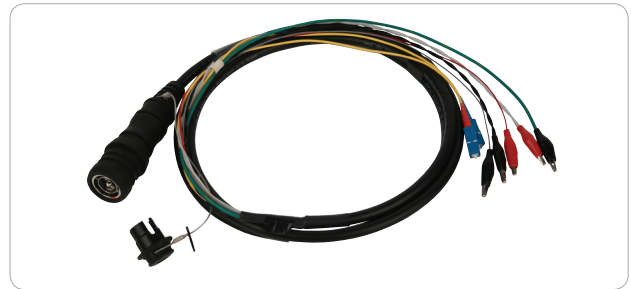
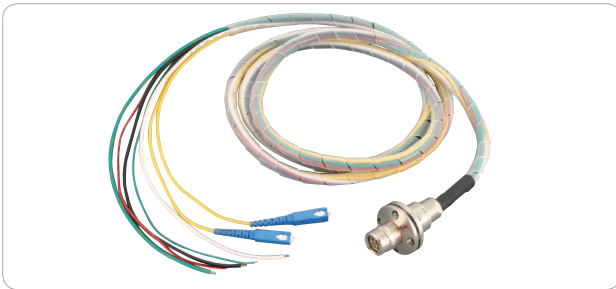


Hybrid Optical fiber Cable & Connector



Cable Assembly



Hybrid Optical Fiber Receptacle Cable



Connectors



Receptacles

Applications

- HDTV
- CATV networks
- Data system networks
- Telecommunication network
- Local area network
- Broadcasting
- Transportation
- Special environments

Features & Benefits

- Push-pull self-latching system
- Very low optical loss
- Reliable design for outdoor application
- In-line connectors for chaining of cables
- World-wide product support
- Compact design
- (2 fibers, 2 power contacts and 2 signal contacts)
- Tested to the requirements of IEC 874-1
- UL 498 recognition
- Pre-terminated cables available
- Connecting wall terminal panels splice enclosures, etc
- All cable lines are protected by a spiral tube
- SC connectors SPC polish ($RL \geq 45\text{dB}$)
- Electrical lines come with nylon connectors, which are easily connected
- Optical Fiber cables are single-mode ($\lambda = 1.3\mu\text{m}$) with transmission loss of 0.5dB


Hybrid Optical Fiber Cable & Connector

Specification

	Parameter	Power	Signal
Electrical Characteristics	Number of contacts	2	2
	Contact type for plugs	male	female
	Conductor AWG min	1.3mm	0.9mm
	Conductor AWG max	14mm	20mm
	Operating voltage max	≤600 V rms	≤42 V rms
	Contact resistance	< 3.6mΩ	< 4.8mΩ
Optical Characteristics	Number of fibers	2	
	Type of contact	F2	
	Fiber type	SM	
	Insertion loss	0.33 dB (1)	
	Return loss	> 45 dB (2)	

(1) Tested at 1310nm in accordance with IEC 874-1 method 7

(2) Super PC machine polishing

Type	Model	Nom O.D	Weight	Overall shield coverage	Tension tolerance	Bend radius tolerance	Temperature range
		mm	kg / 100m	%	N		
 LF-2SM9R Jacket color for LF-2SM9R, LF-2SM16: Black	LF-2SM9R	9.2	11.0	91.8	700 [71kgf]	Over 6 times cable outer diameter	-40°C ~ +80°C
	LF-2SM9						
	LF-2SM16	16.0	28.0				

Cross-Sectional View	Configuration															
<div><p>Optical Fiber Cable</p><p>Polyamide Optical fiber</p><p>Jacket Aramid yarn</p></div> <div><p>Filler</p><p>Control line</p><p>Tension member</p><p>Overall tape</p><p>Optical fiber</p><p>Powerline</p><p>Shield</p><p>Jacket</p></div> <div><p>9.2</p><p>16</p></div> <div><table><tr><td>Unit No.</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td></tr><tr><td>Jacket color</td><td>BLU</td><td>YEL</td><td>RED</td><td>GRY</td><td>BLK</td><td>WHT</td></tr></table></div>	Unit No.	1	2	3	4	5	6	Jacket color	BLU	YEL	RED	GRY	BLK	WHT	Optical fiber cable	2 single-mode fibers (blue, yellow) Core outer diameter 0.9mm, jacket outer diameter 1.7mm Transmission loss 0.5dB/km or less (λ =1.3μm) 0.2dB or less when less than L >0.2km
	Unit No.	1	2	3	4	5	6									
	Jacket color	BLU	YEL	RED	GRY	BLK	WHT									
Power line	4×0.52mm ² (20 AWG, black, white) 21/0.18TA, conductor resistance 37.5Ω/km or less Insulation resistance 10000Ω or more · km Withstand voltage 1750V AC 1mim															
Control line	2×0.18mm ² (25 AWG, red, gray) 7/0.18TA, conductor resistance 113Ω/km or less Insulation resistance 10000Ω or more · km Withstand voltage 1750V AC 1mim															

* Hybrid Optical Fiber Cable & Connector can be Customized for Special Orders (Color, Core, etc...)