HFO Camera Cables

Hybrid Fiber-optic Camera Cables (SMPTE ST 311)

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

LF-2SM9N

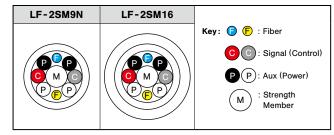
- For general use.
- · Abrasion-resistance Jacket enhance the adaptability to all studio and outside broadcast applications.
- · Cost effective

LF-2SM16

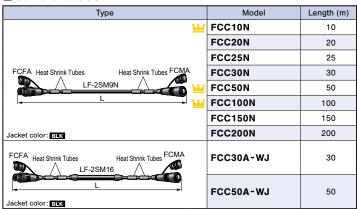
- For studio use.
- O.D. 16mm Double Jacket prevents the cable from being jammed under a camera pedestal dolly.

Website

Cross Section



■ Camera to CCU



- 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.

HFO Protective Covers

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



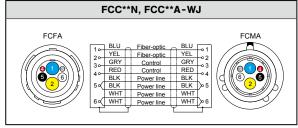


FCFA

FCMA



Color Rings



Wiring Diagram

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

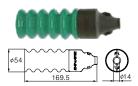
Cover: PVC, Holder: PE

Website

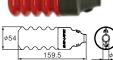
Website

Website

- 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
- * 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

		Sales	Nom.				Tension	Strength	Min.	Temp.	Channel Unit			
Туре	Type Model	Units	O.D. (mm)	kg/100m	Outer Jacket	Overall Shield	Tolerance (N)	Member O.D. (mm)	Bend Radius	Range (deg C)	Fiber	Aux. (Power)	Signal (Control)	
Jacket color: BLK	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	

Website

Website

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.

■ Camera to CCU

Туре	Model	Length (m)
	FCC10-7N	10
	FCC20-7N	20
FCF7A Heat Shrink Tubes Heat Shrink Tubes FCM7A	FCC25-7N	25
L	FCC30-7N	30
	FCC50-7N	50
Jacket color: BLK	FCC100-7N	100

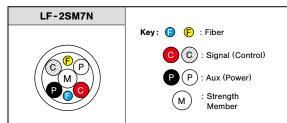
- Equipped with slim and lightweight cable.
- FCC100-7N is approx. 5 kg lighter than typical 100m HFO camera cable as FCC100N.
- Heat shrink tubes help in labeling.
- 7-color connector rings included.

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)



Cross Section





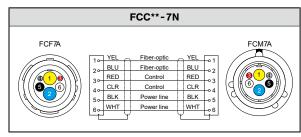


FCF7A

FCM7A



Color Rings



Wiring Diagram

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.

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



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.

		Units	Niem). Weight			Tension	Strength	Min.	Temp.	Channel Unit		
Туре	Model		Nom. O.D. (mm)		Outer Jacket	Overall Shield	Tolerance (N)	Member O.D.	Bend Radius	Range (deg C)	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 × SM 9/125 (low-water-peak) Unit O.D. 0.9 mm	4 × 20 AWG 102 / 0.08A Unit O.D. 1.75 mm	2 × 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 × SM 9/125 (low-water-peak) Unit O.D. 1.7 mm	2 × 23 AWG 60 / 0.08A Unit O.D. 1.4 mm	2 × 26 AWG 30 / 0.08A Unit O.D. 1.1 mm

Website

LF-2SM9T

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

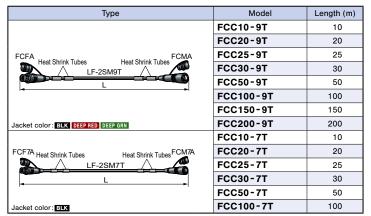
LF-2SM7T

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

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

can buy the cable assemblies shown below.

■ Camera to CCU



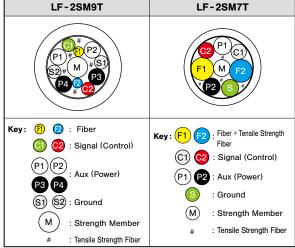
- Tough & Flexible cable
- Fit for mobile applications in harsh environments.
- · Heat shrink tubes help in labeling.
- 7-color connector rings included.





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.





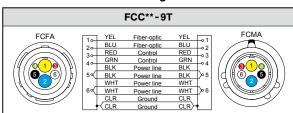


FCFA, FCF7A

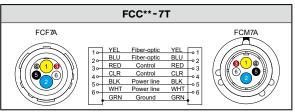
FCMA, FCM7A



Color Rings



Wiring Diagram



Wiring Diagram

HFO Camera Cable Assemblies (Flanged Type)

■ Panel to CCU

Туре	Model	Length (m)
FCFRCA Heat Shrink Tubes Heat Shrink Tubes FCMA	FCC05N-FRCM	5
Jacket color: BLK IU-FCF-SET included	FCC10N-FRCM	10
FCFA Heat Shrink Tubes Heat Shrink Tubes FCMRCA	FCC05N-FMRC	5
Jacket color: BLK IU-FCM-SET included	FCC10N-FMRC	10

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

Website

Website

- 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 (λ =1.3 μ m) .
- Insertion loss: 0.5dB or less (λ =1.3 μ m) .
- · Connector body material is stainless steel.
- Color rings and insulation plates included.
- See below for the panel hole dimensions.







FCMRCA



Color Rings



IU-FC*-SET

HFO Camera Receptacle Cables

■ Pigtails

	Type		Model	Length (m)
Jacket color: ELK	Braid Tube L IU-FCF-SET included	SC×2、 Nylon connector	FCS015A-FR	1.5
FCMRA Jacket color: BLK	Braid Tube L IU-FCM-SET included	SC×2, Nylon connector	FCS015A-MR	1.5

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

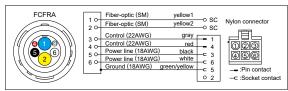
- Ideal for connecting wall terminal panels to splice enclosures, etc.
- Return loss: 45dB or greater (λ =1.3 μ m) .
- Insertion loss: 0.5dB or less (λ =1.3 μ m) .
- · Connector body material is stainless steel.
- · Insulation plates included.
- See below for the panel hole dimensions.



FCFRA



FCMRA



Wiring Diagram

Insulation Plate

Ideal for perfect insulation between individual connector and panel.

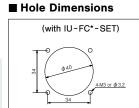
Model	Suitable Connector
IU-FCM-SET	FCMRA, FCMRCA
IU-FCF-SET	FCFRA, FCFRCA

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



IU-FC*-SET





Extraction Tool

Extraction tool helps easy to clean Canare HFO connectors.

	.,pc cuc, 10 c.cu cu
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.



Website



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



Website

FC connectors

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

Camera to CCU

OCC 0



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



OCFA





Panel to CCU

Series name

PNL mount M to cable mount F

and vice versa

Cable type: LF-2SM9N

10 = 10 meters Call for custom lengths.

Lengths

05 = 5 meters

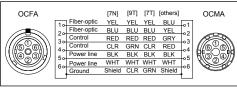
Connector type

FRCM: OCFRCB-OCMA FMRC: OCMRCA-OCFA Website



OCFRCB

OCMRCA



Wiring Diagram for OCC

Pigtails

Series name

OC breakout

Lengths

015 = 1.5 meters Call for custom lengths.

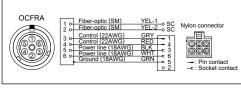
Connector type

 $\textbf{FR}: \text{OCFRA} \text{ to } 2 \times \text{SC, } 1 \times \text{Nylon}$

MR: OCMRA to 2 × SC, 1 × Nylon







Wiring Diagram for OCS

SMPTE Conversion

FCM: FCMA

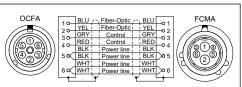
Lengths

Connector B

OCM: OCMA







Wiring Diagram for Conversion

Connector A

FCF: FCFA

Call for custom lengths.

OCF: OCFA

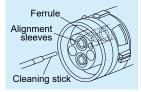
Cable type: LF-2SM9N Call for custom models.

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.







After cleaning

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.



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.

■ FC Series FCFA / FCF7A / FCFRA / FCFRCA





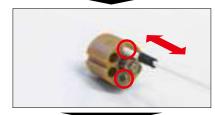




■ OC Series & OM6 Series OCFA / OCF7A / OCFRA /OCFRCB / OM6PA / OM6PRA









HFO Camera Connector Panels

Hybrid Fiber-optic Camera Connector Panels

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

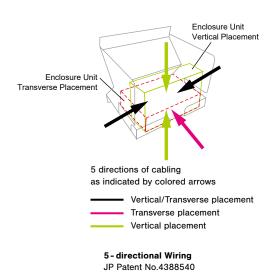


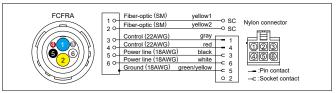
■ COPS Series (SMPTE)

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

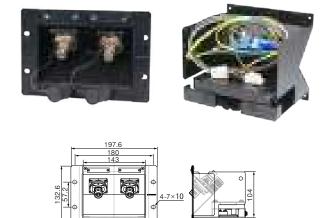
Key Features and Benefits

- 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

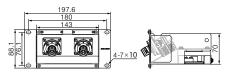




Wiring Diagram

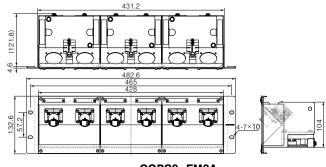


COPS-FF3A



COPS-FF2A





COPS3-FM3A

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: 20×2 to 16 AWG)

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

■ Individual Frame and Unit

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

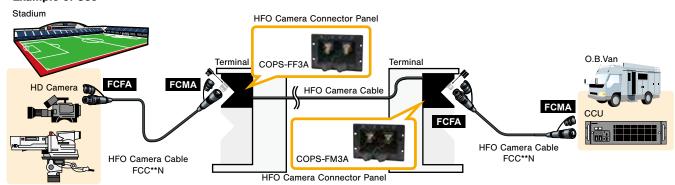
*HFO connectors are pre-terminated. (length: 0.3 m)
*Canare OC series (Hybrid-OPS profile) is also available. Please contact us for more details.

■ Optional Parts

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

Connector Unit COUS-***A Connector Panel COPS*-***A

<Example of Use>



Hybrid Fiber-optic Splice Enclosures

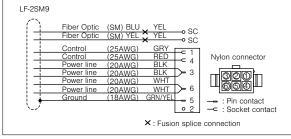
The optimized fiber-optic splice enclosures for use with HFO camera cables.

Model	No. of cables	No. of	No. of Adapters			
Model	(capacity)	splice trays	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:

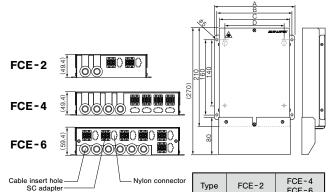
The following tools are required for installing the nylon connector. AMP 91529-1 (26 to 22 AWG) and AMP 91536-1 (20 \times 2 to 16 AWG)



Wiring Diagram



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.



Multi-Channel Snake

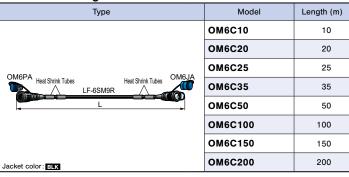
Multi-Channel Fiber Optic Cables

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 (λ = 1.3 μ m)
- · Open to any SM optical signal
- 2mm SMPTE Ferrules

■ OM6 Series

Trunk Cable: Plug - Jack





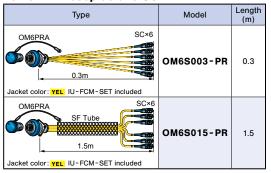




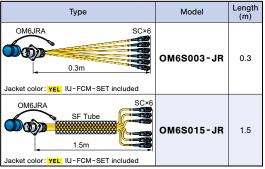
OM6JA

Website

Fantail: P Receptacle to SC









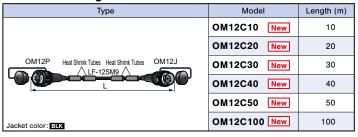
OM6PRA



OM6JRA

■ OM12 Series

Trunk Cable: Plug - Jack





Website

Website

9-1-1

OM12P OM12J

Fantail: P Receptacle to SC

Туре	Model	Length (m)
OM12PR SF Tube 2m Jacket color: YEL	New OM12S02-PR	2

Fantail: J Receptacle to SC

Туре	Model	Length (m)
OM12JR SC×12 SF Tube 2m Jacket color: YEL	New OM12S02-JR	2

OM12PR

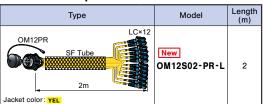


OM12JR

■ Hole Dimensions

■ Hole Dimensions						
OM6S**-*R	OM12S02-*R(-L)					
34 4-M3 or φ3.2 (with IU-FCM-SET)	4-M3 or φ 3.4					

Fantail: P Receptacle to LC



Type Model Length (m)

OM12JR SF Tube
OM12S02-JR-L
2m
Jacket color: YEL

Tactical Fiber-optic Cable

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



						- .	Tomolog	Min	_	Fibe	r-optic Uni	t
Туре	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	Attenuation	Unit O.D.
Jacket color: BLK	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: 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

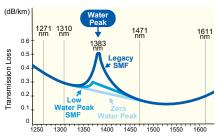


Key: F : Fiber + Aramid Yarn # : Aramid Yarn

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.



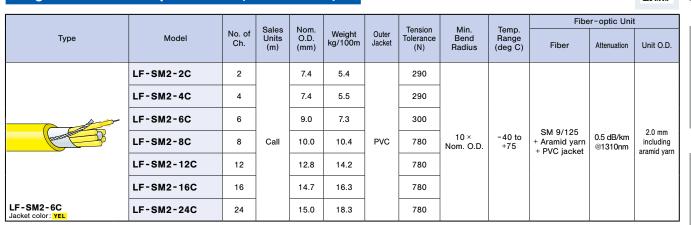
Wavelengths	nm

		Bend	Number	Bending Los	s (Max. at)	
ITU-T	Category	Radius	of Turns	λ=1550nm	λ=1625nm	
		(mm)	(times)	(dB)	(dB)	
	A1	15	10	0.25	1.0	
	A1	10	1	0.75	1.5	
		15	10	0.03	0.1	
	A2	10	1	0.1	0.2	
		7.5	1	0.5	1.0	
G.657		15	10	0.03	0.1	
	B2	10	1	0.1	0.2	
		7.5	1	0.5	1.0	
		10	1	0.03	0.1	
	В3	7.5	1	0.08	0.25	
		5	1	0.15	0.45	

■ Cable Assemblies

Туре	Model	Length (m)
SC Plug SC Plug	4FS50T-SS	50
LF-SM2T-4C	4FS100T-SS	100
	4FS150T-SS	150
Jacket color: ELK	4FS200T-SS	200
LC Plug LC Plug	4FS50T-LS	50
LF-SM2T-4C	4FS100T-LS	100
	4FS150T-LS	150
Jacket color: BLK	4FS200T-LS	200
ST Plug ST Plug	4FS50T-ST	50
LF-SM2T-4C	4FS100T-ST	100
500mm 500mm	4FS150T-ST	150
Jacket color: BLK	4FS200T-ST	200

Single-mode Fiber-optic Cables (Multichannel)



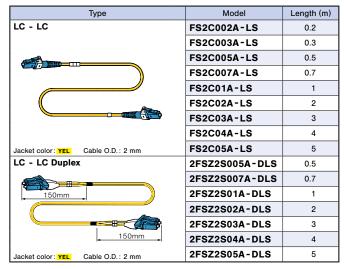
- Smooth PVC Jacket
- Including a central strength member and a rip cord.



Fiber-optic Cables

Single-mode Fiber Optic Patch Cables

Туре	Model	Length (m)
sc - sc	FS3C002A-S	0.2
	FS3C003A-S	0.3
THE OWNER TO SERVICE THE OWNER	FS3C005A-S	0.5
<u> </u>	FS3C007A-S	0.7
	FS3C01A-S	1
Managari Fr. Line	FS3C02A-S	2
,	FS3C03A-S	3
	FS3C04A-S	4
Jacket color: YEL Cable O.D.: 3 mm	FS3C05A-S	5
SC - SC	FS2C002A-SS	0.2
	FS2C003A-SS	0.3
	FS2C005A-SS	0.5
	FS2C007A-SS	0.7
	FS2C01A-SS	1
	FS2C02A-SS	2
	FS2C03A-SS	3
	FS2C04A-SS	4
Jacket color: YEL Cable O.D.: 2 mm	FS2C05A-SS	5
SC - LC	FS2C002A-SS/LS	0.2
	FS2C003A-SS/LS	0.3
	FS2C005A-SS/LS	0.5
	FS2C007A-SS/LS	0.7
	FS2C01A-SS/LS	1
_	FS2C02A-SS/LS	2
	FS2C03A-SS/LS	3
	FS2C04A-SS/LS	4
Jacket color: YEL Cable O.D.: 2 mm	FS2C05A-SS/LS	5



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



Single-mode Fiber Optic Fantails

Туре		annel Model	Length (m)	Fiber Optic Cable			
		Channel Model		Part Number	Unit O.D. (mm)	Nom. O.D. (mm)	
sc - sc		2FS10-S	10			7.4	
	2	2FS20-S	20	LF-SM2-2C			
		2FS50-S	50				
		4FS10-S	10				
150mm Peel-off String	4	4FS20-S	20	LF-SM2-4C		7.4	
Too on using		4FS50-S	50				
		6FS10-S	10			9.0	
	6	6FS20-S	20	LF-SM2-6C			
		6FS50-S	50				
500mm	8	8FS10-S	10				
150mm Peel-off String		8	8FS20-S	20	LF-SM2-8C	2	10.0
Pee-oil Stilling		8FS50-S	50		_		
		12FS10-S	10				
	12	12FS20-S	20	LF-SM2-12C		12.8	
500mm		12FS50-S	50				
L L		16FS10-S	10				
7	16	16FS20-S	20	LF-SM2-16C		14.7	
		16FS50-S	50				
		24FS10-S	10				
	24	24 24FS20-S 20 LF-SM2-24C		15.3			
Jacket color: YEL		24FS50-S	50				

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



OM3 Multi-mode Fiber Optic Patch Cables

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

Туре Model Length (m) LC - LC FM32C005-LS 0.5 FM32C01-LS 1 FM32C03-LS 3 FM32C05-LS 5 Jacket color: AQUA Cable O.D.: 2 mm LC - LC Duplex 2FM3Z2S005-DLS 0.5 2FM3Z2S01-DLS 150mm 1 2FM3Z2S03-DLS 3 150mm 2FM3Z2S05-DLS 5 Cable O.D.: 2 mm lacket color: AQ

Website

Website

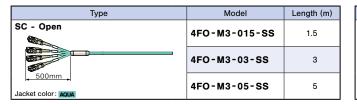
Fiber type: Multi-mode 50/125 OM3Typically used in 10 Gigabit Ethernet

• Minimum bend radius: 10 mm

Insertion loss: 0.3 dB max.Return loss: 30 dB max. (PC)

• UL type OFNR

OM3 Multi-mode Fiber Optic Fan-out Cables



- 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)

 LC Open

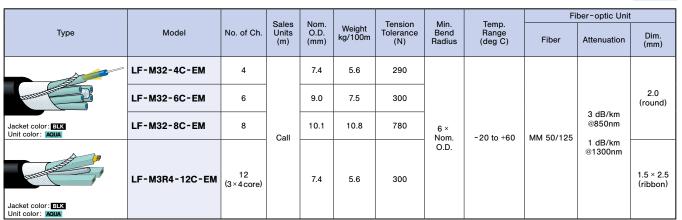
 4FO M3 015 LS 1.5

 4FO M3 03 LS 3

 4FO M3 05 LS 5
- \bullet Ribbon fiber cable: 2.1 \times 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



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.

