRM-101 1 × LC 1 × Dsub 9 pin(F)

19 NTSC/Audio/Data Optical Converters

3 slots

NTSC + Audio + RS-422 + Relay

TRM-400 1 × SC 1 × BNC 2 × Terminal Block

TRM-401 1 × SC 1 × BNC 2 × Terminal Block

20 7ch Relay signal/RS-232/422 Optical Converters

3 slots

7ch Relay + RS-232/422

TRM-230 1 × SC 1 × Circular Connector 2 × Terminal Block

TRM-231 1 × SC 1 × Circular Connector 2 × Terminal Block

CWDM Mux/Demux

Slot-in Module Types

8 slots

8 ch

30 FCWDM-8B 1471-1611 nm FCWDM-8B-13 1271-1451 nm

1RU Rack Mount Types

8 ch

31 FCWDM8/1A 1471-1611 nm FCWDM8/1A-13 1271-1451 nm

2 each of 8 ch

32 FCWDM8/2A 2 each of 1471-1611 nm FCWDM8/2A-13 2 each of 1271-1451 nm

16 ch

33 FCWDM16A 1271-1611 nm

Platforms

1RU rack mount type

16 Number of Slots

Power Supply Unit

21 161UPS-LC

• One power supply module installed as standard equipment

WEPZ0340

• Optional redundant power supply module

• AC 100-240V to DC 5V adapter, AC Inlet Type C14, AC Cable not included

Portable type

6 Number of Slots

Power Supply Unit

22 6PSC-**

• Hot swappable

Palm size

2 Number of Slots

Power Supply Unit

23 2PSC

• Hot swappable

Stand Alone Kit

24 WMM0190

• a clamping bracket (one side)

25 WEPZ0258

• AC 100-240V to DC 5V adapter, Plug Type A No CE marking

Optical Splitter

1 × 2 Splitter for Single Mode Fiber

34 FDM-2

1 × 4 Splitter for Single Mode Fiber

35 FDM-4

• Divides single optical input into multiple optical output.

• Passive and stand-alone products.

• Can be loaded into platform for Canare plug-in unit.

• Easy to use-Just plug in SC-type connectors.

• Low insertion loss.



TRM-400



TRM-230



161UPS-LC



6PSC-**



2PSC



WMM0190



WEPZ0258



FCBK4 series



FCBA4 series



FCBK series



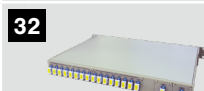
FCBA series



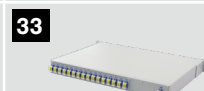
FCWDM-8B



FCWDM8/1A



FCWDM8/2A



FCWDM16A



FDM-2



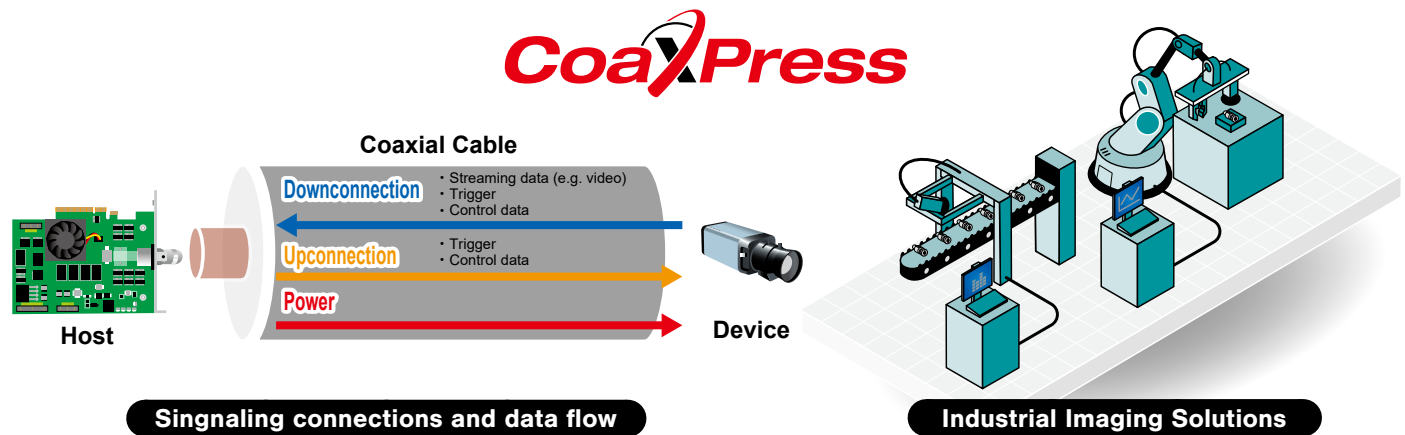
FDM-4

ANNEX: Tech Trend for Machine Vision

CoaXPress

CoaXPress

CoaXPress (CXP) is a standard for imaging technology for industrial machineries. Japan Industrial Imaging Association (JIJA) released CXP in December 2010. The standard specifies an interface that enables high-speed connection between cameras and frame grabbers over 75Ω coaxial cables. It achieves data transfer of up to 12.5 Gbps from the camera to the frame grabber, control signals such as trigger signals from the frame grabber to the camera of up to 41.7 Mbps, and a power supply of 13W (Power-over-Coax). For higher data transfer speed, link aggregation allows data to be distributed and transferred over multiple cables. Version 2.0 adds 10 and 12.5 Gbps and enhances the protocol.



Cables and Connectors

CoaXPress specifies applicable cables shall be 75Ω coaxial type and shall be selected depending on data rate of applications. The connectors shall be 75Ω BNC and MicroBNC connectors for up to 12.5 Gbps data transfer, and DIN 1.0/2.3 connectors up to 6.25 Gbps. DIN connectors can be used for multiple data link as well. CoaXPress verifies cable and connectors upon manufacturer's request. The certified cable and connectors can be found on their website at [<https://jiia.org/en/cxp/>].

Specifications 1: CXP Coax Cables

Type	Impe- dance	Bit Rate (Gbps)	Max. Attn. (dB)	@ Freq. (GHz)	Low Speed Attn. (dB)	DC Resistance (Round Trip)	Suggested Distance with Approx. 15% Margin				
							L-2.5CHD	L-3.3CUHD	L-4.5CHD	L-5.5CUHD	L-8CUHD
CXP-1	75Ω (±4Ω)	1.25	21.2	0.625	≤4.74 @30MHz	<4.98Ω	56m	81m	99m	144m	208m
CXP-2		2.5	26.0	1.25			52m	70m	89m	123m	176m
CXP-3		3.125	26.8	1.5625			48m	64m	81m	112m	160m
CXP-5		5.0	20.9	2.5			29m	39m	49m	68m	96m
CXP-6		6.25	15.8	3.125			20m	27m	34m	47m	60m
CXP-10		10.0	20.8	5.0	21m		27m	34m	47m	65m	
CXP-12		12.5	17.9	6.25	16m		19m	26m	35m	50m	

Note: Cable distances for CXP-6 and CXP-12 are based on JIJA ECT (Electric Compliance Test) program.

Specifications 2: CXP Connectors

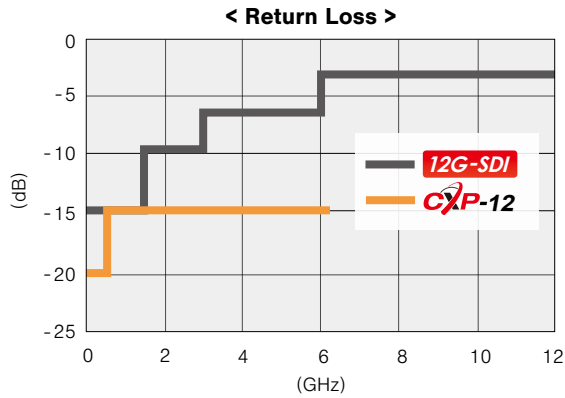
Type	Normative Reference	Impedance	Contact Material	Return Loss	CXP Speed	Canare
BNC	IEC 61169-8	75Ω (±4Ω)	Center: Gold plated Outer: Nickel or white bronze plated	0 - 500MHz : 20dB 500MHz-6.25GHz: 15dB	Up to CXP-12	BBCP-D BCP-B
MicroBNC	N/A		Center: Gold plated Outer: Gold plated			HBCP-D
DIN 1.0/2.3	IEC 61169-29		Center: Gold plated Outer: Gold plated		Up to CXP-6	DCP-C

Why Canare?

Canare has industry-leading expertise and a proven track record in SDI transmission within the broadcasting industry. The transmission requirements for 12G-SDI and CXP-12 are very similar, allowing us to widely leverage the coaxial cable transmission technology we have developed over the years.

Comparison : 12G-SDI and CXP-12

Format	12G-SDI	CXP-12
Bit Rate	11.88Gbps	12.50Gbps
Impedance	75Ω	75±4Ω (TDR)
Cable Loss	40dB @5.94GHz	17.9dB @6.25GHz
Return Loss	4dB @12GHz	15dB @6.25GHz

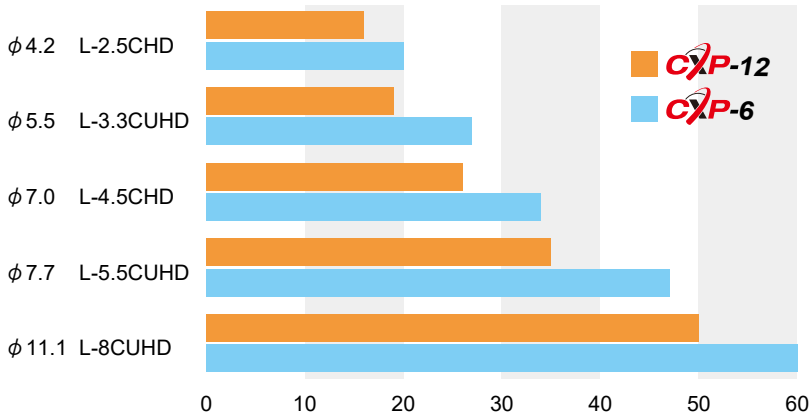


Canare CXP-6/12 Products (for fixed installations)

Coax Cable	UL Type	BNC	MicroBNC	DIN 1.0/2.3 (up to CXP-6)	Die Set
L-2.5CHD	CMR	BCP-B25HD BCP-LD25HD	HBCP-D25HDA	DCP-C25HD	BCP : TCD-35CA HBCP & DCP: TCD-D253F
L-3.3CUHD		BCP-D33UHD	HBCP-D33UHDA	N/A	BCP : TCD-35CA HBCP: TCD-D253F
L-4.5CHD		BCP-B53	HBCP-D53A	DCP-C53	BCP : TCD-35CA HBCP & DCP: TCD-D534F
L-5.5CUHD		BCP-D55UHD	HBCP-D55UHD	N/A	TCD-55UHD
L-8CUHD		BCP-D8UHD	N/A	N/A	TCD-8HD

Canare CXP-6/12 Cable Assemblies Maximum Lengths

Coax Cable		CXP-6	CXP-12	Memo
L-2.5CHD		20m	16m	-
L-3.3CUHD		27m	19m	DIN not available
L-4.5CHD		34m	26m	-
L-5.5CUHD		47m	35m	DIN not available
L-8CUHD		60m	50m	BNC both ends only
End Connectors	BNC both	Yes	Yes	See page 89-90 for more information
	MicroBNC both	Yes	Yes	
	DIN both	Yes	-	
	BNC-MicroBNC	Yes	Yes	
	BNC/MicroBNC-DIN	Yes	-	



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ISO 9001
ISO 14001
BUREAU VERITAS
Certification



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