

CANARE

27D

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
HDMI Cables

Hi-Fi
Phone Plugs

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IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

IP Connectivity Products

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

Introduction

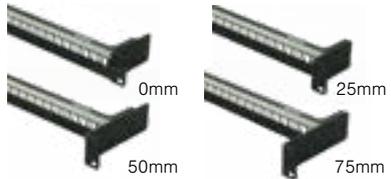
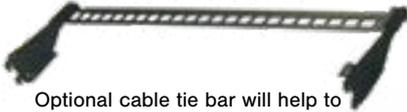
Canare has launched its own series of IP connectivity solutions. The new series includes patch panels, couplers, and looping plugs. By evaluating existing IP products, we re-engineered items and specialized them for IP broadcasting systems, IP OB-Vans, and other IP-based A/V applications.

Design Concept

Canare's engineer thought compatibility would be a significant aspect of being accepted throughout IP-based broadcast as well as audio-visual applications. The Keystone style is IEC standardized snap-in construction. We recognize keystone's modularity will provide flexible solutions to all system integrators, live production, and studio engineers.



Unique 7 Points

<p>1 Unified Design</p>  <p>Canare IP panels are similar in appearance to our video patchbays.</p>	<p>3 Non-Splitted Designation Strip</p>  <p>8.5 × 426mm free designation area to write on.</p>	<p>6 No Special Tool</p>  <p>For interchanging couplers, just use a flathead screwdriver.</p>
<p>2 Mobile Truck Ready</p>  <p>Tested through heavy-duty vibration for live production applications.</p>	<p>4 Wide Range of IP Interface</p>  <p>Choose from 12 types of IP couplers.</p>	<p>7 Depth Adjustable Front Mount</p>  <p>In case of space efficiency, patching surface can be recessed 25mm, 50mm or 75mm deeper.</p>
<p>5 Cable Tie Bar</p>  <p>Optional cable tie bar will help to optimize wiring support.</p>		

24-Port Keystone IP Patchbays

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

Standard panel color: Black.

24-Port Keystone IP Panel

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

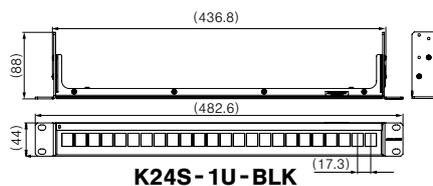
Standard panel color: Black.

Key Features and Benefits

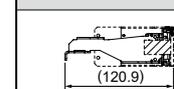
- Unified design
- Robust construction
- 8.5 × 426mm free designation area
- Can be recessed 25mm.
- Ground stickers attached

Note: 50 or 75mm recessed panel mount by M-MA1U02A (see page 79)

Website



M-KB01 Attachment



Accessories

Model	Description
M-KB01 New	Cable Tie Bar
SG032-T30 New	Grounding Cable 3.2m, Terminated with M3 Round Terminal (RT) one end, 1pc of M6 RT attached.
SG002-T36 New	Grounding Cable 0.2m, Terminated with M3 RT one end, and M6 RT another end.

- Grounding cables are ideal for shielded Cat6A panels and a rack.



< Panel with Tie Bar >

Keystone IP Couplers

Type	Appearance	Model	Description	Standards
RJ45 Cat 6A		New RJ45-J6A	RJ45 Coupler	IEC 60603-7 ANSI/TIA-568-C.2
		New RJSJ-J6A	RJ45 Coupler (shield)	
DLC		New FKDLJ-JS	DLC Coupler (SM)	JIS C 5964-20 IEC 61754-20 IEC 60603-7
		New FKDLJ-JM	DLC Coupler (MM)	
		New FKDLJ-JS-S	DLC Coupler with Shutters (SM)	
		New FKDLJ-JM-S	DLC Coupler with Shutters (MM)	

Key Features and Benefits

- 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.

Website

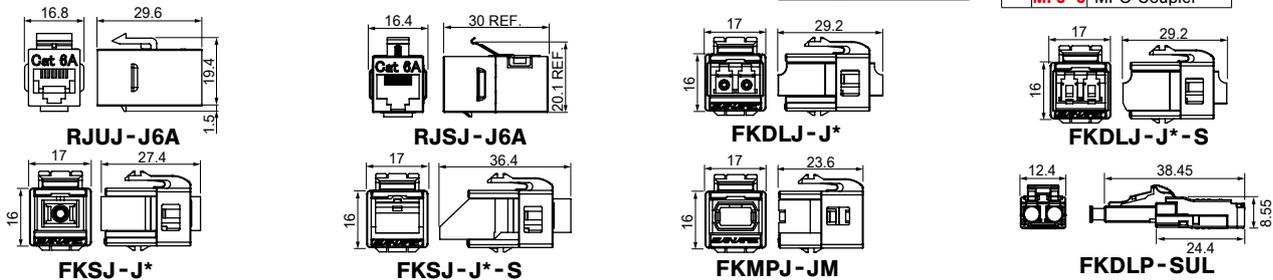


LC Duplex Multi-Fiber Optic Loop-Back

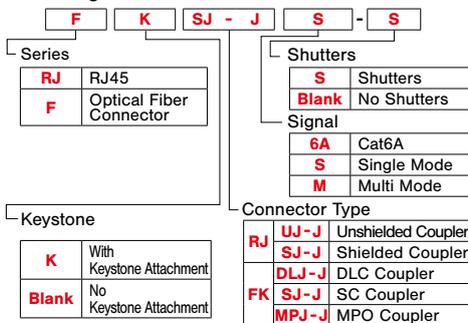
Appearance	Model	Description	Couplers
	New FKDLP-SUL	DLC Loop-Back, U-link (SM)	FKDLJ-JS FKDLJ-JS-S

Key Features and Benefits

- Loop signal for maintenance
- Built-in dust cap holder



<Ordering Information>



SFP Optical Transceivers

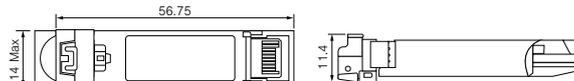
Fiber Type	Model	Description
Single Mode	TRP-011-DC13 New	1GbE SFP type
Single Mode	TRP-101-DC13 New	10GbE SFP+ type
Single Mode	TRP-251-DI13 New	25GbE SFP28 type
Multi Mode	TRP-010-DC08 New	1GbE SFP type
Multi Mode	TRP-100-DC08 New	10GbE SFP+ type
Multi Mode	TRP-250-DC08 New	25GbE SFP28 type

Key Features and Benefits

- Reliable and high-performance generic optical transceiver
- Compliant with MSA : Multi-source agreement
- Broadcast IP system, data center, and telecommunications
- 1-year product warranty

Specifications

Model	TRP-011-DC13	TRP-101-DC13	TRP-251-DI13	TRP-010-DC08	TRP-100-DC08	TRP-250-DC08
Optical Connector	2 × LC	2 × LC	2 × LC	2 × LC	2 × LC	2 × LC
Wavelength	1310nm	1310nm	1310nm	850nm	850nm	850nm
Fiber Type	SM 9/125	SM 9/125	SM 9/125	MM 50/125	MM 50/125	MM 50/125
Reach	10km	10km	10km	550m (OM3)	300m (OM3)	70m (OM3)
Standards	IEEE802.3z 1000BASE-LX	IEEE802.3ae 10GBASE-LR/LW	IEEE802.3cc 25GBASE-LR	IEEE802.3z 1000BASE-SX	IEEE802.3ae 10GBASE-SR/SW	IEEE802.3by 25GBASE-SR
Tx Output Power	-9.5dBm to -3.0dBm	-8.2dBm to +0.5dBm	-7.0dBm to +2.0dBm	-9.5dBm to -4.0dBm	-7.1dBm to -1.0dBm	-8.4dBm to +2.4dBm
Rx Sensitivity	< -21dBm	< -14.4dBm	< -12.0dBm	< -18.0dBm	< -9.9dBm	< -10.3dBm
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
Dimensions (mm)	14(W) × 11.4(H) × 56.75(D)	14(W) × 12.45(H) × 57.3(D)	14(W) × 12.45(H) × 57.3(D)	14(W) × 13.35(H) × 56.6(D)	13.8(W) × 11.9(H) × 56.5(D)	13.8(W) × 11.9(H) × 56.5(D)
Weight	17g	18g	26g	16g	17g	18g



TRP-011-DC13

IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

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

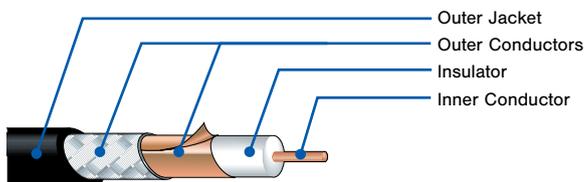
The lengths are based on SMPTE standards and will vary depending on receiving equipment.

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 59)

BNC Connectors and Patchbays

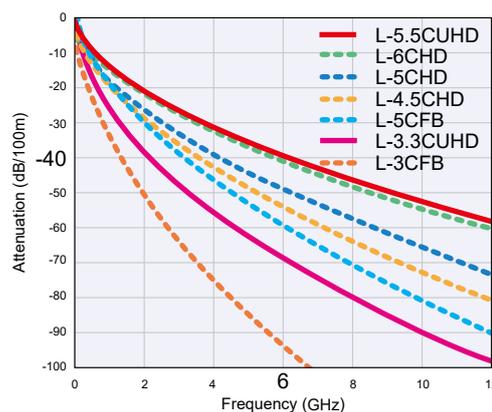
BNC connectors and video patchbays should be fully matched with 12G coax cables. Canare developed these products over the years of improvements in order to exceed SMPTE requirements.



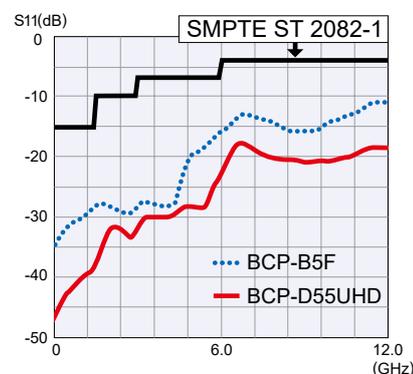
BCJ-BPLHK (page 23)

MCVJKA-ST* (page 68)

Nominal Attenuation



Return Loss



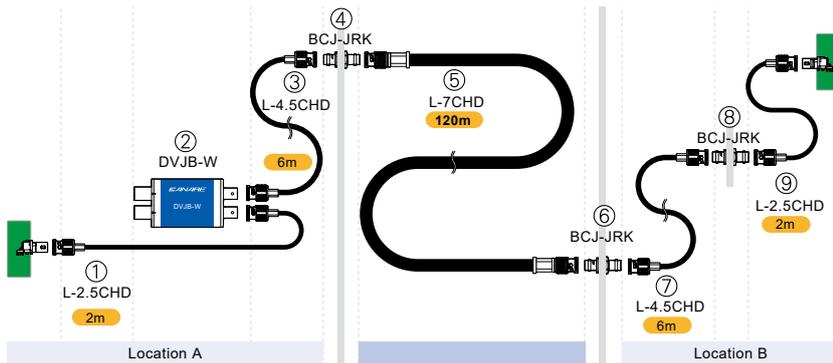
12G-SDI

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.

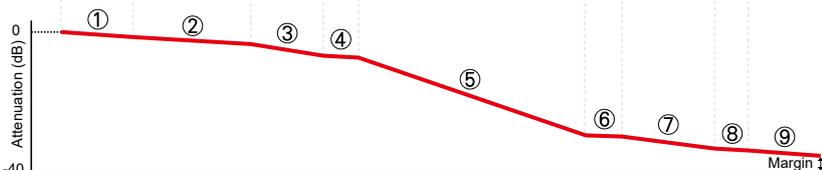
Note: Exceptions may apply.

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)

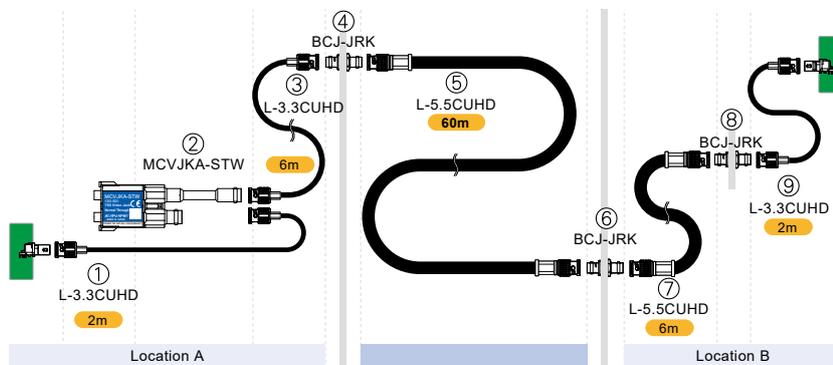
Attenuation Graph



Typical Value

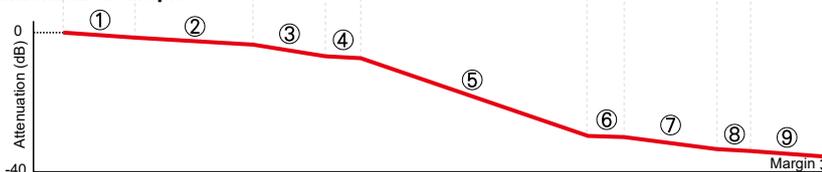
Factor	① L-2.5CHD	② DVJB-W	③ L-4.5CHD	④ BCJ-JRK	⑤ L-7CHD	⑥ BCJ-JRK	⑦ L-4.5CHD	⑧ BCJ-JRK	⑨ L-2.5CHD	BNC Plugs	Total (dB)	Limit (dB)	Margin (dB)
Q'ty	2	1	6	1	120	1	6	1	2	10	26.3	30.0	3.7
Unit	m	pcs	m	pcs	m	pcs	m	pcs	m	pcs			
dB/unit	0.431	0.9	0.251	0.2	0.159	0.2	0.251	0.2	0.431	0.1			
dB	0.862	0.9	1.506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

Technical Trend

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								

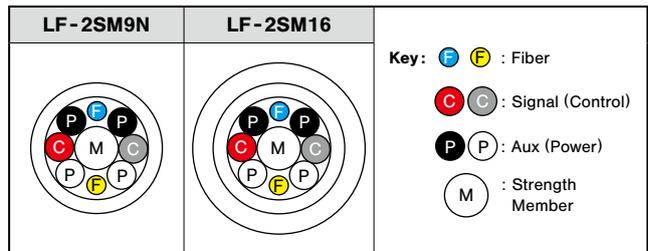
LF-2SM9N

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

Website



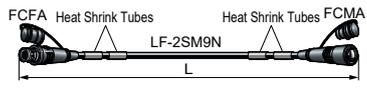
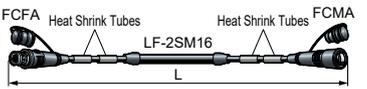
Cross Section



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 11)

Website



FCC** - N

Website



FCC**A - WJ



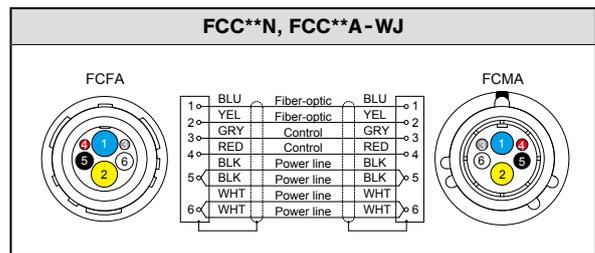
FCFA



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 YL: Yellow BK: Black
FC-CV-M-SET-**	Male	1 × Holder	

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

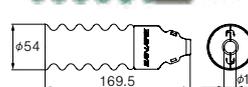
Cover: PVC, Holder: PE

- 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

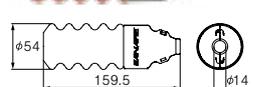
Website



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



FC-CV-F-SET-GR



FC-CV-M-SET-RD



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

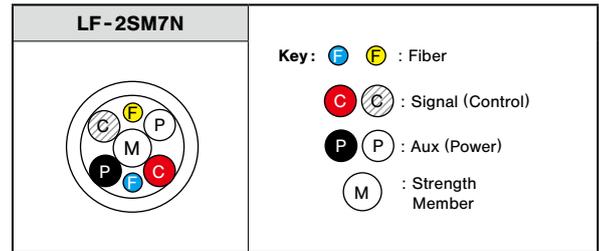
- O.D. 7 mm of slim profile and approx. 40% lighter than LF-2SM9N.
- Best fit for mobile applications.
- The power transmission distance is approx. twice as long as the previous model LF-2SM7R.

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

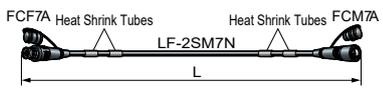
Website



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

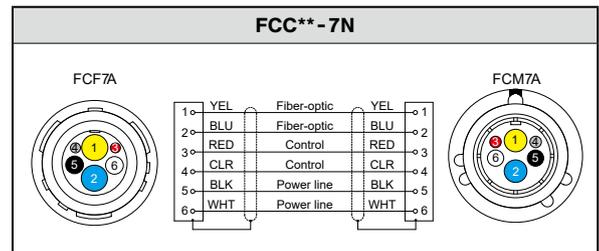
Jacket color: **BLK**

- 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 11)



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



IP Connectivity Products

Technical Trend

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.

Website

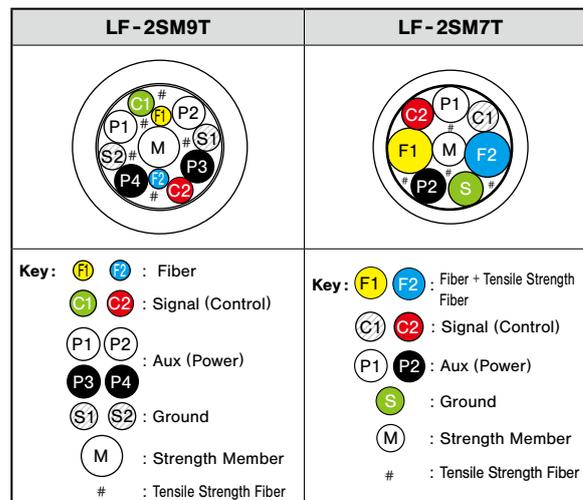


LF-2SM7T

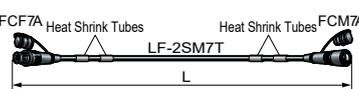
- Flexible, Slim, Lightweight, and moreover, Heavy-duty.
- Ideal for short-distance remote broadcast applications of up to 200 meters.
- O.D. 7.1 mm and weighing only 5.5 kg/100 m, it's so easy to carry around.
- Minimum bend radius: 7.1 mm.
- Fiber units include tensile strength fiber.

Note: The power supply distance of LF-2SM7T is shorter than other HFO camera cables. (approx. 30% of LF-2SM9N)
LF-2SM7T requires a special technique during a connector assembly, so you can buy the cable assemblies shown below.

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



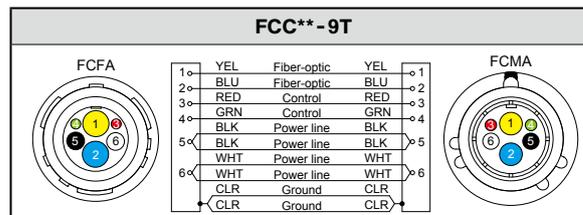
FCFA, FCF7A



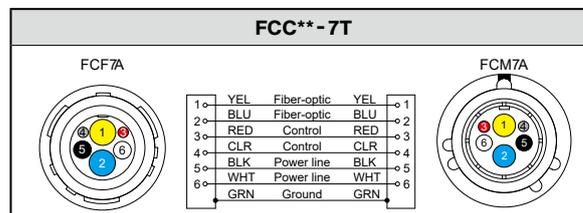
FCMA, FCM7A



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
Jacket color: BLK IU-FCF-SET included		
	FCC05N-FMRC	5
	FCC10N-FMRC	10
Jacket color: BLK IU-FCM-SET included		

* Canare OC series (Hybrid-OPS profile) is also available. (see page 11)

- 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 11)

- 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.

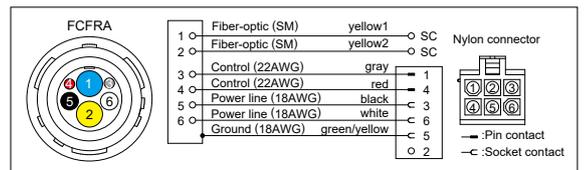
Website



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.

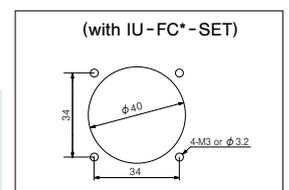


IU-FC*-SET

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.

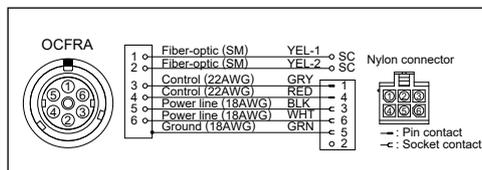
Connector type

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

Website



OCS015-FR



Wiring Diagram for OCS

SMPTE Conversion

F C M 0 2 N - O C F

Connector A

FCM : FCMA
FCF : FCFA

Lengths

02 = 2meters
Call for custom lengths.

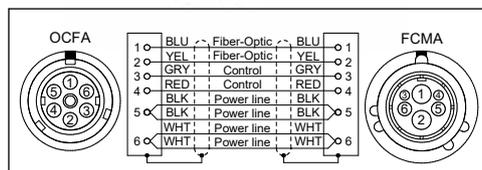
Connector B

OCF : OCFA
OCM : OCMA

Website



FCF02N-OCM



Wiring Diagram for Conversion

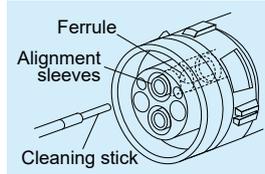
Cable type: LF-2SM9N
Call for custom models.

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. US Patent: No.7241055B2



- 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

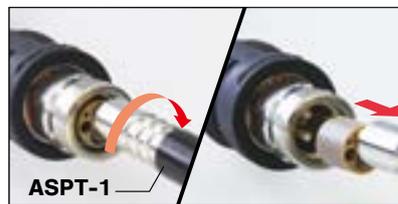


Cleaning guide for female connectors

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.

■ FC Series FCFA / FCF7A / FCFRA / FCFRCA



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



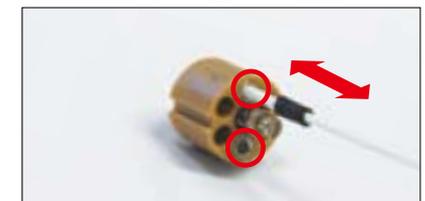
2 Clean up ferrules

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.



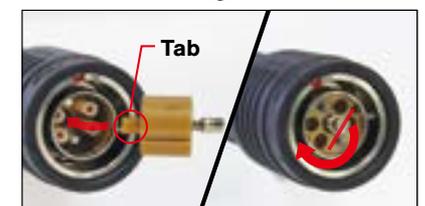
3 Dust away on alignment sleeves

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.



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.

Website

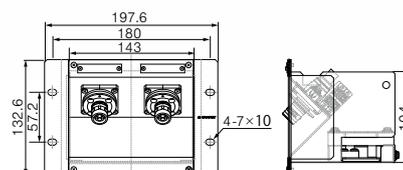


■ COPS Series (SMPTE)

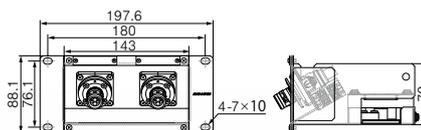
Model	Panel Size	HFO Connectors* (Assembly)
COPS-FF3A	Wall Mount Type 3RU Height, W: 197.6mm	2 × FCFRA (FCS003A-FR)
COPS-FM3A		2 × FCMRA (FCS003A-MR)
COPS-FF2A	Wall Mount Type 2RU Height, W: 197.6mm	2 × FCFRA (FCS003A-FR)
COPS-FM2A		2 × FCMRA (FCS003A-MR)
COPS3-FF3A	Rack Mount Type 3RU	6 × FCFRA (FCS003A-FR)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

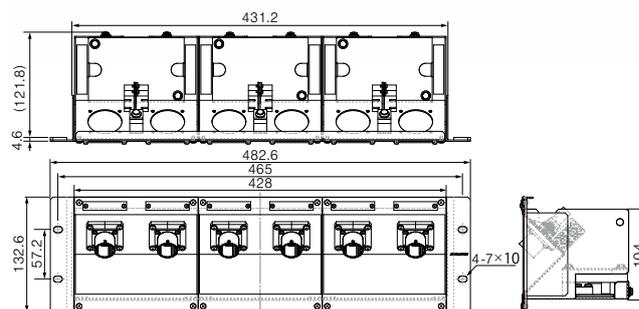
*Canare OC series (Hybrid-OPS profile) is also available. Please contact us for more details.



COPS-FF3A



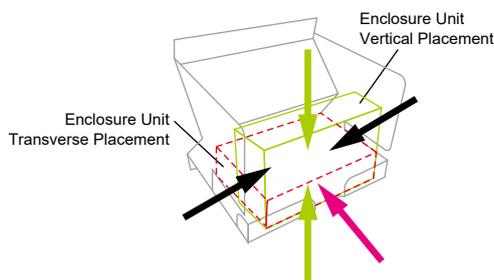
COPS-FF2A



COPS3-FM3A

Key Features and Benefits

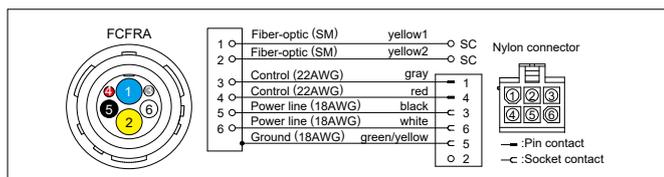
- Exclusive "5-directional Wiring"
- Convenient to build I/O interface between HD facilities and HD OB vans
- Variety of choice of 2RU/3RU and wall/rack mount
- Pre-terminated HFO connectors reduce installation time dramatically.
- Cost effective
- Lightweight aluminum chassis



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)

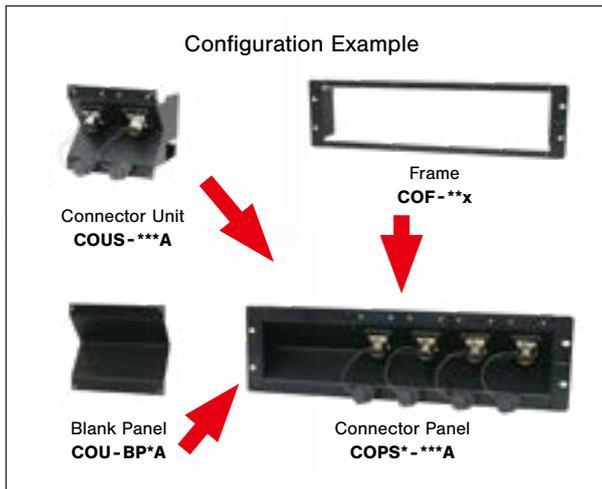
Individual Frame and Unit

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)	

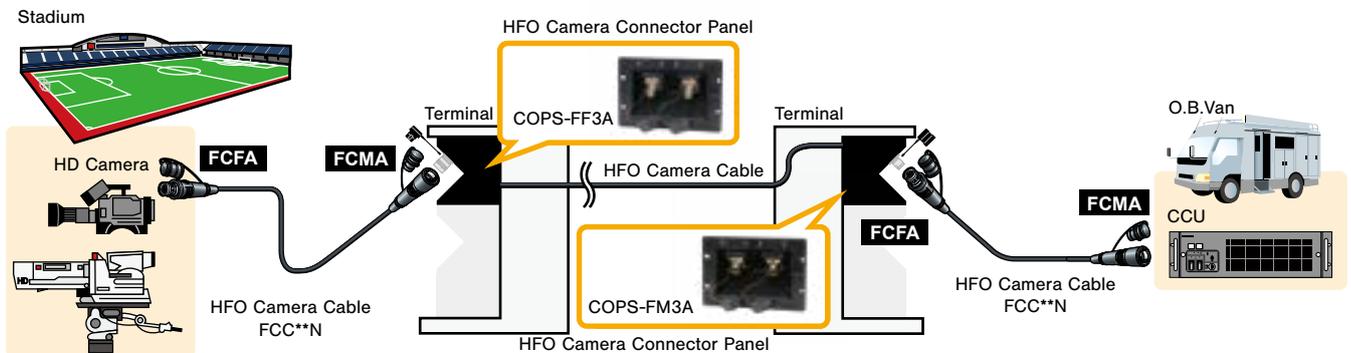
*HFO connectors are pre-terminated. (length: 0.3 m)
 *Canare OC series (Hybrid-OPS profile) is also available. Please contact us for more details.

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>



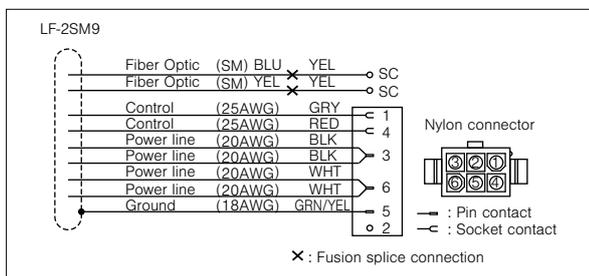
Hybrid Fiber-optic Splice Enclosures

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

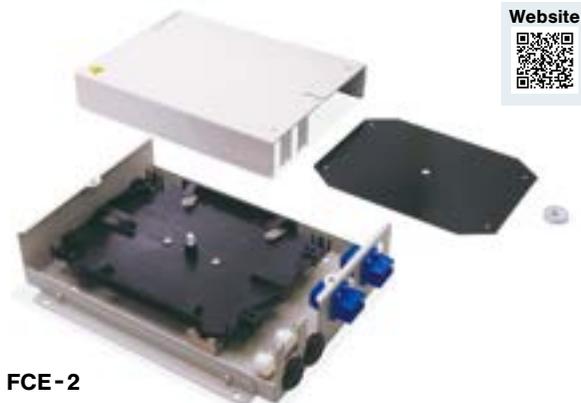
- Used to protect fusion splice connection parts
- Designed for use with LF-2SM9N
- Easy cable installation
- Can be placed vertically or horizontally
- Detachable brackets and a connector protection cover
- Insulated tension member clamp

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)



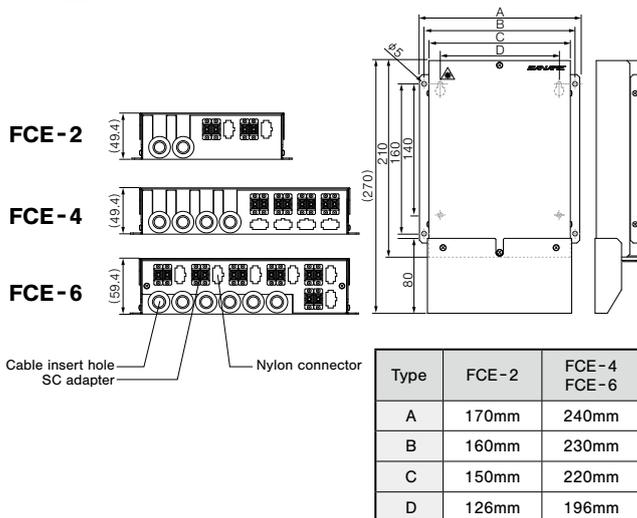
Wiring Diagram

Website



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.



IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Fiber - Optic Systems

Multi-Channel Snake

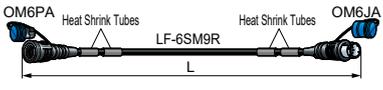
Multi-Channel Fiber Optic Cables

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**



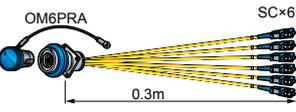
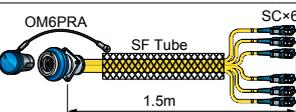
OM6PA



OM6JA

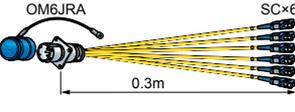
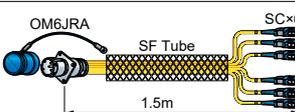


Fantail : P Receptacle to SC

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



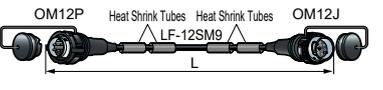
OM6PRA



OM6JRA

OM12 Series

Trunk Cable : Plug - Jack

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

Jacket color: **BLK**



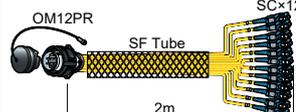
OM12P



OM12J

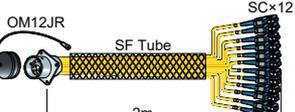


Fantail : P Receptacle to SC

Type	Model	Length (m)
	New OM12S02-PR	2

Jacket color: **YEL**

Fantail : J Receptacle to SC

Type	Model	Length (m)
	New OM12S02-JR	2

Jacket color: **YEL**

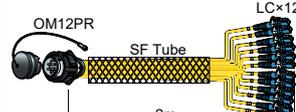


OM12PR



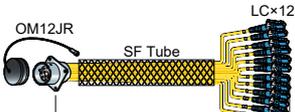
OM12JR

Fantail : P Receptacle to LC

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

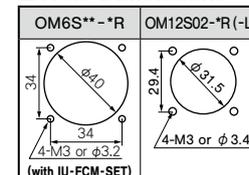
Jacket color: **YEL**

Fantail : J Receptacle to LC

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

Jacket color: **YEL**

Hole Dimensions



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

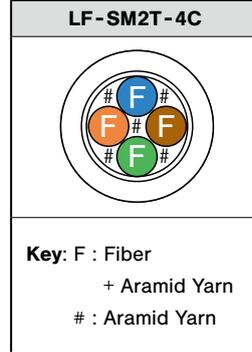
Jacket color: **BLK**

Jacket: TPU

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

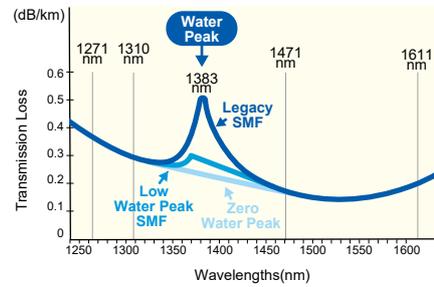
Type	Model	Length (m)
	4FS50T-SS	50
	4FS100T-SS	100
	4FS150T-SS	150
	4FS200T-SS	200
	4FS50T-LS	50
	4FS100T-LS	100
	4FS150T-LS	150
	4FS200T-LS	200
	4FS50T-ST	50
	4FS100T-ST	100
	4FS150T-ST	150
	4FS200T-ST	200

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	



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					

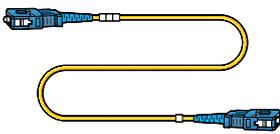
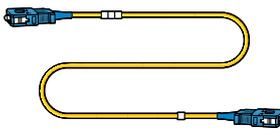
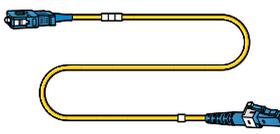
LF-SM2-6C
Jacket color: **YEL**

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

Fiber - Optic Systems

Fiber - optic Cables

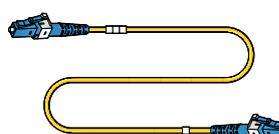
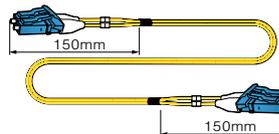
Single-mode Fiber Optic Patch Cables

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
SC - SC 	FS2C002A - SS	0.2
	FS2C003A - SS	0.3
	FS2C005A - SS	0.5
	FS2C007A - SS	0.7
	FS2C01A - SS	1
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

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
LC - LC Duplex 	2FSZ2S005A - DLS	0.5
	2FSZ2S007A - DLS	0.7
	2FSZ2S01A - DLS	1
	2FSZ2S02A - DLS	2
	2FSZ2S03A - DLS	3

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

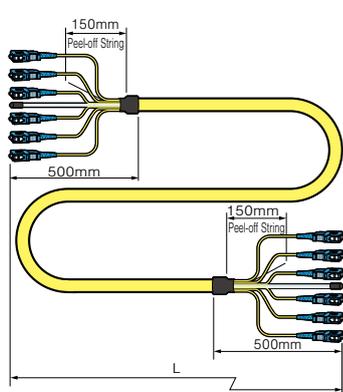
Jacket color: **YEL** Cable O.D.: 2 mm

- 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

Website



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	2	7.4
		2FS20 - S	20			
		2FS50 - S	50			
	4	4FS10 - S	10	LF - SM2 - 4C	2	7.4
		4FS20 - S	20			
		4FS50 - S	50			
	6	6FS10 - S	10	LF - SM2 - 6C	2	9.0
		6FS20 - S	20			
		6FS50 - S	50			
	8	8FS10 - S	10	LF - SM2 - 8C	2	10.0
		8FS20 - S	20			
		8FS50 - S	50			
12	12FS10 - S	10	LF - SM2 - 12C	2	12.8	
	12FS20 - S	20				
	12FS50 - S	50				
16	16FS10 - S	10	LF - SM2 - 16C	2	14.7	
	16FS20 - S	20				
	16FS50 - S	50				
24	24FS10 - S	10	LF - SM2 - 24C	2	15.3	
	24FS20 - S	20				
	24FS50 - S	50				

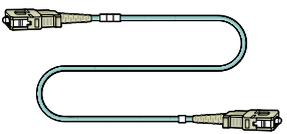
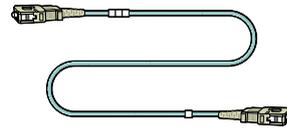
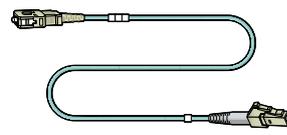
Jacket color: **YEL**

- 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 $\lambda=1.55\mu\text{m}$

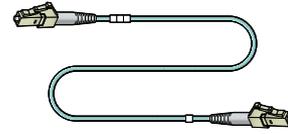
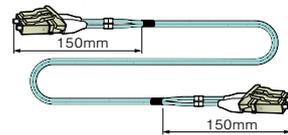
Website



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

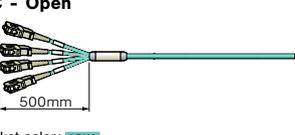
- Fiber type : Multi-mode 50/125 OM3
- Typically used in 10 Gigabit Ethernet
- Minimum bend radius: 10 mm

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

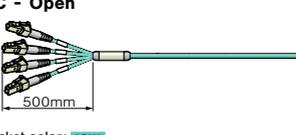
- Insertion loss : 0.3 dB max.
- Return loss : 30 dB max. (PC)
- UL type OFNR



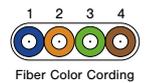
OM3 Multi-mode Fiber Optic Fan-out Cables

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

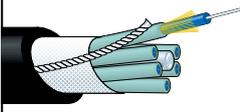
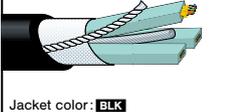
- 4-core Multimode 50/125 OM3 Ribbon Fiber
- Typically used in 10 Gigabit Ethernet
- Insertion loss : 0.3 dB max.
- Return loss : 30 dB max. (PC)

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-M32-4C-EM	4	Call	7.4	5.6	290	6 × Nom. O.D.	-20 to +60	MM 50/125	3 dB/km @850nm 1 dB/km @1300nm	2.0 (round)
	LF-M32-6C-EM	6		9.0	7.5	300					1.5 × 2.5 (ribbon)
	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					

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.

75Ω BNC Crimp Plugs

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.

Website



■ BCP-D Series **12G-SDI**

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

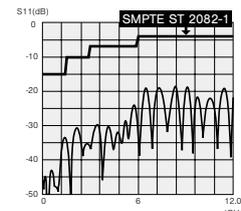
Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
BCP-D33UHD	L-3.3CUHD	—	BN1181	BN7003A	CB03	TCD-35CA
BCP-D33UHW <small>New</small>	L-3.3CUHWS	—	BN1181	BN7015A	CB04	TCD-451CA
BCP-D55UHD	L-5.5CUHD	—	BN1175	B75004A	—	TCD-55UHD
BCP-D55UHW <small>New</small>	L-5.5CUHWS	—	BN1192	BN7014	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

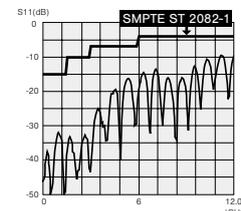
Return Loss: 26.4 dB @ 3 GHz

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

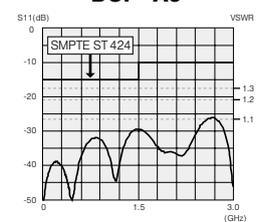
Note: Suitable die set for BCP-A5F is TCD-35CA; do not use TCD-5CF/TCD-55FA for BCP-A5F.

- 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-LD25HD



BCP-LC3

■ BCP-LC Series (Right Angle)

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

Model	Suitable Cable		Center Pin	Sleeve	Boot	Die Set
	Canare	Others				
Coming soon 12G-SDI BCP-LD25HD	L-2.5CHD	—	BN1223	BN7129	—	TCD-35CA
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)

*3: Excluding BCP-LD25HD

- 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

75Ω Slim BNC Crimp Plugs

■ MBCP-C Series

Return Loss : 26.4 dB @ 1.5 GHz (*4)

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)

*4: Excluding MBCP-C25F

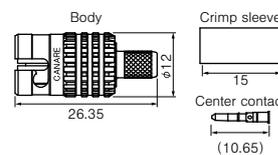
- Slim design : O.D. 12 mm
- Compatible with 75Ω BNC receptacles.
- Canare crimp design ensures quick and reliable installation.
- Gold plated "snap locks" center pin and beryllium copper outer contact.

Be sure to use Canare Crimp Tool

Website



Slim BNC Plug
Standard BNC Plug



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)

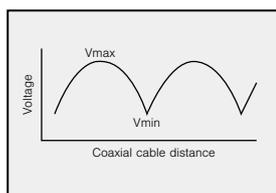


Fig. 1 Voltage Distribution Over Coaxial Cable

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

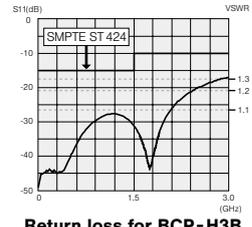
Model	Suitable Cable	
	Canare	Others
BCP-H3B	L-3C2VS, L-3C2V, L-3CFB	—
BCP-H31F	L-3CFW	—
BCP-H45HW	L-4.5CHWS	1694F
BCP-H5B	L-5C2VS, L-5C2V, L-5CFB	—
BCP-H51F	L-5CFW, L-5CFB	—
BCP-H5/1	L-3C2VS, L-3C2V, L-3CFB L-5C2VS, L-5C2V, L-5CFB	—

• 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



Return loss for 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

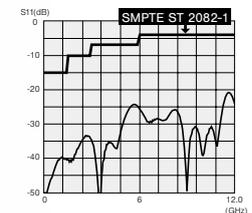
• Standard package (20pcs/100pcs)

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



BCJ-JK

12G-SDI



Return loss for BCJ-JK

75Ω BNC Termination Plugs

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

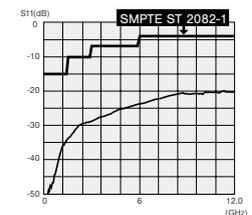
• Standard package (20pcs/100pcs)

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



BCP-TK

12G-SDI



Return loss for BCP-TK

Connector Boots

■ CB0* Series

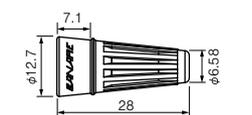
Our best selling connector boots for Canare BNC, TNC crimp plugs.

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
New CB055W	BLK	D55UHW		

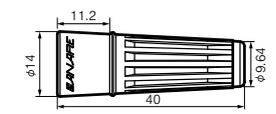
■ CB2* Series

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

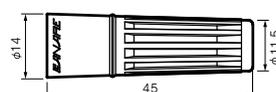
Model	Colors Available	Typical Connectors		
		MBCP-**	RCAP-**	FP-**
CB24		C3F	C3A, C3F	C3, C3F
CB25	BLK BLU GRN RED YEL WHT	C4, C4F	C3GS, C4A, C4F	C31, C4, C4F
CB26		C5F	C53, C5A, C5F	C5, C53A, C5F



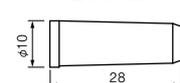
CB01, CB02



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-JRUBK		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

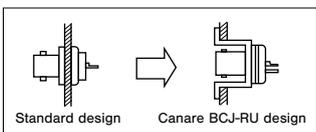
Model	Description	Flange
BCJ-R	Rear-mount	—
BCJ-R/1	Rear-mount, w/Ground Lug	—
BCJ-RU	Flush-mount	ITT XLR-F77
BCJ-RUD		Neutrik D
BCJ-RUDB		Neutrik D (Black)

- 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-JRUBK

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

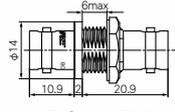
Insulation Bushing

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:

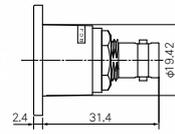
- 1.2 to 1.5 mm: BCJ-DCJ, BCJ-FPLHA, BCJ-FPLV-12G, BCJ-FPLV-L, BCJ-FPLVA, BCJ-HBCJK, BCJ-R/1
- 1.2 to 3.0 mm: BCJ-FC1-7/16, BCJ-FPC, BCJ-FPC02, BCJ-FPLV01, BCJ-JRK, BCJ-JR, FJ-JR, FJ-FPC, NCJ-BCJR, RJ-JR

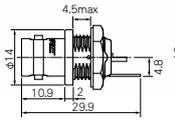
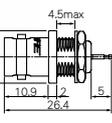
Website



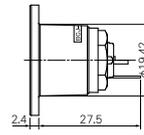
BCJ-JRK

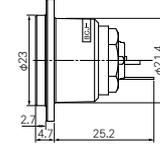
BCJ-JRUK

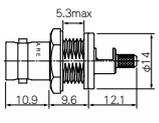
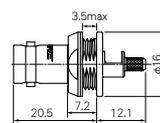
BCJ-R/1
BCJ-R/1
BCJ-R

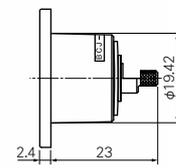
BCJ-RU

BCJ-RUD

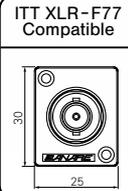




BCJ-FC1-7/16
BCJ-FC1-7/16
BCJ-FC1

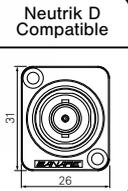



BCJ-RUC1

ITT XLR-F77
Compatible



Neutrik D
Compatible

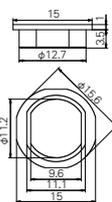
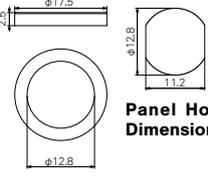




Website



IU-7/16

Panel Hole Dimensions

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 New	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)

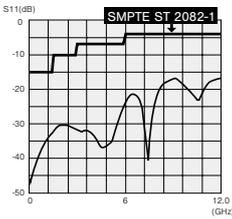
< Return loss >

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

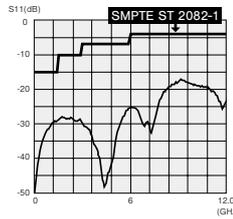
BCJ-BPLHA : 26 dB @ 1.5 GHz, 20 dB @ 3 GHz

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

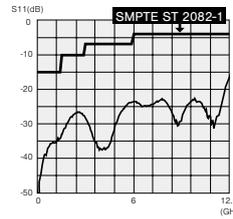
BCJ-BPC2P : 26 dB @ 1 GHz, 20 dB @ 2.5 GHz



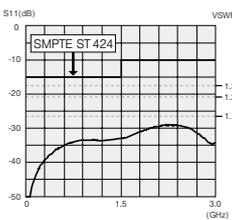
BCJ-BPLHK



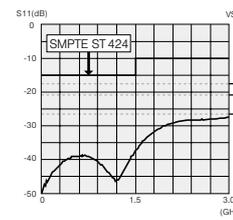
BCJ-BPLHK2P



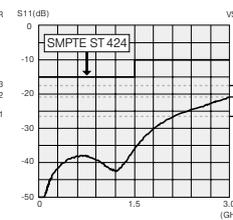
BCJ-BPCK



BCJ-BPLHA



BCJ-BPLH2PA



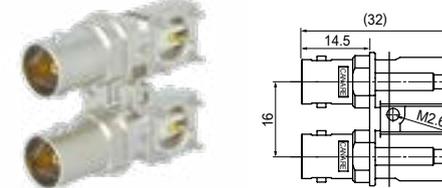
BCJ-BPC2P



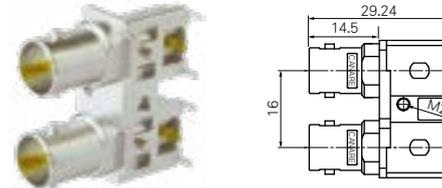
BCJ-BPLHK
12G-SDI



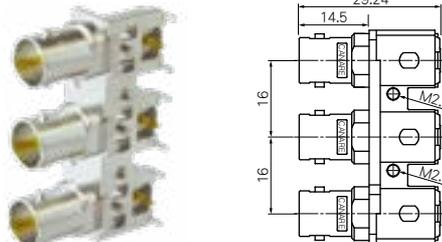
BCJ-BPLHA



BCJ-BPLHK2P
12G-SDI



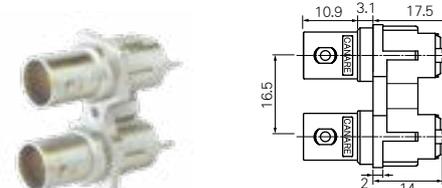
BCJ-BPLH2PA



BCJ-BPLH3PA



BCJ-BPCK
12G-SDI



BCJ-BPC2P

	BCJ-BPLHK	BCJ-BPLHA	BCJ-BPLHK2P BCJ-BPLH2PA	BCJ-BPLH3PA	BCJ-BPCK	BCJ-BPC2P
Panel Hole Dim.						
PCB Hole Dim.						



Website

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

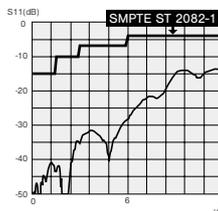
* BCP-FP series accept insulation bushing IU-7/16, and the panel hole for IU-7/16 should be adopted in this case. (see page 22)

<PC Board Hole Dimensions>

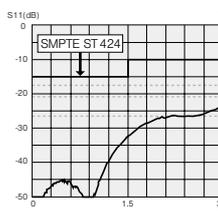
BCJ-FPLV-12G	BCJ-FPLVA BCJ-FPLV01 BCJ-FPLHA	BCJ-FPLV-L	BCJ-FPC BCJ-FPC02	BCJ-RPC



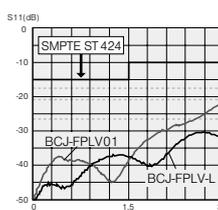
BCJ-FPLV-12G
12G-SDI



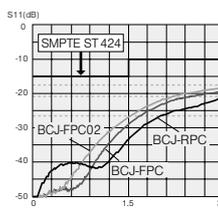
Return loss for BCJ-FPLV-12G



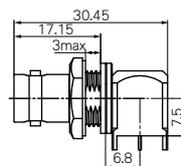
Return loss for BCJ-FPLV01



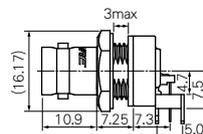
Return loss for BCJ-FPLV-L



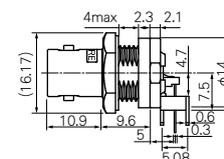
Return loss for BCJ-FPC, BCJ-FPC02, BCJ-RPC



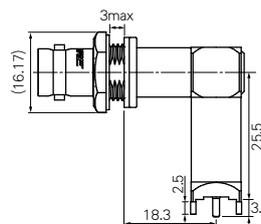
BCJ-FPLV-12G



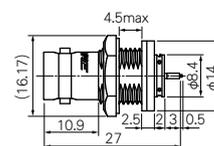
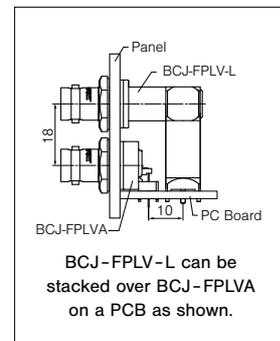
BCJ-FPLVA



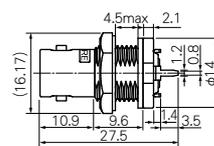
BCJ-FPLV01



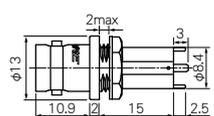
BCJ-FPLV-L



BCJ-FPC



BCJ-FPC02



BCJ-RPC



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	125 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



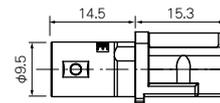
BCAK-RS



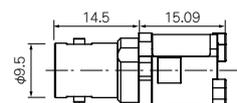
BCAK-BL



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

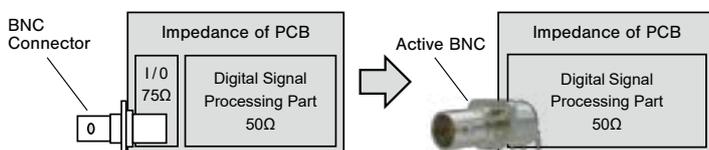
Small BNC connector incorporates either a cable equalizer or a cable driver. Active BNC makes innovation in your 3G-SDI PC board layout.



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

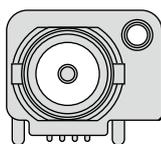
- BNC connector integrated with a cable equalizer or a cable driver, and yet keep the connector size to a minimum.
- Support 3G/HD/SD-SDI
- Offers an excellent return loss performance without designing 75Ω I/O Circuit
- Simplifies PCB design process dramatically and will reduce entire development cost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



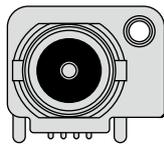
Simplify Your Circuit Design

<Color Identifications>

Example) front view of Right Angle



TX
Insulation color white



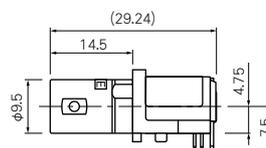
RX
Insulation color black

■ 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	



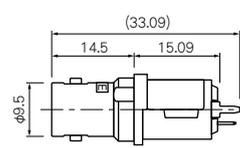
BCA-TL



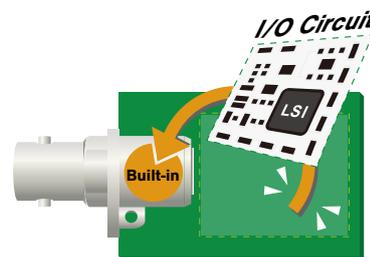
(Right Angle)



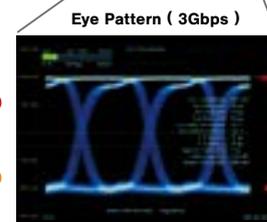
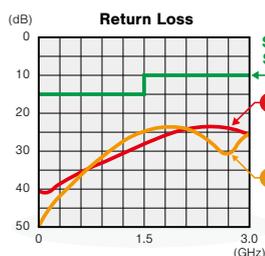
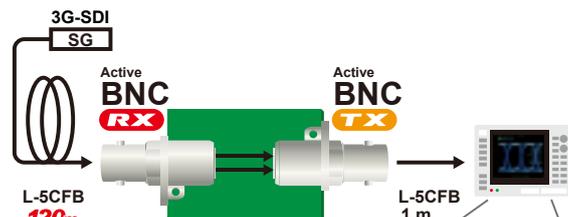
BCA-RS



(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>t2.0 (TOP VIEW)</p> <p>Pin 8 5 1234 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 1: GND 2: SDO- 3: SDO+ 4: Vcc</p>	<p>t2.0 (TOP VIEW)</p> <p>Pin 4321 5 8 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 1: GND 2: SDO- 3: SDO+ 4: Vcc</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				
New HBCP-D25HDA	L-2.5CHD, L-2.5CHLT	1855A	BN1214	BN7136	TCD-D253F	BET-D/H, BET-HBNC, Common Tool
New HBCP-D25HWA	L-2.5CHWS, V4-2.5CHW	—	BN1214	BN7141		
New HBCP-D33UHDA	L-3.3CUHD	—	BN1215	BN7003A		
New HBCP-D53A	L-4.5CHD	1694A	BN1218	BN7016	TCD-D534F	BET-D/H Common Tool
New HBCP-D55UHD	L-5.5CUHD	—	BN1219	B75004A	TCD-55UHD	

• Standard package (20 pcs)

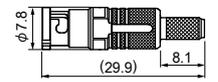
Key Features and Benefits

- 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.

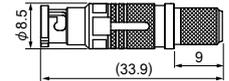
Be sure to use Canare Crimp Tool



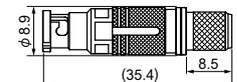
HBCP-D25HDA



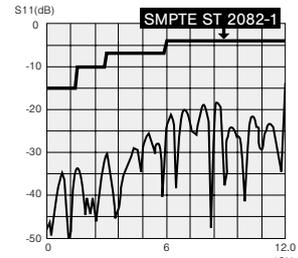
HBCP-D25HDA



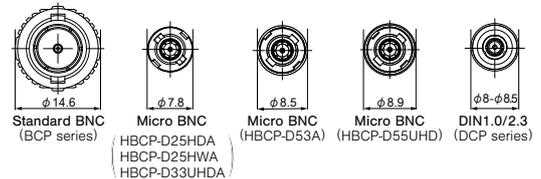
HBCP-D53A



HBCP-D55UHD

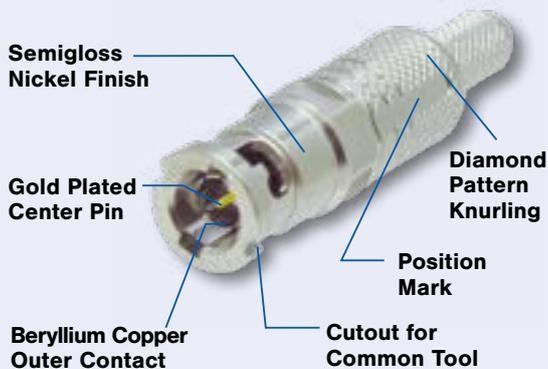


Return loss for HBCP-D25HDA



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 New	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



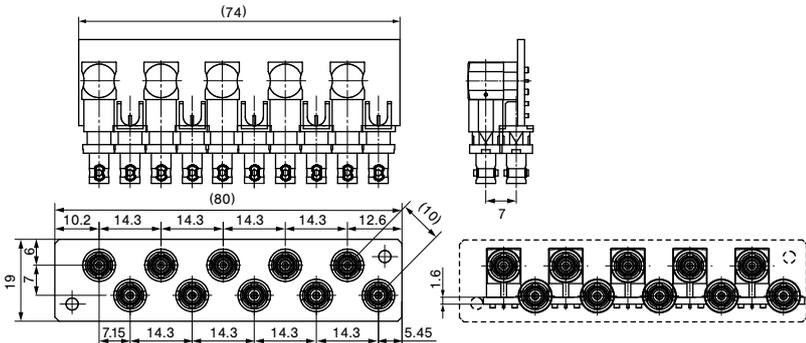
BET-D/H

PCB Mount Receptacles 12G-SDI

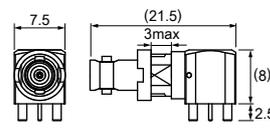
Return Loss: 20 dB @ 3 GHz, 10 dB @ 12 GHz

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.



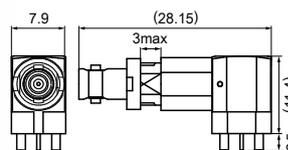
HBCJ-LRK



HBCJ-LRK



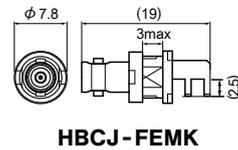
HBCJ-LRK/1



HBCJ-LRK/1



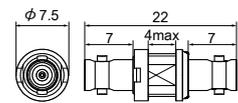
HBCJ-FEMK



HBCJ-FEMK



HBCJ-JRK



HBCJ-JRK

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	

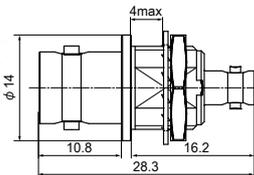
- Standard package (20 pcs)
- SMPTE ST 2082-1 compliant
- Panel mountable

Tool

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

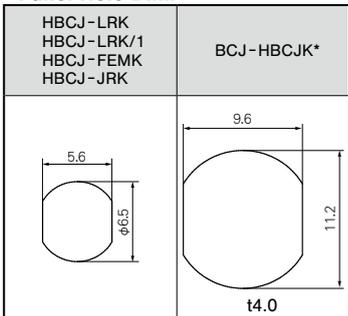


BCJ-HBCJK

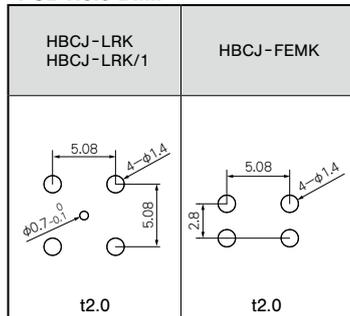


BCJ-HBCJK

<Panel Hole Dim.>



<PCB Hole Dim.>



NDT-HBC*

* Torque driver not included.

* BCJ-HBCJK accept insulation bushing IU-7/16. See page 22 for the panel hole with IU-7/16.

IP Connectivity Products

Technical Trend

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.

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

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.

75Ω N to BNC Adapter

Return Loss : 26.4 dB @ 2 GHz

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

• Standard package (1pc)

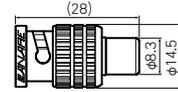
- Beryllium copper (gold plated) is used on the center contact for its superior spring characteristics.
- Return loss : 26.4 dB @ 2 GHz
- Panel mountable as well. For isolation from the panel, use Canare isolation bushing IU-7/16.(see page 22)



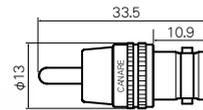
BCJ-DC



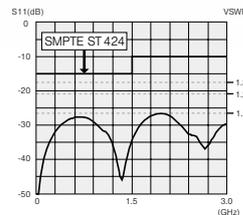
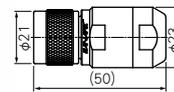
BCP-RCAJ



BCJ-RCAP



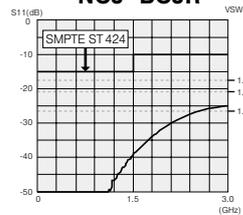
NCP-H8HD



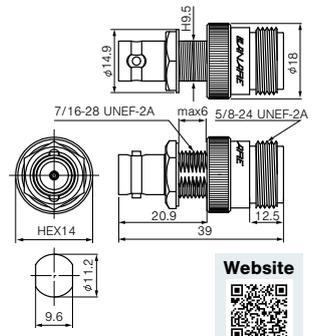
Return loss for NCP-H8HD



NCJ-BCJR



Return loss for NCJ-BCJR



Panel Hole Dimensions



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 39)

US Patent No.: 8764473 B2

Be sure to use Canare Crimp Tool

■ PCB Mount Receptacles

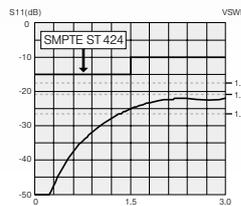
Return Loss: 20.8 dB @ 3 GHz

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

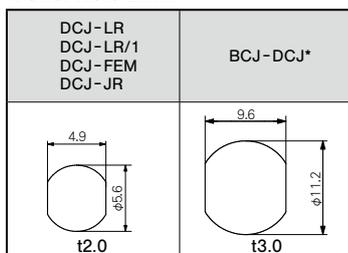
Model	Description	Panel Mount	Nut Driver Bit
DCJ-JR	Jack to Jack	Yes	NDT-DIN
BCJ-DCJ	BNC Jack to DIN1.0/2.3 Jack	Yes	N/A
BPC-DCJ	BNC Plug to DIN Jack	No	N/A

• Standard package (20 pcs)

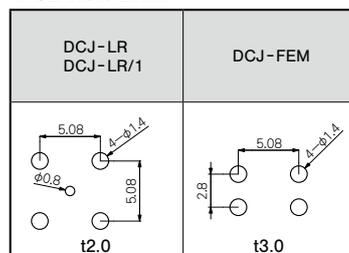
- Return loss: 26.4 dB or greater up to 3 GHz.

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 22 for the panel hole with IU-7/16.

■ Nut Driver Bit

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



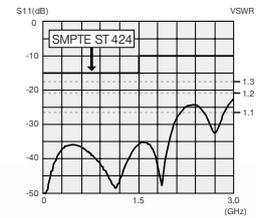
NDT-DIN*

* Torque driver not included

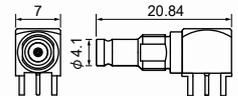


Website

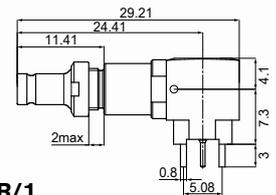
DCP-C25HD



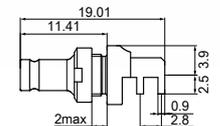
Return Loss for DCP-C25HD



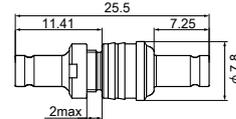
DCJ-LR



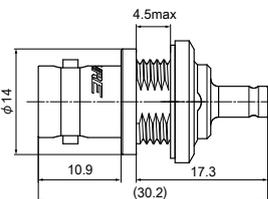
DCJ-LR/1



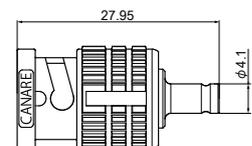
DCJ-FEM



DCJ-JR



BCJ-DCJ



BPC-DCJ

Connectors

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

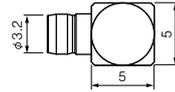
• Standard package (20 pcs)



KCM-PC



KCM-LR

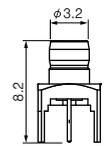


KC to BNC Conversion Adapter **12G-SDI**

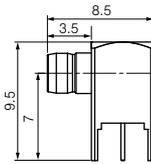
Model	Description	Nut Driver Bit
BCJ-KCM	Rear Mount, Hex Nut	—
BCJ-FKCM	Front Mount, Grooved Nut	NDT-7/16

• 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

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)



BCJ-KCM



BCJ-FKCM



KC1.2R-****-S

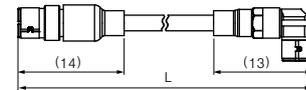


KC1.2R-****-L

<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

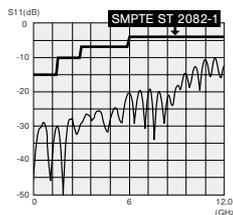
Custom length available. Contact for the details.



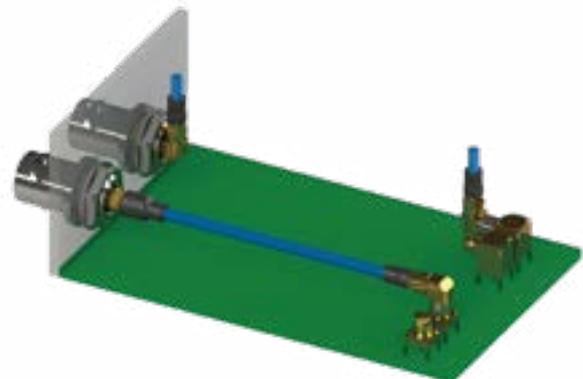
KC1.2R-****-SL

Key Features and Benefits

- 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

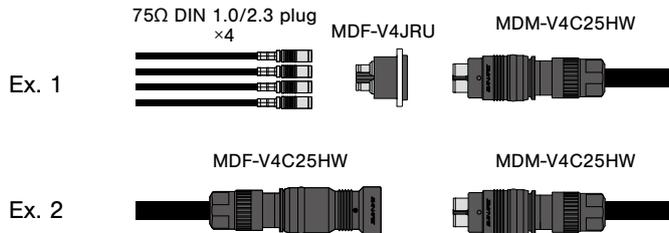
Return Loss: 20 dB @ 3 GHz

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



IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

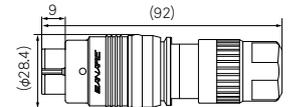
Panels & Patchbays

Multichannel Systems

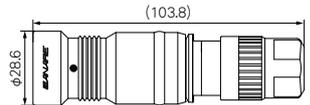
Cable Assemblies



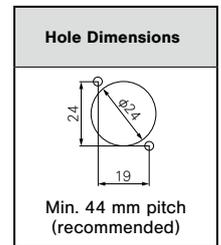
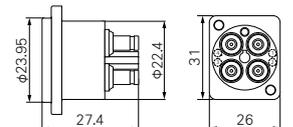
MDM-V4C25HW



MDF-V4C25HW



MDF-V4JRU



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

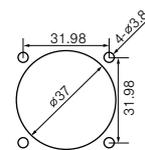
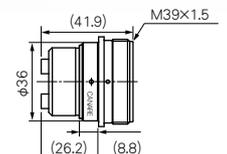
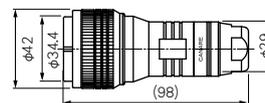
Be sure to use Canare Crimp Tool



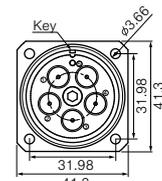
MCM-V5C3



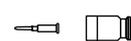
MCF-V5C3



Panel Hole Dimensions
(Mounting screw M3 × 4 pcs)



Replacement Unit **BN9078A**



Replacement Unit **BN9079B**

Connectors

75Ω Triaxial Connectors

75Ω Triaxial Connectors

Website



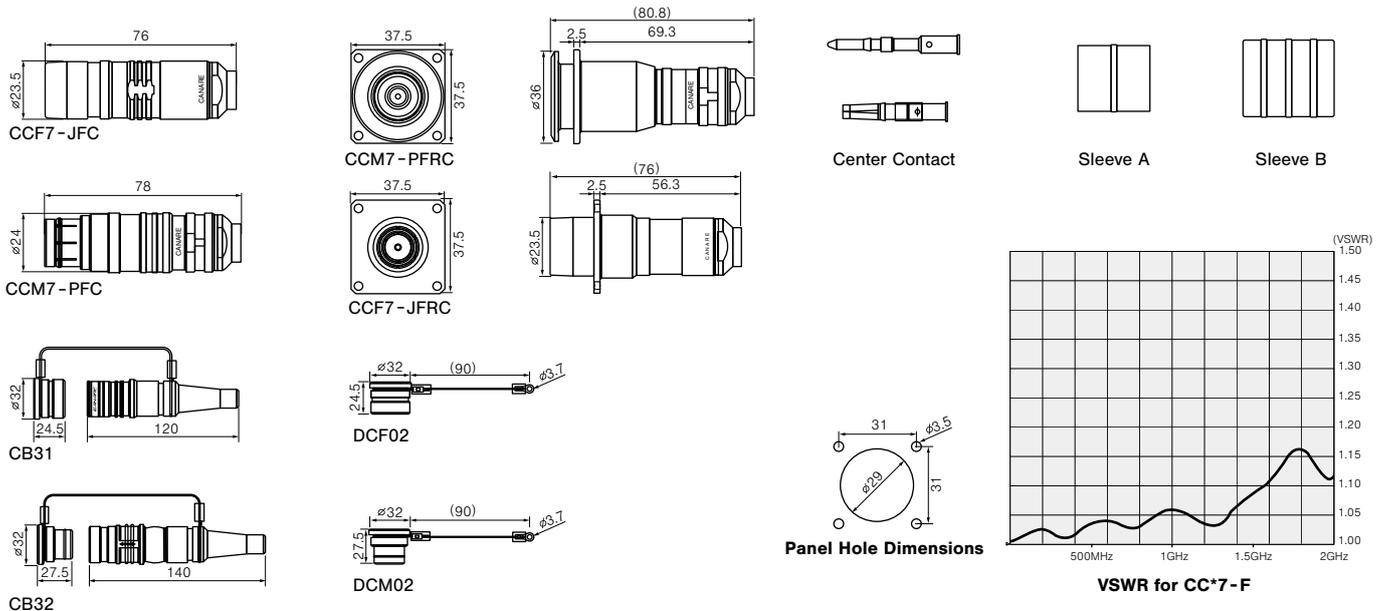
Canare CC series cover global triaxial interconnection. CC-F series are ideal for interconnecting European triax system and CC-K series for American triax system.

Key Features and Benefits

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

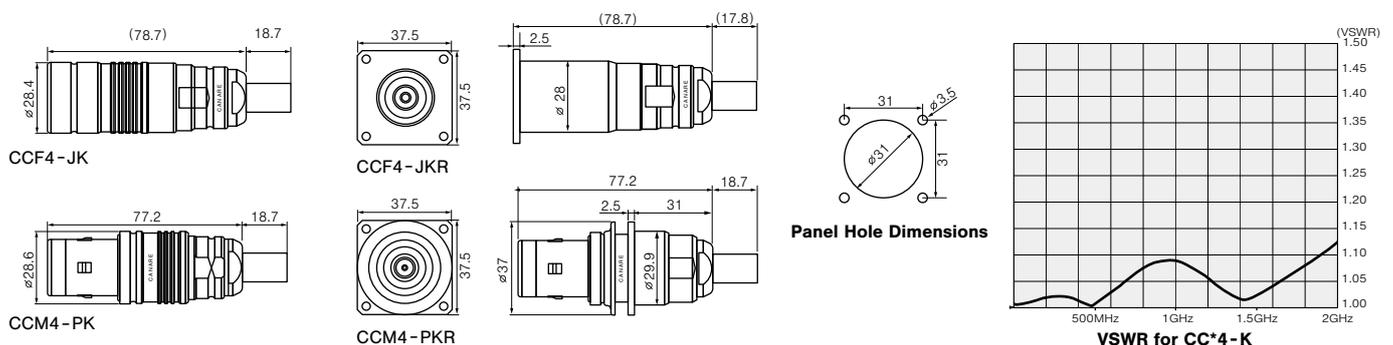
■ CC-F Series : European preferred type

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			



■ 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	



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
RJ-RU	RCA - Solder	ITT XLR-F77
RJ-RUD		Neutrik D
RJ-RUDB		Neutrik D (Black)
RJ-JRU	RCA - RCA	ITT XLR-F77
RJ-JRUD		Neutrik D
RJ-JRUDB		Neutrik D (Black)
RJ-BCJRU	RCA - BNC	ITT XLR-F77
RJ-BCJRUD		Neutrik D
RJ-BCJRUDB		Neutrik D (Black)

• 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).
- 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 22)

Website



RCAP - C3A



F-09



F-10



RJ-JR



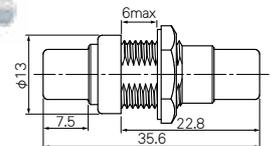
RJ-RU



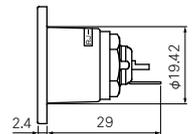
RJ-JRUD



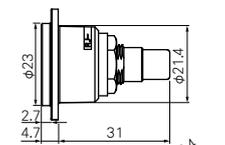
RJ-BCJRU



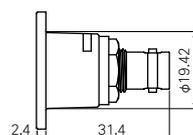
RJ-JR



RJ-RU



RJ-JRUD



RJ-BCJRU

F Connectors

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



■ 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

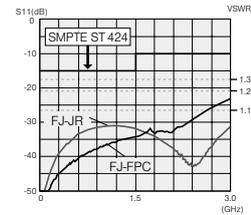


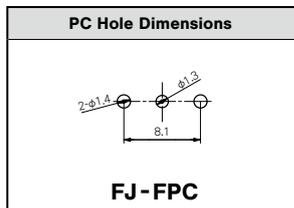
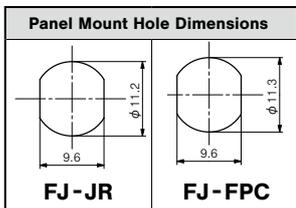
Fig.1 Return loss for FJ-FPC and FJ-JR

■ 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 22 for more information.



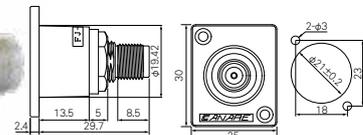
FJ-JR



FJ-FPC



FJ-JRU



FJ-JRU

■ Flush-mount Receptacles

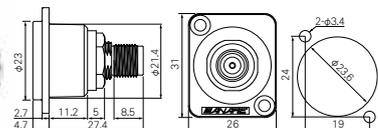
Model	Description	Flange Type
FJ-JRU	Jack to Jack	ITT XLR-F77
FJ-JRUD		Neutrik D
FJ-JRUDB		Neutrik D (Black)

• Standard package (20pcs)

- Three types of flanges are available.



FJ-JRUD



FJ-JRUD

Phone Plugs

Website



IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Featuring a properly cable clamp system ensures long life reliability.

■ 3.5mm Mini Phone Plug

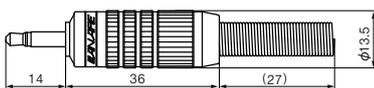
F - 11	F - 12	F - 12SA New
		
Description		
2 Conductor 3.5mm mini phone plug	3 Conductor 3.5mm mini phone plug	3 Conductor 3.5mm mini phone plug *Smaller shell version of F-12
Nickel contacts, Nickel shell φ 6.0 max (w/o spring : φ 7.5 max)	Nickel contacts, Nickel shell φ 6.0max (w/o spring : φ 7.5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

• Standard package (10pcs)

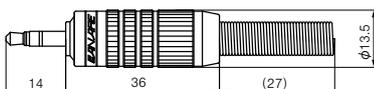
■ 1/4" Phone Plug

F - 15	F - 15L New	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)

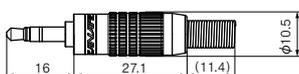
• Standard package (10pcs)



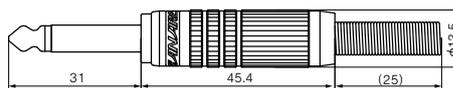
F - 11



F - 12



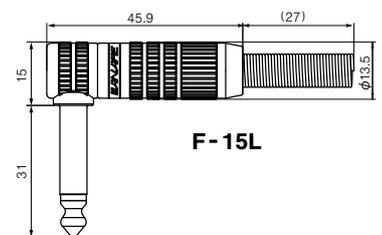
F - 12SA



F - 15

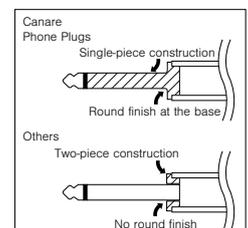


F - 16



F - 15L

Canare's durable design



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.

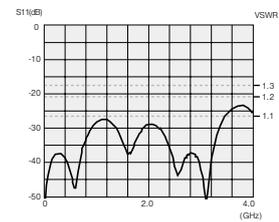
Be sure to use Canare Crimp Tool



BP-C5



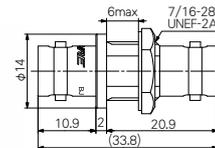
BP-LC31



Return loss for BP-C31



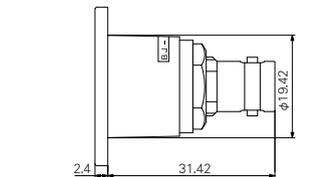
BJ-JR



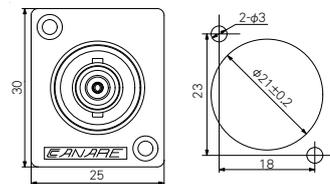
BJ-JR



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.

50Ω BNC Extension Adapter

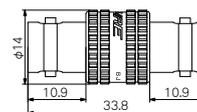
Model	Description
BJ-J	Jack to Jack

• Standard package (20pcs)

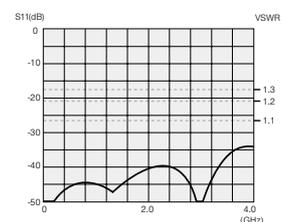
- VSWR of 1.1 or less up to 4 GHz.



BJ-J



BJ-J



Return loss for BJ-J

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)

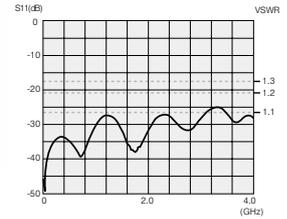
- VSWR of 1.1 or less up to 2 GHz, 1.2 or less up to 4 GHz.
- Canare crimp design ensures quick and reliable installation

Be sure to use Canare Crimp Tool

Website



TNP-C3



Return loss for TNP-C3

IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

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-35DF 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

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)

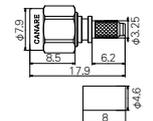
- VSWR of 1.1 or less up to 2 GHz, 1.2 or less up to 4 GHz. (SMAP-C1: VSWR of 1.2 or less up to 2 GHz)
- Canare crimp design ensures quick and reliable installation (SMAP-C1 has solder center contact)

Be sure to use Canare Crimp Tool

Website



SMAP-C1



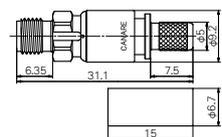
SMAP-C1



SMAP-C31A



SMAJ-C3F



SMAJ-C3F

Connectors

Cable Stripper, Crimp Tools

Coaxial Cable Stripper

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

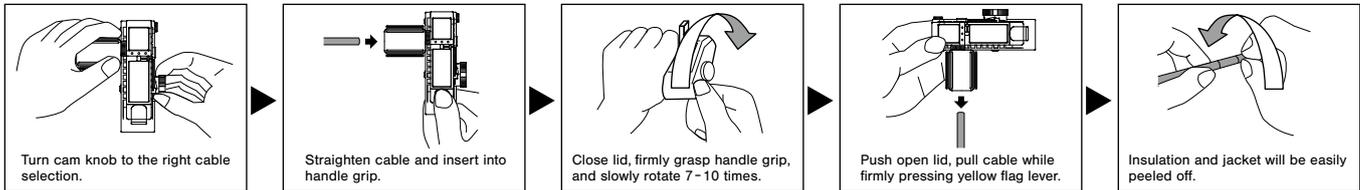
Model	Preset to
TS100E	LV-77S-L-5CFB, V*-5CFB, V*-5C, LV-61S-L-4CFB, V*-3C
TS100H New	L-2.5CHD-L-2.5CHLT, L-3.3CUHD-L-3C-AHD, L-3CFB-L-3C2V-L-3C2VS, L-5CFB, L-4CFB
TS100U	L-2.5CHD, 1855A, 1505A, 1694A

- 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)

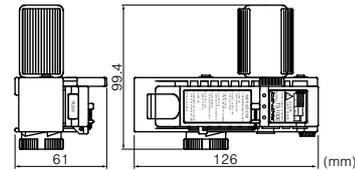
Note: The stripping quality of coaxial cables may be affected by their construction, particularly in the following cases:

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

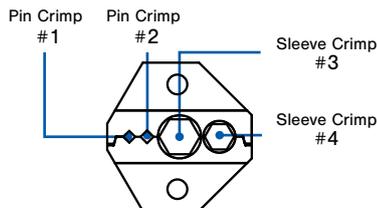
Model	Pin Crimp		Sleeve Crimp		Model
	#1 (mm)	#2 (mm)	#3 (mm)	#4 (mm)	
TCD-1DB	—	—	3.94	—	TC-1
TCD-31C	1.37	—	6.75	—	TC-1
TCD-3151D	1.92	—	8.36	6.75	TC-1
TCD-316C	1.35	—	9.4	6.75	TC-1
TCD-35CA	1.35	—	7.6	5.85	TC-1
TCD-35D	1.92	—	7.6	5.85	TC-1
TCD-35DF	1.92	2.1	8.05	5.82	TC-1
TCD-4CA	1.35	—	6.48	—	TC-1
TCD-451CA	1.35	—	8.36	6.4	TC-1
TCD-5CF	1.31	—	8.05	—	TC-1
TCD-5HD	1.87	—	8.05	—	TC-1
TCD-55FA	1.35	2.1	8.05	—	TC-1
TCD-55UHD	1.62	—	8.05	—	TC-1
TCD-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)	
TCD-65C	1.92	—	9.4	7.6	TC-1
TCD-67HD	2.1	—	10.2	—	TC-1
TCD-7CA	1.87	—	10.2	—	TC-1
TCD-8HD	2.4	—	11.26	—	TC-2
TCD-96C	1.92	—	11.26	9.4	TC-2
TCD-D253F	1.1	—	5.1	5.85	TC-1
TCD-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 New	Extraction tool for BNC straight plug	300 mm
BET-MBNC	Extraction tool for MBNC-C series	300 mm
BET-HBNC New	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

	<p>Confirm compatibility of the connector and cable prior to assembly.</p> <ol style="list-style-type: none"> Slide the crimp sleeve over the cable and strip the jacket, braided shield, and insulation of the coaxial cable as shown at left. <ul style="list-style-type: none"> 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.
	<ol style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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.
	<ol style="list-style-type: none"> 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. <ul style="list-style-type: none"> Pull the cable gently (less than 4.5 lbs or 19.6 N) to confirm that is locked.
	<ol style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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).



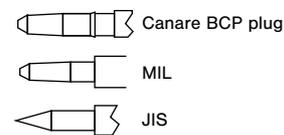
Q What should be done with a metal foil shield?

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).

IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Connectors

Crimp Tools

Cables to Connector Cross-Reference

■ BNC, Slim BNC, F, RCA

See page 37 - 38, for 50Ω cables and connectors.
See page 40, 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-LC						
L-1.5C2VS/V*-1.5C		BCP-C1						TCD-1DB	N/A (solder pin)
1.5C-2V									1.40 - 1.47
L-2.5C2V		BCP-A25							
L-2.5CFB		BCP-A25F		MBCP-C25F		RCAP-C25F			
1855A	BCP-B26								
1855P									
L-2.5CHD/L-2.5CHLT	BCP-B25HD				FP-C25HD	RCAP-C25HD			
VDM230									
1855ENH	BCP-B28								
HD PRO 0.6/2.8 AF									
L-2.5CHWS	BCP-B25HW								
V4-2.5CHW									
L-3C2V/L-3C2VS		BCP-A3					MC*-V5C3		
V3-3C/V4-3C		BCP-A3	BCP-LC3		FP-C3	RCAP-C3A			
V5-3C		BCP-VA3					MC*-V5C3		
L-3CFB	BCP-B3F	BCP-A3F	BCP-LC3F	MBCP-C3F	FP-C3F	RCAP-C3F			
V*-3CFB									
L-3C-AHD		BCP-A3AHD							
L-3.3CUHD	BCP-D33UHD								
L-3.3CUHWS	BCP-D33UHW								
1695A								TCD-451CA	
VSD2001TS		BCP-A55							TCD-35CA
L-3C2W		BCP-A31			FP-C31				TCD-31C
L-3CFW	BCP-B31F								
V*-3CFW									
LV-61S		BCP-A4		MBCP-C4	FP-C4	RCAP-C4A			
RG-59B/U									
L-4CFB/V*-4CFB				MBCP-C4F	FP-C4F	RCAP-C4F			
1505A, 1505ANH	BCP-B4F	BCP-A4F							
HD PRO 0.8/3.7 AF									
VPM2000									
L-4CHD									
1505F		BCP-A42				RCAP-C42			TCD-31C
L-4.5CHD	BCP-B53			MBCP-C53	FP-C53A	RCAP-C53			
1694A									
HD PRO 1.0/4.8 AF	BCP-B56								
L-4.5CHWS	BCP-B45HW								
L-5C2V/L-5C2VS		BCP-A5							
V*-5C		BCP-A5	BCP-LC5		FP-C5	RCAP-C5A			
LV-77S		BCP-VA5							
L-5CFB	BCP-B5F	BCP-A5F	BCP-LC5F	MBCP-C5F	FP-C5F	RCAP-C5F			
V*-5CFB		(*1)							
L-5CFW	BCP-B51F								
V*-5CFW									
8281F		BCP-A77				RCAP-C77			
L-5C2W		BCP-A52			FP-C52				TCD-451CA
L-5CHD		BCP-C5HD							TCD-5HD
L-5.5CUHD	BCP-D55UHD								TCD-55UHD
L-5.5CUHWS	BCP-D55UHW								
4794R	BCP-D57								TCD-57C
L-6CHD		BCP-C6HD							
L-7CHD		BCP-C7HD							
L-7CFB		BCP-C7FA			FP-C7FA				
7731A									
9292		BCP-C71A			FP-C71A				
L-8CHD/L-8CUHD	BCP-D8UHD								TCD-8HD
GS-6						RCAP-C3GS			TCD-35D

*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	HBCP-D25HDA	DCP-C25HD		TCD-D253F	1.08 - 1.16
1855A					
VDM230					
L-2.5CHWS	HBCP-D25HWA	DCP-C25HW		TCD-D253F	1.08 - 1.16
V4-2.5CHW			MD*-V4C25HW		
L-3CFB		DCP-C3F			
L-3.3CUHD	HBCP-D33UHDA				
L-4CFB		DCP-C4F		TCD-D534F	1.25 - 1.33
1505A					
VPM2000					
L-4CHD					
L-4.5CHD	HBCP-D53A	DCP-C53			
1694A					
VSD2001					
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

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

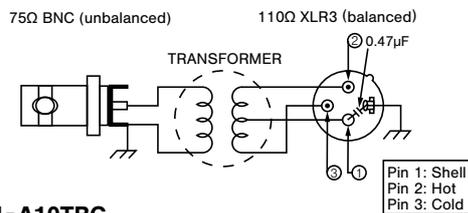
Model	Description
BCJ-XJ-TRC	XLR3 (F) - BNC Jack
BCJ-XP-TRC	XLR3 (M) - BNC Jack
BCJ-XJ-A10TRC	XLR3 (F) - BNC Jack, 10dB Attenuation Pad

■ Panel Mount Type

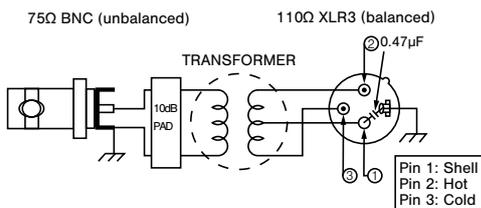
Model	Description (Front - Back)	Flange Type
XJ3F-TRC-BCJ	XLR3 (F) - BNC Jack	ITT XLR-F77
XJ3M-TRC-BCJ	XLR3 (M) - BNC Jack	
BCJ-TRC-XP3F	BNC Jack - XLR (F)	
BCJ-TRC-XP3M	BNC Jack - XLR (M)	
XJ3F-A10TRC-BCJ	XLR3 (F) - BNC Jack, 10dB Attenuation Pad	
BCJ-A10TRC-XP3F	BNC Jack - XLR3 (F), 10dB Attenuation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



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



BCJ-XJ-TRC



BCJ-XP-TRC



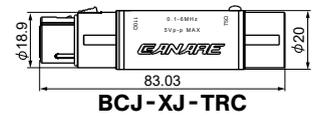
BCJ-XJ-A10TRC



XJ3F-TRC-BCJ



BCJ-TRC-XP3M

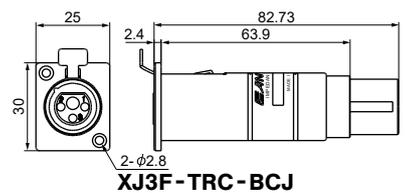
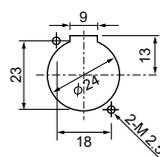


BCJ-XJ-TRC

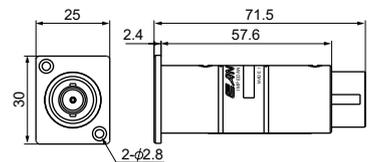


BCJ-XP-TRC

Panel Hole Dimensions



XJ3F-TRC-BCJ



BCJ-TRC-XP3M



Website

IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

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.

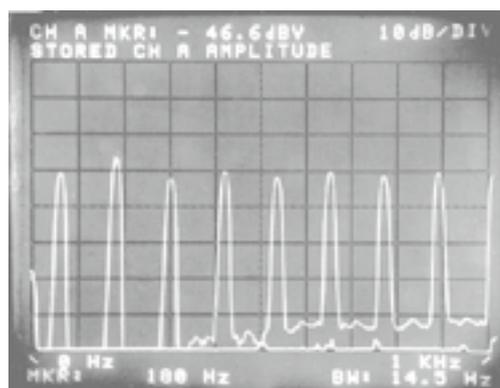


Fig. 1 Noise induced in two-conductor shielded cable (MVVS)

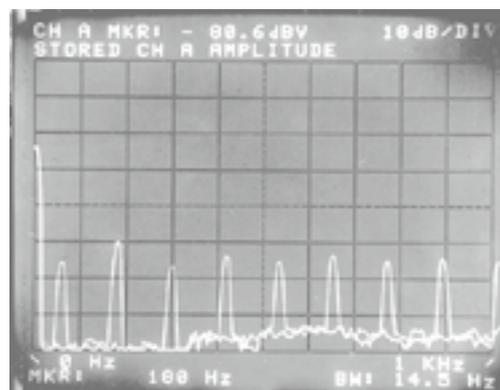
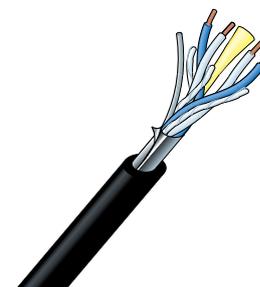


Fig. 2 Noise induced in star quad cable (Canare L-4E5AT)

<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.

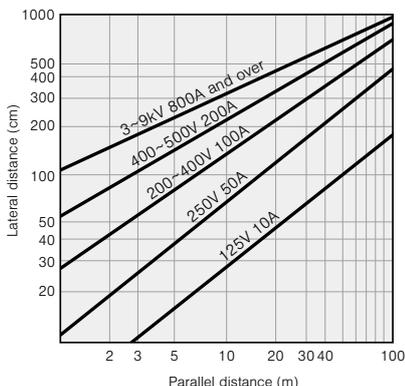


Fig. 3 Distances for positioning microphone and power cables

<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.

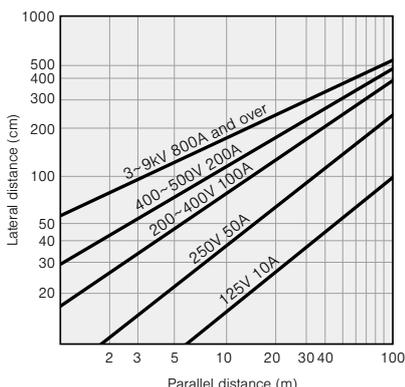


Fig. 4 Distances for positioning microphone and power cables when routing microphone cables via flexible metal conduit

<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)

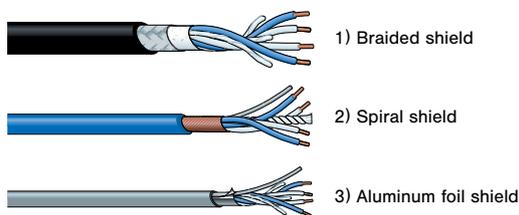


Fig. 5 Types of star quad microphone cables

• 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

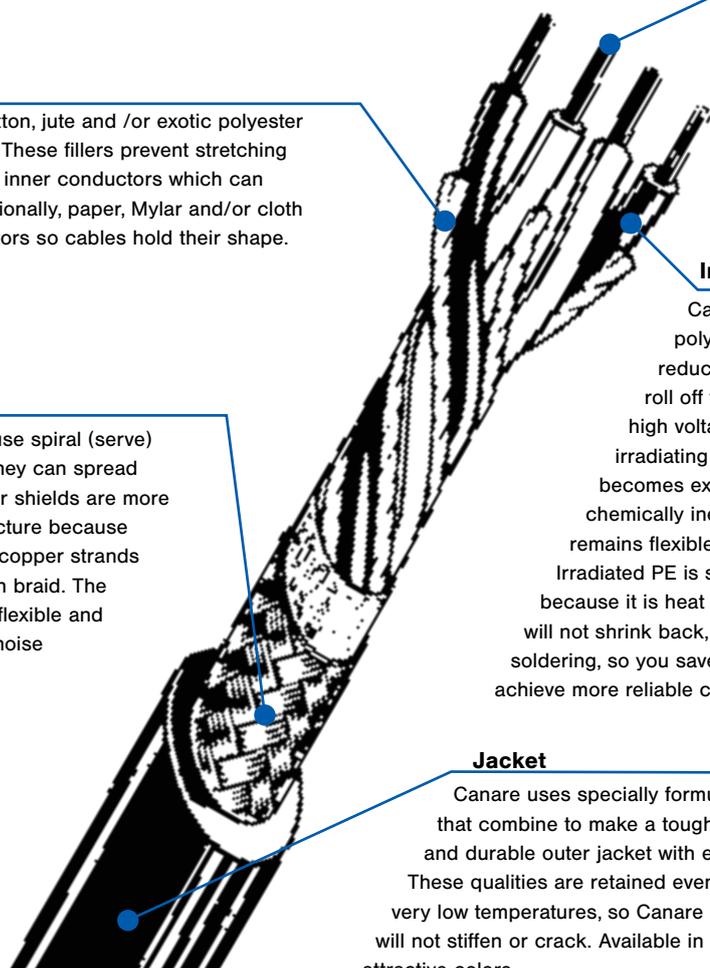
All Canare microphone cables utilize high-conductivity, annealed copper wires, stranded to form flexible conductors and shields.

Insulation

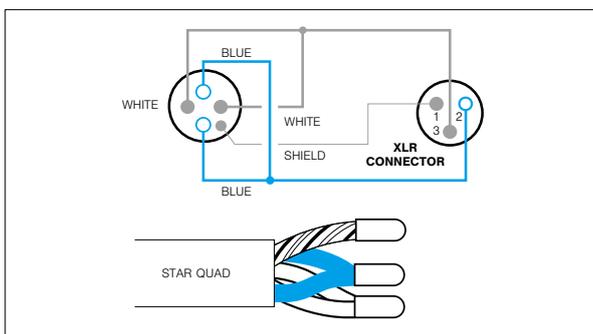
Canare cables utilize special polymer compounds that reduce capacitive "R-C" filter roll off within the cable and prevent high voltage breakdown. By irradiating the material, the polymer becomes extensively cross-linked, chemically inert, water resistant, and remains flexible at very low temperatures.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

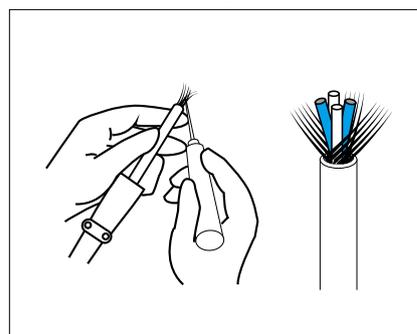
Canare uses specially formulated PVC compounds that combine to make a tough, strong and durable outer jacket with excellent flexibility. These qualities are retained even at very low temperatures, so Canare cables will not stiffen or crack. Available in 10 attractive colors.



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

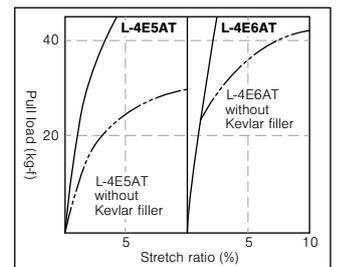
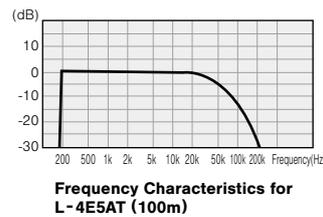
Type	Model	Sales units	Nom. O.D.	Weight	Composition			Electrical characteristics				
					No. of cond.	Cross sec. area (AWG) and cond. comp.	Twist pitch	Shield	Cond. DCR	Shield DCR	Nom. cap.*	Nom. cap.**
		m	mm	kg/100m		mm ² /(AWG) Q'ty/mm	mm		Ω/100m	Ω/100m	pF/m	pF/m
	L-4E3AT	200 500	3.0	1.2	4	0.08(28) 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.



Cable Pull Load and Stretch Ratio

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.

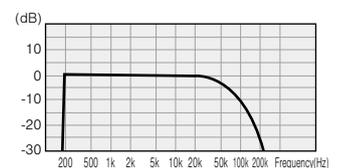
*Capacitance between conductors. **Capacitance between conductor and shield.

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



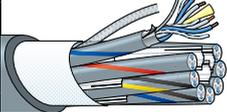
Frequency Characteristics for L-4E6S (100m)

Multichannel Star Quad Microphone Cables

Website



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.

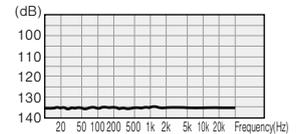
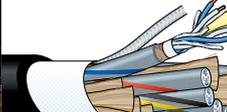


Fig. 1 Crosstalk Characteristics for L-4E4-4AT (100m)

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.

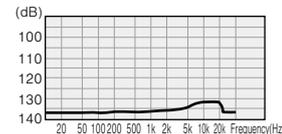
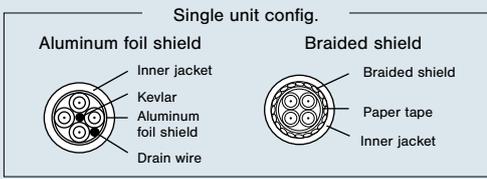


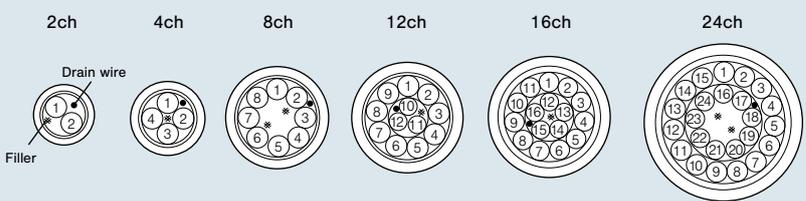
Fig. 1 Crosstalk Characteristics for L-4E4-4P (100m)

■ Cross-sectional View

Single unit config.



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



Aluminum foil shield: Inner jacket, Kevlar, Aluminum foil shield, Drain wire

Braided shield: Braided shield, Paper tape, Inner jacket

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	No. of cond.	Composition		Electrical characteristics			
						Cross sec. area (AWG) and cond. comp.	Twist pitch	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
 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 SEP1A	L-2E5AT	200	5.0	4.0	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>

L-2B2AL, L-2E5AL

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

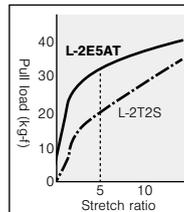


Fig. 1 Pull Load and Stretch Ratio for Cable

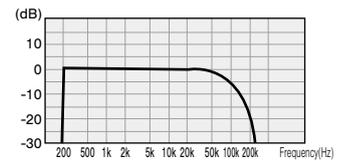


Fig. 2 Frequency Characteristics for L-2B2AT (100m)

Braided 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 (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-2T2S	L-2T2S	100 200	6.0	4.6	2	0.30(23) 60/0.08A	20	94%	6.5	3.1	60	106
Jacket colors L-2T2S: BLK RED ORN YEL BLU GRY L-2E5: BLK	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)

IP Connectivity Products
Technical Trend
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												
	MS203	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

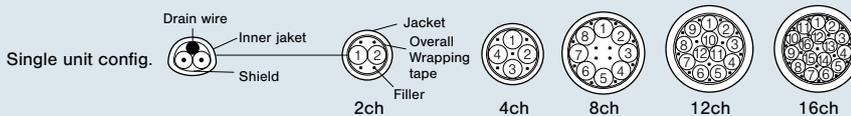
- Used as cables for connecting devices with which wrapping tools can be used.
- Drain wire included in each unit.

Website



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

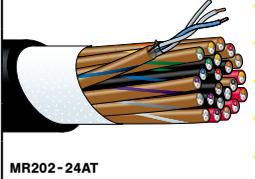
■ Cross-sectional View



■ 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.

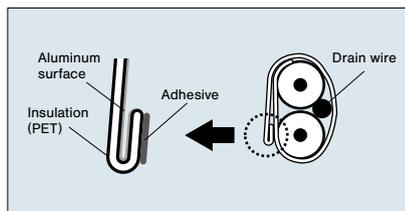
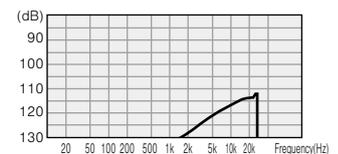


Fig. 1 Aluminum Foil Shield



Crosstalk Characteristics for M202-24AT (100m)

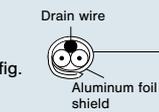
Note:

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

Website



Cross-sectional View

Single unit config. 

Drain wire, Jacket, Wrapping tape, Filler, Kevlar, Aluminum foil shield

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



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/ WHT	BLU/ BLK	YEL/ BLK	GRN/ BLK	BRN/ BLK	GRY/ BLK	BLU/ ORN	YEL/ ORN	GRN/ ORN	BRN/ ORN	GRY/ ORN	BLU/ PNK	YEL/ PNK	GRN/ PNK	BRN/ PNK	GRY/ PNK	BLU/ RED	YEL/ RED	GRN/ RED	BRN/ RED	GRY/ RED	BLU/ BLU	YEL/ BLU	GRN/ BLU	BRN/ BLU	GRY/ YEL	BLU/ YEL

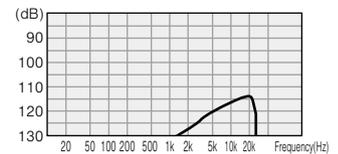
MR202-AT Series

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

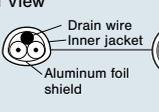
Note:

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, Filler, Aluminum foil shield

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					

Cables

Two-Conductor Shielded Cables

■ 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.

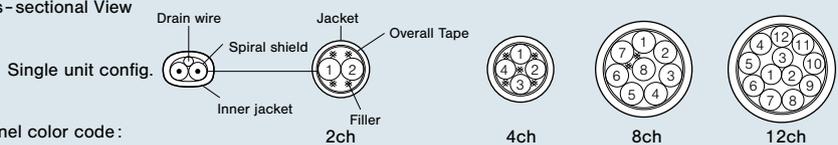
MS202-P Series

- 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



■ 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

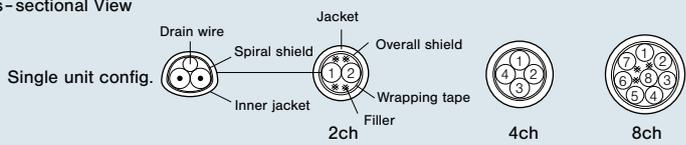
- Multichannel version of MS203. (See page 49)
- Overall braided shield enables robust shielding performance.
- Drain wire included in each unit.

Website



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

■ Cross-sectional View



■ 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.

DA202AT

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

*Condition : AES3 SR48kHz

DA203-AL Series

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

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.

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.

2ch, 4ch, 8ch, 12ch

Speaker Cables (Single)

Website



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
 Jacket colors for 4S6: GRV BLK RED BLU CRE WHT 4S8, 4S11, 4S6G: GRV BLK 4S8G, 4S11G: GRV	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.

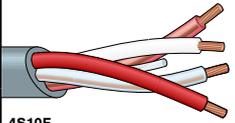
4S6, 4S8, 4S11

- 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
 Jacket colors for 4S10F, 4S12F, 4S14F, 4S18F: GRV BLK 4S10FG, 4S12FG: GRV	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.

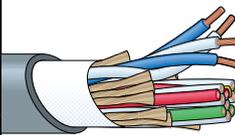
4S10F, 4S12F, 4S14F, 4S18F

- 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
 S410-4P Jacket color: GRV	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.

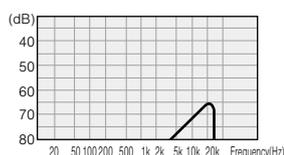
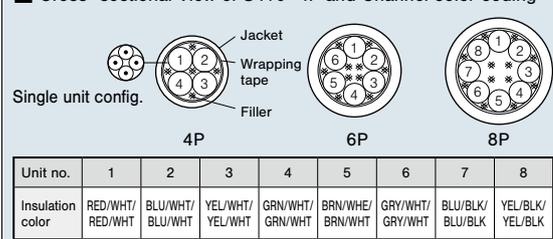


Fig. 1 Crosstalk Characteristics for S410-4P

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*
		m	mm	kg/100m		mm ² /(AWG)	Q'ty/mm	mm	Ω/100m	pF/m
 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.

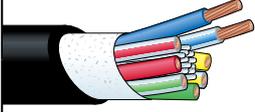
2S7FG, 2S9FG, 2S11FG, 2S14FG

- 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*
		m	mm	kg/100m		mm ² /(AWG) Q'ty/mm	mm	Ω/100m	pF/m
 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.

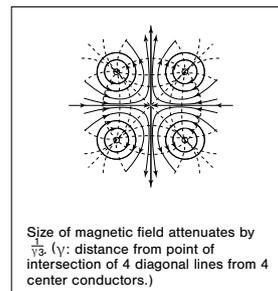
Website



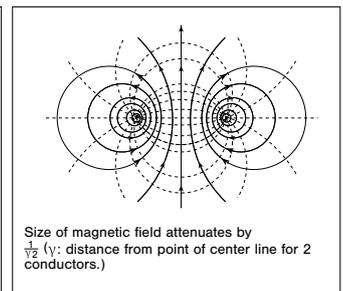
Technical Note

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)	
				DF = 20	DF = 50
	mm ² /AWG	Ω/100m	Ω/m		
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

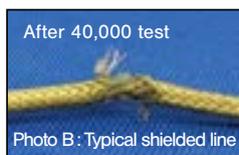
Type	Model	Sales units	Nom. O.D.	Weight	Inner cond.		Insulation	Outer conductors	Electrical characteristics		
					Cross sec. area (AWG) and cond. comp.	Nom. O.D.			Nom. O.D.	Shield construction and coverage	Chan. DCR
					m	mm	kg/100m	mm ² /(AWG) Q'ty/mm	mm	mm	mm/ends/carriers
 GS-4 Jacket colors for 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.

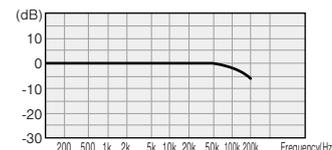
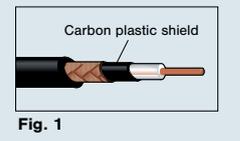


Fig. 2 Frequency Characteristics for GS-6 (100m, 100Ω → 1MΩ load)

Website



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
	A				Audio L-2B2AT × 2	Refer to L-2B2AT	Aluminum foil shield	3.2	—	—	
	A2V2-L		11.0	16	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	—	—	
	C				Control lines 0.2mm ² × 4	0.20(24) 18/0.12A	—	1.3	—	—	
	A2V1B		11.1	13	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		12.3	17	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		12.4	17	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.

Website



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



IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

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		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
 Jacket color: BLK	New 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

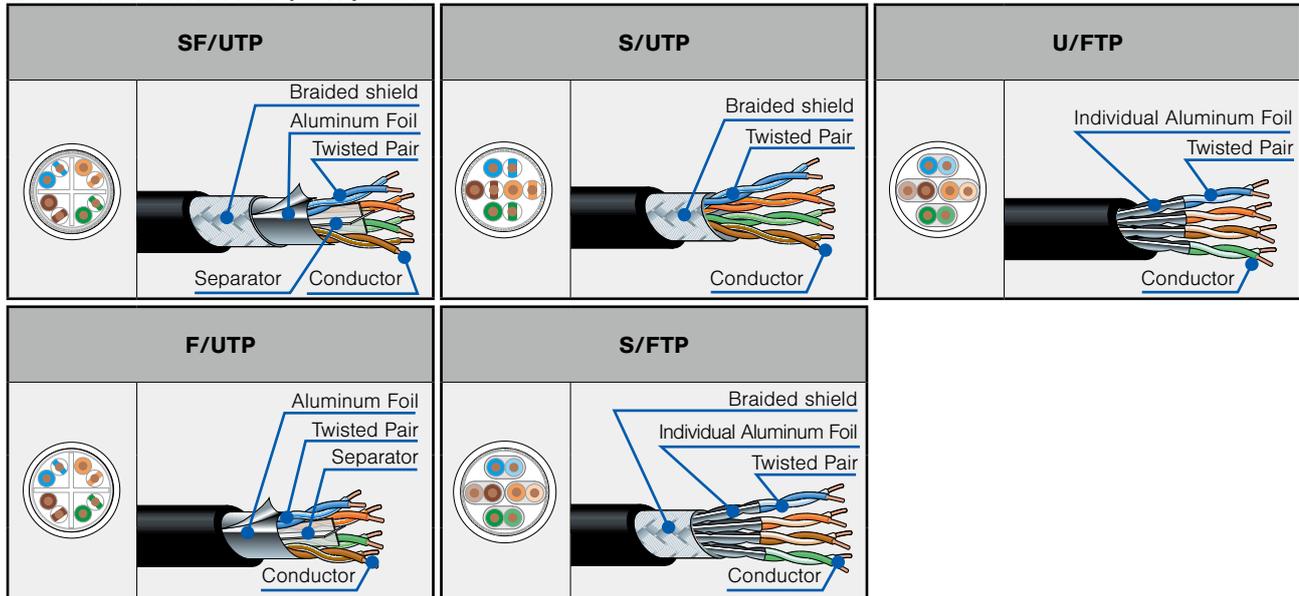
- Flexible S/UTP Cat5e cable
- 1GbE 1000BASE-T network
- Maximum distance to 50 meters
- Stranded conductors
- Braided shielding

Technical Note

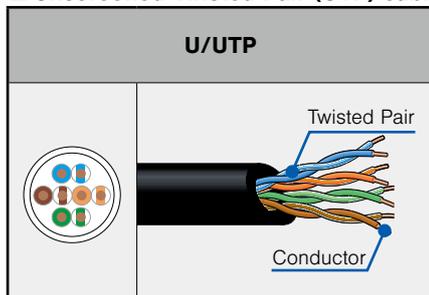
Ethernet Cable Guide

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.

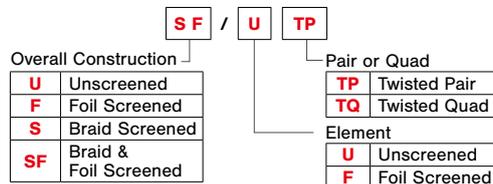
Screened Twisted Pair (ScTP) Cables



Unscreened Twisted Pair (UTP) cable



ISO/IEC 11801 (JIS X 5150)



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	New RJC6A-F4PH Cat 6A HDBT	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 RED BLU LB WHT	RJC6A-4P-F Cat 6A HDBT Recommended	Overall aluminum foil (F/UTP)	100 200	7.5	5.2	0.23 (24) 1/0.54A	9.4	100	19.1	31.1	45.3
 Jacket colors: BLK LB	RJC6-4P-F Cat 6	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+ Cat 6	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+ Cat 5e	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-F

- 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

Field Termination PoE PoE+ PoE++

Model	Suitable Cable	Standards
RJSP-6AFT New	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)

- IDC style, field termination ready
- Assembled without any special tools
- Removal latch button for 25% lower height

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

Accessory

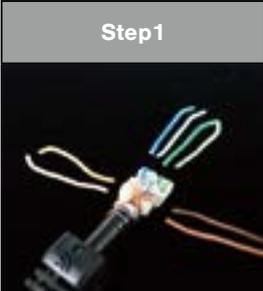
Model	Description
RJSP-FTLB New	Latch Button for RJSP-6AFT, black

*Standard package (10 pcs)

Simplified Assembly Guide

*See "Instructions" for details.

Step1



Step2



Step3

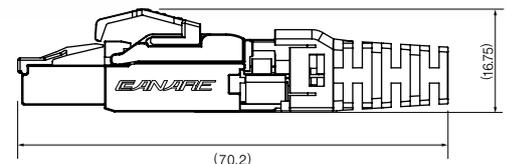


Step4



Instructions





RJSP-6AFT



RJSP-FTLB

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	39.1	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	27.9	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 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

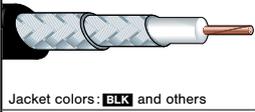
- Ideal for an O.B. van installation.
- Tinned copper-clad aluminum (CCA) braided shield brings an advantage in weight-saving.
- 30% lighter than L-2.5CHD, yet the same attenuation.
- Space-saving slim design: O.D. 4.2 mm
- High-density braided shield with aluminum foil
- Highly-foamed PE insulation
- 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 12G-SDI New	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 12G-SDI New	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 page64 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.

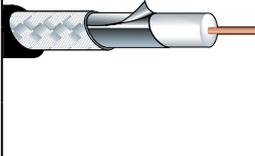
L-CFW Series

- 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



IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

Cable Assemblies

Cables

75Ω Coaxial Cables

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 page19)
 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.	Braid coverage and comp.	Inner cond. resistance	Outer cond. resistance	Static capacity	Ω	dB/100m (10 MHz)	%				
		m	mm	kg/100m	(AWG) Q'ty/mm	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	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
 V5- *CFW Jacket color: BLK Insulation: Foamed PE	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.

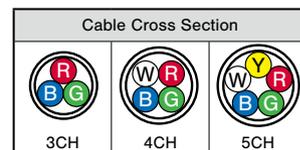
V-CHW, V-CFW Series

- 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

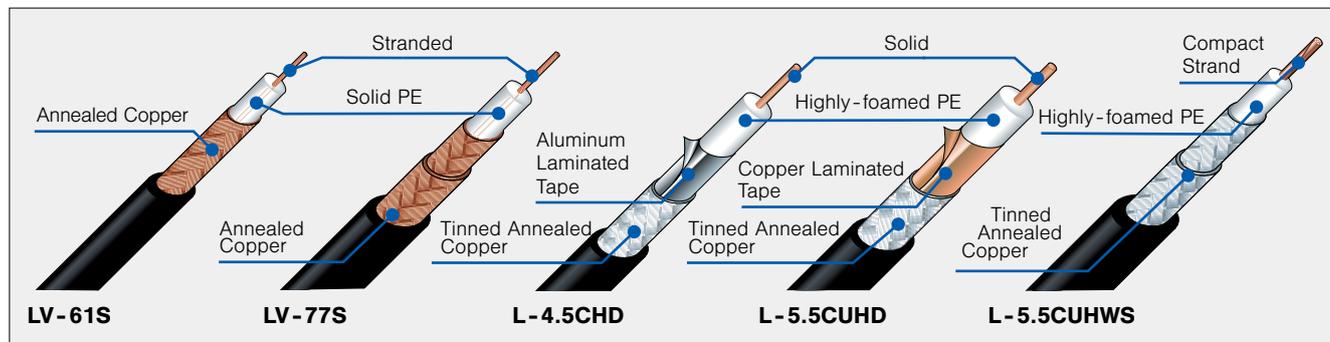


Technical Note

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	161	102
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	219	227	143
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.

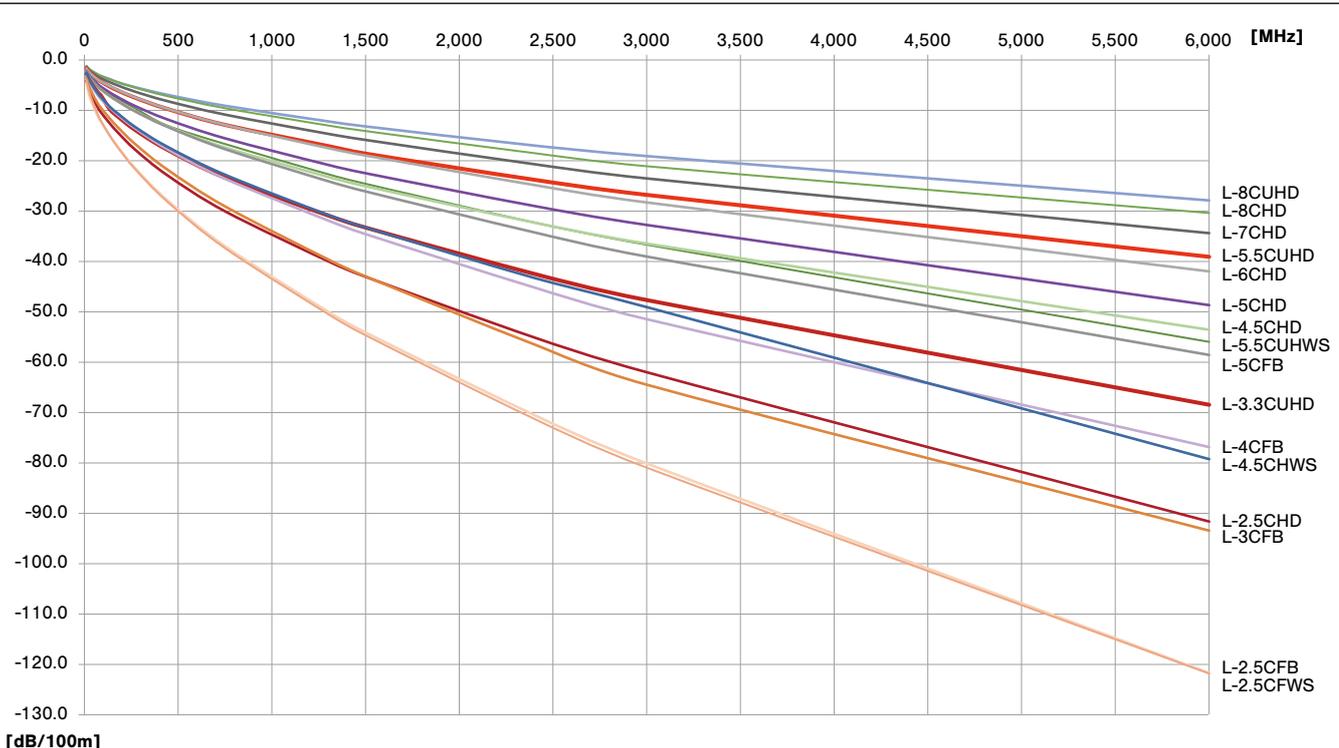
Cables

75Ω Coaxial Cables

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 16×9 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	12.9	17.1	18.5	26.8	39.1	
	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	9.1	12.2	13.2	19.1	27.9	
	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)					
					(AWG) Q'ty/mm	mm	mm								
 L-3D2V Jacket: PVC Color: GRY	L-3D2V	100	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	200	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	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	200	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	
 L-5DFB Jacket: PVC Color: BLK	L-5DFB	100	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	
 L-5DFBW-PE Jacket: PE Color: BLK	L-5DFBW-PE	100	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

Website



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

IP Connectivity Products

Technical Trend

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

Page	68	69	70	71	72
Applications	4K/8K 12G-SDI 6G-SDI	4K/8K 12G-SDI 6G-SDI	2K/4K 3G-SDI HD-SDI	2K/4K 3G-SDI HD-SDI	2K/4K 3G-SDI HD-SDI
Patchbays					
	32MCKA-ST*	32SVK-ST	48MC*	32MD-ST*	2xDV*
Channels	32	32	48	32	20, 24, 26
Rack Unit	1RU, 1.5RU, 2RU	1RU, 1.5RU	1RU	1RU, 2RU, 4RU	1RU, 2RU
Jacks					
	MCVJKA-STW/S	SVJK-S/L	MCVJ-W/S	MDVJ-STW/S	DVJB-W/S
Self Terminating	Yes	No	Yes	Yes	Yes
Front	Canare Micro	Canare Single	Canare Micro	Mini-WECO	WECO
Rear	BNC	BNC	DIN 1.0/2.3	BNC	BNC
NET Weight (approx.)	1RU : 2.8 kg 1.5RU : 3.5 kg 2RU : 3.7 kg	1RU : 1.7 kg 1.5RU : 2.4 kg	2.3 kg	1RU : 2.9 kg 2RU : 3.9 kg 4RU : 8.0 kg	20DV : 2.4 kg (1RU) 24DV : 2.7 kg (1RU) 26DV : 2.8 kg (1RU)
SMPTE	ST 2081-x ST 2082-x		ST 292 ST 424 ST 425-x		
Features	Mechanical switch with Dust-proof Shutter	MUSA style Hassle-free patching	Mechanical switch with Dust-proof Shutter	100% sealed rotary switch	100% sealed rotary switch
Patch Cord / U-Link					
	MCVPC**	SVP-ULK SVPC**	MCVPC**	MVPC**	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 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 New	1RU	32 × MCVJKA-STW
32MCKA-STs New	1RU	32 × MCVJKA-STs
32MCKA-ST-1.5U New	1.5RU	32 × MCVJKA-STW
32MCKA-STs-1.5U New	1.5RU	32 × MCVJKA-STs
32MCKA-ST-2U New	2RU	32 × MCVJKA-STW
32MCKA-STs-2U New	2RU	32 × MCVJKA-STs

Standard panel color: Black. Available in 5 colors. see page 73.

Key Features and Benefits

- 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.

■ Dual Video Jacks

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

Website



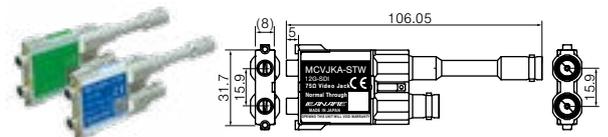
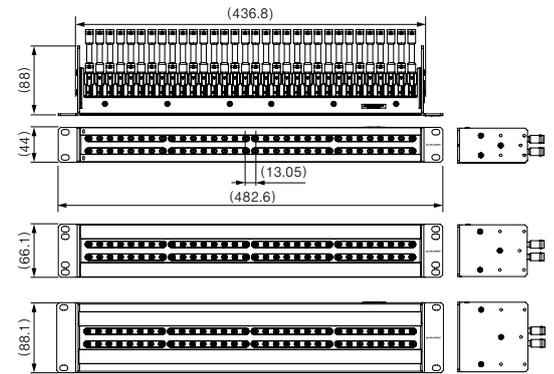
■ Micro Video Plug

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

*Standard package: 20 pcs

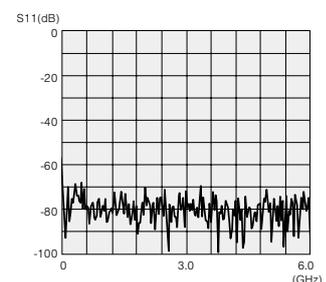
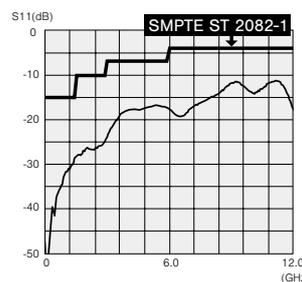
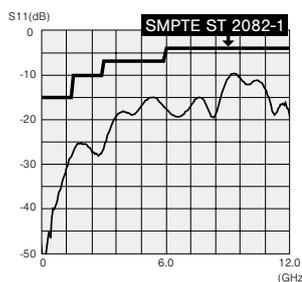
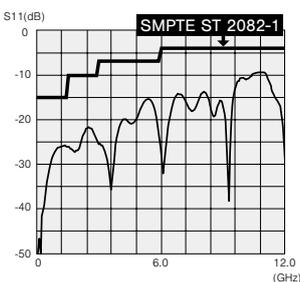
*The plug is specifically designed for MCVJ and MCVJKA jacks.

Website



■ Return Loss & Isolation

Model	MCVJKA-STW	MCVJKA-STs
	BNC-BNC: Normal Through BNC-Video: Patch Through 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



Return Loss for MCVJKA-STW

IP Connectivity Products

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Multichannel Systems

Cable Assemblies

Panels and Patchbays

75Ω Video Patchbays

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. 1RU, 1.5RU, or 2RU panel options available.

■ 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

New

Standard panel color: Black. Available in 9 colors. see page 73.

Key Features and Benefits

- 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

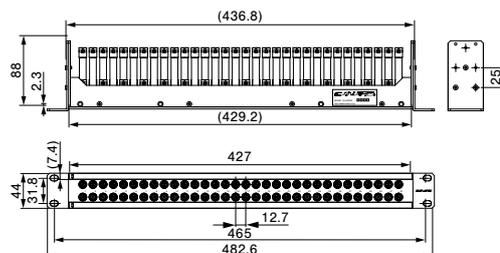
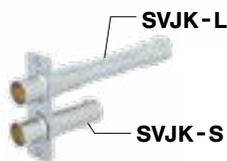
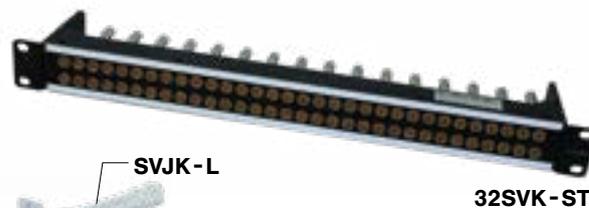


■ Accessories

Model	Description
SVPC**	Canare SV patch cords (see page 77)
BET-BNC	BNC extraction tool (see page 39)
PH50A	Patch cord holder for SVPC**
SVJK-DC	Dust cap for SVJK (black, 10 pcs)
MJ2-M32-U-***	Unloaded panels (see page 75)

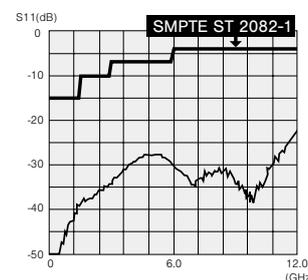
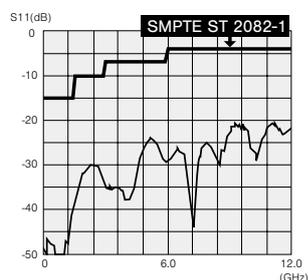
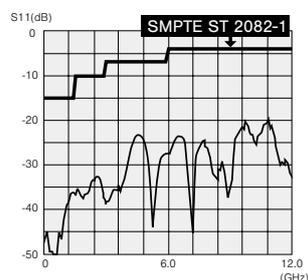
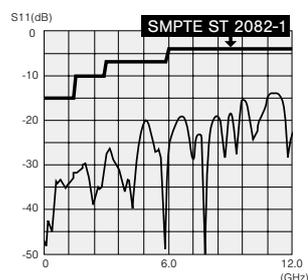
New

New



■ 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



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.

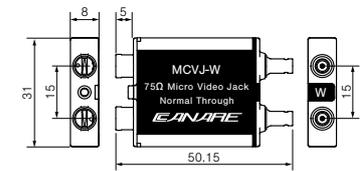
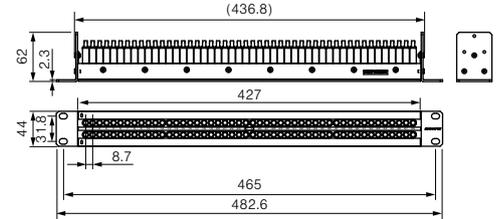
Website



Key Features and Benefits

- 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.



■ 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 MCVKA jacks.

Website

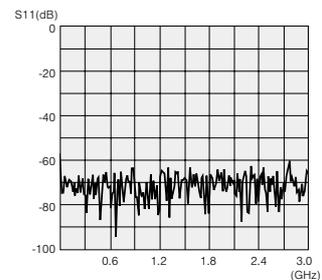
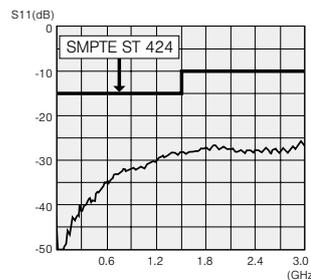
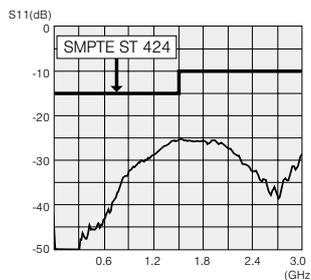


■ Accessories

Model	Description
MCVPC**	Canare Micro patch cords (see page 77)
BCJ-MCVP New	BNC (female) to Micro Video plug conversion adapter (10 pcs)
BET-DIN	Extraction tool for DCP-C series (see page 39)
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

IP Connectivity Products

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Cable Assemblies

Panels and Patchbays

75Ω Video Patchbays

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-ST-S	1RU	32 × MDVJ-ST-S
32MD-ST-2U	2RU	32 × MDVJ-STW
32MD-ST-S-2U	2RU	32 × MDVJ-ST-S
32MD-ST-4U	4RU	96 × MDVJ-STW
32MD-ST-S-4U	4RU	96 × MDVJ-ST-S

Standard panel color: Black. Available in 9 colors. see page 73.

Key Features and Benefits

- 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



■ Dual Video Jacks

Model	Description	Rear Jacks
MDVJ-STW	Normal through, Staggered rear jacks	BNC
MDVJ-ST-S	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



■ Accessories

Model	Description
MVPC**	Mini WECO patch cords (see page 77)
MVPC**-HW	Mini WECO patch cords (see page 77)
BCJ-MVP	BNC (female) to Mini-WECO plug conversion adapter (10 pcs)
BET-BNC	BNC extraction tool (see page 39)
PH50A	Patch cord holder for MVPC**
MVJ-DC	Dust cap for MDVJ (color: black 40 pcs)
MJ2-M32-U-***	Unloaded panels (see page 75)
VJ2-M32-4U	

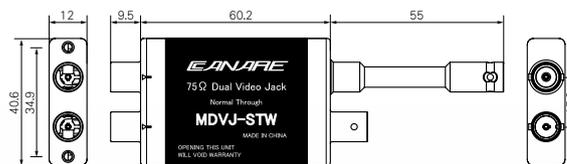
*BCJ-MVP is recommended to use with Slim BNC plug (see page 20).



32MD-ST-S



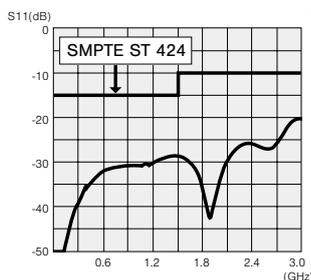
32MD-ST-4U



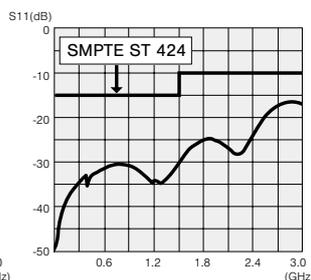
MVP-C4

■ Return Loss & Isolation

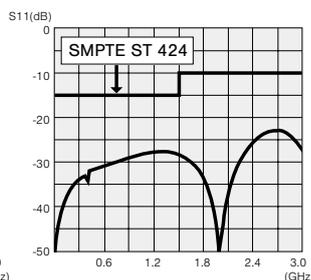
Model	MDVJ-STW	MDVJ-ST-S
BNC-BNC: Normal Through		—
RL	BNC-Video: Patch Through	26 dB or greater @ 750 MHz 20 dB or greater @ 2.4 GHz 10 dB or greater @ 3 GHz
	BNC-Self Termination	26 dB or greater @ 750 MHz 20 dB or greater @ 1.5 GHz 10 dB or greater @ 3 GHz
	Isolation	35 dB or greater @ 1.5 GHz 20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



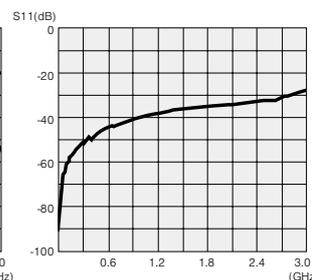
Normal Through



Patch Through
(Long BNC port)



Patch Through
(Short BNC port)



Isolation

Return loss for MDVJ-STW

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 74.

Key Features and Benefits

- 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



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

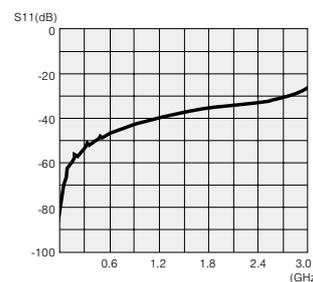
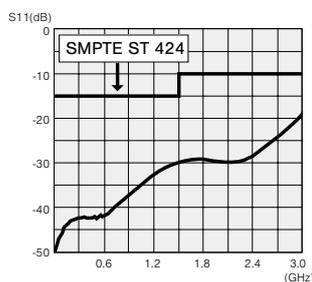
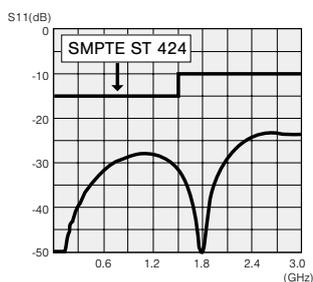


Accessories

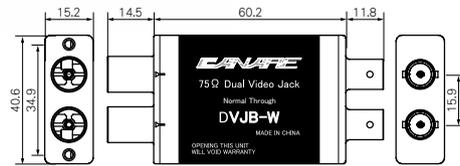
Model	Description
VPC** - WC	WECO patch cords (see page 77)
VPC** - HW - WC	
BCJ - VWP	BNC (female) to WECO plug conversion adapter
BET - BNC New	BNC extraction tool (see page 39)
PH50A	Patch cord holder for VPC**
VJ - DC	Duct cap for DVJB (black, 40 pcs)
VJ2 - V** - *U - ***	Unloaded panels (see page 75)

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	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



Return loss for DVJB-W



IP Connectivity Products

Technical Trend

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Cable Assemblies

Panels and Patchbays

75Ω Video Patchbays

Ordering Information

32 Channels 12G/3G Video Patchbays

32 **MCKA** - ST **S** - 2 - 2U

Jack Type

MCKA	12G Dual
-------------	----------

Signal Path

Blank	Normal Through
S	Straight Through

Panel Color

Blank	Black
2	Red
4	Yellow
5	Green
6	Blue
7	Purple

Rack Unit

Blank	1RU
1.5U	1.5RU
2U	2RU

32 **MD** - ST **S** - 8 - 2U

Jack Type

SVK	12G Single
MD	3G Dual

Signal Path

Blank	Normal Through
S	Straight Through

Panel Color

Blank	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Gray
9	White

Rack Unit

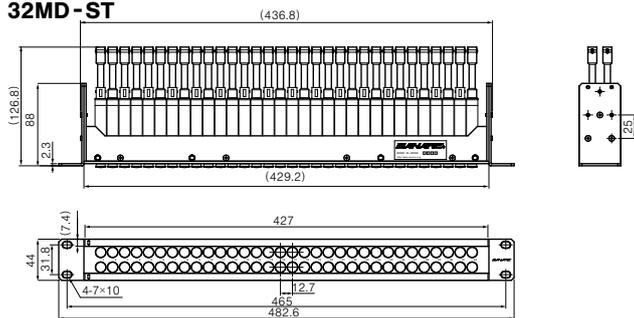
Blank	1RU
1.5U	1.5RU *
2U	2RU **
4U	4RU **

* 1.5RU and 2RU are available for SVK and MD.
** for 4RU, MD only.

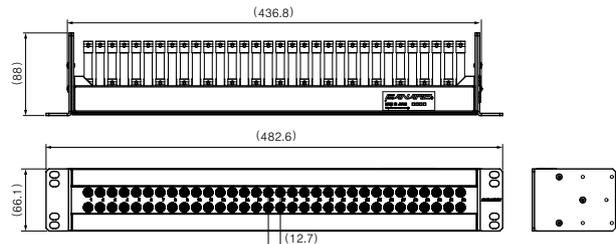
* MD only.

* for 4RU, black only.

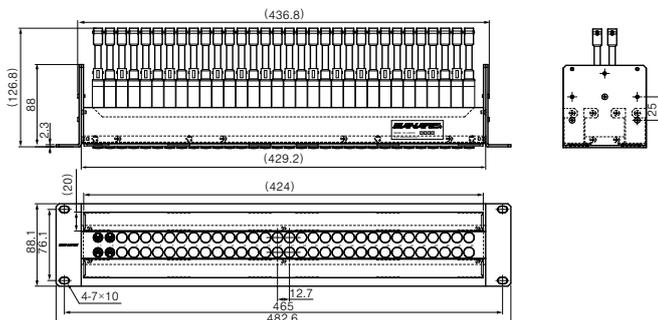
32MD-ST



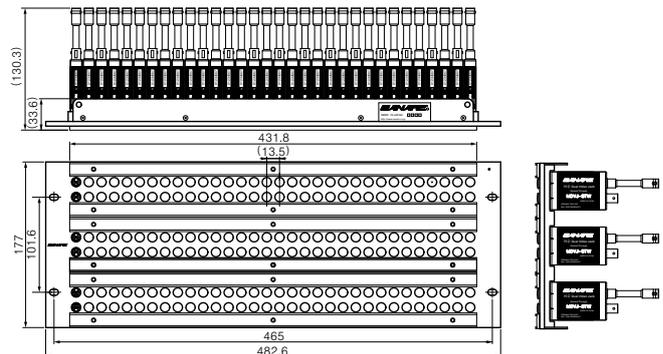
32SVK-ST-1.5U



32MD-ST-2U



32MD-ST-4U



Ordering Information

WECO Video Patchbays

24 DV S - 8 - 2U

Number of Channels

20	20 Channels
24	24 Channels
26	26 Channels

Signal Path

Blank	Normal Through
S	Straight Through

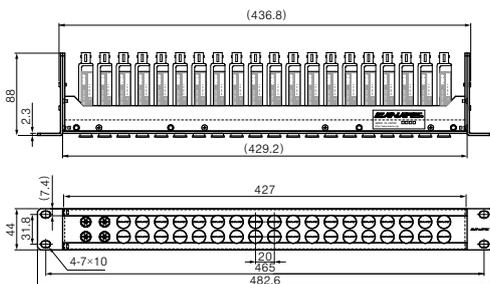
Panel Color

Blank	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Green
6	Blue
7	Purple
8	Gray
9	White

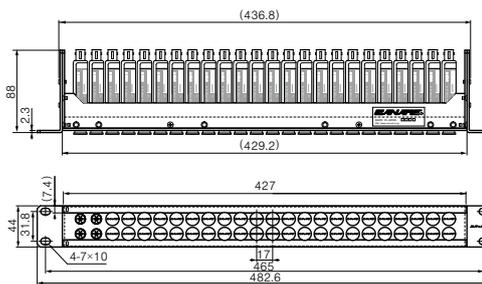
Rack Unit

Blank	1RU
2U	2RU

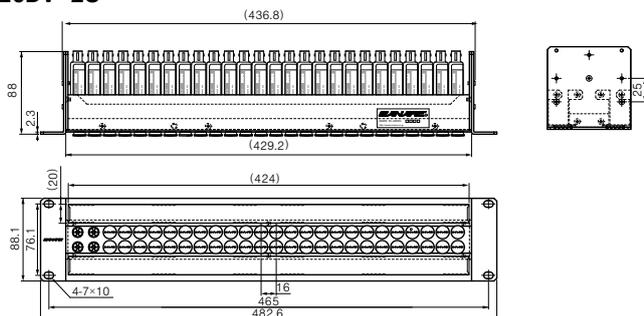
20DV



24DV



26DV-2U



Designation Strip Dimensions

- 1RU : 426 mm × 6.2 mm*
 - 1.5RU : 426.5 mm × 16.7 mm
 - 2RU : 420 mm × 18.4mm**
 - 4RU : 431.8 mm × 13.2 mm
- * 32MCKA-ST*- 426mm × 8.5mm
 ** 32MCKA-ST*-2U 426.5mm × 16.7mm

Note :

- 1) 4RU type is available in black color only.
- 2) 4RU type can not be recessed.

IP Connectivity Products

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Cable Assemblies

Panels and Patchbays

Unloaded Video Jack Panels

Unloaded Video Jack Panels

Model	Panel Size	Description
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-M32-1U-***	1RU	32 ch (64 holes), for MDVJ and SVJK
MJ2-M32-1.5U-*** New	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
MJ2-M32CKA-1U-*** New	1RU	32 ch (32 slots), for MCVJKA
MJ2-M32CKA-1.5U-*** New	1.5RU	32 ch (32 slots), for MCVJKA
MJ2-M32CKA-2U-*** New	2RU	32 ch (32 slots), for MCVJKA

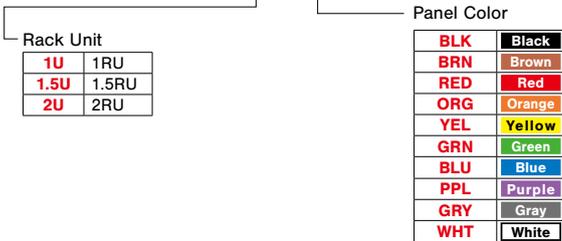
***: Please refer to the ordering information below.

<Ordering Information>

Mid-Size 3G/12G Video Patchbays

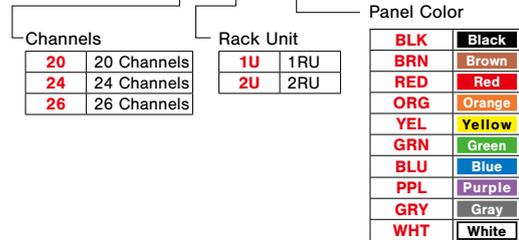
* for 4RU, one model only: VJ2-M32-4U

MJ2 - M32 - **1U** - **BLK**

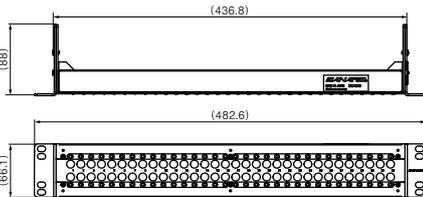
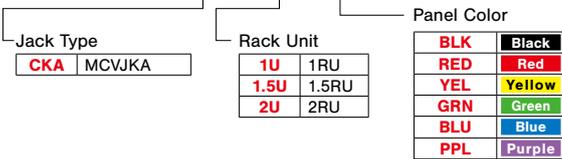


WECO Video Patchbays

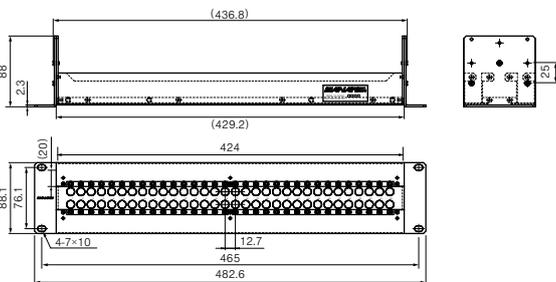
VJ2 - V **24** - **1U** - **BLK**



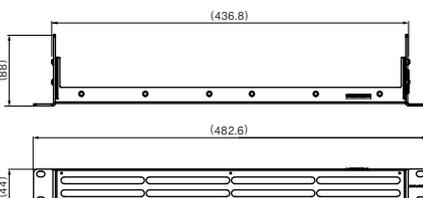
MJ2 - M32 **CKA** - **1.5U** - **BLK**



MJ2-M32-1.5U-BLK



MJ2-M32-2U-BLK



MJ2-M32CKA-1U-BLK

Designation Strip Dimensions

1RU : 426 mm × 6.2 mm*

1.5RU: 426.5 mm × 16.7 mm

2RU : 420 mm × 18.4 mm**

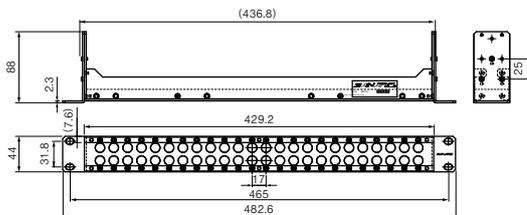
4RU : 431.8 mm × 13.2 mm

* MJ2-M32CKA-1U-** 426mm × 8.5mm

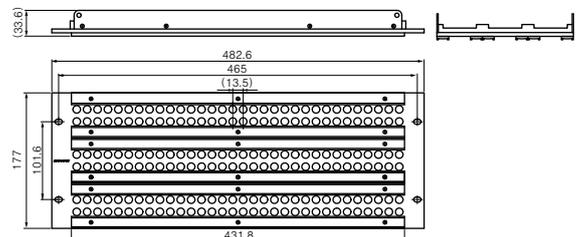
** MJ2-M32CKA-2U-** 426.5mm × 16.7mm

Note :

- 1) 4RU type is available in black color only.
- 2) 4RU type can not be recessed.



VJ2-V24-1U-BLK



VJ2-M32-4U

Website



MJ2-M32CKA

RS422 Patchbays

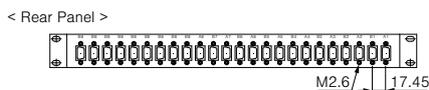
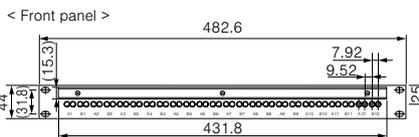
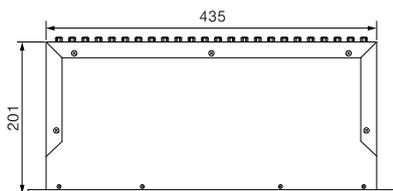
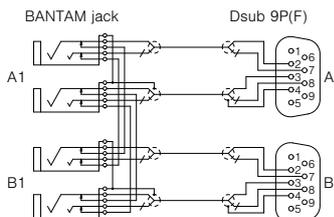
Model	Panel Size	Connectors	
		Front Panel	Rear Panel
RS-422-1U-16	1RU	Bantam	D sub 9P(F) × 16
RS-422-1U-24	1RU	Bantam	D sub 9P(F) × 24
RS-422-2U-32	2RU	Bantam	D sub 9P(F) × 32
RS-422-2U-48	2RU	Bantam	D sub 9P(F) × 48

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

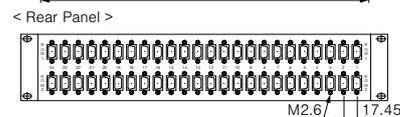
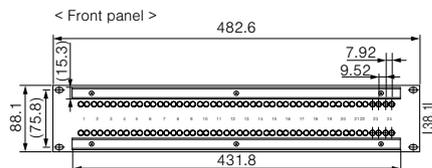
* Listed above items are other manufacturer's products.



RS-422-2U-48



RS-422-1U-24



RS-422-2U-48

IP Connectivity Products

Technical Trend

Fiber-Optic Systems

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Panels & Patchbays

Multichannel Systems

Cable Assemblies

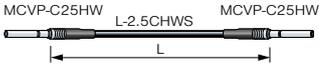
Panels and Patchbays

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

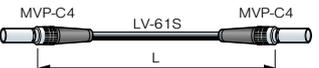


Canare Single



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

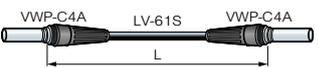


Mini-WECO



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

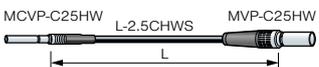
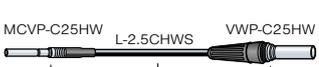
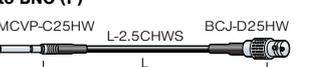
Website



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



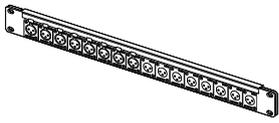
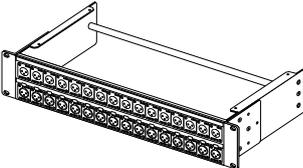
Pre-Loaded A/V Connector Panels

Key Features and Benefits

- 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)		

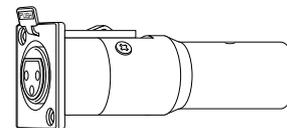
BNC Connector Panels

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

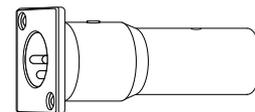
XLR3 Panel Mount Adapters

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)	

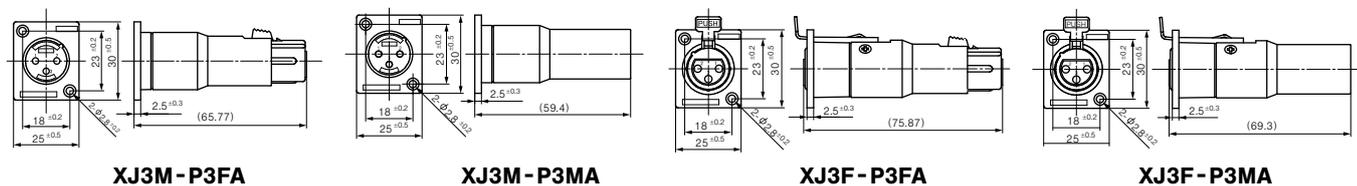
- XJ3 series are XLR3 full compatible.
- XLR jack to jack extremely reduce installation hours.



XJ3F-P3MA



XJ3M-P3MA



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

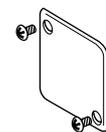
BP-DXF

- 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



IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

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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

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

Website

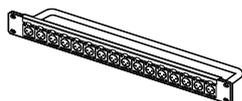


Note: Depending on their length, some connectors can not be mounted on the panel with a cable tie bar installed.

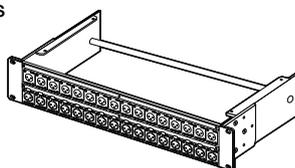
Related Products

Model	Description
M-MA1U02A New	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.

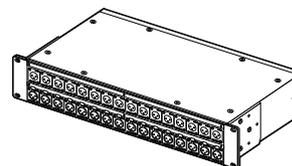
Examples of Custom-Made Connector Panels



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

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

90-602



Bantam wired box **481U-WB***

Website



Bantam

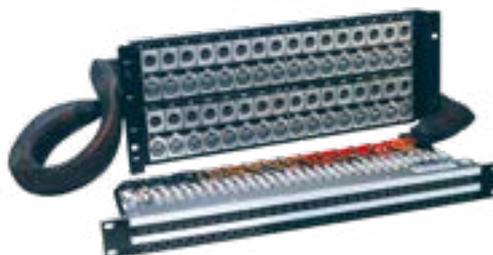
Website



Skini



Bantam wired box **48WB-***



Skini wired panel **32XP-***

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)



TC**B

(See page 92 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.

<Wired box side>

90-602
 (00-8016-090-000-702V)

<Cable side>

90-608 (00-8016-090-000-708V)



*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).

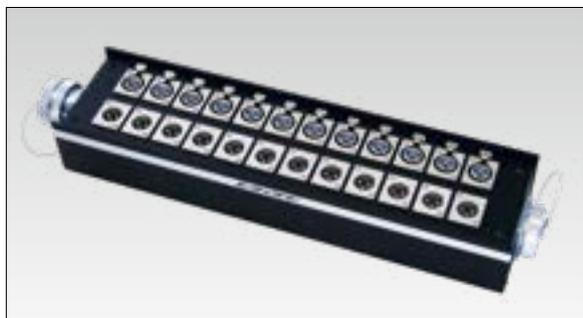
Wiring Table for 90-602

Channel no.	Skini		Bantam		HOT	COLD	SHIELD
	1	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

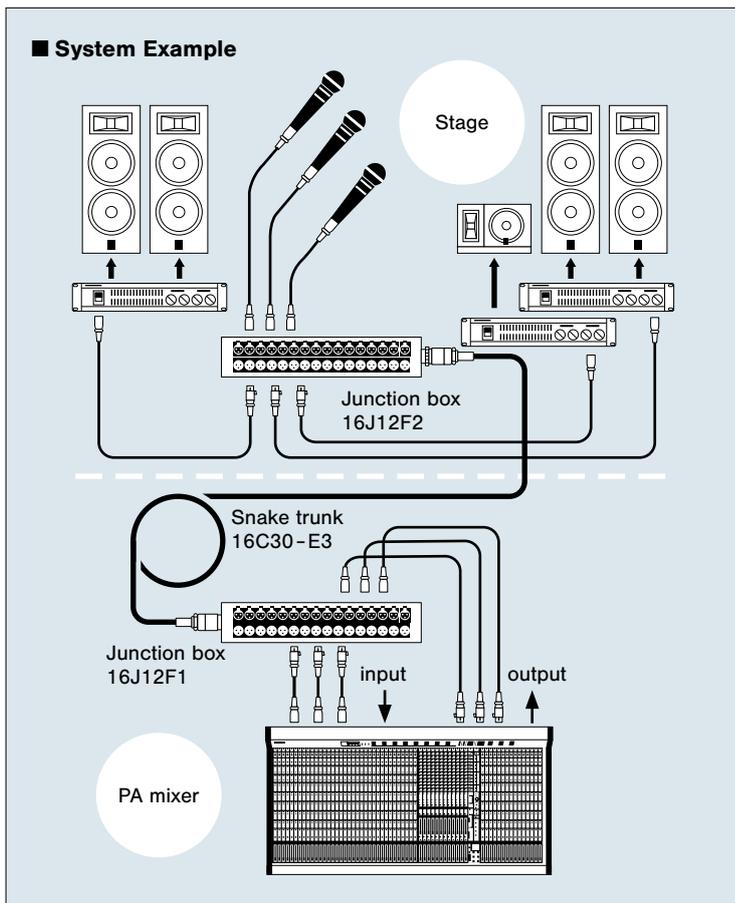
Snake Trunk



Junction Box



System Example



Fantail



Cable Reel Snake

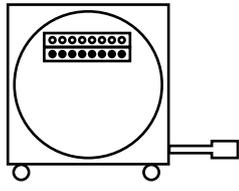
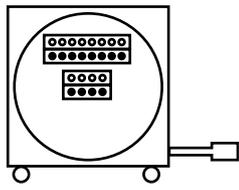
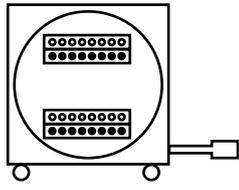
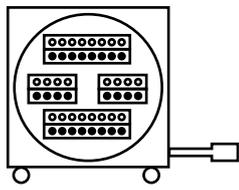


Connectors used with Canare multichannel cable system

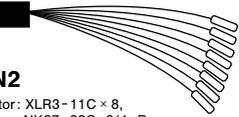
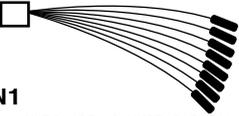
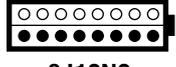
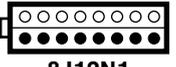
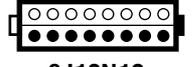
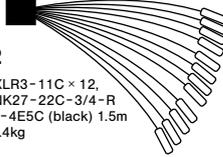
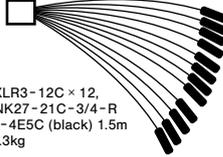
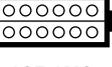
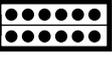
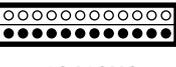
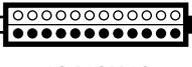
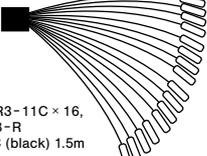
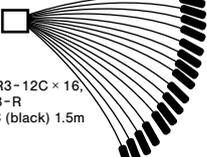
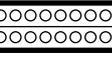
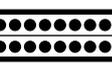
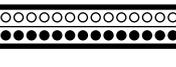
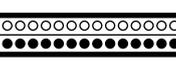
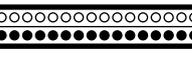
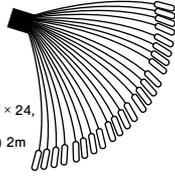
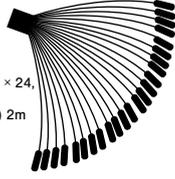
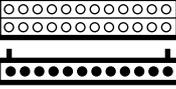
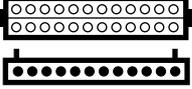
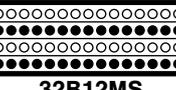
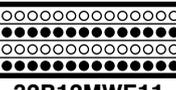
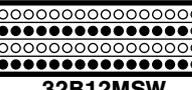
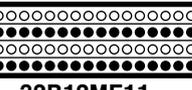
Cable mount	Panel mount	Cable mount	Panel mount
XLR3-11C (female)	XLR3-32-F77 (male)	XLR3-12C (male)	XLR3-31-F77 (female)
For multichannel cable Plug	For Junction box Receptacle	For multichannel cable Plug	For Junction box Receptacle
NK27-21C-R (female) + NK-AD1-R (barrel extension)	NK27-32S-R (male)	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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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> 

IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

Multichannel Systems

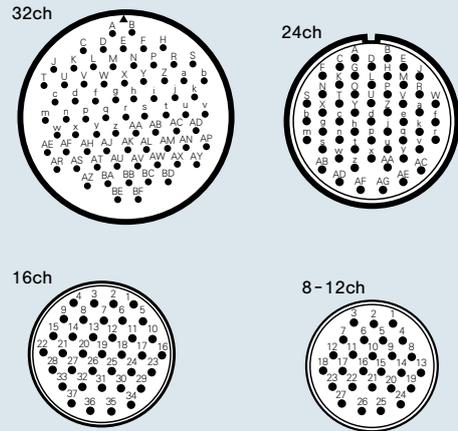
Cable Assemblies

Multichannel Systems

Pin Assignments, Reels

Multichannel Connector Pin Assignments

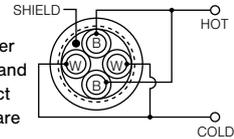
Ch No.	Cable Unit Identification		32ch		24ch		16ch		8ch / 12ch		
	L-4E3	M202	D/MS3102A36-73 D/MS3106B36-73		D/MS3102A32A-10 D/MS3106B32A-10		FK37		NK27		
	Spiral Marker Color	Insulator Color Identifying Color Common Identifying Color	HOT	COLD	HOT	COLD	HOT	COLD	HOT	COLD	
1	RED	RED • WHT	A	B	A	B	1	2	1	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					
23	YEL • WHT	YEL •	AH	AJ	AD	AF					
24	GRN • WHT	GRN •	AL	AM	AG	AE					
25	—	BRN •	AN	AP	SHIELD						
26	—	GRY •	AR	AS	E						
27	—	YEL • BLU	AT	AU							
28	—	GRN •	AV	AW							
29	—	BRN •	AX	AY							
30	—	GRN • YEL	AZ	BA							
31	—	BRN •	BC	BD							
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

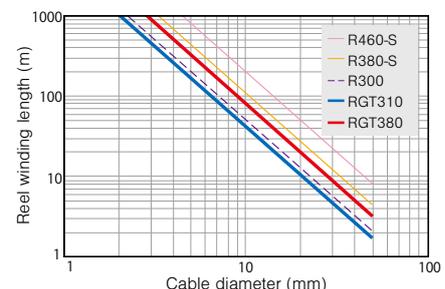
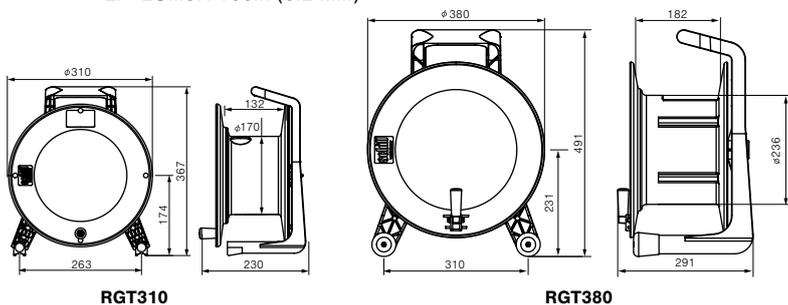


RGT380.MFK



RGT380.MFK
door open

Website



Cable 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)

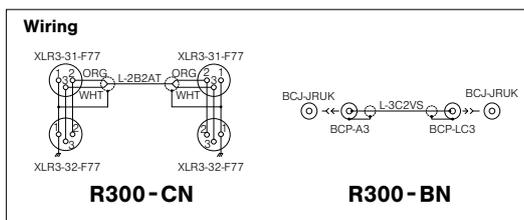
Website



R460-S



R300-S



3-speed brake

Reels with Cable Assemblies

Cable reels with detachable cables

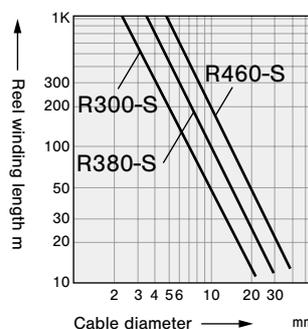
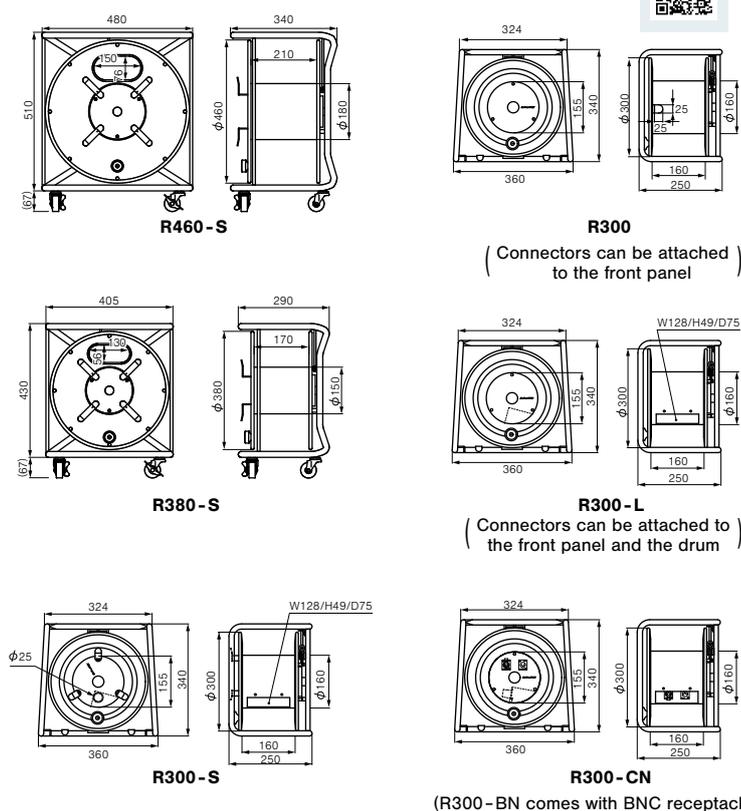
Model	Cable reel	Description			Weight (kg)
		Inner end	Cable	Outer end	
CR100-CN	R300-CN	XLR3-12C	L-4E6S(100m)	XLR3-11C	9.6
CR100-S	R300-S	XLR3-12C	L-4E6S(100m)	XLR3-11C	9.6
CR90-BN	R300-BN	BCP-H5B	L-5C2VS(90m)	BCP-H5B	10.5

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-BN comes with BNC receptacles)

IP Connectivity Products

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Connectors

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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
BNC (M) - BNC (M) Crimp For mobile applications 	D3.3UHW005-S New	0.5
	D3.3UHW01-S New	1
	D3.3UHW02-S New	2
	D3.3UHW03-S New	3
	D3.3UHW05-S New	5
	D3.3UHW10-S New	10
	D3.3UHW10-S New	10
BNC (M) - BNC (M) Crimp For mobile applications 	D5.5UHW10-S New	10
	D5.5UHW20-S New	20
	D5.5UHW30-S New	30
	D5.5UHW50-S New	50
	D5.5UHW50-S New	50



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 **New**

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

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
BNC (M) - BNC (M) Crimp 	D4.5HDC03E	3
	D4.5HDC05E	5
	D4.5HDC10E	10
	D4.5HDC15E	15
	D4.5HDC20E	20

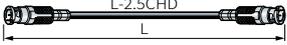
BNC - DIN

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 New

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

Website



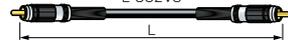
DIN

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

Website



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

Website



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	

Website



IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

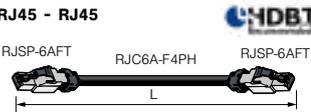
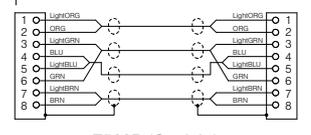
Multichannel Systems

Cable Assemblies

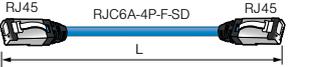
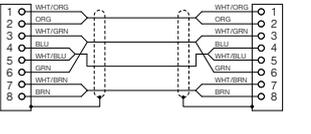
Cable Assemblies

Ethernet

■ Cat6A (Standard U/FTP) New

Type	Model	Length (m)
RJ45 - RJ45  RJSP-6AFT RJC6A-F4PH RJSP-6AFT  BLK WHT T568B (Straight)	NC6AAAT-30	30
	NC6AAAT-50	50
	NC6AAAT-70	70
	NC6AAAT-100	100

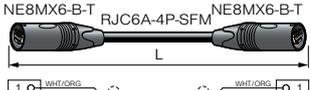
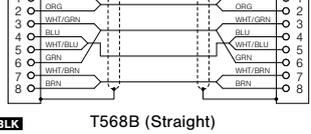
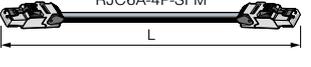
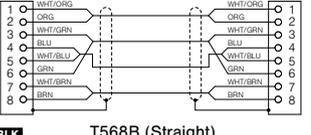
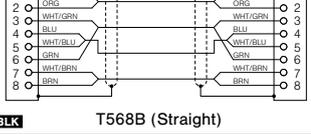
■ Cat6A (Standard F/UTP) New

Type	Model	Length (m)
RJ45 - RJ45  RJ45 RJC6A-4P-F-SD RJ45  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
	NC6AFSD-35	35
	NC6AFSD-40	40
	NC6AFSD-45	45
NC6AFSD-50	50	
NC6AFSD-70	70	

• RJC6A-4P-F-SD is not for sale.

■ Cat6A (Flexible SF/UTP) New

Easy routing

Type	Model	Length (m)	
etherCON - etherCON  NE8MX6-B-T RJC6A-4P-SFM NE8MX6-B-T  BLK 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	
	ETC6A-100-N	100	
	RJ45 - RJ45  RJ45 RJC6A-4P-SFM RJ45  BLK 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	
ETC6A-100-T		100	
etherCON - RJ45  NE8MX6-B-T RJC6A-4P-SFM RJ45  BLK 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	



ETC6A-**-N

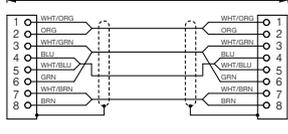


ETC6A-**-T

Website



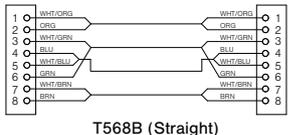
■ Cat6 (Standard F/UTP)

Type	Model	Length (m)
RJ45 - RJ45  RJ45 RJC6-4P-F RJ45  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



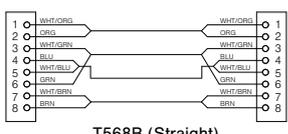
■ Cat6 (Standard U/UTP)

Type	Model	Length (m)
RJ45 - RJ45  RJ45 RJC6-4P+ RJ45  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



■ Cat5e (Standard U/UTP)

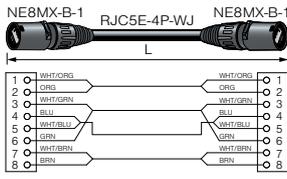
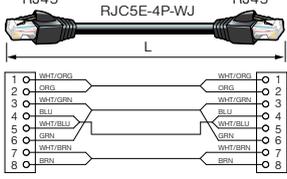
Type	Model	Length (m)
RJ45 - RJ45  RJ45 RJC5E-4P+ RJ45  T568B (Straight)	NC5E-003	0.3
	NC5E-005	0.5
	NC5E-01	1
	NC5E-015	1.5
	NC5E-02	2
	NC5E-03	3
	NC5E-05	5
	NC5E-07	7
	NC5E-10	10
	NC5E-15	15
	NC5E-20	20
	NC5E-25	25
	NC5E-30	30
	NC5E-35	35
NC5E-40	40	
NC5E-45	45	
NC5E-50	50	

Website



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)

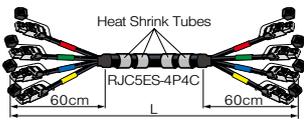
RJ45 - RJ45

BLK T568B (Straight)

Website



Quad-Cat5e (Flexible UTP) New

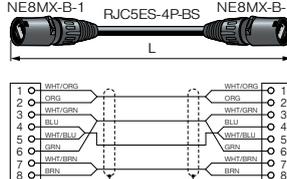
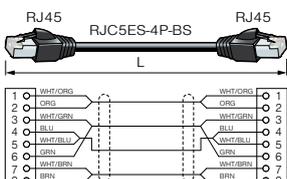
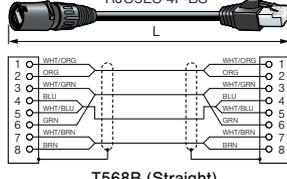
Type	Model	Length (m)
RJ45 - RJ45 	4ETCS-30-T	30
	4ETCS-50-T	50

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)

RJ45 - RJ45

BLK T568B (Straight)

BLK

etherCON - RJ45

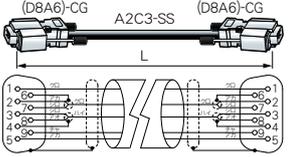
BLK

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

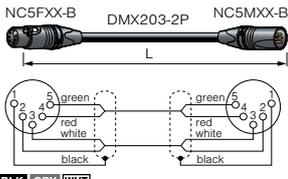
Screws : 2.6

Website



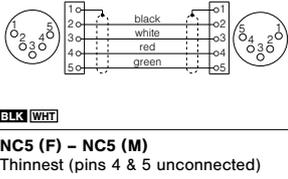
DMX

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

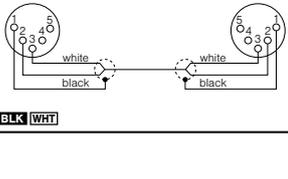
BLK GRV WHT

NC5 (F) - NC5 (M) Thinner

Type	Model	Length (m)
NC5 (F) - NC5 (M) Thinnest (pins 4 & 5 unconnected) 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

NC5 (F) - NC5 (M) Thinnest (pins 4 & 5 unconnected)

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

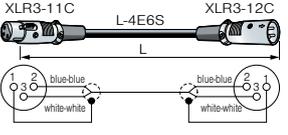
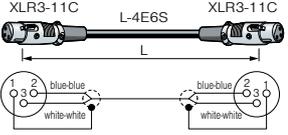
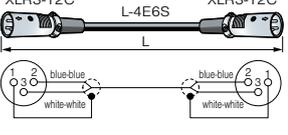
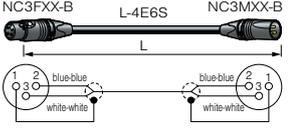
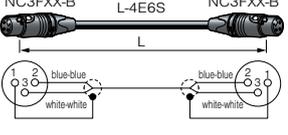
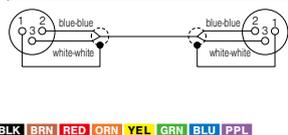


IP Connectivity Products
 Technical Trend
 Fiber-Optic Systems
 Connectors
 Cables
 Panels & Patchbays
 Multichannel Systems
 Cable Assemblies

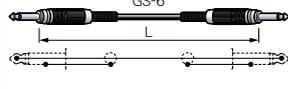
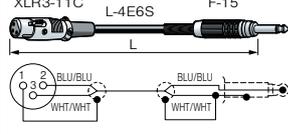
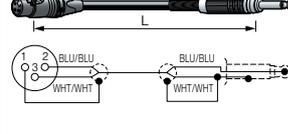
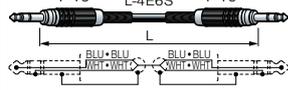
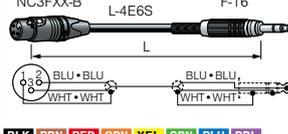
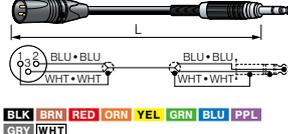
Cable Assemblies

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



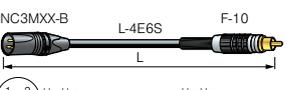
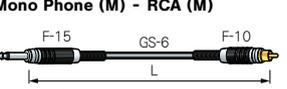
XLR3

Website

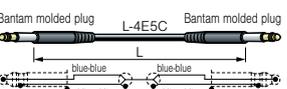
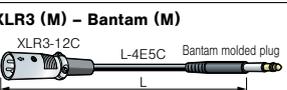


Phone

RCA (Audio)

Type	Model	Length (m)
RCA (M) – RCA (M)  F-10 GS-6 F-10 L BLK RED ORN YEL GRN BLU	RC018	1.8
	RC03	3
	RC05	5
XLR3 (F) – RCA (M)  XLR3-11C L-4E6S F-10 L BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	RC02 - X1	2
	RC05 - X1	5
XLR3 (M) – RCA (M)  XLR3-12C L-4E6S F-10 L BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	RC02 - X2	2
	RC05 - X2	5
NC3 (F) – RCA (M)  NC3FX-B L-4E6S F-10 L BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	New RC02 - B1	2
	New RC05 - B1	5
NC3 (M) – RCA (M)  NC3MXX-B L-4E6S F-10 L BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	New RC02 - B2	2
	New RC05 - B2	5
Mono Phone (M) - RCA (M)  F-15 GS-6 F-10 L BLK RED ORN YEL GRN BLU	QC018	1.8
	QC03	3
	QC05	5

Audio Patch (Bantam)

Type	Model	Length (m)
Bantam (M) – Bantam (M)  Bantam molded plug L-4E5C Bantam molded plug L BLK RED ORN YEL GRN BLU GRY	BC003M	0.3
	BC006M	0.6
	BC009M	0.9
XLR3 (F) – Bantam (M)  XLR3-11C L-4E5C Bantam molded plug L BLK RED ORN YEL GRN BLU GRY	BC02M - X1	2
		2
XLR3 (M) – Bantam (M)  XLR3-12C L-4E5C Bantam molded plug L BLK RED ORN YEL GRN BLU GRY	BC02M - X2	2
		2



BC003M

Website



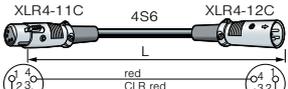
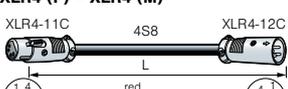
RCA Audio

Website



Bantam

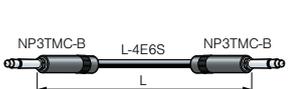
Speaker

Type	Model	Length (m)
XLR4 (F) – XLR4 (M)  XLR4-11C 4S6 XLR4-12C L red CLR red white CLR white BLK RED BLU GRY CRE	SC003	0.3
	SC005	0.5
	SC01	1
	SC05	5
	SC10	10
	SC15	15
XLR4 (F) – XLR4 (M)  XLR4-11C 4S8 XLR4-12C L red CLR red white CLR white BLK GRY	SC05 - S8	5
	SC10 - S8	10
	SC15 - S8	15
NL4 – NL4  NL4FX-W-L 4S11 NL4FX-W-L L CLR red CLR red white white red red CLR white CLR white BLK GRY	SC005A - NL New	0.5
	SC01A - NL New	1
	SC02A - NL New	2
	SC05A - NL New	5
	SC10A - NL New	10
	SC15A - NL New	15
	SC20A - NL New	20
	SC30A - NL New	30
	SC03 - 8NL	3
	SC05 - 8NL	5
NL8 – NL8  NL8FC 8S15G NL8FC L 1+ red 1+ red 1- red/white 1- blue 2+ blue 2+ blue/white 2- yellow 2- yellow 3+ yellow/white 3+ green 3- yellow 3- green 4+ green/white 4+ green 4- green 4- green BLK	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)  NP3TMC-B L-4E6S NP3TMC-B L BLU • BLU BLU • BLU WHT • WHT WHT • WHT BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	TC003B	0.3
	TC005B	0.5
	TC01B	1
XLR3 (F) – Skini/Maxi (M)  XLR3-11C L-4E6S NP3TMC-B L BLU • BLU BLU • BLU WHT • WHT WHT • WHT BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	TC02B - X1	2
	TC05B - X1	5
XLR3 (M) – Skini/Maxi (M)  XLR3-12C L-4E6S NP3TMC-B L BLU • BLU BLU • BLU WHT • WHT WHT • WHT BLK BRN RED ORN YEL GRN BLU PPL GRY WHT	TC02B - X2	2
	TC05B - X2	5



TC003B

Website



IP Connectivity Products

Technical Trend

Fiber-Optic Systems

Connectors

Cables

Panels & Patchbays

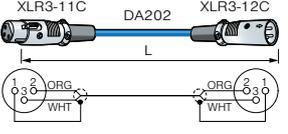
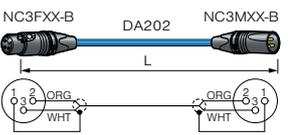
Multichannel Systems

Cable Assemblies

Cable Assemblies

Digital Audio, Analog Audio

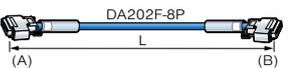
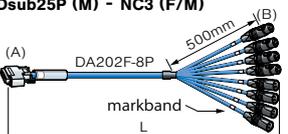
AES/EBU Digital Audio

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

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
Dsub25P (M) - NC3 (F/M) 	8DACS02 - #B12	2
	8DACS03 - #B12	3
	8DACS05 - #B12	5
	8DACS07 - #B12	7
	8DACS10 - #B12	10
	8DACS30 - #B12	30

* 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
8DACS** - TB12	TEAC	4-40	Individual-A	N/A	3: Cold
8DACS** - YB12	YAMAHA	M2.6	Common-A	N/A	1: Shield

<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	

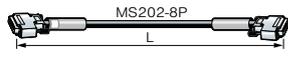
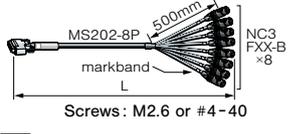
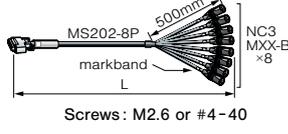
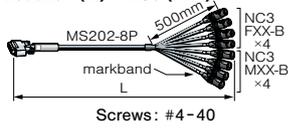
Common - A

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
Dsub25P (M) - NC3 (F) 	8MCS02 - #B1	2
	8MCS03 - #B1	3
	8MCS05 - #B1	5
	8MCS07 - #B1	7
	8MCS10 - #B1	10
	8MCS30 - #B1	30
Dsub25P (M) - NC3 (M) 	8MCS02 - #B2	2
	8MCS03 - #B2	3
	8MCS05 - #B2	5
	8MCS07 - #B2	7
	8MCS10 - #B2	10
	8MCS30 - #B2	30
Dsub25P (M) - NC3 (F/M) 	8MCS02 - CB12	2
	8MCS03 - CB12	3
	8MCS05 - CB12	5
	8MCS07 - CB12	7
	8MCS10 - CB12	10
	8MCS30 - CB12	30

* 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

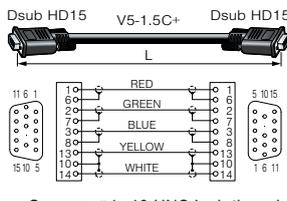
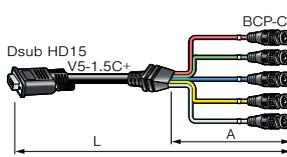
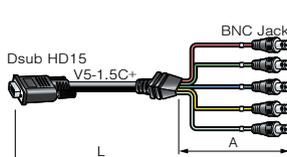


<Wiring for 8MC/8MCS>

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



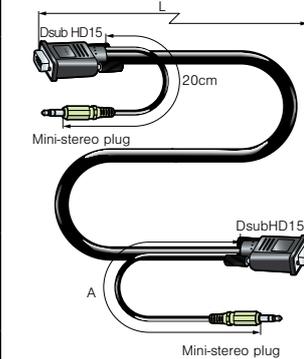
5VDS02A - 1.5C

Website



VGA with Audio

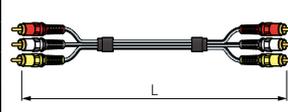
VESA-DDC Plug and Play compliant

Type	Model	Length (m)	
HD-15 (M) – HD-15 (M) 3.5 mm TRS  <p>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



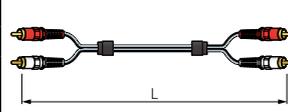
3 RCA Video & Audio

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



IP Connectivity Products

Technical Trend

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 96	HDM***P	page 96	HDM***P-A6	page 97	HDM***AE HDM**H	page 96	HDM**H-A	page 96	HDM10M-EQ	page 96
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 New

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 New

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

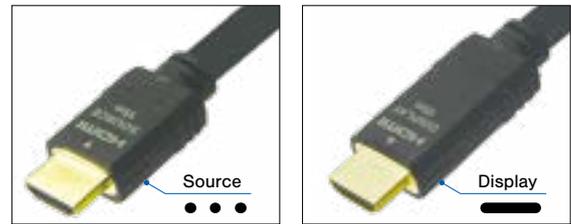
Active Durable High Speed HDMI Cable

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.

Key Features and Benefits

- 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
	New 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.

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Cable Assemblies

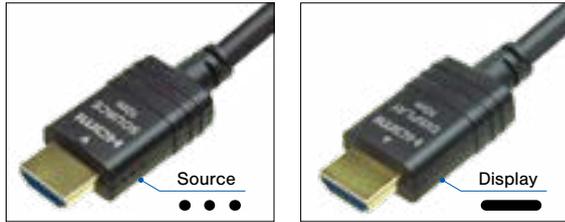
HDMI

High Speed HDMI Active Optical Cable New

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 New

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

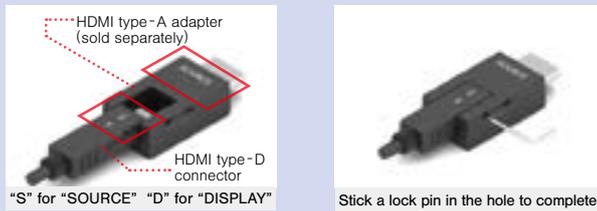
Use of HDMI Active Optical Cables

Connect the right direction



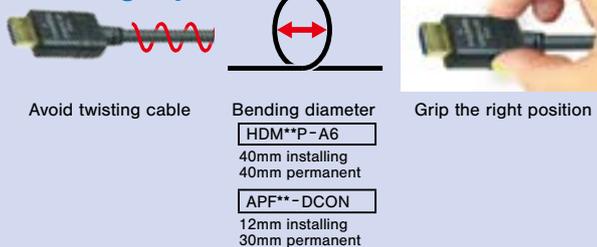
HDMI Active Optical Cables are equipped with IC in both ends connectors. Confirm a designation mark on the connector. It is directional and shall be connected in the right way.

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

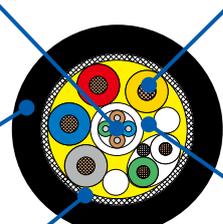
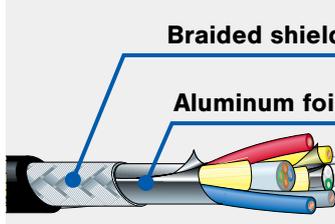
Interface Options

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	<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>		<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>		
	Connector	<p>ESD level 4, fully covered enclosure Verified ESD: Electro-Static Discharge level 4 performance, stable in even harsh environment.</p>			<p>Securely crimped Jacket and filler are properly crimped to connector.</p>

DVI-D Dual Link

VESA-DDC Plug and Play compliant

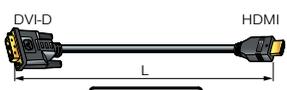
Type	Model	Length (m)
 Screws: #4-40 UNC inch thread	DVID01A	1
	DVID015A	1.5
	DVID02A	2
	DVID03A	3
	DVID05A	5

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.

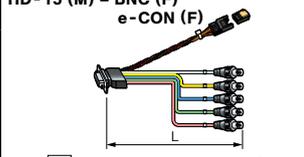
Website



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) male plug and lock nuts included	HDR15F-EJ1.5CA	0.13

* V5D2P-1.7CF is not for sale.

Website



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Cable Assemblies

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 >



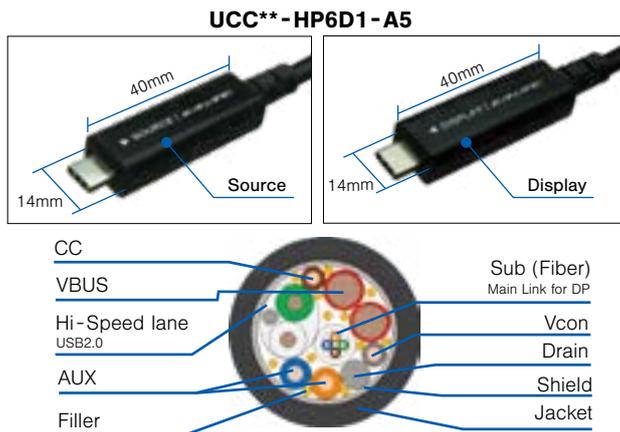
USB Type-C Active Optical Cable Coming soon

UCC-H Series : DP Alt 4-lane 8K30p + USB2.0 + PD60W

Type	Model	Length (m)	O.D. (mm)
<p>Source-side Monitor-side</p>	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

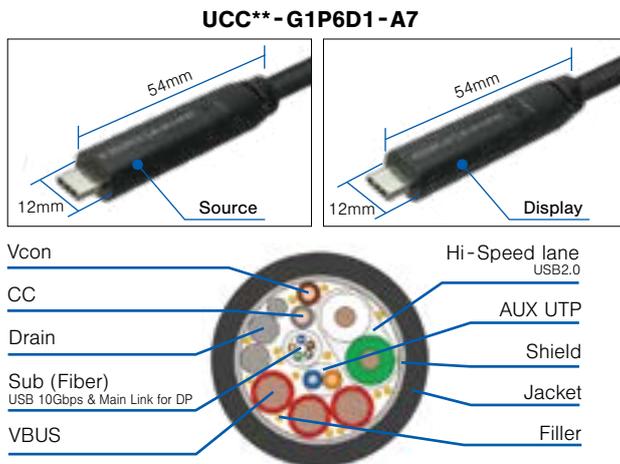


UCC-G Series : DP 4-lane 8K30p + USB 10Gbps + PD60W

Type	Model	Length (m)	O.D. (mm)
<p>Source-side Monitor-side</p>	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



Note: Use quality verified USB charger/adaptor, PC, and monitor to optimize PD60W performance and avoid overheating.

Technical Note

USB Type-C Technology

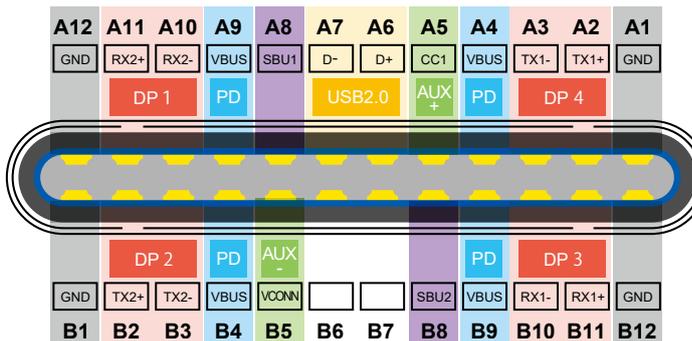
DisplayPort over USB Type-C (DisplayPort Alternate Mode)

“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.



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

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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) New

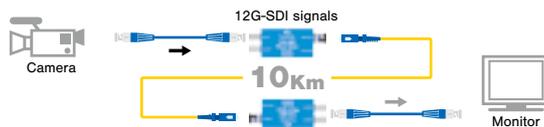
12G-SDI Fiber Optic Extender

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

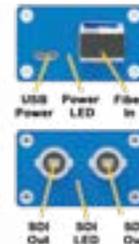
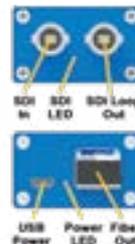


12G-SDI



CB-1120-TX

CB-1120-RX



Specifications

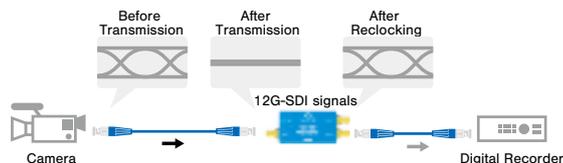
Model	CB-1120 (TX and RX)
Power	Micro USB
Power Consumption	2.0W (Max)
Voltage Range	USB 3.3-5.5 V
Dimension	72.4 × 41 × 24.6 mm
Net Weight	Transmitter: 115 g, Receiver: 115 g
Gross Weight	960g

CB-8120 New

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 New

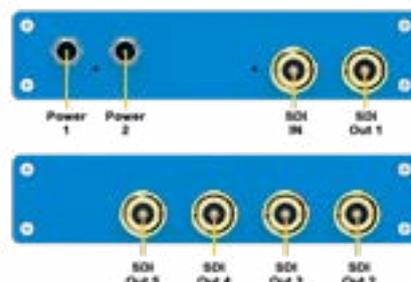
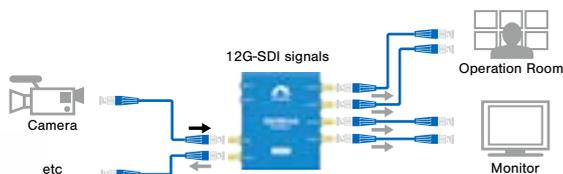
12G-SDI 1 × 5 Reclocking Distribution Amplifier

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

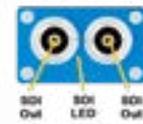
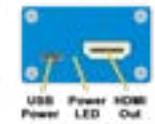
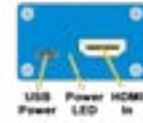
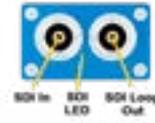
Specifications

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-2011

CB-2012



CB-2021

3G-SDI to HDMI & AV Scaling Converter

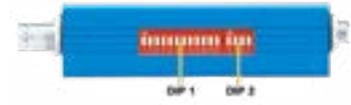
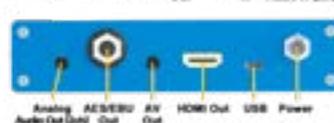
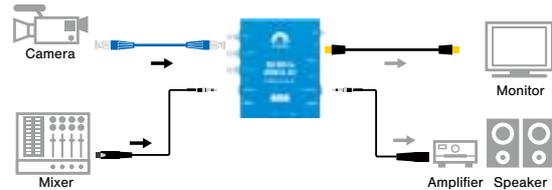
Key Features and Benefits

- 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

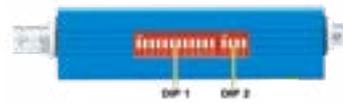
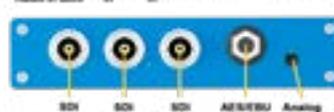
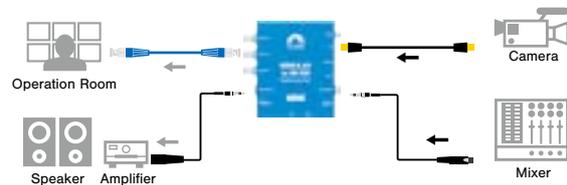


CB-2022

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

5 CanaBridge
Identities Guarantees



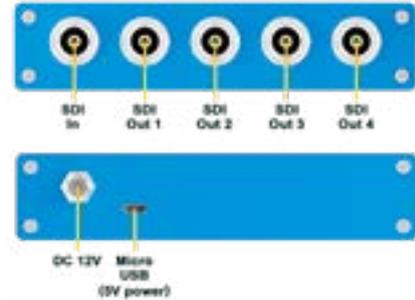
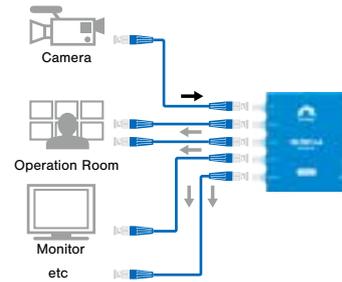
3G-SDI Solutions

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

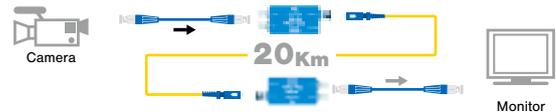
Model	CB-8010
Power	Micro USB or Threaded locking DC connector
Power Consumption	1.5W (Max)
Voltage Range	USB 5V, DC 5-17 V
Dimension	125.5 × 101.4 × 27.5 mm
Net Weight	310 g
Gross Weight	920 g

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



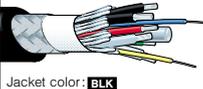
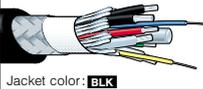
ANNEX: Regional Product Catalog

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

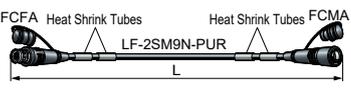
LF-2SM9N-PUR

- 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

FCC**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

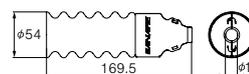
HFO Protective Covers

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

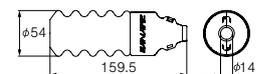
Model	Shape	Component	Color
FC-CV-F-SET-**	Female	1 × Boot	RD: Red GR: Green
FC-CV-M-SET-**	Male	1 × Holder	YL: Yellow BK: Black

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

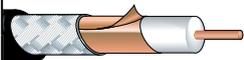


RGT380.MFK
door open

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	Characteristic impedance	Attenuation	NVP
					Comp.	O.D.		O.D.	Foil						
					m	mm	kg/100m	(AWG) Qty/mm	mm	mm	mm	mm/ends/carriers	Ω/km	Ω/km	pF/m
Ultra Coax  Jacket colors for L-3.3CUHD-FRNC: BLK BRN GRN PPL L-5.5CUHD-FRNC: BLK BRN GRN PPL	12G-SDI L-3.3CUHD-FRNC CPR B2	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
	12G-SDI L-5.5CUHD-FRNC CPR B2	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	39.1	86
Super Coax  Jacket colors: BLK and others	12G-SDI L-2.5CHD-FRNC CPR B2	100 200	4.2	2.6	(23) 1/0.59A	0.59	2.59	AL	0.12TA/ 7/16 (95%)	66.9	16.9	53	75	43.1	82
	L-4.5CHD-FRNC CPR Cca		7.0	6.2	(18) 1/1.02A	1.02	4.57	AL	0.14TA/ 6/24 (91%)	23.3	9.9	53	75	25.1	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-CUHD-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.

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			1 slot
1310 nm	1 × LC	2 × 75Ω BNC	1200-1620nm	1 × LC	2 × 75Ω BNC	
7 EO3G-200			8 OE3G-201			2 slots
1271-1611nm for CWDM	1 × LC	2 × 75Ω BNC				
9 EO3G-100A-**						1 slot

- 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			FCMRA (Male) 4 × OE12G-100A			
FCBK4-FF5W1-12G			FCBK4-FM5W2-12G			
FCFRA (Female) 4 × OE12G-101			FCMRA (Male) 4 × OE12G-100A			IDX V-plate
FCBK4-FF5W1-12G-PV			FCBK4-FM5W2-12G-PV			

27 FCBA4-3G						
3G	HD	SD	DVB-ASI			
FCFRA (Female) 4 × OE3G-101			FCMRA (Male) 4 × EO3G-100A			
FCBA4-FF5W1			FCBA4-FM5W2			
FCFRA (Female) 4 × OE3G-101			FCMRA (Male) 4 × EO3G-100A			IDX V-plate
FCBA4-FF5W1-PV			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 1 × D sub 25 pin(F)
11 TRM-540A-**						

- 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 1 × RJ45
13 TRM-300A-G**						

- 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 1 × RJ45
15 TRM-210A-**						

- 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



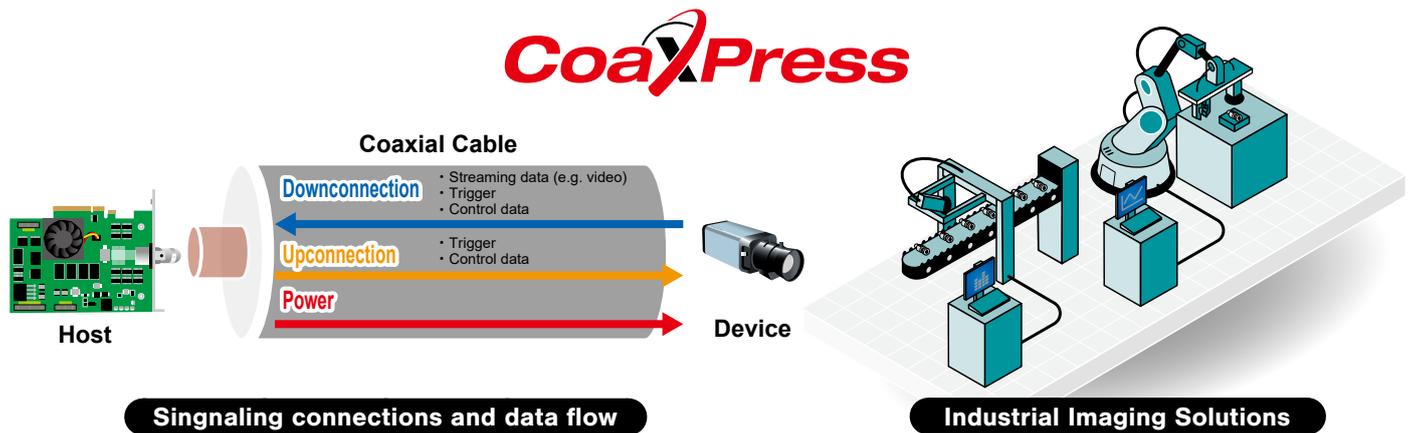
FDM-4

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.



Singnalng connections and data flow

Industrial Imaging Solutions

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 [<http://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

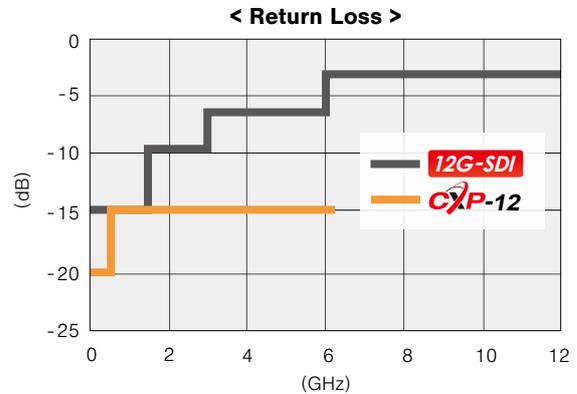
Type	Normative Reference	Impedance	Contact Material	Return Loss	CXP Speed	Canare
BNC	IEC 61169-8	75Ω (±4Ω)	Center: Gold plated Outer : Nickel or white bronze plated	0 - 500MHz : 20dB 500MHz-6.25GHz: 15dB	Up to CXP-12	BBCP-D BCP-B
MicroBNC	N/A		Center: Gold plated Outer : Gold plated			HBCP-D
DIN 1.0/2.3	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

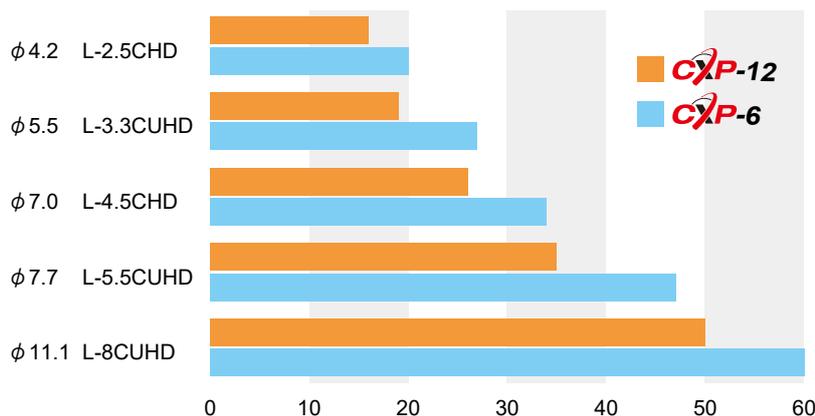


Canare CXP-6/12 Products (for fixed installations)

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 87-88 for more information
	MicroBNC both	Yes	Yes	
	DIN both	Yes	-	
	BNC-MicroBNC	Yes	Yes	
	BNC/MicroBNC-DIN	Yes	-	



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