

# OPTIC COMMUNICATION BUSINESS UNIT + Protector of Optic Fiber

Kaiphone Communication Co., Ltd.

凯灣野拉 KAIPHOILE



Profile of Kaiphone Optical Communication Business Unit

Optical Communication Business Unit is one of the organizations of Kaiphone Group. From 2000, Kaiphone began to Call in optical experts, established the Optical Communication Business Unit, and then, launched into the research, development and production of Mini Armored Fiber Optic Cable, meantime, merged with the longtime rich mechanical knowledge and experience, developed in novative products, designed various effective solutions for the customer.

While the demand for optical fiber in high-speed and wide brand network, indicates the endless prosperous future too.

Kaiphone Optical Communication Business Unit equipped with optical professional technique and longtime skillful mechanical design experience, makes the optic fiber patch cord can be electric cable-like handling and easy to install. They are widely used in Optical Communication System, LAN, CATV, CO, Military, Optical Sensor System and etc. Its unique mechanical performance makes the installation and replacement much more easily, promotes the durability of Fiber optic, extends the life of fiber optic, reduces the cost for the end customer, and increases the benefit.

In 2001, Kaiphone Optical Communication Business Unit started to develop the application solutions for optical communication, and began to produce Mini Armored Optic Fiber Cable series products -- Armored Fiber Optic Patch Cord, Armored Fiber Optic Coupler, Armored Dispatching Patch Cord, Mini Armored Fiber Optic Cable and Sensing Cable. Moreover, resorting to the perfect sales network and excellent afterservice, Kaiphone products entered into the market quickly, and got the reliance and support from China Mobile, China Telecom and other well-known customers.

Quality builds the brand. In 2004, our products got the below certification successively --- Practicable New Pattern Patent Certificate, Network Access License for Telecommunication Equipment and TLC; the Certificate of Network Access for Broadcast Equipment, SGSA uthorization and UL certificate, which provides quality guarantee further for Kaiphone products. Our team believes that providing the most excellent products and service can bring optimal income for the customer definitely.

To face the future, our team is full of confidence. We will make great efforts to develop photoelectric communication products, provide new FTTH solutions, design high-grade wiring solutions and etc. Kaiphone Optical Communication Business Unit will continue to take quality and innovation as the basis of enterprise developing, dedicate to the development of Optical Communication Industry, and provide first-class products and service for our customer!





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- 1. Aromred Optical Fiber Patch Cord
  Simplex FO Patch Cord
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- 5. Optical Dispatching Patch Cord for Live Broadcasting
- 6. HDTV Video Camera Connection Assemble
- 7. Mini Armored Optical Fiber Cable

TO Afford The Perfect Solution To Our Customers Is Our Tenet

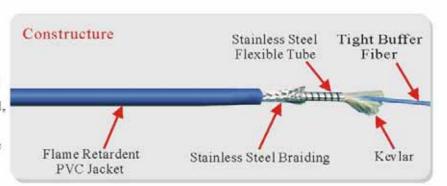


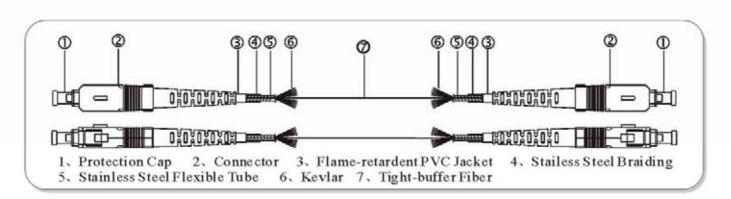
It is available to deploy directly without additional protecting tube in CO or any harsh environment, thus, it can save the space, low down the construction cost, and make the maintenance very convenient; moreover, because it is protected by stainless steel flexible tube from destroyed, it can improve the safety and stability of whole system.

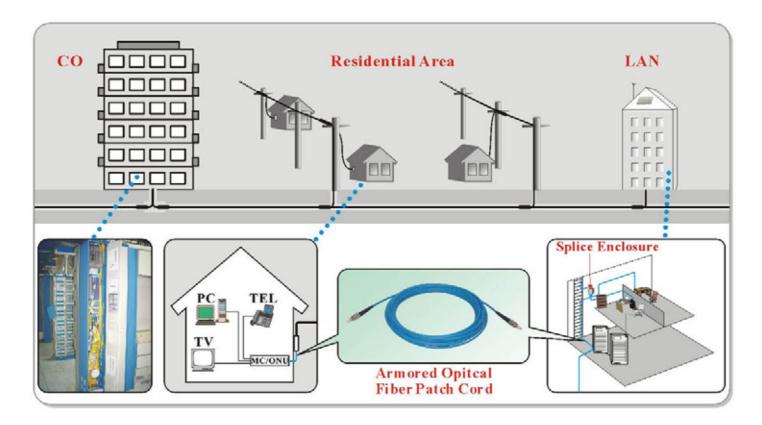


#### Micro Armored FO Cable Series—Simplex Armored FO Patch Cord

- Characteristics:
- OProtected by mini diameter stainless tube
- Avoid improper twisting
- O High tensile resistance and presure resistance
- Electric cable-like handling and easy to install, adapt to any harsh condition.
- Needn't worry about the destroy by outside force
- Reduce the maint enance cost







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#### Compared with the Traditional FO Patch Cord





- The Tradtional FO Patch Cord needs additional protection from cornigate tube which occupies more space and limits the possibility of extending The Armored FO Patch Cord can be deployed directly without additional protection, and have high performance of tensile, pressure resistance. Most suitable for using in harsh environment
- The remaining length of traditional FO patch cord can noly be put inside the ODF which makes the ODF full and disorder, delay the efficiency of dispatching and allotting FO patch cord under a emergency

The armored FO patch cord can be put outside the ODF and on the rack directly, easy to handle and expand



#### Recommended Application

- Communication Office
- FTTH
- LAN
- Test Equipment
- National Defence
- Measure Equipment
- Optical Sensor
- Optical fiber Communication
- CATV
- PON Component and Equipment





JE-1-FC-1-FC-S1-33-B

#### Specification:

	Single Mode		
	PC	UPC	APC
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB	≥65dB
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C		c
O.D.	ф3.3mm, ф3.0mm		



JE-1-FC-1-LC-S1-25-B

Specification:

-	Single Mode		
	PC	UPC	APC
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB	≥65dB
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C		c
O.D.		φ2.5mm	



JE-1-FC-1-MU-S1-25-B

Specification:

t:	Single Mode		
	PC	UPC	APC
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB	≥65dB
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C		c
O.D.	φ2.5mm		



JE-1-FC-1-SC-S1-33-B

Specification:

	Single Mode		
	PC	UPC	APC
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB	≥65dB
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C		С
O.D.	Ф3.3	mm, ф3	.0mm



JE-1-FC-1-ST-S1-33-B

#### Specification:

	Single Mode		
	PC	UPC	APC
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB	≥65dB
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C		
O.D.	ф3.3mm, ф3.0mm		.0mm



JE-1-SC-1-SC-S1-33-B

Specificat			
	S	Single Mode	
	PC	UPC	APC
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB	≥65dB
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C		
O.D.	ф3.3mm, ф3.0mm		.0mm

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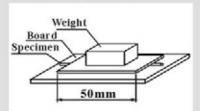


The remain length can be wrapped into a reel and put on the ODF, which make the inside of ODF more orderly



Applied in the CO

The armored members Protect the fiber from destruction of improper handling and adap to the harsh environment



Туре	Weight Load	Testing Result
Traditional	10kg	10The fiber break out
Armored	300kg	Deforming Rate of Armored Tube >50% FO is still working





JE-1-SC-1-ST-S1-33-B

#### Specification:

	Single Mode		
	PC	UPC	APC
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB	≥65dB
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C		
O.D.	ф3.3mm, ф3.0mm		



JE-1-SC-1-LC-S1-25-B

Specification:

	Single Mode	
1	PC	UPC
Insert Loss	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB
Repeatability	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C	
O.D.	Ф2.5mm	



JE-1-SC-1-MU-S1-25-B

Specification:

	Single Mode	
	PC	UPC
Insert Loss	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB
Repeatability	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C	
O.D.	ф2.5mm	



JE-1-ST-1-ST-S1-33-B

Specification:

	Single Mode		
	PC	UPC	APC
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB	≥65dB
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C		C
O.D.	Ф3.3	mm, ф3.	.0mm



JE-1-ST-1-LC-S1-25-B

Specification:

	Single Mode	
	PC	UPC
Insert Loss	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB
Repeatability	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C	
O.D.	φ2.5mm	



JE-1-ST-1-MU-S1-25-B

	Single Mode	
	PC	UPC
Insert Loss	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB
Repeatability	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~	+85°C
O.D.	Ф2.	5mm

# YOUR DEMAND IS THE START OF OUR SERVICE!



Resist improper twisting



Strong performance of pressure resistance



The armored FO patch cord secures transmission power, avoid extra attenuation due to over tie



Tie 12 Fibers to	Atten befor	uation tie up
a bundle	Traditional	Armored
ID of tied belt: 1 lmm	0.07dB	0.07dB

Tie 12 Fibers to	Atten after t	
a bundle	Traditional	Armored
ID of tied belt: 1 lmm	0.58dB	0.07dB

Tie 12 Fibers to a bundle	Variation of attenuation	
	Traditional	Armored
ID of tied	>0.5dB	<0.01dB



JE-1-LC-1-LC-S1-25-B

# Specification:

	Single Mode	
	PC	UPC
Insert Loss	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB
Repeatability	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~+85°C	
O.D.	Ф2.	5mm



JE-1-LC-1-MU-S1-25-B

#### Specification:

	Single Mode	
	PC	UPC
Insert Loss	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB
Repeatability	≤0.1dB	≤0.1dB
Operating Temperature	-40℃-	-+85°C
O.D.	Ф2	5mm



JE-1-MU-1-MU-S1-25-B

#### Specification:

	Single Mode	
	PC	UPC
Insert Loss	≤0.2dB	≤0.2dB
Return Loss	≥45dB	≥55dB
Repeatability	≤0.1dB	≤0.1dB
Operating Temperature	-40°C~	-+85°C
O.D.	Ф2.:	5mm



JE-1-MTRJ-1-MTRJ/M-S1-33-B

	Single Mode
Insert Loss	≤0.75dB
Return Loss	≥35dB
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	ф3.3mm



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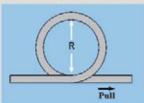


High tensil resistance



Gentle and flexible

The armored members Protect the fiber from destruction of of improper handling and adapt to the harsh environment



Bending Radius	Attenuation b	efor bending
(R)	Traditional	Armored
30mm	0.07dB	0.07dB
25mm	0.07dB	0.07dB

Bending Radius	Attenuation :	afterbending
(R)	Traditional	Armored
30mm	0.07dB	0.07dB
25mm	0.27dB	0.25dB

Bending Radius	Variation of	att enu ation
(R)	Traditional	Armored
30mm	0dB	0dB
25mm	0.2dB	0.18dB





JE-1-FC-1-FC-G2-33-G



# Operating Temperature O.D. Specification:

Specification:

Insert Loss

Return Loss Repeatability



JE-1-FC-1-SC-G2-33-G

	Multi-mode	
Insert Loss	≤0.3dB	
Return Loss		
Repeatability	≤0.1dB	
Operating Temperature	-40℃~+85℃	
O.D.	ф3 3mm, ф3 0mm	

Multi-mode

≤0.3dB

≤0.1dB

-40°C~+85°C

ф3.3mm, ф3.0mm



JE-1-FC-1-ST-G2-33-G

#### Specification:

Multi-mode	
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	ф3.3mm, ф3.0mm



JE-1-FC-1-LC-G2-25-G

#### Specification:

	Multi-mode	
Insert Loss	≤0.3dB	
Return Loss		
Repeatability	≤0.1dB	
Operating Temperature	-40℃~+85℃	
O.D.	ф2.5mm	



JE-1-FC-1-MU-G2-25-G

#### Specification:

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	Φ2.5mm



JE-1-SC-1-SC-G2-33-G

	Multi-mode	
Insert Loss	≤0.3dB	
Return Loss		
Repeatability	≤0.1dB	
Operating Temperature	-40°C~+85°C	
O.D.	ф3.3mm, ф3.0mm	

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Prevent Mouse Bite



Anti Trample



The armored member protect the fiber from destrying by improper handl -ing and suitable for using in harsh enviroment



Туре	Weight Load	Result
Traditional	10kg	Optical fiber break out
Armored	20kg	Optical fiber break out
Specime Tensile v		







JE-1-SC-1-LC-G2-25-G

O.D. Specification.

Specification:

Insert Loss Return Loss Repeatability

Operating Temperature

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40℃~+85℃
O.D.	φ2.5mm

Multi-mode ≤0.3dB

≤0.1dB

-40°C~+85°C

ф3.3mm, ф3.0mm

Multi-mode

≤0.3dB

≤0.1dB

-40°C~+85°C

ф 2.5mm



JE-1-SC-1-MU-G2-25-G



Specification:

Specification:

Insert Loss

Return Loss Repeatability

Operating Temperature

O.D.

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40℃~+85℃
O.D.	ф3.3mm, ф3.0mm



JE-1-ST-1-ST-G2-33-G



JE-1-ST-1-LC-G2-25-G



JE-1-ST-1-MU-G2-25-G

#### Specification:

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	φ2.5mm

- 1	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	φ2.5mm

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Good moisture proof performance



Very good applicability and deploying easily

The armored member protect the fiber from destrying by improper handl -ing and suitable for using in harsh enviroment

Excelent Twistresistant Performance



Specimen length: 1M, fixing one	Befort	wisting
end and hang a weight of 2kg on the other end.	Traditional	Armored
Twisting for 2.5 circle	0.07dB	0.07dB
Specimen length: 1M, fixing one end and hang a weight of 2kg on the other end.	After twisting	
	Traditional	Armored

Twisting for 2.5 circle	0.18dB	0.11dB
Specimen length: 1M, fixing one end and hang a weight of 2kg on the other end.	Variation of atternuation	
	Traditional	Armored
Twisting for 2.5 circle	>0.1dB	<0.05dB





JE-1-LC-1-LC-G2-25-G



# Specification:

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	φ 2.5mm



JE-1-LC-1-MU-G2-25-G

#### Specification:

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	φ 2.5mm



JE-1-MU-1-MU-G2-25-G

#### Specification:

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40℃~+85℃
O.D.	φ2.5mm



JE-1-MTRJ-1-MTRJ/M-G2-33-G

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40℃~+85℃
O.D.	ф3.3mm



The Armored Duplex-cores FO Patch Cord can be deployed in the CO without additional protect, satisfies the outdoor environment, which saves much space, low down the cost of deployment, improve the reliability and the the PO network and make the maintenance more convenient.

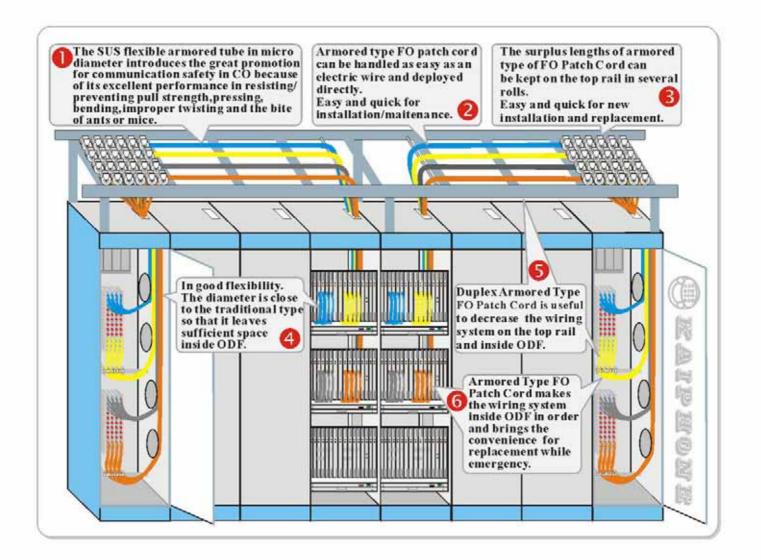


#### Mini Armored OF Cable Series - Armored Duplex-cores Patch Cord

#### Features:

- Deply easily and reduce the cost of wiring, improve the inside situation of the ODF
- The fibers are protected by the stainless steel flexible with mini diameter
- Stronge tesile, pressure and twist resistance
- Deploy more easily and no need to worry about the destruction of OF from wiring and maintaining, avoid improper operation and satisfied for the outdoor environment
- Low attenuation makes sure the quality of transmittion of signal
- The cables in the CO became more orderly extending and replacing become easily, reduce the cost of remaintance





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#### Features

- Mini diameter stainless steel flexible tube as safegard
- Hight tensile and pressure resistance, avoid mouse bit
- No need to worry about the destruction from deployment and maintance, wire more easily
- Low attenuatino makes sure the Quality of transmittion
- Capable for rough envirnmen and improper operation
- Make the cable more regular in the ODF, extending and Replacing become more con-Venient and save the cost of Wiring and maintaining

#### Application

- Communication Office
- FTTH
- O LAN
- Test Equipment
- National Defence
- Measure Equipment
- OF sensor
- FO communication system
- O CATV
- PON component and Equipment



JE-2-SC-2-SC-S1-33-B

#### Specification:

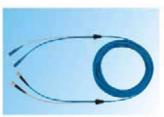
	Single Mode			
	PC	UPC	APC	
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB	
Return Loss	≥45dB	≥55dB	≥65dB	
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB	
Operating Temperature	-40°C~+85°C			
O.D.	Ф3.3mm			



JE-2-FC-2-FC-S1-33-B

Specification:

	Single Mode			
	PC	UPC	APC	
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB	
Return Loss	≥45dB	≥55dB	≥65dB	
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB	
Operating Temperature	-40°C~+85°C			
O.D.	Ф3.3mm			



JE-2-SC-2-FC-S1-33-B

#### Specification:

	Single Mode			
	PC	UPC	APC	
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB	
Return Loss	≥45dB	≥55dB	≥65dB	
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB	
Operating Temperature	-40°C~+85°C			
O.D.	φ3.3mm			



JE-2-SC-2-SC-G2-33-G

#### Specification:

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	ф3.3mm



JE-2-FC-2-FC-G2-33-G

#### Specification:

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	ф3.3mm



JE-2-SC-2-FC-G2-33-G

	Multi-mode
Insert Loss	≤0.3dB
Return Loss	
Repeatability	≤0.1dB
Operating Temperature	-40°C~+85°C
O.D.	ф3.3mm



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#### Features

- Macro diameter stainless steel flexible tube as safegard
- Hight tensile and pressure resistance, avoid mouse bit
- No need to worry about the destruction from deployment and maintance, wire more easily
- Low attenuatino makes sure the quality of transmittion
- Capable for rough envirnmen and improper operation
- Make the cable more regular in the ODF, extending and replacing become more convenient and save the cost of wiring and maintaining

#### Application

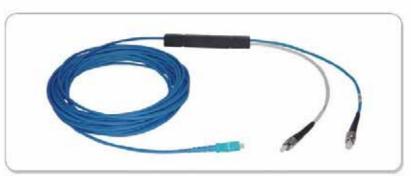
- Low insert loss
- Low additional Loss
- Well uniformity
- O Low PDL
- High stability and reliability

#### Application

- Communication Office
- FTTH
- O LAN
- Test Equipment
- FO communication system
- CATV

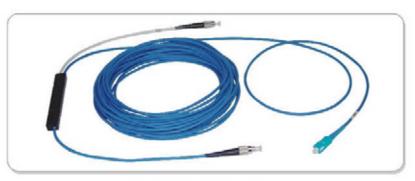


Armored Optical Fiber couplers are mainly applied to split and control optical signasl, and have the features of low lass and well uniformity, high stability and reliability. Widely used in FO communication, CATV, LAN, etc.

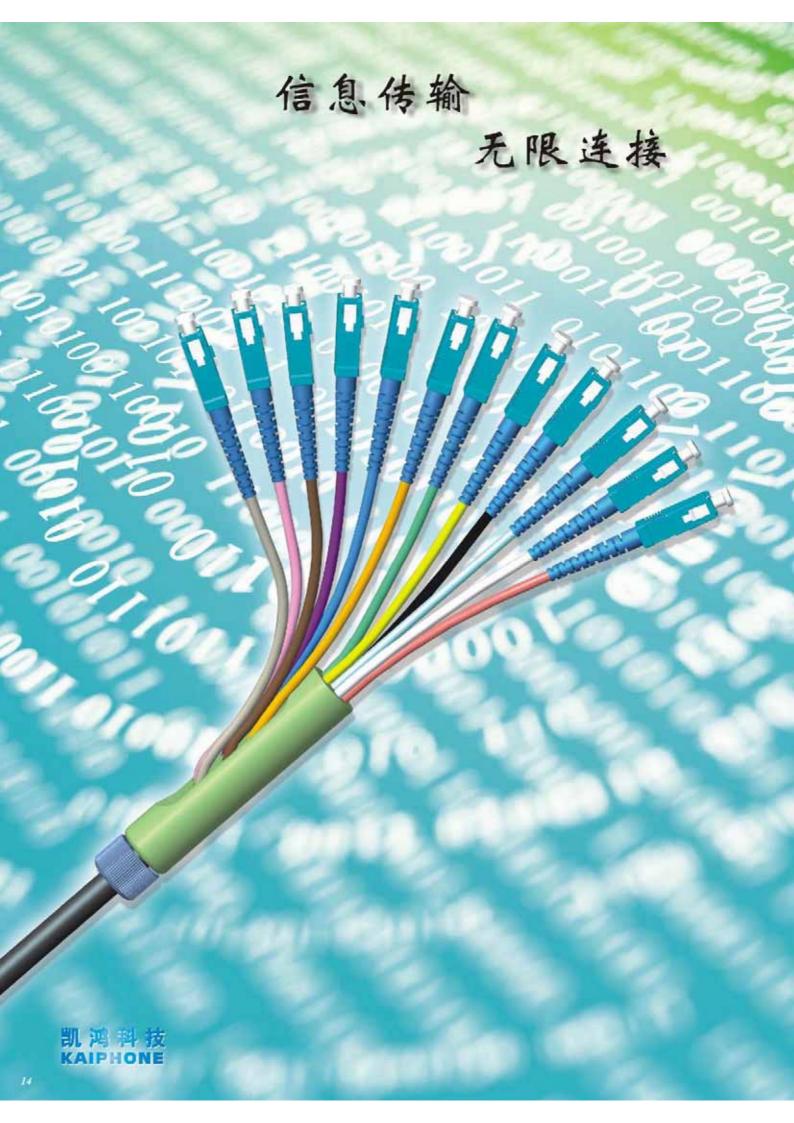


JE-1-SC-2-FC-S1-P-33-B

Item	Grade	P	A
Operating '	Wavelength (nm)	1310, 155	50 or Other
Operating	Waveband (nm)	±	20
Additi	on Loss(dB)	≤0.1	≤0.15
	50/50	≤3.6	≤3.8
Insert Loss	40(White)/60(Blue)	≤4.6/2.8	≤4.8/3.0
(dB)	20(White)/80(Blue)	≤7.7/1.4	≤7.9/1.5
	10(White)/90(Blue)	≤11/0.8	≤11.7/1.0
PDL (dB)		≤0.10	≤0.15
Directivity (dB)		≥55	
Operating Temperature		-40℃~+85℃	
Fiber Length		To any specified length	



JE-2-FC-1-SC-S1-P-33-B

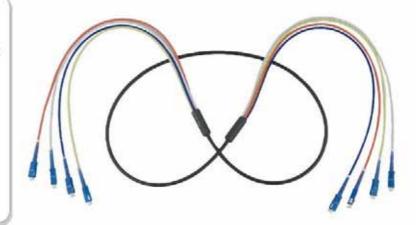




#### Mini Armored FO Cable Series—Armored Dispatching FO Patch Cord

#### Features

- Protected by stainless steel flexible tube, prevent high pull strength, pressing, twist and mouce bite
- Electric calbe-like handling and easy to install, adapt to any harsh condition
- The PVC coating is optional with 12 standard colors(IEC 6030) for easy indentification
- The connectors are optional with FC/SC/ ST/MU/L C which are compatible with international standard



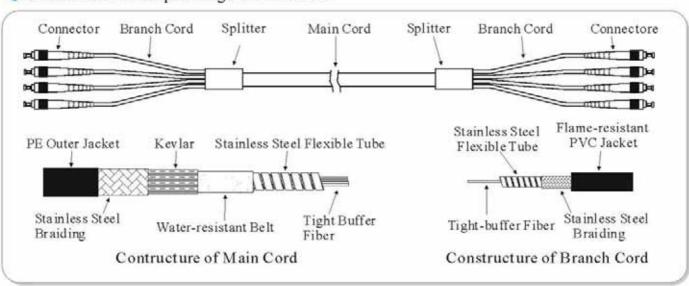
#### The Constructure of the Main Cable of the Patch Cord

4-12 cores φ 0.6 colored tight buffer fibers (Optional with Single-mode, Multi-mode <50/125,62.5/125>,OM2, Om3,G.655)+Stainless steel flexible tube +water-resisitant belt +Kev lar+Stainless steel braiding +Outer Jacket (Optional with various materials)

#### Constructure of the Dispatching Patch Cord

- 1. Main cable +Splitter+Breakout subcable ( φ2.5. φ3.3 Armored type<Tensile-resistant:300N>) + Connectors
- 2, Main cable+Splitter+Breakout subcable ( φ3.0 PVC Jacket <Tensile-resistance:100N>) +Connectors
- 3. Main cable + Splitter + Breakout subcable (φ0.6 Tight-buffer fiber < Tensile resistance: 15N>) + Connectoers

#### Constructure of Dispatching FO Patch Cord

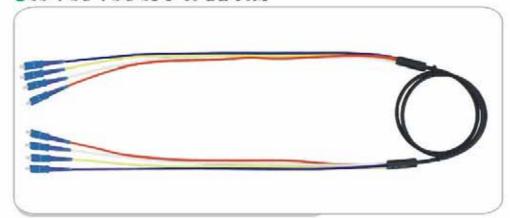


## SAVE COST OF LONG DISTANCE TRANSMITION

#### Features

- High strength and weight ratio design, compact construcure make wiring more easily and save more space
- The PE outer jacket and waterresistant belt prevent the fiber from water and humidity, ensure the reliability of transmittion

#### 



Fiber Type		Single Mode			Multi-mode
F100	Type	PC UPC		APC	PC
Core	Count		4, 6, 1	3, 12	
Connec	ctor Type		SC/FC/ST/L	C/MU/MT-R.	J
Inste	rt Loss	≤0.2dB	≤0.2dB	≤0.2dB	≤0.3dB
Retur	rnLoss	≥45dB	≥50dB	≥60dB	
Repea	tability	≤0.1dB			
Vibr	atility	≤0.2dB			
Interco	nvertity	≤0.2dB			
Pressure l	Resisitance		≤30	00kg	
Operating	Temperature	-40°C~+85°C			
Tensile	Branch Cord		15kg 100kg		
Resistance	Maid Cord				
Outer	Branch Cord	$2.5/3.3$ mm $\pm 0.1$ ms		1±0.1mm	
Dia.	Main Cord	6.0/6.9mm±0.1mm			
Cable	Length	Custom length available upon request		equest	





#### SAVE SPACE IN THE ODF

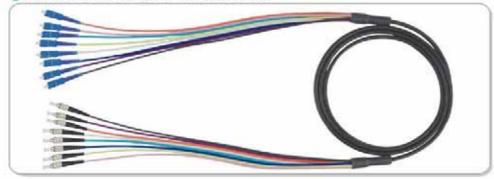
#### Application

- Connecting between multi-cores
   with one assemble in the ODF
- 2. Satisfy for wiring in building
- 3. Widly use in communicatin between floors in emergency
- Most suitable for the transmition in the last 100-meter of FTTH

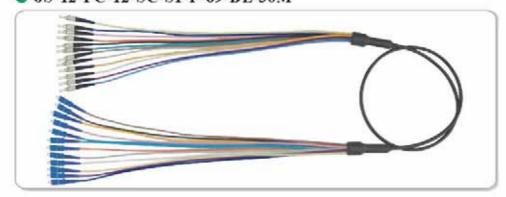
#### JS-6-FC-6-FC-S1-P-60-BL-30M

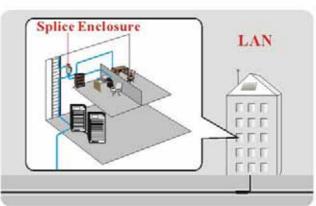


#### JS-8-FC-8-SC-S1-P-69-BL-30M



#### JS-12-FC-12-SC-S1-P-69-BL-30M





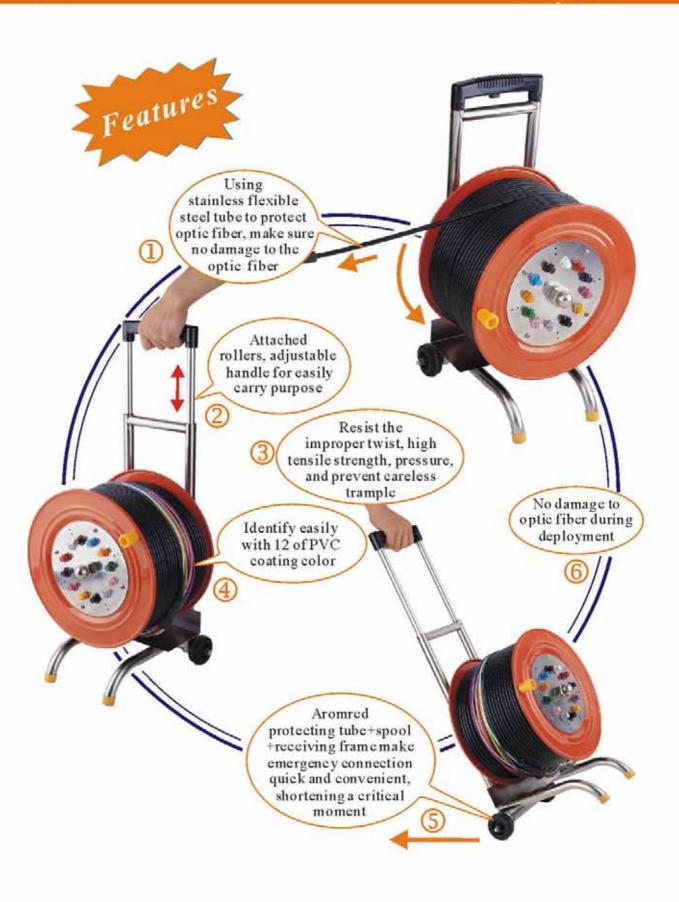


# LIVE BROADCASTING ENGINEER OVERHAUL DISPATCHING IN CO CIRCUIT TEST



凯湾郭技 KAIDHONE





- Application
- · Live broad cast
- c Engineer overhaul
- oDispatching in CO
- · Circuit Test



300		
No.	Description of accessories	Count
1	Kevlar cutter	1suit
2	cable barker	1sult
3	Alcohol bottle with pump	1suit
4	FO no n-dust Paper	Isuit
5	Needle canister	5suits
6	Stor age box	Isuit
7	Swordfor opening cable	1suit
8	Adhesive plaster	Isuit
9	Sh eath striper	1suit
10	Steel wire diagonal pliers	1suit
11	Sharp nose pliers	1suit
12	FC nak ed-fiber a dapter	2 Osuits
13	Armored FO cutter	1suit



JS-12-FC-12-FC-S1-P-69-BL-120M



JS-4-FC-4-FC-S1-P-60-BL-120M

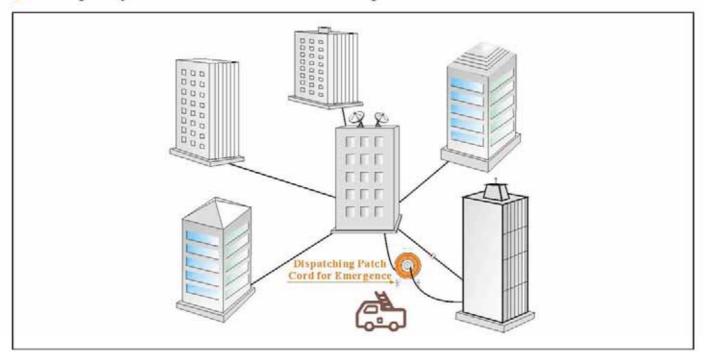




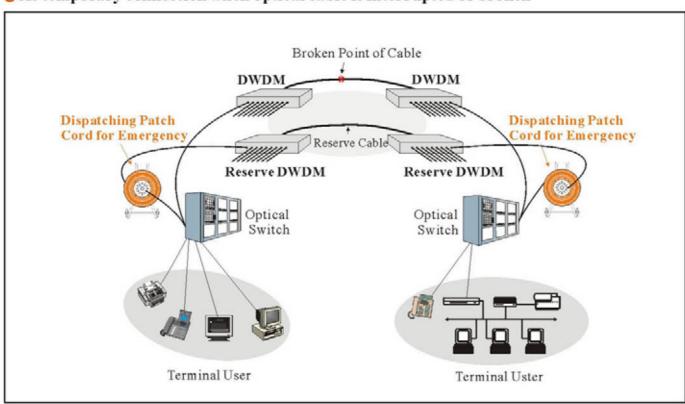
JS-6-SC-6-SC-S1-P-60-BL-60M

Fiber Type			Single Mode	9	Multi-mode		
Fibe	rtype	PC	UPC	APC	PC		
Core	Count		4, 6, 5	8, 12			
Connec	ctor Type		SC/FC/ST/LC	C/MU/MT-R	J		
Inste	rt Loss	≤0.2dB	≤0.2dB	≤0.2dB	≤0.3dB		
Retu	rn Loss	≥45dB	≥50dB	≥60dB			
Repea	tability		≤0.	1dB			
Vibr	atility	≤0.2dB					
Interconvertity		≤0.2dB					
Pressure	Resisitance	≤300kg					
Operating	Temperature	-40°C~+85°C					
Tensile	Branch Cord	15kg					
Resistance	Maid Cord	100kg					
Outer	Branch Cord	2.5/3.3mm±0.1mm					
Dia.	Main Cord	6.0/6.9mm±0.1mm					
Dimension		330(L)×290(W)×520(H)					
Cable Length		Custom length available upon request					

#### As temporary connection when LAN is interrupted or broken



#### As temporary connection when optical cable is interrupted or broken



- Application
- · Live broadcast
- o Engineer overhaul
- oDispatching in CO
- · Circuit Test



JS-4-FC-4-FC-S1-P-60-BL-60M



JS-12-FC-12-FC-S1-P-69-BL-30M



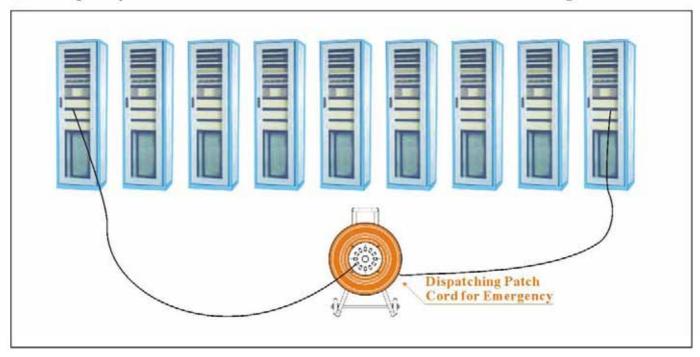
JS-4-FC-4-FC-S1-P-60-BL-30M



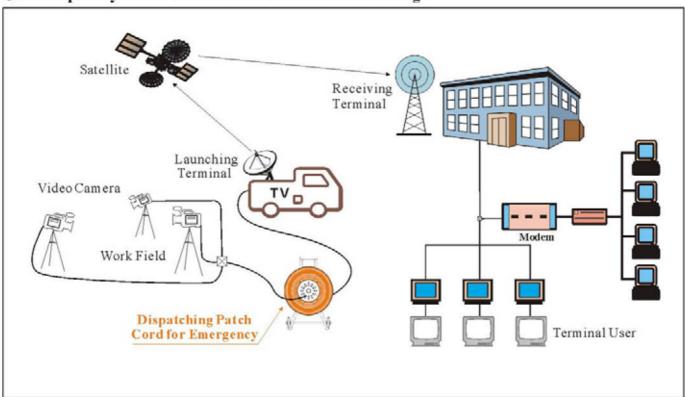
JS-4-FC-4-FC-S1-P-60-BL-120M

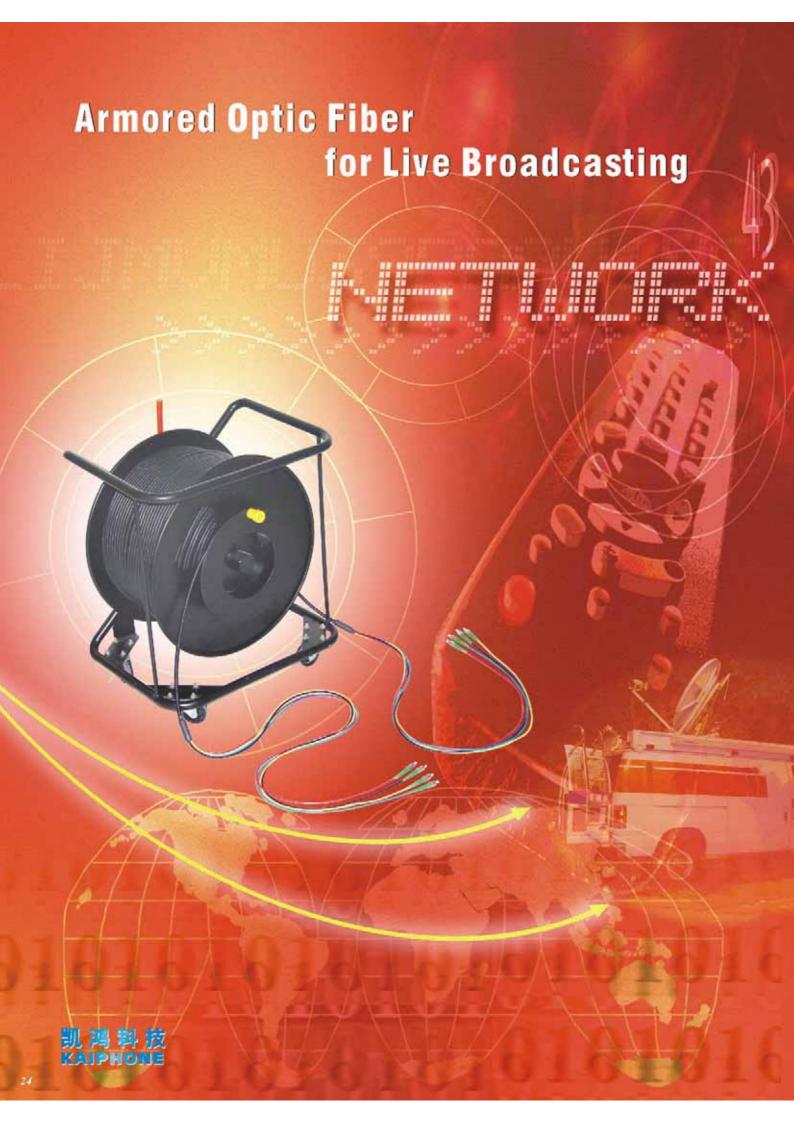
Fiber Type			Single Mode	9	Multi-mode		
Fibe	rtype	PC	UPC	APC	PC		
Core	Count		4, 6, 5	8, 12			
Connec	ctor Type		SC/FC/ST/LC	C/MU/MT-R	J		
Inste	rt Loss	≤0.2dB	≤0.2dB	≤0.2dB	≤0.3dB		
Retu	rn Loss	≥45dB	≥50dB	≥60dB			
Repea	tability		≤0.	1dB			
Vibr	atility	≤0.2dB					
Interconvertity		≤0.2dB					
Pressure	Resisitance	≤300kg					
Operating	Temperature	-40°C~+85°C					
Tensile	Branch Cord	15kg					
Resistance	Maid Cord	100kg					
Outer	Branch Cord	2.5/3.3mm±0.1mm					
Dia.	Main Cord	6.0/6.9mm±0.1mm					
Dimension		330(L)×290(W)×520(H)					
Cable Length		Custom length available upon request					

#### OAs temporary connection of switches from two remote ends in the building



#### OAs temporary connection for outside live broad casting





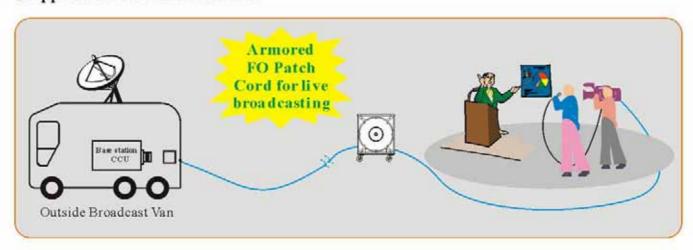
#### Feature



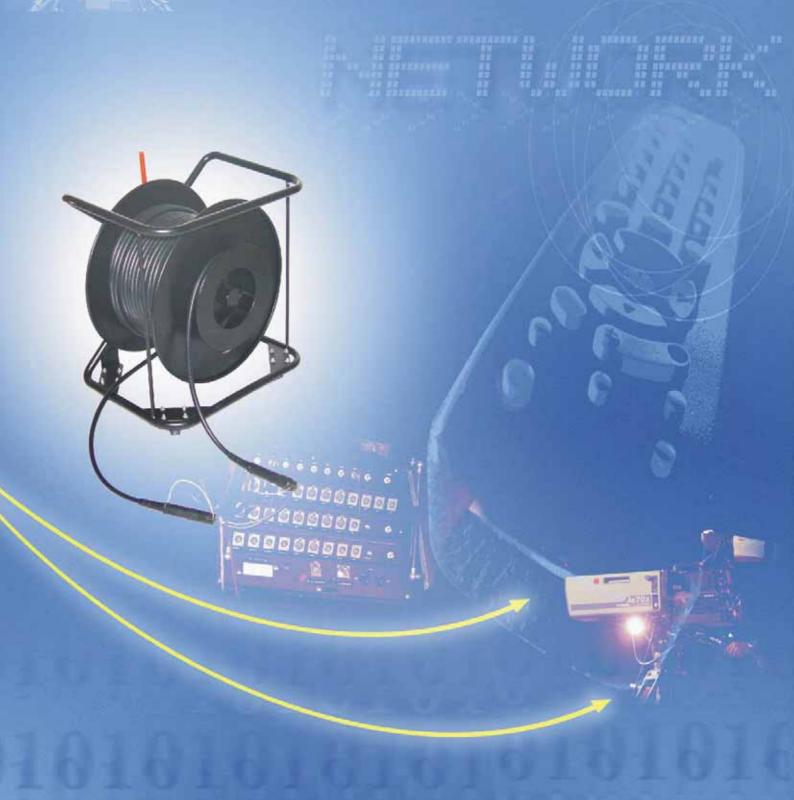
#### Specification

Core Count	1,4,6,8,12							
Connectore Type		SC/FC (To any specified type)						
Fiber Type		Single Mode						
Polish Method	PC	UPC	APC	PC				
Insert Loss	≤0.2dB	≤0.2dB	≤0.2dB	≤0.3dB				
Return Loss	≥45dB	≥55dB	≥65dB					
Repeatability	≤0.1dB	≤0.1dB	≤0.1dB	≤0.1dB				
Operating Temperature	-40°C+85°C							
Tensile Resistance	Main Cord	Cord 15kg						
Tensile Resistance	Branch Cord	100kg						
Augustion and a second	Main Cord	Cord 2.5/3.3mm±0.1mm						
Outer Diameter	Branch Cord 6.0/6.9mm ±0.1mm							
Dimension	460(L)×340(W)×520(H)mm							
Length	30/60/120m(Custom length available upon request)							

#### OApplication-Outdoor Interview



# HDTV Vedio Camera Connection Set



#### Feature

- ♦ Using stainless steel flexible tube to protect optic fiber, ensure no damage to optic fiber and wires
- ♦ Resist the improper twist, high tensile strength, pressure and wearable
- Strong receiving frame+spool+attached rollers make installation quick and convenient, make sure working safety and construction efficiency



#### Specification

#### Dispatching Patch Cord

Component	Item	Content
Optica	l fiber count	2 purchase
Power Core	Conductor	Tinned copper wire (21 pcs/0.18mm)
1 OWEL COIL	Nominal thickness of HDPE insulation	Standard: 0.4mm
Control	Conductor	Tinned copper wire (7pcs/0.18mm)
Core	Nominal thickness of HDPE insulation	Standard: 0.3mm
Tensi	on Member	Galvanized steel wire with HDPE insulation, outerdiameter 2.0mm
Cabl	e assembly	Power Core Optic Fiber Control Core
Ou	ter jacket	Anti-abrasive plastic sheath
Appro. C	veral Diameter	Standard: 11.5±0.2mm

#### Mechanical Characteristics

Ì	Item	Specicication
1	Max Allowed Tensile Strength	Standard: 200kgf
	Allowed Bending Radius	More than 6 times of outer diameter

Dimension of Shape:360(L)×340(W)×520(H)mm

#### Optic Fiber

Item	Specification		
Fiber tpye	Sigle mode slilca optic fiber		
Model-field diameter	9.5±1 μ m		
Cladding diameter	125±3 μ m		
Offset	Less than 1 µ m		
Cut-off wavelength	1.10~1.35 µ m		
Tight buffer diameter	0.9±0.1mm		
Attenuation	$\leq 0.5 dB/km (1.3 \mu m)$		

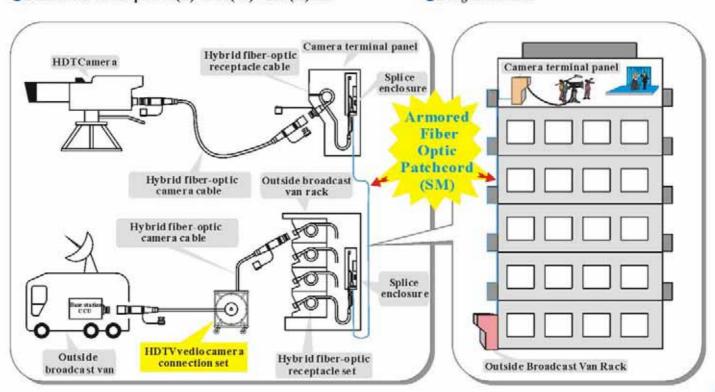
OPower Core

Item	Specification		
Conductor Resistance	37.5Ω/km		
Insulation Resistance	10.000M Ω.km		
Voltage	AC.1KV/1min		

Control Wire

Specification		
113 Ω /km		
10.000M Ω.km		
AC.1KV/1min		

CLength:100mm



# Mini Armored FO Cable with High Mechanical and Transmission Performance Can Be Widly Used in the CATV,



#### Constructure

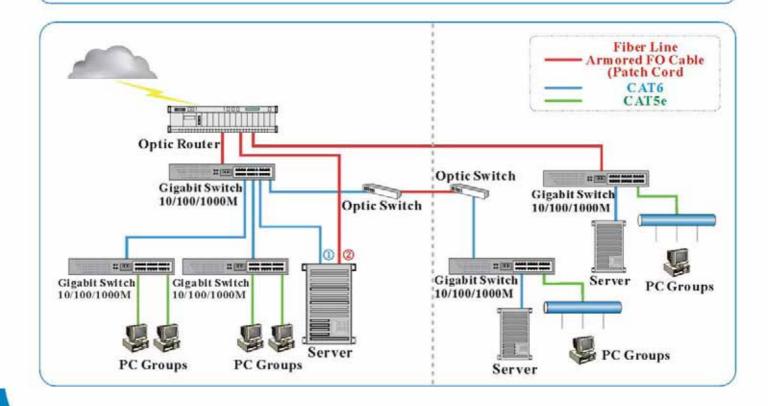
- Kavlar strengen member enhance the tensile resisitance of the cable.
- Normal diameter ensure the cable to be compatible with various types of connecto and equipment
- Flame-retarden, environmental material outer jacket make the cable light-weight
- \$\phi\$ 0.6 tight-buffer fiber (optional with single-mode, multi-mode, Om2, OM3, G.655) + Kevlar+stainless steel flexible tube+stainless steel braiding+outer jacket (various kinds of material are optional)

#### Specification

Fiber count	O. (m	2007		Min bending radius(mm)	nding Tensile Pressure (mm) resistance (N) (N/50mm		Operating temp.(°C)	April 200 September 1990 September 1	
1	2.8 3.3		25	30	300	3000	-40°C~+85°C		
2	2 3.		25	30	300	3000	-40°C~+85°C	UL and environmental Material	

#### Application

- Suitable for deploying directly along wall, ceiling, interlayer and tube. compatible with various normal
  connector, equipment
- 2. Idea for high density cabling system in build ing, between floors, trunking and LAN and multi-connection field
- 3. suitable for indoor and outdoor use, act as intra-building backbone
- 4. Small minimum bend radius, used for bulky, muti-users' indoor installation and unit installation
- 5. Connect the backbone network and building directly, isolate the thunder, enhance the reliability



# Building Intelligent Monitor System, Power Station Monitor System, Traffic Communication System, LAN, etc.

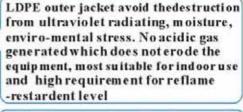


#### Feature

Kavlar as sa a strengen member inprove the tensile resistanceof the cable, make the cable more flexible, depoyment easily

Protected by stainless steel flexible tube, prevent the fiber from mechanical destuction

Fiber count can be specified from 2 to 12 by the customer



The water-resistant belt prevent the fiber from erode by water or moisture, which improve the reliabilty of the cable

The stainless steel flexible make the cable more gentle and flexible

#### Machanical Character

Fiber Count	Outer Diameter (mm)		Cable Weight(kg/km) Max		Max Tensile	Load (N)	Minimum Bending Radius (mm)	
	Inter-locked	Spring	Inter-locked	Spring	Short Term	Long Term	Short term	Long Term
4	7.7	6.0	81	54	1200	800		12 times of the outer diameter
6	7.7	6.0	81	54	1200	800	8 times of the	
8	7.7	6.9	81	58	1200	800	outer diameter	
12	8.6	6.9	91	67	1200	800	2000000000000	

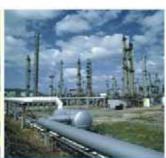
#### Application

- 1. Ideal for high density cabling system in building, trunking and LAN distribution
- 2. Suitable for indoor and outdoor use, act as intra-building backbone
- 3. Ideal for direct terminated with various types of connector and equipment
- 4. Small minimum bend radius, used for bulky, multi users indoor installation and unit installation
- 5. Connect the backbone network and building directly, isolate thunder, enhance the reliability













# http://www.kaiphonefiber.com

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