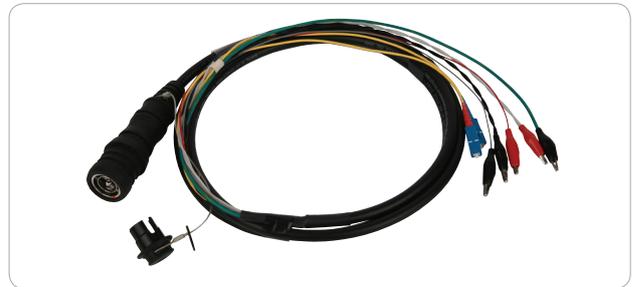
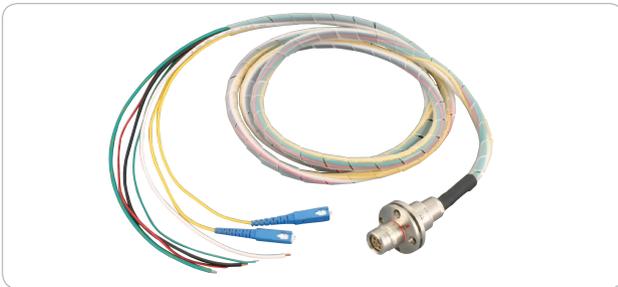


# Hybrid Optical fiber Cable & Connector



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≥45dB)
- 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

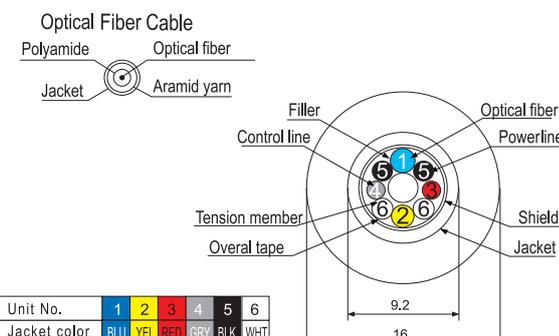
# Hybrid Optical Fiber Cable & Connector

## 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	
	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
	Power line	4×0.52mm <sup>2</sup> (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 <sup>2</sup> (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. . . )