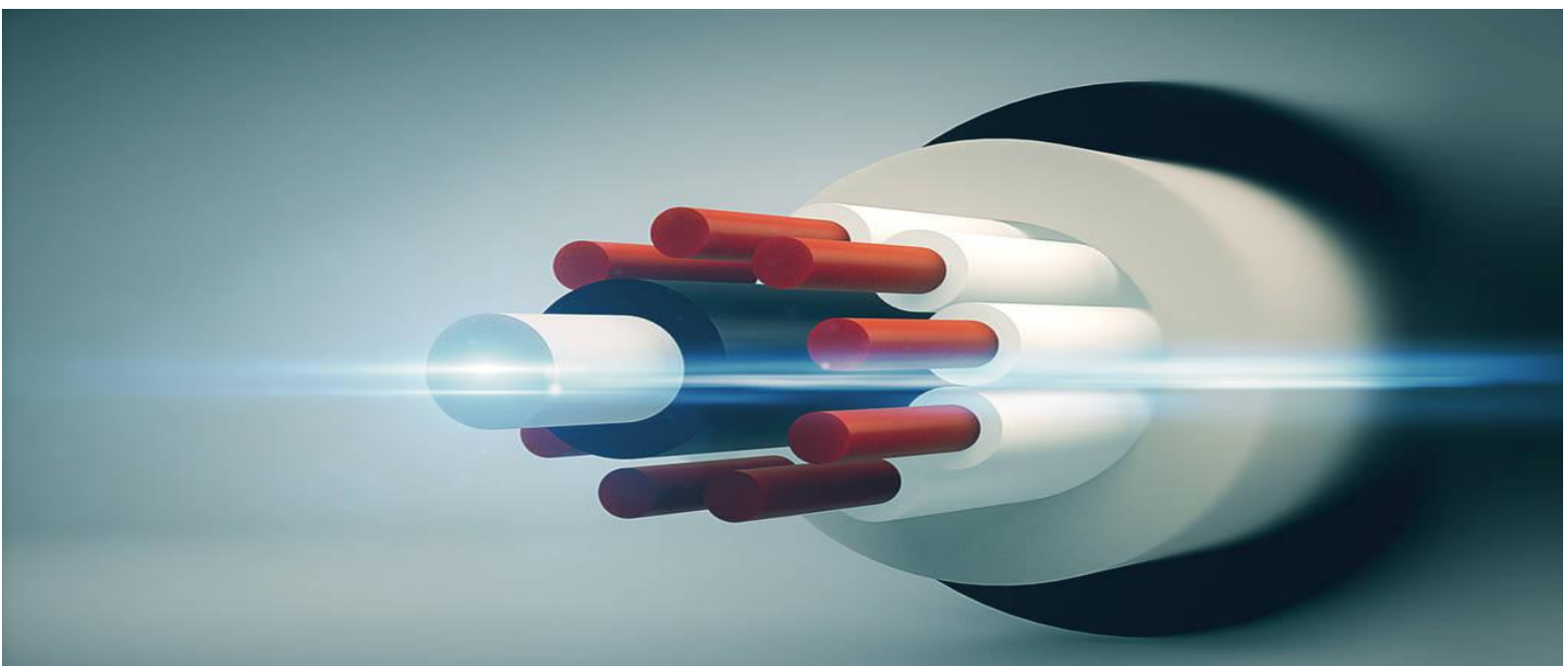
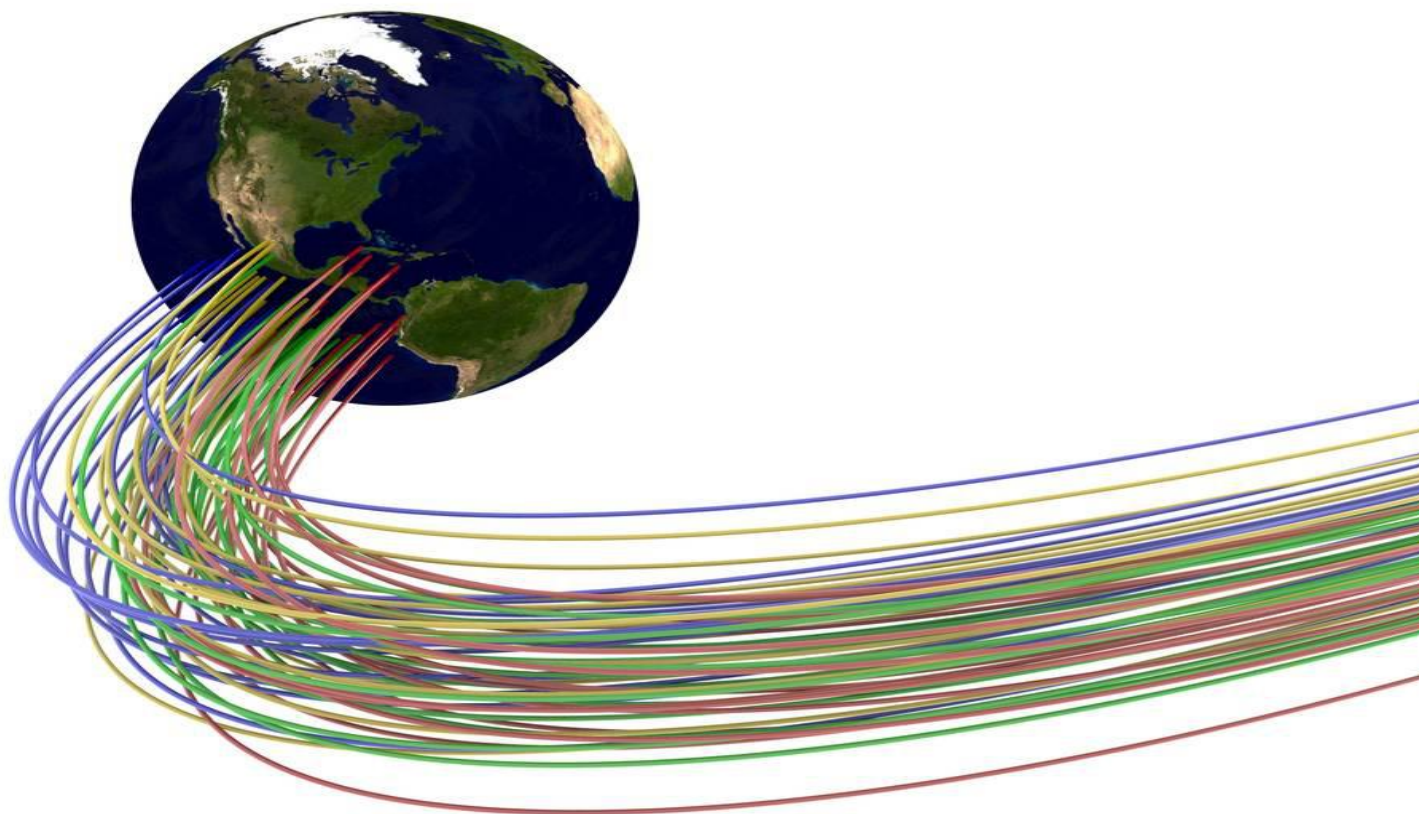


精业·卓越  
Conscientiousness & Excellence



鸿鑫光缆科技

HX FIBER TECHNOLOGY



东莞市鸿鑫光缆科技有限公司

DONGGUAN HX FIBER TECHNOLOGY CO., LTD

2018年第三版 (V03-2018)

## 公司简介 Brief Introduction to HX

东莞市鸿鑫光缆科技有限公司(以下简称鸿鑫光缆)成立于2008年,位于东莞市塘厦镇三局高丽工业区3路2号。是国家认可的高新技术企业,集铠装全系列通信光缆、铠装光缆、感测光缆、野战光缆,矿用光缆及相关配套产品的研发、生产、销售于一体的综合性多元化公司。在生产中的每个环节,我们都会进行品质检验,以确保出厂的光缆100%符合优质标准,我们的产品也皆通过ISO 9001, UL等相关认证。和我司合作过的客户有:美国安费诺、罗森伯格、湖北烽火、江苏中天、珠海汉胜、特发、长飞等。

鸿鑫光缆提供大量的无源光纤和有源光纤。其中有源光纤包括变换器、光纤放大器、以太网无源光网络、千兆无源光网络等;无源光纤包括连接头、跳线、尾纤、适配器、PLC分路器、MPO/MTP,铠装光缆、室内外光缆。6条跳线生产线,2条PLC分路器生产线,5条光缆生产线;此外我们还为铠装光缆配备150多台铠装机器。

公司平均产量:每个月可以生产2百万的连接头;每天可装配5万的跳线和尾纤的终端器

我们拥有强大的技术和研发团队,拥有超过10年的生产经验,厂房面积8000-10000平方米,秉承着“专注产品,服务客户,诚信至上,质量保证,走向世界”的经营理念,在所有职员共同努力下,鸿鑫光缆在通讯行业已经成为极具竞争力的品牌。

Dongguan Hongxin Optical Cable Technology Co., Ltd. (hereinafter HX Fiber) was established in 2008, located in No. 2, 3rd Road, Gaoli Industrial Zone, Tangxia Town, Dongguan City, Guangdong Province, China. It is the earliest high-tech enterprise engaged in the production of optical cable in China. Since its establishment, it has always won high praise from users for its excellent quality, perfect service and leading technology. A high-tech enterprise which was recognized by government, The company is a comprehensive diversified company integrating the research and development, production and sales of all series of communication optical cables, armored optical cables, sensing optical cables, field optical cables, mining optical cables and related ancillary products. At every stage of production, HX Fiber will carry out quality inspection to ensure that 100% of the factory-made optical cable meets the high quality standards. Our product also certified by ISO 9001 and UL, HX Fiber have been working with Amphenol, Rosenberg, Fiberhome, ZTT, YOFC and so on.

HX Fiber provides a wide of fiber optic products with active ones and passive ones. The active ones include converter, fibre amplifier, E-PON, G-PON, etc. With our large capacity and high quality, our passive products include connectors, patch cords, pigtailed, adapters, PLC splitters, MPO/MTP, armored cables and indoor/outdoor cables. And our passive products are distinguished by our large capacity. We own 6 production lines for patch cord, 2 lines for PLC splitter and 5 cable production lines. Besides, we have over 150 armoring machines for armored cables. And our average capacity:

2 million connectors per month ;

50 thousand terminators for patch cord and pigtail per day.

We have a strong technical and R&D team with more than 10-year experience for production lines. We have 8000-10,000 square meters of manufacturing space. And we carry by “Product-oriented, Customer-centered, Honesty-first, Quality-assured and World-entered”. With the persistent efforts of our staffs, HX Fiber have become a competitive telecommunication brand.



ISO9001



### QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 04618Q10382R1S

We hereby certify that the organization: Dongguan Hongxin Optical Cable Technology Co., Ltd.

Unified social credit code: 91441900564576195L

is in conformity with Quality Management System Standard: GB/T19001-2016 / ISO9001:2015

The certificate is valid to the following product(s)/service: Production and Service of Optical Cable

Registration Address/ Physical Address: Building C, No. 2, Gaoji 3rd Road, Gaoji Industrial Zone, Tangxia Town, Dongguan City, Guangdong Province, P. R. China

Date of Issue: 2018-01-25  
Date of Expiry: 2021-01-24  
Date of Initial Issue: 2015-01-26



The effectiveness of the Certificate is subject to QR Code in the lower left corner. Meanwhile, you can search the website of certification body: www.hicchina.com.cn, or search the CNCA website: www.cnca.gov.cn.



### 质量管理体系认证证书

证书编号: 04618Q10382R1S

兹证明:

东莞市鸿鑫光缆科技有限公司

统一社会信用代码: 91441900564576195L

质量管理体系符合:

GB/T19001-2016 / ISO9001:2015 标准

证书覆盖范围:

光缆的生产与服务

注册地址/实际地址: 广东省东莞市塘厦镇高丽工业区高丽三路2号C栋

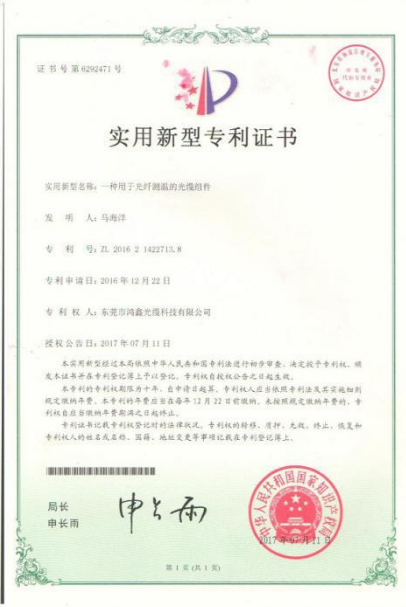
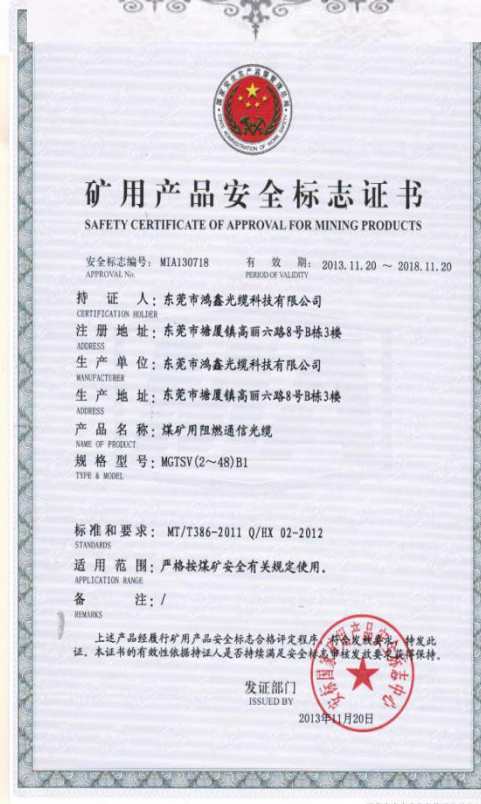
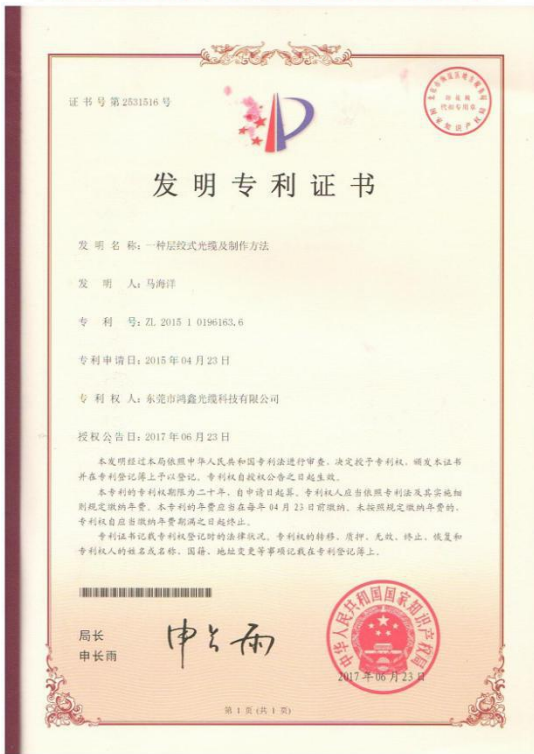
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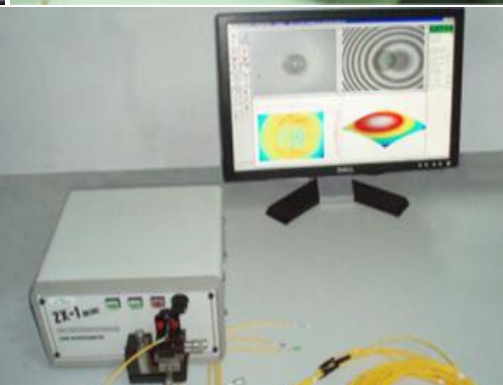
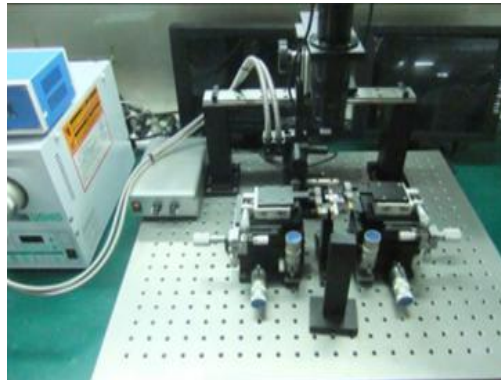
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中国·北京·朝阳区安立路15号B座101室 (100012)

# Certificates



# Factory



## Strategic Partners



**Amphenol**<sup>®</sup>  
Industrial

**FOXCONN**<sup>®</sup>  
富士康科技集团

**FiberHome**

**Rosenberger**

**YOFC** 长飞  
Delivering Signals Smartly

<sup>®</sup> **ZTT**  
中天科技

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## ➤ 简易型凯管 Simple armored tube

### ● 产品描述 Description

用不锈钢制造的软管，具有很强的柔韧性，而且在一定程度下弯曲不超过半径，强硬的拉扯也不能伸长，即使加上侧压，垂直压也非常坚固。利用这些特长，垂直压，撞击，焊接，反复弯曲，施加侧压等之后，脆弱的光纤和传感器也能得到可靠的保护。  
The tube made of stainless steel is very flexible, and it bends to a certain extent without exceeding the radius, and the strong pull cannot extend. Even with the side pressure, the vertical pressure is very strong. With these features, vertical pressure, impact, welding, repeated bending, side pressure, etc., the fragile fiber and sensor can also be reliably protected.

### ● 产品特点 Characteristics

1. 有良好的机械和环境性能。

Have good mechanical and environmental properties.

2. 满足标准的抗弯曲要求。

Meet the standard bending resistance requirements.

3. 提高被保护的产品的抗测压性能。

Improve the pressure resistance of the protected product.

4. 过盐雾测试

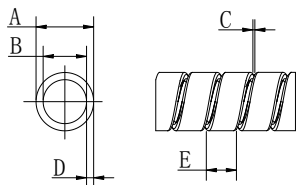
Pass the Salt Spray Test.



### ● 推荐用途 Application:

作为套管用于保护一次披覆光纤、紧套光纤等。

It is used as a buffer tube to protect the primary covering fiber, tight buffer fiber, etc.



### ● 主要参数 Main parameters:

项目 Item	内径 Inner Dia.(mm)	外径 Outer Dia.(mm)	壁厚 Thickness
0.8-1.2(mm)	0.8(mm)	1.2(mm)	0.2(mm)
2.2-2.8(mm)	2.2(mm)	2.8(mm)	0.3(mm)
3.1-3.8(mm)	3.1(mm)	3.8(mm)	0.35(mm)
4.9-5.7(mm)	4.9(mm)	5.7(mm)	0.4(mm)
温度性能 Operation temperature(°C)	-40°C ~ +85°C		
弯曲半径(mm) Bending radius	动态 Dynamic 20 倍 OD 静态 Static 10 倍 OD		
抗压强度(N/100mm) Tensile resistance	长期 1000 短期 3000		
铠管材质 Material	不锈钢 SUS		
铠管颜色 colour	银色 silver		

## ➤ 单芯铠装光缆 Simplex Armored Fiber Optic Cable

### ● 产品描述 Description

铠装单芯光缆适用于单模光纤和多模光纤(50 μm 和 62.5 μm)，由紧包光纤(0.6/0.9)、不锈钢螺旋管、芳纶、外护套组成；护套材质有：PVC,LSZH,PU,PE；光缆具有优良的机械性能，易于布线及后续加工，是通信领域很好的传输媒介。

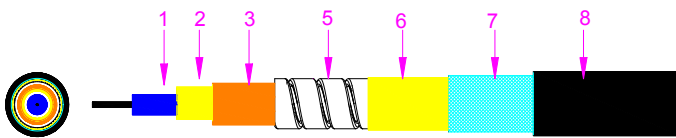
Simplex armored cable suited to SM fiber and MM fiber (50 μm and 62.5 μm), which is composed by tight buffer fiber, SUS flexible tube, aramid yarn strengthening member and outer sheath. The material of the outer sheath: PVC,LSZH,PU,PE; Fiber optic cable is a good transmission medium in communication field because of its excellent mechanical properties, easy wiring and subsequent processing.

### ● 产品特点

1. 采用紧套光纤，柔软、弯曲半径小、易剥纤
2. 良好的阻燃性能、高低温稳定特性
3. 芳纶加强元件，使光缆有优异的抗拉性能
4. 外护材料具有耐腐蚀、防水、抗紫外线、阻燃、环保等优点

### ● Characteristics

1. Tight buffer fiber ,soft with small bending ratio,and easily to be stripped.
2. Excellent flame-retardant performance, and available under high and low temperaturea.
3. Aramid yarn as reinforcer make cable have excellent tensile strength.
4. The outer sheath material have many advantages such as anti-corrosion, waterproof, anti-ultraviolet radiation ,flame-retardant and harmless to environment etc.



### ● 推荐用途 Application

1. 适用于主干网的尾缆，直接从主干网接入到建筑物内的设备和光终端机的跳接线。

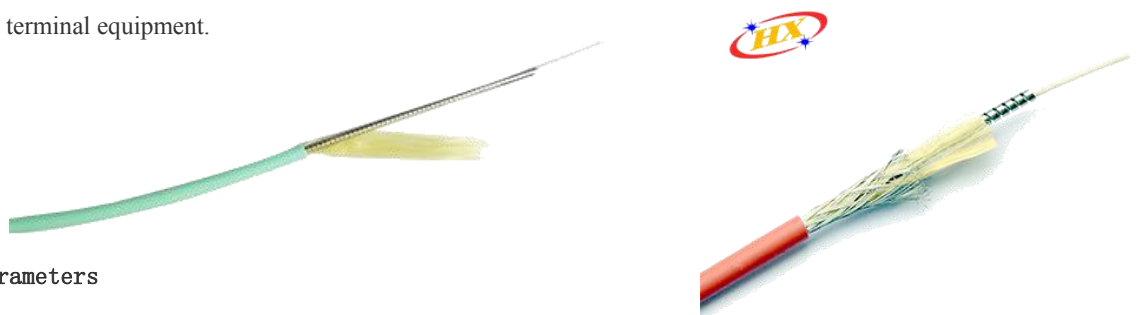
Applicable to the tail cable of the backbone network, directly connected from the backbone network to the equipment in the building and the patch cord of the optical terminal.

2. 适用于室内外沿墙、顶、夹层和管道直接布放光缆与通信设备机房，FTTH，光配线架设的光连接。

It is suitable for indoor and outdoor wall, roof, interlayer and pipeline to directly arrange optical connection between optical cable and communication equipment room, FTTH and optical distribution.

3. 适用于室内外水平布线、建筑物内垂直布线、LAN网、用于多信息点光终端设备的光连接。

Indoor and outdoor horizontal wiring, vertical wiring in buildings, LAN network, optical connection protection for multi-information optical terminal equipment.



### ● 主要参数 Main parameters

光纤芯数 No.of Fibers	外径 Outer Dia. (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Wei ght (kg/ km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
		1	1.9±0.1	100	200	2000	3000		10D	20D	
1	2.9±0.1	200	400	2000	3000	10D	20D	-20°C~+75°C	≤0.4	≤3.5	~13
2	3.0±0.1	200	400	2000	3000	10D	20D	-20°C~+75°C	1550nm	1300nm	~15
									≤0.3	≤1.5	



## ➤ 双芯“8”字铠装光缆 Duplex Figure 8 Armored Fiber Optic Cable

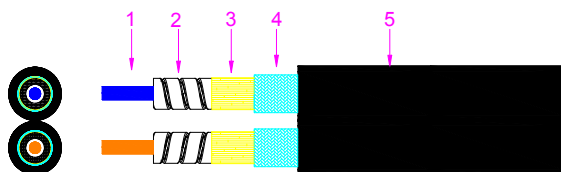
### ● 产品描述 Description

双芯“8”字铠装光缆适用于单模光纤和多模光纤(50 μm 和 62.5 μm)，由紧包光纤(0.6/0.9)、不锈钢螺旋管、芳纶、外护套组成；护套材质有：PVC,LSZH,PU,PE；光缆具有优良的机械性能，易于布线及后续加工，是通信领域很好的传输媒介。

Duplex Figure 8 Armored Fiber Optic Cable suited to SM fiber and MM fiber (50 μm 和 62.5 μm), which is composed by tight buffer fiber, SUS flexible tube, aramid yarn strengthening member and outer sheath. The material of the outer sheath:PVC,LSZH,PU,PE; Fiber optic cable is a good transmission medium in communication field because of its excellent mechanical properties, easy wiring and subsequent processing.

### ● 产品特点

1. 采用紧套光纤，柔软、弯曲半径小、易剥纤
2. 良好的阻燃性能、高低温稳定特性
3. 芳纶加强元件，使光缆有优异的抗拉性能
4. 外护材料具有耐腐蚀、防水、抗紫外线、阻燃、环保等优点



### ● Characteristics

1. Tight buffer fiber ,soft with small bending ratio,and easily to be stripped.
2. Excellent flame-retardant performance, and available under high and low temperaturea.
3. Aramid yarn as reinforcer make cable have excellent tensile strength.
4. The outer sheath material have many advantages such as anti-corrosion, waterproof, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.

### ● 推荐用途 Application:

1. 适用于主干网的尾缆，直接从主干网接入到建筑物内的设备和光终端机的跳接线。

Applicable to the tail cable of the backbone network, directly connected from the backbone network to the equipment in the building and the patch cord of the optical terminal.

2. 室内外沿墙,顶,夹层和管道直接布放光缆与通信设备机房，FTTH，光配线架设的光连接。

It is suitable for indoor and outdoor wall, roof, inter layer and pipeline to directly arrange optical connection between optical cable and communication equipment room, FTTH and optical distribution.

3. 室内外水平布线、建筑物内垂直布线、LAN网、用于多信息点光终端设备的光连接。

Indoor and outdoor horizontal wiring, vertical wiring in buildings, LAN network, optical connection protection for multi-information optical terminal equipment.



### ● 主要参数 Main parameters

光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Weight (kg/km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
2	1.9±0.1	100	200	2000	3000	10D	20D	-20°C~+75°C	1310nm ≤0.4	850nm ≤3.5	~16
2	2.9±0.1	200	400	2000	3000	10D	20D	-20°C~+75°C	1550nm ≤0.3	1300nm ≤1.5	~26

## ➤ 多芯束状铠装光缆 Multi-core distribution armored fiber optic cable

### ● 产品描述 Description

多芯束状铠装光缆适用于单模光纤和多模光纤(50 μm 和 62.5 μm)，由紧套光纤(0.6/0.9)、不锈钢螺旋管、芳纶、外护套组成；护套材质有：PVC,LSZH,PU,PE;多芯集成束管，使用维护方便，光缆具有优良的机械性能，易于布线及后续加工，是通信领域很好的传输媒介。

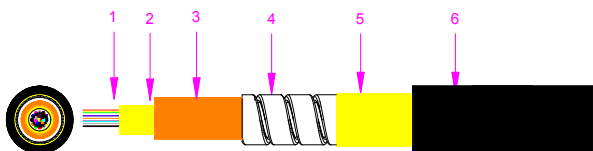
Multi-core distribution armored fiber optic cable suited to SM fiber and MM fiber (50 μm and 62.5 μm), which is composed by tight buffer fiber, SUS flexible tube, aramid yarn strengthening member and outer sheath. The material of the outer sheath:PVC,LSZH,PU,PE; It is easier to be operated and maintained, with one tube for multi-cores. Fiber optic cable is a good transmission medium in communication field because of its excellent mechanical properties, easy wiring and subsequent processing.

### ● 产品特点

1. 光纤传输衰减小、色散低。
2. 满足标准的阻燃不延燃要求，高低温稳定特性。
3. 有良好的机械和环境性能；柔软、弯曲半径小、易剥离；
4. 高强度芳纶加强，保证拉伸力。

### ● Characteristics

1. Low transmission loss and dispersion.
2. Meet the standard flame retardant non-flame retardant requirements, available under high and low temperatures.
3. Have good mechanical and environmental properties, It is soft with small bending ratio, and easily to be stripped.
4. high strength aramid yarn offers high tensile strength.



### ● 推荐用途 Application:

1. 适用于主干网的尾缆，直接从主干网接入到建筑物内的设备和光终端机的跳接线。

Applicable to the tail cable of the backbone network, directly connected from the backbone network to the equipment in the building and the patch cord of the optical terminal.

2. 室内外沿墙、顶、夹层和管道直接布放光缆与通信设备机房，FTTH，光配线架设的光连接。

It is suitable for indoor and outdoor wall, roof, interlayer and pipeline to directly arrange optical connection between optical cable and communication equipment room, FTTH and optical distribution.

3. 室内外水平布线、建筑物内垂直布线、LAN网、用于多信息点光终端设备的光连接。

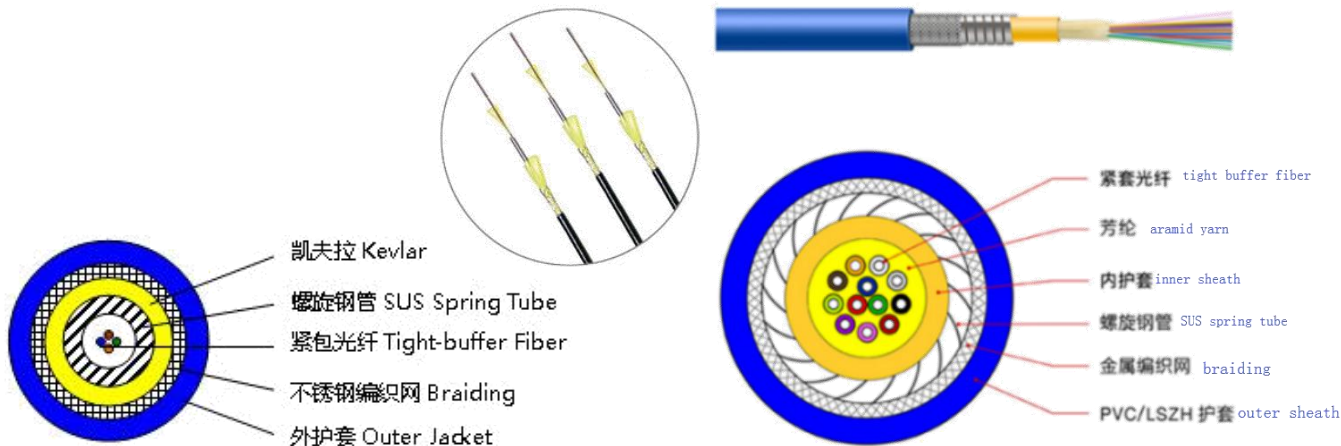
Indoor and outdoor horizontal wiring, vertical wiring in buildings, LAN network, optical connection protection for multi-information optical terminal equipment.

5. 可为大容量、多客户端室内整体敷设、单元布线，并可独立分支使用，可方便的与各端连设备连接。

It can be used for large-capacity, multi-client indoor laying and unit wiring. Besides, it also can be used independently and can be easily connected with each end device.

6. 可用于高密度布线，安装空间和安装曲度较小的场合。

It can be used for high-density wiring, installation space and installation curvature is small.



## ● 主要参数 Main parameters

## 0.9 紧包单模多模多芯束状室内铠装光缆

0.9tight buffer SM/MM multi-core distribution armored fiber optic cable

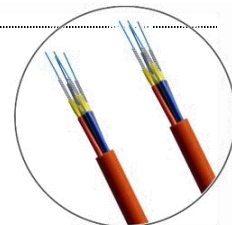
光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Wei ght (kg/ km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
2	4.8±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C	1310nm	850nm	~33
2	5.0±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C	≤0.4	≤3.5	~33
4	5.0±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C	1550nm	1300nm	~33
6	5.0±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C	≤0.3	≤1.5	~33
8	5.5±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C			~40
12	6.0±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C			~55
16	6.0±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C			~55
20	6.5±0.3	300	600	2000	3000	10D	20D	-20°C~+75°C			~60
24	7.0±0.3	300	600	2000	3000	10D	20D	-20°C~+75°C			~65

## 0.6 紧包单模多模多芯束状室内铠装光缆

0.6tight buffer SM/MM multi-core distribution armored fiber optic cable

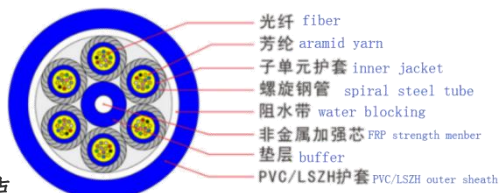
光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Weight (kg/km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
2	4.8±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C	1310nm	850nm	~33
2	5.0±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C	≤0.4	≤3.5	~33
4	6.0±0.2	300	600	2000	3000	10D	20D	-20°C~+75°C	1550nm	1300nm	~55
6	6.0±0.3	300	600	2000	3000	10D	20D	-20°C~+75°C	≤0.3	≤1.5	~57
8	7.0±0.3	300	600	2000	3000	10D	20D	-20°C~+75°C			~70
12	7.0±0.3	300	600	2000	3000	10D	20D	-20°C~+75°C			~74
24	9.0±0.5	300	600	2000	3000	10D	20D	-20°C~+75°C			~100

➤ 多芯分支铠装光缆 Multi-cores Break-out Armored fiber optic Cable



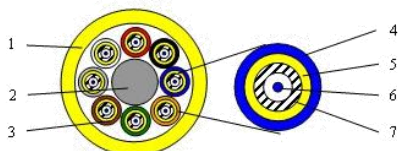
● 产品描述

多芯分支铠装光缆适用于单模光纤和多模光纤 (50 μm 和 62.5 μm)，由紧套光纤 (0.6/0.9)、不锈钢螺旋管、芳纶、外护套组成；护套材质有：PVC, LSZH, PU, PE 等等；子缆为独立单元，维护方便。



● 产品特点

1. 一管多芯束状结构，光纤多达 24 芯 (1-144 芯)，节省空间资源；
2. 满足标准的阻燃不延燃要求，高低温稳定特性；
3. 单根子缆含芳纶加强，强度高，保证拉伸力；
4. 微小不锈钢软管铠装保护，可以抵抗 2000N 以上的压扁力。



1. 主缆外护套 Outer Jacket 2. 中心加强件 Centre Strengthen Member  
3. 铠装子缆 Sub Cable 4. 子缆外护套 Jacket

● 推荐用途

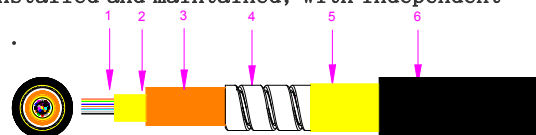
1. 室内主干布线、管道线槽布线、ODF 配线箱集成布线等；
2. 楼宇建筑物的垂直布线，LAN 网；
3. 通信布线中跳线尾纤制作；
4. 远距离室内布线，对拉伸力有一定要求的环境；
5. 可用于高密度布线，安装空间和安装曲度较小的场合。

● 主要参数 Main parameters

光纤 芯数 No.of Fiber s	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Weight (kg/km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
		4	7.0	300	500	2000	3000		140	70	
6	8.0	400	700	2000	3000	160	80	-20°C~+75°C	≤0.4	≤3.5	80
8	10.0	400	700	2000	3000	200	100	-20°C~+75°C	1550nm	1300nm	130
12	12.0	500	800	2000	3000	240	120	-20°C~+75°C	≤0.3	≤1.5	190
48											
144											

● Description

Multi-core break-out armored fiber optic cable suited to SM fiber and MM fiber (50 μm and 62.5 μm), which is composed by tight buffer fiber, SUS flexible tube, aramid yarn strengthening member and outer sheath. The material of the outer sheath: PVC, LSZH, PU, PE, etc; It is easier to be installed and maintained, with independent simplex cable .



● Characteristics

1. Unit tube with multi-cores, fiber count is up to 24(1-144), saves space.
2. Meet the standard flame retardant non-flame retardant requirements, available under high and low temperatures.
3. Aramid yarn in each simplex cable offers high tensile strength, keep high tensile strength.
4. Min diameter SUS spring tube armored and Kevlar reinforced ensure excellent crush resistance to 2000N..

Application:

1. Indoor cabling, pipe and ODF wiring systems.
2. Vertical cabling for buildings and LAN networks
3. Patch cords and pigtails
4. Wiring systems with long distances indoor
5. It can be used for high-density wiring, installation space and installation curvature is small

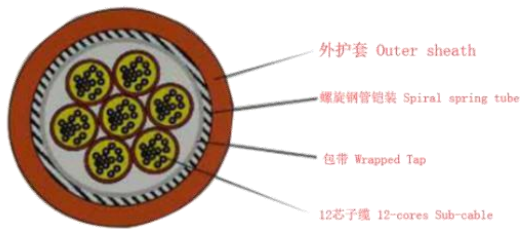
## ➤ 多芯迷你铠装光缆 Multi-cores Armored Mini Fiber Optic Cable

### ● 产品描述

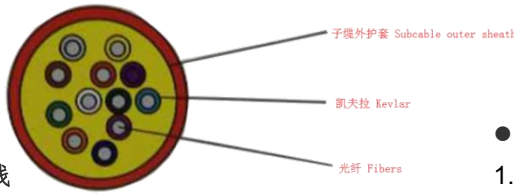
多芯迷你铠装光缆适用于单模光纤和多模光纤 (50 μm 和 62.5 μm)，由多条 12 芯干式光缆层绞铠装而成，每根子缆可单独使用，结构由光纤 (0.6/0.9)、不锈钢螺旋管、芳纶、外护套组成；护套材质有：PVC,LSZH,PU,PE 等等。

### ● 产品特点

1. 光纤传输衰减小、色散低。
2. 满足标准的阻燃不延燃要求, 高低温稳定特性。
3. 标准光缆外径, 体积小重量轻, 光缆集成度高;
4. 微小不锈钢软管铠装保护, 可以抵抗 3000N 以上的压扁力。



主缆结构 Main cable



子缆结构 Subcable

### ● 推荐用途

1. 室内管道线槽布线
2. MPO/MTP 高密度布线
3. 室内环境设备连接

### ● 主要参数 Main parameters

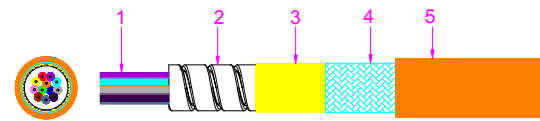
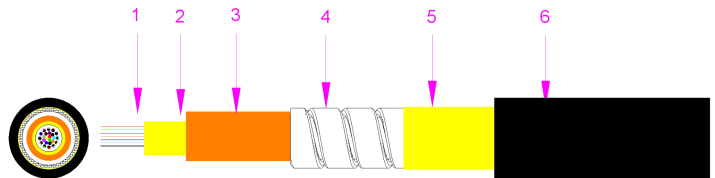
光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Wei ght (kg/ km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
1	1.5±0.1	100	200	2000	3000	10D	20D	-20°C~+75°C	1310nm	850nm	~6
2	1.5±0.2	100	200	2000	3000	10D	20D	-20°C~+75°C	≤0.4	≤3.5	~6
4	2.5±0.1	150	300	2000	3000	10D	20D	-20°C~+75°C	1550nm	1300nm	~11
6	3.0±0.1	200	400	2000	3000	10D	20D	-20°C~+75°C	≤0.3	≤1.5	~13
8	3.5±0.2	200	400	2000	3000	10D	20D	-20°C~+75°C			~15
12	3.5±0.2	200	400	2000	3000	10D	20D	-20°C~+75°C			~15

### ● Description

Multi-cores armored mini fiber optic cable suited to SM fiber and MM fiber (50μm 和 62.5μm), which is made by multiple stranded sub with 12-cores fiber unit. It is composed by tight buffer fiber, SUS flexible tube, aramid yarn strengthening member and outer sheath. The material of the outer sheath:PVC,LSZH,PU,PE, etc.

### ● Characteristics

1. Low transmission loss and dispersion.
2. Meet the standard flame retardant non-flame retardant requirements,available under high and low temperatures .
3. Standard outer diameter, small volume light weight, high degree of optical cable integration.
4. Mini diameter SUS spring tube reinforced ensures good crush resistance to 3000N.



### ● Application

1. Indoor pipe wiring system.
2. MPO/MTP high density wiring systems.
3. Connecting for indoor equipment.

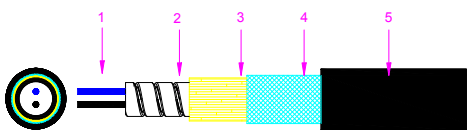
## 野战铠装光缆 Armored Fiber Optic Cable for Field Operation

### 产品描述

野战铠装光缆是一种专为军队野外和复杂环境下作战临时快速布线和反复收放而设计的铠装通信光缆；光缆由光纤、不锈钢螺旋铠管、高模量的凯夫拉加强件和PU护套组成。

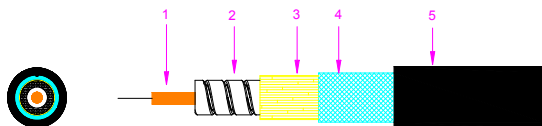
### 产品特点

1. 超微小不锈钢软管保护，具有很好的机械性能；
2. 热塑性聚氨酯弹性体护套为光缆提供了良好的结构稳定性和抗压、阻燃、耐磨、耐油和低温柔韧性等性能。
3. 采用特种抗弯折光纤，使光缆可以任意弯折，方便使用。



### 推荐用途

1. 军用通信快速布线，移动缆车通信抢修；
2. 煤矿、油井、天然气、地质勘探等通信；
3. 广播电视转播、临时通信系统。



### 主要参数 Main parameters

光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Wei ght (kg/ km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
1	2.9±0.1	300	600	2000	3000	10D	20D	-20°C~+75°C	1310nm ≤0.4	850nm ≤3.5	~13
2	3.0±0.1	300	600	2000	3000	10D	20D	-20°C~+75°C	1550nm ≤0.3	1300nm ≤1.5	~15
2	3.0±0.1	400	600	3000	4000						
4	4.0±0.1	500	1000	3000	4000						
6	4.0±0.1	500	1000	3000	4000						

### Description

Armored Fiber Optic Cable for Field Operation is designed for quick and interactive distributing&retrieving under harsh environment;The structure is composed of optical fiber, SUS spring tube, aramid yarn and PU outer sheath.

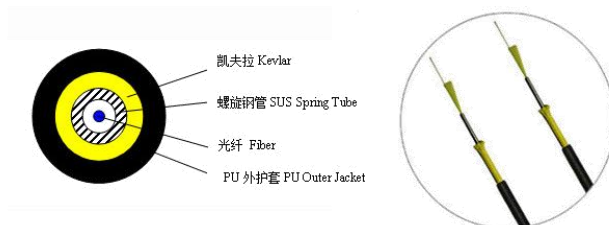
### Characteristics

1. Mini diameter SUS spring tube sheath ensures good mechanical performance.
2. Flame retardant PU outer sheath guarantees structure stability and features of crush-resistant, flame resistance, rubbing-resistant, oil-resistant and flame retardant, Rohs compliant.
3. Special bending insensitive fiber to make the cable bend freely, convenient to use;



### Application

1. Military communications, fast wiring, for portable cable repairing communications.
2. Mining, oil well, Natural gas and geological exploration and other communications.
3. Broadcasting, provisional communications.



## ➤ 非金属野战光缆 Non-metal Tactical Military Fiber Optic Cable

### 产品描述

非金属野战铠装光缆是一种专为军队野外和复杂环境下作战临时快速布线和反复收放而设计的铠装通信光缆；光缆由紧包光纤、高模量的凯夫拉加强件和 PU 护套组成。

#### ● 产品特点

1. 微小外径，重量轻，适合长距离快速布线使用；
2. 抗张力强、抗压力强、柔软性好、抗弯曲、耐油、耐磨、阻燃、温度适用范围广等；
3. 光缆柔韧性极好，易于收放。

#### ● 推荐用途

1. 军用野外通信系统，快速布线或反复收放；
2. 雷达、航空和舰船布线
3. 煤矿、油井、天然气、地质勘探等；
4. 广播电视转播、通信线路抢修等

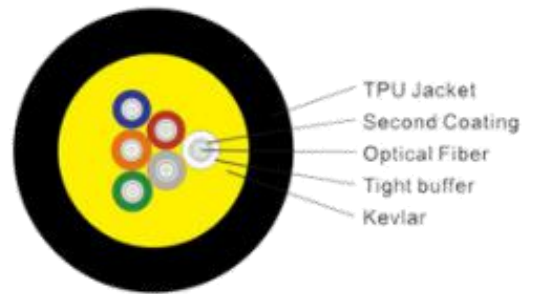


PU外护套 PU outer sheath

凯夫拉加强件 Kevlar strengthened member

中心加强件 Centre reinforced member

紧包光纤 Tight-buffer fiber



TPU Jacket

Second Coating

Optical Fiber

Tight buffer

Kevlar

#### ● 主要参数 Main parameters

光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Wei ght (kg/ km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
1	2.9±0.1	300	600	2000	3000	10D	20D	-20°C~+75°C	1310nm	850nm	~13
2	3.0±0.1	300	600	2000	3000	10D	20D	-20°C~+75°C	≤0.4	≤3.5	~15
2~4		600							1550nm	1300nm	
6		600							≤0.3	≤1.5	

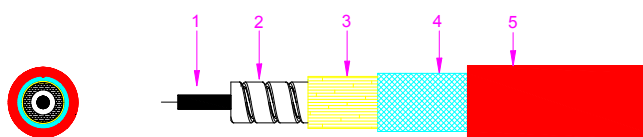
## ➤ 耐高温铠装测温光缆 Heat resisting armored temperature sensing Fiber Optic cable

### 产品描述

耐高温铠装测温光缆是由螺旋不锈钢软管内置1~2芯传感光纤，软管外加高模量凯夫拉、不锈钢编织网及铁氟龙护套组成。由于采用了铁氟龙（四氟乙烯）这种特殊材料，克服了传统螺旋管铠装性传感光缆高低温范围狭窄的缺点，使其长期使用温度扩展到-60°C~+150°C，最高温度可以达到200°C。此外，铁氟龙材料独特的抗紫外线、导热快、绝缘电阻高、耐磨、耐化学腐蚀、不亲水、不亲油、硬度适中等特点，使光缆的适用领域得到极大的扩展。目前产品广泛用于电力、石化等测温领域。

### Description

Heat resisting armored temperature sensing FO cable is composed by the built-in 1~2 core sensing cable of the spiral stainless steel soft pipe, Kevlar strengthening member, stainless steel braiding, and PTFE outer sheath which could overcome the deficiency of the narrow temperature range of the traditional spiral tube armored sensing cable to -60°C~+150°C, even°C. In addition, because of many advantages such as uvioresistant, quick thermal conductivity, high insulated resistance, hard-wearing, chemical resistance, non-hydrophilic, non-olephylic, and middle rigidity, the PTFE material largely expands the application of the cable. This kind of cable is widely used in the temperature sensing domains such as electric power and petrification.



### ● 产品特点

1. 使用温度范围非常广：-60°C~+150°C，最高可达到200°C；
2. 绝缘电阻高，根据铠装厚度，最高可达10KV/mm 绝缘比；
3. 耐磨、耐腐蚀、不亲水、不亲油、可在强化学环境中长期使用；
4. 高机械强度，抗压扁能力达4000N/10CM，抗拉力达400N。

### ● Characteristics

1. Very wide temperature range:-60°C~+150°C, even 200°C .
2. High insulated resistance to 10KV/mm according to certain depth of the outer sheath.
3. Attrition resistance, corrosion resistance, non-hydrophilic, non-olephylic.
4. High mechanical strength, anti-pressing to 4000N/10CM, and anti-dragging to 400N.

### ● 推荐用途

1. 高速公路、地铁等隧道；
2. 电缆沟槽、电缆夹层、电缆隧道等；
3. 长期高温、高湿的环境；
4. 煤矿、石化管道等。

### ● Application

1. High-way and underground tunnel fire detecting .
2. Power wire tunnel, power wire inter layer temperature detecting.
3. Environment with high temperature and humidity .
4. Safety detecting of coal,petrochemical pipe, etc.



### ● 主要参数 Main parameters

光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Wei ght (kg/ km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
1	2.9±0.1	200	400	2000	3000	10D	20D	-20°C~+75°C	1310nm ≤0.4	850nm ≤3.5	~13
2	3.0±0.1	200	400	2000	3000	10D	20D	-20°C~+75°C	1550nm ≤0.3	1300nm ≤1.5	~15



## ➤ 移动式光电混合缆 Photoelectric Composite Cable

### ● 产品描述

移动式光电混合光缆是一款多功能复合线，内芯有光纤、监控线、电源线，产品可以满足大容量数据传输、信号传输、远端供电能各种传输要求，各电线间互相绝缘、屏蔽、互不干扰，光纤采用软铠装保护，因而该产品具有很强的机械性能的同时，还能保持良好的柔软、耐磨性能，适合野外经常移动式布防要求。

### ● 产品特点

电线尺寸、信号线尺寸和光纤可根据负载需求选择  
互相绝缘结构设计，供电电源线不会发生短路故障  
单根信号线屏蔽，混合缆总屏蔽，使之信号传输不受内外干扰  
光纤采用软铠装保护，克服了其脆弱易断的缺点  
产品具有良好的机械性能，满足车压、人踩  
产品耐磨、绝缘、抗日晒雨淋、抗老化

### ● Description

The photoelectric composite cable is a kind of multi-functional composite cable. Its interior cores is made of optical fiber, monitoring cable, and the power cable. The cable could be used for large-volume data transmission, signal transmission, and far-end power supply, and the different cables are insulated and shielded each other. The cable is complied with SMPTE-304 and is suit for HDTV transmission cable.

### ● Characteristics

The specification of the wire, signal wire, optical fiber could be selected according to the load

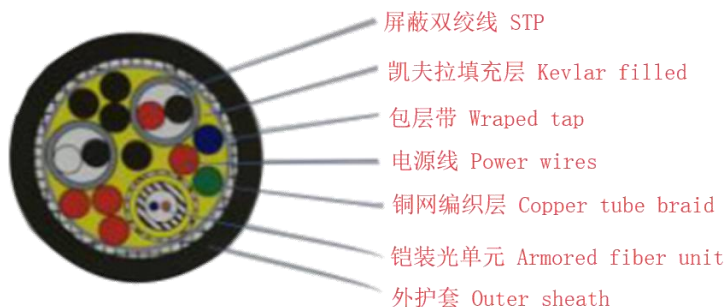
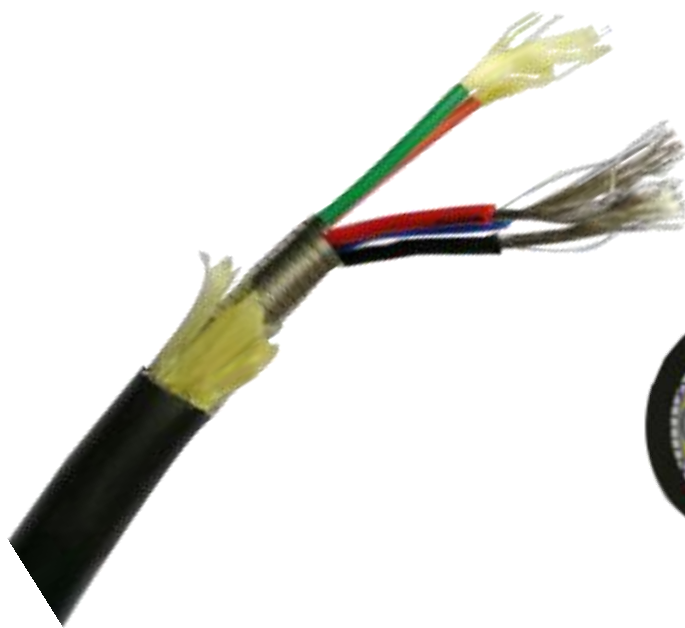
The insulation structure could avoid the short trouble of the power supply wires

Each signal wire and the composite cables are shielded, and the transmission wouldn't be disturbed

The optical fiber is protected by the flexible armored tube, overcoming the defect of fragility

The product has excellent mechanic properties for pressures from vehicles and workers

Wear-resisting, insulation, sun-scorched and rain-drenched proof, anti-aging.



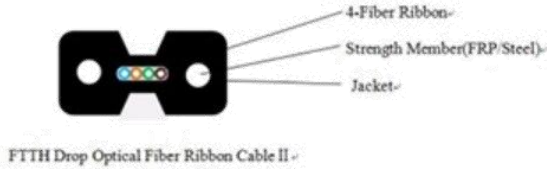
### ● 主要参数 Main parameters

光纤 芯数 No.of Fibers	电线 electric wires (mm <sup>2</sup> *N)	屏蔽双绞线 STP cable (mm <sup>2</sup> *N)	外径 Outer Dia. (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范 围 Temperature (°C)	重量 Weight (kg/km)
				长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		
2	0.8*8	0.3*4	11.0	1200	1500	1000	2000	220	110	-40~85	156
4	0.35*4	0.2*2	7.0	1200	1500	1000	2000	140	70		75

## 皮线铠装光缆 Armored Optical Drop Cable

### ● 产品描述

大容量 FTTH 网络为您提供一个建立一个具有竞争优势并维持生态可持续网络的机会，从而消耗更少的电力。结构简单，重量轻，强烈建议使用皮线光缆。

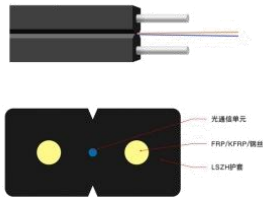


### ● 产品特点

1. 蝶形横截面设计，外护套材质可根据客户要求定制；
2. 两根平行加强元件具有良好的抗压性能，保护光纤；
3. 特种耐弯曲光纤，提供更大的带宽，增强网络传输特性。
4. 独特的凹槽设计，易剥离、重量轻、体积小，方便接续安装和维护；
5. 单根钢丝附加加强件，使光缆具有良好的抗拉性能。

### ● 推荐应用

1. 室内局间布线；
2. FTTH 光纤入户，用户终端；
3. 竖井，楼宇布线。



### ● Product Description

A high-capacity FTTH network gives you opportunities to build a competitive advantage and maintain an eco-sustainable network that consumes less power. With simple structure and light weight, self-supporting FTTH drop cable is highly recommended for the connection of outdoor and indoor cabling.

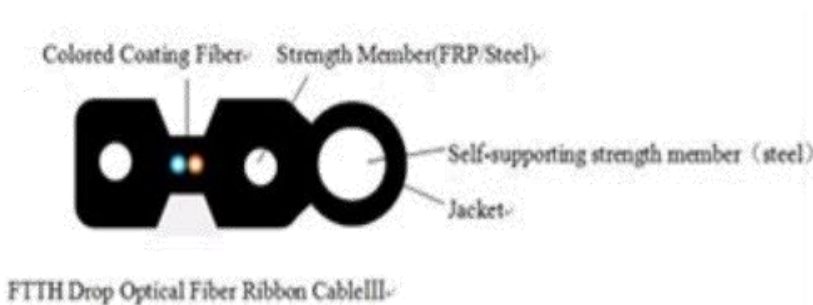
### ● Characteristics

1. Bow tie type cross-section design, the material for outer sheath can be customized according to the clients requirements.
2. Two parallel strength members ensure good performance of crush resistance.
3. Special low-bend sensitivity fiber provides high bandwidth and excellent communication transmission property
4. Unique groove design,easily peeled off, light weight, small size, easy to follow the installation and maintenance.

### ● Application

1. Room indoor wiring
2. FTTH optical home, user terminal
3. Wiring systems in shafts and buildings

光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Wei ght (kg/ km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
		1-4	3.0±0.1	30	60	100	500		30	60	
5-12	8.0±0.1	30	60	100	500	160	80	-20°C~+70°C	1550nm ≤0.3	1300nm ≤1.5	~20

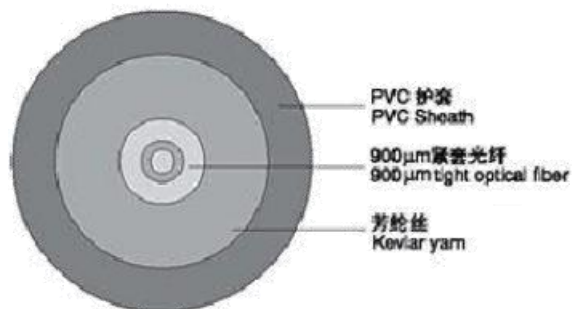


### ● 主要参数 Main parameters

## ➤ 室内软光缆 Indoor Soft Fiber Optic Cable

### ● 产品描述

室内软光缆的结构是在单模或者多模紧套光纤外均匀施放起加强作用的多股芳纶纱，再挤制阻燃外护套而成，通过选择优质光纤，使用专用设备，配合精密模具，并合理设计芳纶纱股数和张力，使产品的各项性能指标均优于相关国家标准的要求。



### ● 产品特点

1. 高强度芳纶加强件，保证光纤无拉伸应变，确保光纤传输特性长期稳定。
2. 结构合理、外径小、重量轻、阻燃、易剥离、衰减地，具有高柔软性。
3. 紧套光缆之间可直接连接，无需过渡接头盒及尾纤，很适宜施工操作，维护方便。

### ● Characteristics

1. High-strength aramid reinforcement to ensure that the fiber has no tensile strain and ensure long-term stability of fiber transmission characteristics.
2. Reasonable structure, small outer diameter, light weight, flame retardant, easy to peel off, attenuate, and high softness.
3. The tight cable can be directly connected without the need of transition joint box and pigtail, which is very suitable for construction operation and convenient maintenance.

### ● 推荐应用

一幢楼与另一幢楼连接光缆，室内沿墙、顶、夹层和导管连接用的软光缆，通信设备尾缆及活动连接线，跳线。

### ● Description

The structure of the indoor soft cable is to uniformly apply the reinforcing multi-strand aramid yarn outside the single-mode or multi-mode tight buffer fiber optic, and then extrude the flame-retardant outer sheath. By selecting high-quality fiber optic, using special equipment, with precision mold, and reasonable design of the number and tension of aramid yarn, so that the performance indicators of the products are better than the relevant national standards.



### ● Application

A fiber optic cable is connected between one building and another building, a soft optical cable for connecting indoors along walls, ceilings, mezzanines and ducts, a communication equipment tail cable and an active connecting cable, and a jumper.

### ● 主要参数 Main parameters

光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/100mm)		最小弯曲半径 Bending Radius (mm)		适用温度范围 Temperature (°C)	光缆损耗 Cable loss (db/km)		重量 Wei ght (kg/ km)
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static		单模 SM	多模 MM	
		4	4.8±0.1	200	600	100	500		100	50	
6	5.2±0.1	200	600	100	500	120	80	-20°C~+70°C	≤0.4	≤3.5	
8	6.2±0.1	200	600	100	500	140	70	-20°C~+70°C	1550nm	1300nm	
12	6.8±0.1	200	600	100	500	140	70	-20°C~+70°C	≤0.3	≤1.5	

## ➤ 全介质自承式光缆 All Dielectric Self-supporting Aerial Cable (ADSS)

### 产品描述

ADSS 光缆采用松套管层绞式结构，将 250 μm 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。松套管（和填充绳）围绕非金属中心加强芯（FRP）绞合成紧凑的缆芯，缆芯的缝隙充以阻水油膏。缆芯外挤制聚乙烯（PE）护套，然后绞合起加强作用的芳纶，最后挤制聚乙烯外护套或耐电痕（AT）外护套。



### 产品特点 Characteristics

防雷击，防电磁干扰；

最佳防电痕腐蚀性能；

良好的高低温性能；

电力传输系统与光缆通信系统各自独立成系统，安装维护相互不受影响。

Resistance to lightning and EMI;

Optimum resistance to electric tracking corrosion;

Good high/low temperatures properties;

The optic fiber cable communication system is independent of the electric power system, hence no mutual interference in mounting and maintenance.

### 推荐应用 Application

可敷设在 220KV 及以下高压输电线路和大跨度自承式架空（如过江河、湖泊、山谷等）环境。

Installation with high voltage transmission lines up to 220KV and large span(e.g., crossing river, lake and valley ) self supporting overhead transmission lines.

### 主要参数 Main parameters

项目 Item	指标范围 Requirement
光缆型号 Cable type	ADSS-PE/AT24B1-12kN(典型 typical)
光纤衰减 Fiber attenuation(B1)	1310nm
(dB/km)	1550nm
光纤芯数 Fiber count	4-72
光缆标称外径 Nominal cable outer diameter(mm)	13(典型 typical)
外护套标称厚度 Nominal thickness of outer sheath (mm)	≥1.7
光缆重量 Cable weight (kg/km)	80-180
杨氏模量 Young's modulus(GPa)(光缆全截面 Full cable cross section)	80-20 (随跨距等荷载而异 depending on span/load etc)
热膨胀系数 Thermal expansion coefficient (10-5℃)	≤10
允许弯曲半径 Permissible bend radius (mm)	25D (动态 Dynamic) 15D (静态 Static) D→Diameter
代表跨距 Representative span (m)	100-1000
工作运行温度 Operating temperatures (℃)	-40~+65
储存温度 Ambient temperature for storage (℃)	-40~+60
敷设温度范围 Ambient temperature for installation (℃)	-10~+40

### Description

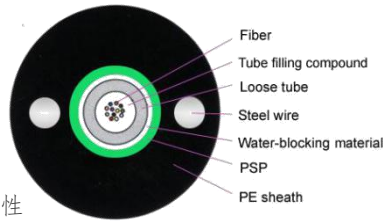
ADSS cable is loose tube stranded.The fibers, are positioned in a loose tube made of a high modulus plastic.The tubes are filled with a water-resistant filling compound.The tubes (and fillers) are stranded around FRP as a non-metallic central strength member into a compact and circular cable core.After the cable core is filled with filling compound.It is covered with thin PE inner sheath.After stranded layer of aramid yarns are applied over the inner sheath as strength member,the cable is completed with PE or AT outer sheath.



## ➤ 中心管式铠装光缆 Light-armored central tube fiber optic Cable

### 产品描述

GYXTW 光缆的结构是将 250 μm 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。松套管外用一层双面涂塑钢带（PSP）纵包，钢带和松套管之间加阻水材料以保证光缆的紧凑和纵向阻水，两侧放置两根平行钢丝后挤制聚乙烯护套成缆。



### 产品特点

- 具有很好的机械性能和温度特性
- 松套管材料本身具有良好的耐水解性能和较高的强度
- 管内充以特种油膏，对光纤进行了关键性保护
- 良好的抗压性和柔软性
- 双面涂覆钢带提高光缆的抗透潮
- 两根平行的钢丝保证光缆的抗拉强度
- 直径小、重量轻、容易敷设
- 较长的交货长度

### 推荐应用

1. 可直埋于戈壁沙漠、冰冻高原、中原大地、南方丘陵山区等地区；
2. 可应用于二级干线、农话线路和广电网的架空敷设；
3. 可应用于城域网建设的管道敷设。

### 主要参数 Main parameters



### Description

The fibers, 250μm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is wrapped with a layer of PSP longitudinally. Between the PSP and the loose tube water-blocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the steel tape. The cable is completed with a polyethylene (PE) sheath.

### Characteristics

- Good mechanical temperature performance
- High strength loose tube that is hydrolysis resistant
- Special tube filling compound ensure a critical protection of fiber
- Crush resistance and flexibility
- PSP enhancing moisture-proof
- Two parallel steel wires ensure tensile strength
- Small diameter, light weight and easily installation
- Long delivery length

### Application

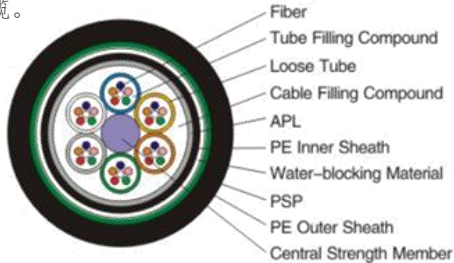
1. It can be buried directly in the Gobi Desert, the frozen plateau, the Central Plains, and the southern hilly mountains;
2. It can be applied to overhead laying of secondary trunk lines, rural telephone lines and wide-area networks;
3. It can be applied to the pipeline laying of metropolitan area network construction.

光缆型号 (以 2 光纤芯递增) Cable type (increased by 2 fibers)	光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/mm)		最小弯曲半径 Bending Radius (mm)		光缆损耗 Cable loss (db/km)		适用 温度 范围 Temp (°C)	重量 Weight (kg/km)
			长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static	单模 SM	多模 MM		
GYXTW-2-12Xn	2-6	9.8±0.1	600	1500	300	1000	10	20	1310nm ≦3.0 1550nm ≦0.22	850nm	-40°C ~+70°C C	100
GYXTW-2-12Xn	2-12	10.6±0.1	1000	3000	1000	3000	10	20		≦3.0		124
GYXTW-14-24Xn	14-24	12±0.1	1000	3000	1000	3000	10	20		1300nm		147
GYXTW-26-36Xn	26-36	12±0.1	1000	3000	1000	3000	10	20		m		150
GYXTW--48Xn	38-48	15±0.1	1000	3000	1000	3000	10	20		≦1.0		207

## ➤ 松套管绞式加强铠装光缆 Stranded Loose Tube Armored Cable

### ● 产品描述

GYTA/S 光缆的结构是讲 250 μm 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯（PE）。松套管（和填充物）围绕中心加强芯绞合成紧凑和圆形的缆芯，缆芯内的缝隙充以阻水填充物。涂塑铝带（APL）总包后挤制聚乙烯护套成缆。



### ● 产品特点

具有良好的机械性能和温度特性

松套管材料本身具有良好的耐水解性能和较高的强度

管内充以特种油膏，对光纤进行了关键性的保护

特别设计的紧密的光缆结构，有效防止套管回缩

良好的抗压性和柔软性

采用下列措施来确保光缆的防水性能：

单根钢丝中心加强芯

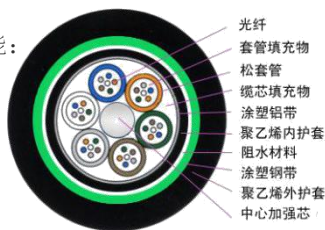
松套管内填充特种防水化合物

完全缆芯填充

涂塑铝带（APL）防潮层

双面涂塑钢带（PSP）提高光缆的抗透潮能力

良好的阻水材料防止光缆纵向渗水



### ● 推荐应用

广泛应用于长距离通信、局间通信、恶劣环境等

适用于架空、管道、直埋，对防潮防鼠要求较高的场合

适合在-40℃—70℃范围内安装、运营或储存。



### ● 主要参数 main parameters

光纤芯数 No.of Fibers	外径 Outer Dia (mm)	允许拉伸力 Tensile (N)		允许压扁 Crush Resistance (N/mm)		最小弯曲半径 Bending Radius (mm)		光缆损耗 Cable loss (db/km)		适用 温度 范围 Temp (°C)	重量 Weig ht (kg/k m)		
		长期 Long Term	短期 Short Term	长期 Long Term	短期 Short Term	动态 Dynamic	静态 Static	单模 SM	多模 MM				
2-36	13.3±0.1	1000	3000	1000	3000	10	20	1310nm	850nm	-40°C ~+60°C	180		
38-48	14.7±0.1	1000	3000	1000	3000	10	20				≤0.36	≤3.0	200
50-72	15.9±0.1	1000	3000	1000	3000	10	20	1550nm	1300nm				240
74-96	17.5±0.1	1000	3000	1000	3000	10	20						≤0.22
98-120	19.1±0.1	1000	3000	1000	3000	10	20				330		
122-144	20.6±0.1	1000	3000	1000	3000	10	20			380			

### ● Description

The fibers, 250 μm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. An Aluminum Polyethylene Laminate (APL) is applied around the cable core, which is filled with the filling compound to protect it from water ingress. Then, the cable is completed with a PE sheath.

### ● Characteristics

Good mechanical and temperature performance

High strength loose tube that is hydrolysis resistant

Special tube filling compound ensure a critical protection of fiber

Crush resistance and flexibility

The following measures are taken to ensure the cable water resistance

Steel wire used as the central strength member

Loose tube filling compound

100% cable core filling

Plastic coated aluminum tape (APL) moisture-proof layer

PSP enhancing moisture-proof

Good water blocking material prevents longitudinal leakage of cable

### ● Application

Widely used in long distance communication, interoffice communication, bad environment, etc

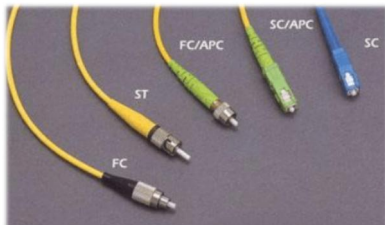
Is suitable for aerial, pipeline, directly buried, the moisture-proof, rodents and other high places

Suitable for -40℃—70℃ with in the scope of installation, operation or storage

## ➤ 铠装光纤跳线 Armored Fiber Optic Patch Cord

### ● 产品描述

铠装光纤跳线是一种新型的光纤跳线，由铠装光缆和光纤连接头两部分组成；可直接铺设在机房及各种恶劣环境中，无须任何额外的保护，可以降低施工成本，同时也大大提升了网络维护的方便性。铠装光纤跳线与传统光纤跳线的最大区别在于它针对光纤易折断、已被损坏的缺点，特别设计生产一种细小的可挠性不锈钢套管来保护光纤，再在套管外加上阻燃 PVC 或 LSZH 披覆，以达到防火防潮防鼠咬等功能。



### 产品特点

- 具有很好的机械性能
- 电信级的插入损耗和回波损耗性能
- 具有良好的反复插拔与互换性能
- 具有良好的温度性能
- 具有精美的外观和考究的做工

### 推荐应用

- 通信机房、野外基站等；
- 光纤到户；
- 测试仪器、仪表，光有源设备引线等。

### ● Description

Armored patch cord is current popular one which was assembled by armored cable and fiber connectors. it can be laid in all kinds of environmental extremes and go without extra protection, which can save space and is quite convenient for maintenance. The biggest difference between armored fiber patch cords and traditional fiber patch cords is that they are designed to produce a small flexible stainless steel sleeve to protect the fiber, in view of the shortcomings of fiber breakage and damage. And coating with PVC or LSZH jacket. To be a fire resistance, moisture resistance, and rodent resistance cable.

### Characteristics

- Has good mechanical properties
- Insertion loss and return loss performance at telecom level
- Has good repeated insertion and removal and interchangeability
- Has good temperature performance
- With a beautiful appearance and sophisticated workmanship

### Application

- FOD, LAN, Base station and so on.
- FTTX
- Test instrument, optical active device leads, etc.



### 主要参数 Main parameters

项目 specification	单模 SM			多模 MM
	PC	UPC	APC	
插入损耗 Insertion Loss(dB)	≤0.30	≤0.30	≤0.30	≤0.30
回波损耗 Return Loss(dB)	≥50	≥55	≥60	/
重复性 Repeatability	0.2dB			
操作/储存温度 Operating/Storage Temp.	-40° C~+85° C			
抗拉强度 Tensile Strength	≥300N	视光缆拉力而定 depending on the tension of the cable		
连接头型号 Connectors	FC,SC,ST,LC,MPO,MT-RJ,E2000,MU			
跳线外径 Cable Dia.(mm)	0.9/2.0/3.0			
跳线长度 Cable length	1M,2M,3M,5M,可定制 customized			

## ➤ 光分路器 PLC Splitter

### ● 概述 Introduction

光分路器主要有以下种类：光纤阵列、托盘式、模块式、插片式、微型、裸纤式、机架式等，以下产品简介仅做参考，具体定制可直接联系我司业务。

The optical splitters mainly have the following types: optical fiber array, tray type, modular type, insert type, micro type, bare fiber type, rack type, etc. The following product introductions are for reference only. For specific customization, please contact our salesman directly.

### ● 平面波导光分路器系列

#### ◇ 产品特点

低插入损耗 (IL)

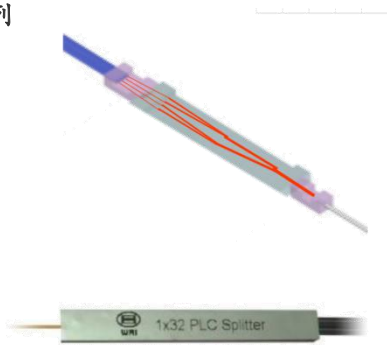
低偏振相关损耗 (PDL)

高通道指标均匀性

波长工作范围宽

优良的低温性能

结构紧凑，体积小



#### ◇ Characteristics

Low insertion loss (IL)

Low polarization dependent loss (PDL)

High uniformity

Broad operating wavelength range

Excellent performance at low temperature

Compact structure and small size.

#### ◇ 推荐应用

可预装在各类配线产品中，提供更加灵活的解决方案  
适用于室内外各种场合。

#### ◇ Application

The optical Splitter can be encapsulated in wiring products to provide a more flexible solution.

It apply to both indoor and outdoor.

#### ◇ 主要参数 Main parameters

产品参数 parameters	1X4	1X8	1X16	1X32	1X64	2X4	2X8	2X16	2X32	2X64
工作波长 operating wavelength(nm)	1310±20/1490±10/1500±20									
插入损耗,最大值 insertion, max	7.2	10.6	13.7	17.0	21.2	7.6	11.0	14.6	17.6	21.2
插损均匀性, 最大值 uniformity of insertion loss, max (dB)	0.7	0.8	1.2	1.4	2.0	0.8	1.0	1.3	1.6	2.2
偏振相关损耗,最大值 polarization dependent loss , max (dB)	0.25	0.25	0.25	0.25	0.35	0.25	0.25	0.25	0.25	0.45
回波损耗,UPC 最小值 return loss, UPC min(dB)	≥55									
方向性, 最小值 directivity, min (dB)	≥55									
工作温度 operating temperatures	-40° C~+85° C									
光纤类型 fiber type	G.625D/G.657A (客户指定 depend on customer' s request)									

### ● 光纤阵列 Fiber Array

#### ◇ 产品特点

高中心斜度;

高可信度;

从V型槽的切割刀连接器的安装的一连串制作都可以节省很大的劳力时间成本;

能应对各种光纤线。

#### ◇ 规格 specification

#### ◇ Characteristics.

High center gradient.

High credibility.

From the V-shape slot cutting to the installation of a labor, time and cost.

All kinds of optical fiber line can corresponding.



材料 materials	硼硅酸玻璃、石英玻璃 Prexy, silica glass
通道数 Channel	4, 8, 16, 32, 48
间距 Pitch	127, 250
芯片间距精度 Pitch Accuracy	±1 (典型 Typical: ±5)
光纤 Fiber	SMF28, 带状光纤 Ribbon fiber
研磨角度 Polishing angle	平面 Plane (0) , 8
V槽角度 V groove angle	60



## 托盘式PLC的应用

### ● 托盘式 PLC Tray type PLC

#### ◇ 产品描述 Description

采用塑料盒封装，端口采用成端。一般有斜角卡式安装适配器。

In a plastic case, the port is terminated, Generally there is a beveled card mount adapter.

#### ◇ 产品特点

模块系列化设计，可单层、两层、多层安装使用，扩容简单方便；  
满足 FC/SC/ST/LC 等各种适配器安装使用的需求；  
满足 2:4、2:8、2:16 和 2:32 等各种不同的分光器的需求。



#### ◇ 推荐应用 Application

主要应用于配线架、光缆交接箱等。

It mainly apply to optical distribution frame(ODF), cross connecting cabinet and so on.

#### ◇ Characteristics 托盘式PLC主要应用于配线架、光缆交接箱

Modules series design can be single, double or multilayer installation and use, expansion is simple and convenient.

Meet various kinds of adapters' installation and using demands such as FC, SC, ST, LC, etc.

Meet different target with demand such as 2:4, 2:8, 2:16, 2:32, etc.



## 模块型PLC的应用

主要应用于光纤分配箱、机架。

### ● 模块性 PLC Modular PLC

#### ◇ 产品描述 Description

模块性 PLC 使用 ABS 塑料盒封装，端口采用尾纤引出。出纤套管是 0.9mm、2.0mm、3.0mm 三种。

The modular PLC is packaged in an ABS plastic case and the port is led out of the pigtail. The fiber-optic casing is three kinds of 0.9mm, 2.0mm, and 3.0mm.

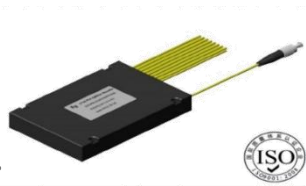
#### ◇ 产品特点

体积小、外形美观；  
安装快捷，性能可靠，稳定；  
分光均匀性好，特别适用于无源网络。

#### ◇ 推荐应用 Application

主要用于光纤分配箱、19 英寸标准的机架中。

It mainly apply to ODF, 19 inches standard rack.



#### ◇ Characteristics

Small size with beautiful appearance.

Installation fast, reliable performance and stability.

Spectral good uniformity, especially suitable for passive network.



## 插片式PLC的应用

### ● 插片式 PLC Insert PLC

采用 ABS 塑料盒封装，端口采用成端式。

Packaged in an ABS plastic case, the port is end-to-end.

主要安装在光纤交接箱中。

It mainly apply to cross connecting cabinet.



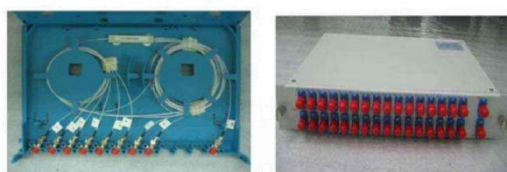
插片式PLC主要应用于光纤分枝箱。

## 裸纤式PLC的应用

## 微型PLC的应用



采用熔接或冷接方式，适用于光纤配纤盘、光缆接头盒中。



不需要进行熔接或冷接，直接安装在盒体中。



## ➤ MPO 光纤高密度布线系统 MPO High Density Cabling System



### 产品描述

光缆两端预制高精度 MPO/MPT 连接器，实现多芯光纤连接，用于线缆延长线与架体内部配线，采用标准的高精度 MPO/MTP 光纤活动连接器；100%工厂预端接并测试，牵引拉手可选择配置，现场施工便利；可快速配置与组网，减少现场安装时间；快速升级，支持并行传输系统应用； 光缆采用松套管结构，外护套可选 OFNR, OFNP 或 LSZH。



### Description

Prefabricated high-precision MPO/MPT connectors at both ends of the cable for multi-core fiber connection for cable extension and internal wiring, Standard high precision MPO/MTP fiber optic patch cords are used;100% factory pre-terminated and tested, The traction handle can be configured and the construction on site is convenient; Quickly configure and network to reduce on-site installation time; Fast upgrade to support parallel transfer system applications; The cable is loose tube structure and the outer sheath is available with OFNR, OFNP or LSZH.

### 产品特点

1. 极性型号有：A、B、C、R。
2. 插入损耗类型符合低损耗标准；
3. 光纤数量分别为 8,12,24,48
4. MTP / MPO 连接器类型有公母接头
5. 光纤类型有：单模（G652D, G657A1, G657A2），多模（OM1, OM2, OM3, OM4）提供光纤类型
6. 光缆护套材质有：OFNR, LSZH, OFNP；
7. 多芯光纤连接器类型：MTP, MPO, APC 或 PC 研磨类型
8. 光缆长度可定制，一般为 1-999 米
9. 光缆类型有圆形、带状；
10. 改善和简化光纤路由，减少光纤空间管理。

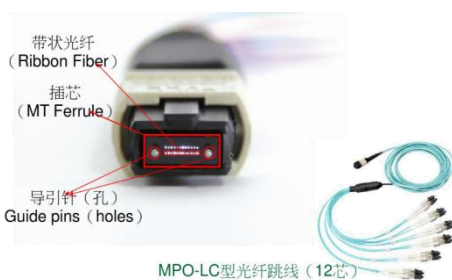


### characteristics

1. Polarity available in Type A, Type B, Type C, Type R.
2. Insertion loss type available in Standard, Elite / Low Loss
3. Fiber count available in 8, 12, 24, 48.
4. MTP/MPO connector type available in Male, Female, Male to Female.
5. Fiber type available in SM (G652D, G657A1, G657A2), MM (OM1, OM2, OM3, OM4).
6. Cable jacket type available in OFNR, LSZH, OFNP.
7. Multi-core fiber connector type available in MTP, MPO with APC or PC polishing type.
8. Cable length can be customized, generally, available in 1 to 999 meters.
9. Cable type available in round, ribbon.
10. Improve and simplify fiber routing, decrease fiber management space.

### 推荐应用

数据中心  
高密度光纤线路管理  
工作站间预接端桥接线  
通信和有线电视网络  
局域网/广域网用户端



### Application

Data Center Interconnect  
High-Density Cross Connect Backbone Installations  
Pre-wired bridge wiring between workstations  
Telecommunication/Broadband/CATV Networks  
LAN/WAN client



1 即插即用理想解决方案



2 高密度集成光纤应用



## ➤ 军用快速连接器 Military Quick Jointed connector

### 产品描述

军用快速连接器是一种符合 GJB1919 标准的多芯、中性光纤连接器，包括活动连接器和车载连接器两种。连接器的连接方式为中性卡扣式，五维定位，不分公母，能实现快速连接和分离。外壳采用优质铝合金材料或高分子符合材料制成，具有抗震、耐压、防水、防烟雾、防尘、防雨等优良性能。广泛应用于军用光纤通信，军用计算机系统、核电领域和多种车载、机载、舰载等设备。



### 结构特点

采用中性连接技术，无需使用适配器或法兰盘，即可进行头与座、头与头、座与座的快速连接；

定位销设计确保多芯光纤一次连接的正确性并可盲插，高精度的插针和插孔保证光纤的连接精度、互换性和重复性；

采用全介质高强度符合材料制造连接器外壳（头和座），重量轻、强度高，可有效防止电磁感应、保护设备安全；

连接器插头和插座都带有防尘盖，无论工作与否都可防止水气、空气杂质对光纤端面的污染，保证连接质量。

标准的陶瓷插针和壳体连接尺寸，与现有装备完全兼容；

如需与光设备连接，可选用可分线的野战光缆连接器，其尾纤的活动连机器形式有 SC、FC、SC 等。



军用野战光缆连接器 military quick jointed connector

### Description

The military quick jointed connector is kind of multiple-core and neutral optical fiber connector according with the standard GJB1919, including the flexible connector and vehicle-mounted connector. The connection mode is natural lock type with five-dimensional location, without binder post and screw set, which could be connected and separated quickly. The shell is made by high-quality aluminum alloy materials or polymer composites, with excellent characteristics such as shake proof, pressure proof, water proof, anti-salt mist, dust proof, and rain proof. It has been widely used in military fiber optic communication, military computer system, nuclear electrical field, and multiple vehicle-mounted, and ship-mounted devices.

### Characteristics

Neutral connection technology allows quick connection of head to mount, head to head, mount to mount without the need for adapters or flanges;

The locating pin design ensures the correctness of the multi-core fiber primary connection and can be blindly inserted. The high-precision pins and jacks ensure the connection accuracy, interchangeability and repeatability of the fiber;

The connector enclosure (head and mount) is made of all-media high-strength material, light in weight and high in strength, which can effectively prevent electromagnetic induction and protect equipment safety;

Both the connector plug and the socket have a dust cover, which prevents the contamination of the fiber end face by moisture and air impurities, whether or not it is working, and ensures the connection quality.

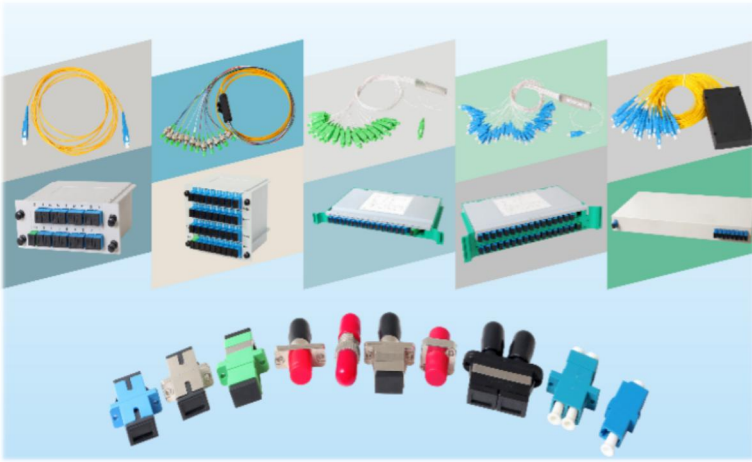
Standard ceramic pin and enclosure connection sizes are fully compatible with existing equipment;

If you need to connect with optical equipment, you can use the field cable connector with splittable line. The activity connector of the pigtailed is SC, FC, SC, etc.

### 主要参数 Main parameters

弯曲强度 Bending strength	≥500Mpa		
插入损耗 insertion loss	≤1.0dB		
回波损耗 return loss	≥45dB		
机械寿命 mechanical life 插拔 inserting and pulling	≥1000 次 times		
重复性 repeatability	≤0.5dB		
抗拉强度 strength of extension 依光缆本身抗拉强度定 up to the tensile strength of the fiber optic cable	≥1000N		
振动 vibration	10HZ 500HZ	加速度 accelerated speed	98m/s <sup>2</sup>
冲击 impact	980m/s <sup>2</sup>	衰减变化 attenuation change	≤0.2dB

接线管、机箱机柜 Junction Pipe 、Chassis cabinet



## ➤ 缆车 Quick Take-off Fiber Optic Cable Reel

### 产品描述

快速收线放线架是一种转为移动式光缆使用而设计的收线放线工具。产品采用全钢设计，带有把手、脚轮、排线工具等，充分考虑光缆的收放、携带方便性

### 产品特点

耐用持久的烤漆外观  
线盘金属卷边工艺  
可移动脚轮设计  
配有拉杆、背带等移动工具



### Description

The quick take-off fiber optic reel is the take-off tool specially designed for the mobile fiber optic cables. The product is made by total steels, with handle and winding displacement tool. It could be carried conveniently based on take-off convenience of the fiber optic cables.

### characteristics

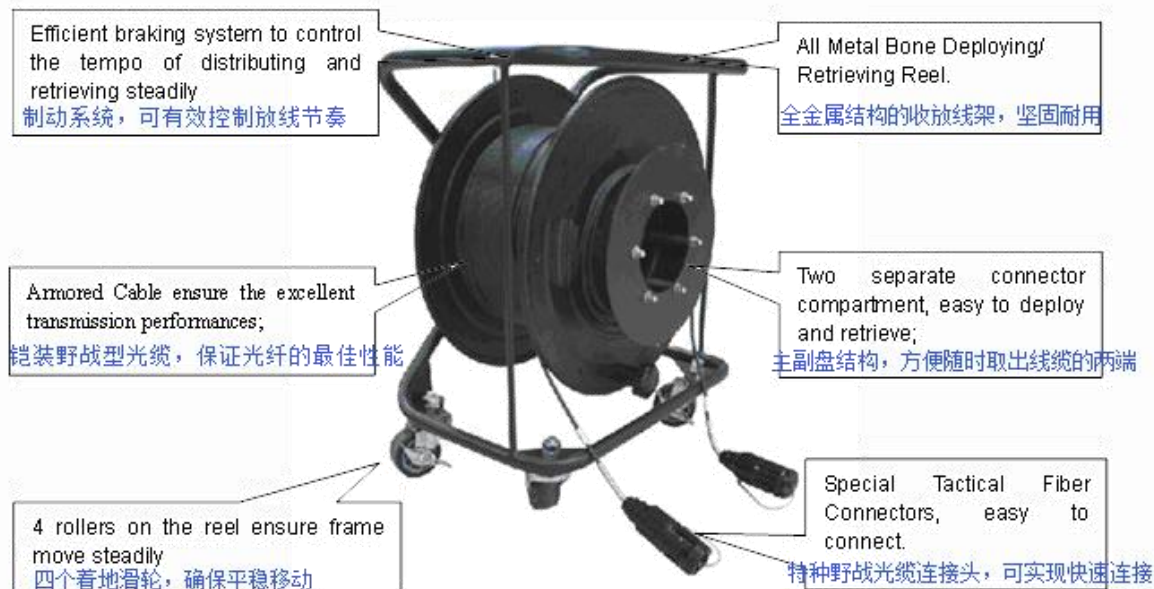
Durable long lasting black finish  
Rugged winding handle  
Roll-around removable casters  
Drawbar and straps, easy to carry



图片 picture	规格 specification	容量 capacity
	尺寸 size: 35*23*28cm <sup>3</sup> 重量 N.W: 3.5KG 主盘尺寸 size of reel: 线盘: $\phi$ 230mm 轴径: $\phi$ 100mm 高度: 180mm	$\Psi$ 2.0mm: 1000~1100m $\Psi$ 2.5.0mm: 700~800m $\Psi$ 3.0mm: 500~550m $\Psi$ 4.0mm: 300~330m $\Psi$ 5.0mm: 180~200m
	尺寸 size: 41*31*45cm <sup>3</sup> 重量 N.W: 8.5KG 主盘尺寸 size of reel: 线盘: $\phi$ 320mm 轴径: $\phi$ 200mm 高度: 145mm	$\Psi$ 2.0mm: 1000~1100m $\Psi$ 2.5.0mm: 700~800m $\Psi$ 3.0mm: 500~550m $\Psi$ 4.0mm: 300~330m $\Psi$ 5.0mm: 180~200m
	尺寸 size: 35*23*28cm <sup>3</sup> 重量 N.W: 13.5KG 主盘尺寸 size of reel: 线盘: $\phi$ 380mm 轴径: $\phi$ 160mm 高度: 170mm	$\Psi$ 2.0mm: 2500~3000m $\Psi$ 2.5.0mm: 1800~2000m $\Psi$ 3.0mm: 1200~1400m $\Psi$ 4.0mm: 700~800m $\Psi$ 5.0mm: 450~500m



注：以上仅作参考 Remark: The above is for reference only.



## ➤ 光缆产品订货信息 Ordering Information

我司产品的完整规格型号由以下 0-9 部分组成：

The complete specifications for the products of our company consists of 9 parts :

0	-	1	2	3	4	5	-	6	7	-	8	-	9
---	---	---	---	---	---	---	---	---	---	---	---	---	---

### 0. 鸿鑫品牌代号 Hongxin Code Name

HX

### 1. 光缆分类 Classification of Optical Cable

GY——室外 outdoor GJ——室内 indoor SC——传感光缆 sensing cable GT——光纤保护套管 fiber protector tube

GM——通信用移动式光缆（室内外两用）portable communication cable

OPLC——光电复合低压电缆 opto-electric composite LV cable

### 2. 加强构件 Reinforcement

K——凯夫拉加强件 kevlar strengthen member Q——凯夫拉编织层加强件 kevlar braiding

F——玻璃钢加强芯 FRP strengthen member R——KFRP 加强件 KFRP strengthen member

H——金属加强芯+芳纶丝

### 3. 结构特征 Structural Feature

（无符号 blank）——光纤松套披覆结构 loose buffer J——光纤紧套披覆结构 tight buffer

（无符号 blank）——层绞结构 stranded layer C——自承式结构 self-support B——扁平式结构 flat

D——光纤带结构 ribbon fiber

G——骨架槽结构 skeleton groove

X——中心管结构 central tube

T——油膏填充结构 oil filled

无——干式阻水结构 dry block water

### 4. 护套、铠装层 Sheath

A——螺旋软钢管铠装（单凯）spiral steel tube armored

B——螺旋钢管+不锈钢编织网（双凯）spiral steel tube and stainless steel wires braiding armored

X——PBT 松套管护套 PBT oil filled tube G——不锈钢无缝管铠装 seamless steel tube armored

### 5. 外护套 Jacket

Y——聚乙烯护套（PE） V——聚氯乙烯护套（PVC） H——低烟无卤（LSZH） U ——聚氨酯护套（PU/TPU）

T——四氟乙烯（铁氟龙）护套（TEFLON） S——硅胶护套（silicone）

### 6. 光纤芯数 Fiber Count

列如（e.g.）：单芯 simplex； 双芯 duplex； 三芯 three cores； 等等 and so on .

### 7. 光纤类型 Fiber Type

A1——50/125 多模光纤 A1 MM

A1b——62.5/125 多模光纤 A1b MM

OM3——50/125 多模光纤 OM3 fiber

B1——G652B 单模光纤 B1 SM

B1.3——G652D 低水峰单模光纤 B1.3 SM

B4——G655 零色散位移单模光纤 single-mode LEAF fiber

B6a——G657A 弯曲不敏感单模光纤 Bending insensitive SM fiber

B6b——G657B 弯曲不敏感单模光纤 Bending insensitive SM fiber

### 8. 光缆外径 Outer Diameter of Optical cable

由小数组成，单位是毫米(mm) Indicated by decimal, and the unit is millimetre.

列如：3.0 表示外径为 3.0mm e.g. The outer diameter of the cable is 3.0mm.

### 9. 外护套颜色 The colour of the outer jacket

B—蓝色 blue O—橙色 orange G—绿色 green BR—棕色 brown G—灰色 grey W—白色 white R—红色 red

BL—黑色 black Y—黄色 yellow P—紫色 purple PK—粉红色 pink C—青色 cryan N—自然色 nature or hyaline

列如：HX—GYXTBV-1A1b-10-BL

表示：鸿鑫——室外中心管式铠装光缆，规格：单芯多模 62.5/125，外径：10mm，黑色 PVC 外护套

Means: HX—Spiral steel tube armored central fiber optic cable , specification : OD:10mm,PVC outer sheath black.

Packing & Delivery



**Why Choose Us:**

- 1.Competitive price
- 2.Fast delivery
- 3.Longtime warranty
- 4.Reliable quality
- 5.Professional product and technical support
- 6.Prompt answer for any question or inquiry
- 7.Value-added service: except good products, we can provide good services on logistic and other help you may need.

**Our Service:**

- 1.Send us your inquiry ,we will revert back to you within 12 hours.
- 2.Adopt strict process and raw materials control to guarantee the life span of 30 years.
- 3.All our products are well tested,we provide you with test report and certification.
- 4.We sincerely welcome customers home and abroad to visit our manufactory.

FAQ (maybe you will have some questions as below)

**Q1.About the MOQ?**

Re.1KM

**Q2.About the price?**

Re.We usually quote within 12 hours after we confirm the technical data of your products.

**Q3.What's the payment method?**

Re.We accept L/C,T/T etc.

**Q4.What are your terms of payment?**

Re. LC at sight  
40% in advance,and 60% before shipment

**Q5.How to ship the items to me?**

Re.Courier(DHL,TNT,FEDEX,UPS,EMS),Airfreight,Ocean Ship are available.

**Q6.How long is your delivery time?**

Re.The general delivery time is 5-7 days after order confirmed,it depends on the order quantity.

**Q7.Can you send me a free sample?**

Re.Yes,We are willing to send free sample,if you would like to pay the shipping costs.

**Q8.Do you accept OEM or ODM?**

Re.Yes,we're factory. any your customized requirements we can do our best to help you realize.

鸿鑫光缆



官网: <http://www.hxfiber.com/>

HX Fiber

website:<http://www.hxfiber.com.cn/>



东莞市鸿鑫光缆科技有限公司

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