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Qitian Communication Industry CO., Ltd



**Professional FTTX
Solutions**



Qitian Communication Industry CO., Ltd

COMPANY PROFILE

公司介绍

Welcome To Qitian Communication



ABOUT US

Qitian Communication Industry CO., Ltd., is a well-known supplier of communication pipeline and related supporting products. Our predecessor, Nantong QiTian Communication Equipment Co., Ltd., was established in 2006. Over the years, we have been dedicated to providing solutions for high-speed highways, power, telecommunication operators, municipal underground corridors, urban pipelines, and subway systems.

Our mission is to deliver high-quality communication pipeline products and services to meet the needs of our customers. We are committed to providing innovative, reliable, and environmentally friendly solutions that help our customers achieve their infrastructure construction and operation goals.

We take pride in our past achievements. With extensive experience and expertise in the field of communication pipelines, we have established long-term partnerships with numerous renowned clients. Our products undergo strict quality control and testing to ensure outstanding performance and durability. We have earned wide acclaim and trust through our commitment to excellent product quality and superior customer service.

In 2023, we have partnered with Alibaba International Station to expand into the international market platform. This collaboration will bring us broader development opportunities and enable us to further expand our product influence and market share. We look forward to working with international clients, providing them with excellent products and solutions, and collectively driving the development of the communication pipeline industry.

The team at Qitian Communication consists of passionate and knowledgeable professionals. With highly skilled engineers and an efficient sales team, we are dedicated to providing customized solutions and top-notch after-sales service to our customers.

If you are interested in our products or services, we welcome you to join our team and create a brighter future together. We are excited to collaborate with you and provide you with the best communication pipeline-solutions.

启天通信管业（宁夏）有限公司是一家知名的通信管道及相关支持产品供应商。我们的前身南通启天通信设备有限公司成立于2006年。多年来，我们致力于为高速公路、电力、电信运营商、市政地下走廊、城市管道和地铁系统提供解决方案。

我们的使命是提供高品质的通信管道产品和服务，以满足客户的需求。我们致力于提供创新、可靠、环保的解决方案，帮助客户实现基础设施建设和运营目标。

我们为过去的成就感到自豪。凭借在通信管道领域的丰富经验和专业知识，我们与众多著名客户建立了长期合作伙伴关系。我们的产品经过严格的质量控制和测试，以确保优异的性能和耐久性。我们通过致力于卓越的产品质量和卓越的客户服务赢得了广泛赞誉和信任。

2023年，我们与阿里巴巴国际站合作，进军国际市场平台。这种合作将为我们带来了更广阔的发展机会，并使我们的进一步扩大产品影响力和市场份额。我们期待与国际客户合作，提供优秀的产品和解决方案，共同推动通信管道行业的发展。

启天通信团队由充满热情 and 知识渊博的专业人士组成。凭借高技能的工程师和高效的销售团队，我们致力于向客户提供定制化的解决方案和一流的售后服务。

如果您对我们的产品或服务感兴趣，欢迎加入我们的团队，共创美好未来。我们很高兴与您合作，并为您提供最好的通信管道解决方案。

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Microtubule 微管

Air blown microtubule



Description

产品描述

Microtubule is a new material to enhance the capacity of the communication pipe. the outer layer is high density polyethylene thin material (hdpe), and the inner layer is a low friction coefficient silicon core layer material. this type of pipe can withstand air pressure of 6 to 12 bar (an important parameter for the pipe to meet the air blowing micro cable). typically used by communicationoperators in man backbone and access layer networks, as well as in other communication pipe networks.

微管是一种新型的增强通信管道容量的材料。外层为高密度聚乙烯薄材料（hdpe），内层为低摩擦系数硅芯层材料。这种类型的管道可以承受6到12巴的空气压力（这是管道满足吹风微型电缆的重要参数）。通常由主干网和接入层网络以及其他通信管道网络中的通信操作员使用。

Applications

产品应用

- 1、光缆铺设：微管可以作为光缆的保护管道，将光缆放置在微管内部，避免光缆受到外界因素的影响，如风吹、雨淋、日晒等，从而延长光缆的使用寿命。
1. Fiber optic cable laying: Microtubes can serve as protective pipes for optical cables. The optical cables are placed inside the microtubes to avoid external factors such as wind, rain, and sunlight, thereby extending the service life of the optical cables.
- 2、光缆维护：微管可以方便地进行光缆的检修和维护，当光缆出现故障时，只需打开微管，就可以直接查找和修复故障点，而不需要破坏地面或墙壁等建筑物。
2. Fiber optic cable maintenance: Microtubes can facilitate the maintenance and repair of fiber optic cables. When a fiber optic cable malfunctions, simply open the microtubule to directly locate and repair the fault point without damaging buildings such as the ground or walls.
- 3、建筑物内部布线：微管可以作为建筑物内部布线的管道，将各种电缆、光缆等线路放置在微管内部，从而美化室内环境，避免线路杂乱无章，也方便以后的维护和升级。
3. Internal wiring of buildings: Microtubes can be used as conduits for internal wiring of buildings, and various cables, optical cables and other lines can be placed inside the microtubules, so as to beautify the indoor environment, avoid disordered lines, and facilitate future maintenance and upgrading.
- 4、公共设施建设：微管可以作为公共设施建设的管道，如城市道路、桥梁、地铁、隧道等，将各种线路放置在微管内部，避免对周围环境的影响，也方便以后的维护和升级。
4. Public facility construction: Microtubes can serve as pipelines for public facility construction, such as urban roads, bridges, subways, tunnels, etc. Various lines are placed inside the microtubules to avoid impact on the surrounding environment and facilitate future maintenance and upgrading.

Standards

产品标准

微管采用“YD-T 1460.3-2006 通信用气吹微型光缆及光纤单位 第3部分：微管、微管束和微管附件”标准执行。

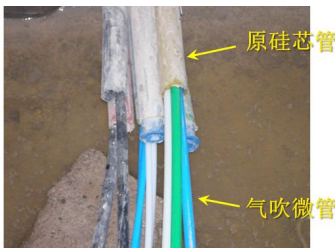
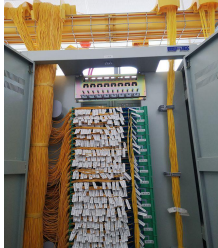
The microtubule is implemented according to the standard "YD-T 1460.3-2006 Gas blown Micro Optical Cables and Fiber Optic Units for Communication - Part 3: Microtubes, Microtube Bundles, and Microtube Accessories".

Use Case

使用场景

专为气吹微管微缆使用，多大光缆使用管道容积率，方便气吹光缆，使用寿命长达50年，满足现代通信FTTX任何使用场景。

It is specially designed for the use of air blown micro tube and micro cable. Many optical cables use pipe Floor area ratio, which is convenient for air blown optical cables. Its service life is up to 50 years, meeting any use scenarios of modern communication FTTX.



microtubule 微管	OD(mm) 外径(mm)	ID(mm) 内径(mm)	wall thickness(mm) 壁厚(mm)	Supply Length(m) 盘长(m)
5/3.5mm	5mm	3.5mm	0.75mm	4000m
7/3.5mm	7mm	3.5mm	1.75mm	4000m
10/8mm	10mm	8mm	1.0mm	2000m
12/10mm	12mm	10mm	1.0mm	2000m
14/10mm	14mm	10mm	2.0mm	2000m
14/12mm	14mm	12mm	1.0mm	2000m
16/12mm	16mm	12mm	2.0mm	2000m

Available in 12 colours:

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Microtubule Accessories

微管附件

model 样式	OD(mm) 口径(mm)	Using microtubules 使用微管型号	picture 图片	Supply 包装/数量
Straight Connector接头 End Cap堵头	5mm	5/3.5mm		100PCS
Straight Connector接头 End Cap堵头	7mm	7/3.5mm		100PCS
Straight Connector接头 End Cap堵头	10mm	10/8mm		100PCS
Straight Connector接头 End Cap堵头	12mm	12/10mm		100PCS
Straight Connector接头 End Cap堵头	14mm	14/10mm		100PCS
Straight Connector接头 End Cap堵头	14mm	14/12mm		100PCS
Straight Connector接头 End Cap堵头	16mm	16/12mm		100PCS

Silicon core tube硅芯管

Air blown Silicon core tube



Description

产品描述

HDPE silicon core tube is a new type of pipeline system, which uses high-density polyethylene (HDPE) material as the pipe shell and is filled with silicone core material in the middle. HDPE is a plastic material with high strength, high toughness, corrosion resistance, and wear resistance, which has good durability and reliability. Silicone core material has excellent properties such as high temperature resistance, corrosion resistance, and wear resistance, and can be used in harsh environments such as high temperature and high pressure. The characteristics of HDPE silicon core pipes are light weight, convenient installation, long service life, low maintenance cost, and good durability and aging resistance. It is widely used in fields such as telecommunications, radio and television, railways, petroleum, chemical engineering, etc., and is particularly suitable for some special applications, such as underground mines, highways, bridges, etc.

HDPE硅芯管是一种新型的管道系统，它采用高密度聚乙烯（HDPE）材料作为管壳，中间填充硅胶芯材制成。HDPE是一种高强度、高韧性、耐腐蚀、耐磨损的塑料材料，具有较好的耐用性和可靠性。硅胶芯材则具有很好的耐高温、耐腐蚀、耐磨损等性能，能够在高温、高压等恶劣环境下使用。HDPE硅芯管的特点是重量轻、安装方便、使用寿命长、维护成本低，同时具有较好的耐久性和耐老化性能。它广泛应用于电信、广电、铁路、石油、化工等领域，特别适用于一些特殊的应用场合，如地下矿井、高速公路、桥梁等。

Applications

产品应用

HDPE silicon core tube have excellent corrosion resistance, wear resistance, high temperature resistance, and other properties. At the same time, they are lightweight, easy to install, and have a long service life. Therefore, they are widely used in various fields.

HDPE硅芯管具有很好的耐腐蚀、耐磨损、耐高温等性能，同时重量轻、安装方便、使用寿命长，因此在各个领域都有广泛的应用。

1.In the field of telecommunications, HDPE silicon core pipes are mainly used for the protection and laying of optical cables. It can effectively protect the optical cable from external damage and influence, and has good insulation performance to ensure the stability and safety of the optical cable.

1、在电信领域，HDPE硅芯管主要用于光缆的保护和敷设。它能够有效地保护光缆免受外界的伤害和影响，同时具有良好的绝缘性能，能够保证光缆的稳定和安全。

2.In the field of broadcasting and television, HDPE silicon core tubes are mainly used for the protection and laying of cables. It can effectively protect cables from external damage and influence, and has good durability and aging resistance, ensuring the long-term stable operation of cables.

2、在广电领域，HDPE硅芯管主要用于电缆的保护和敷设。它能够有效地保护电缆免受外界的伤害和影响，同时具有较好的耐久性和耐老化性能，能够保证电缆的长期稳定运行。

3.In fields such as petroleum and chemical engineering, HDPE silicon core pipes are mainly used for conveying various liquids, gases, and chemicals. It has excellent corrosion resistance, wear resistance, and high temperature resistance, and can be used in harsh environments to ensure the safe transportation of liquids, gases, and chemicals.

3、在石油、化工等领域，HDPE硅芯管主要用于输送各种液体、气体和化学品等。它具有很好的耐腐蚀、耐磨损、耐高温等性能，能够在恶劣的环境下使用，保证液体、气体和化学品的安全输送。

4.HDPE silicon core pipes are also widely used in other fields, such as municipal construction and water conservancy engineering.

4、在其他领域，如市政建设、水利工程等，HDPE硅芯管也有广泛的应用。

Standards

产品标准

硅芯管采用国标“GB_T 24456-2009 高密度聚乙烯硅芯管”标准执行。

The silicon core tube adopts the national standard "GB_T 24456-2009 high-density polyethylene silicon core tube".

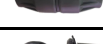
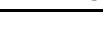


Silicon core tube 硅芯管	OD(mm) 外径(mm)	ID(mm) 内径(mm)	wall thickness(mm) 壁厚(mm)	Supply Length(m) 盘长(m)
32/26mm	32mm	26mm	3.0mm	2000m
32/28mm	32mm	28mm	2.0mm	2000m
36/30mm	36mm	30mm	3.0mm	2000m
40/33mm	40mm	33mm	3.5mm	2000m

Available in 12 colours:

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Silicon core tube Accessories

model 样式	OD(mm) 口径(mm)	Using microtubules 使用硅芯管型号	picture 图片	Supply 包装数量
Straight Connector 管接头	32mm	32/26mm		100PCS
Straight Connector 管接头	32mm	32/28mm		100PCS
Straight Connector 管接头	40mm	40/33mm		100PCS
Straight Connector 管接头	40mm	40/33mm		100PCS
Straight Connector 管接头	40mm	40/33mm		100PCS
End Cap/expansion plug 堵头/膨胀塞	14mm	14/12mm		100PCS
Cable stopper 护缆塞	16mm	16/12mm		100PCS

microduct bundles 集束管

Air blown microduct bundles



Description

产品描述

Microduct bundles refer to a type of conduit system that is designed to protect and manage small-diameter fiber optic cables. These bundles typically consist of multiple microducts, which are small, flexible tubes that can be easily installed and routed through tight spaces. The microducts are often color-coded to help with identification and organization, and they may be bundled together in larger ducts for added protection. Microduct bundles are commonly used in telecommunications, data centers, and other applications where high-speed data transmission is required.

集束管是指一种用于保护和管理小直径光纤电缆的导管系统。这些管束通常由多个微导管组成，这些微导管是小型柔性管，可以很容易地安装并穿过狭小的空间。微导管通常有颜色编码，以帮助识别和组织，它们可以捆绑在更大的导管中，以增加保护。微导管束通常用于电信、数据中心和其他需要高速数据传输的应用。

Applications

产品应用

Communication microduct bundles are often used in telecommunications and network facilities to manage and protect optical cables and other communication lines. The following are some application scenarios for communication tube bundles:

通信用管材集束管常用于电信和网络设施中，用于管理和保护光缆和其他通信线路。以下是一些通信用管材集束管的应用场景：

- 1、Inside buildings: microduct bundles can be used to manage and protect optical cables and other communication lines inside buildings, such as office buildings, hotels, hospitals, etc.
- 1、建筑物内部：集束管可用于管理和保护建筑物内部的光缆和其他通信线路，如办公楼、酒店、医院等。
- 2、Underground passage: microduct bundles can be used for the management and protection of optical cables and other communication lines in underground passages, such as subways, tunnels, etc.
- 2、地下通道：集束管可以用于地下通道中的光缆和其他通信线路的管理和保护，如地铁、隧道等。
- 3、Telecommunications base station: microduct bundles can be used for the management and protection of optical cables and other communication lines in telecommunications base stations, such as wireless base stations, microwave stations, etc.
- 3、电信基站：集束管可以用于电信基站中的光缆和其他通信线路的管理和保护，如无线基站、微波站等。
- 4、Data center: microduct bundles management can be used for the management and protection of optical cables and other communication lines in the data center, such as Server room, network center, etc.
- 4、数据中心：集束管可以用于数据中心中的光缆和其他通信线路的管理和保护，如服务器机房、网络中心等。
- 5、Military facilities: Bundle tubes can be used for the management and protection of optical cables and other communication lines in military facilities, such as military bases, satellite communication stations, etc.
- 5、军事设施：集束管可以用于军事设施中的光缆和其他通信线路的管理和保护，如军事基地、卫星通信站等。

Standards

产品标准

Microduct bundles adopts the standard implementation of "YD-T 1460.3-2006 Gas blown Micro Optical Cables and Fiber Optic Units for Communication - Part 3: Microtubes, Microtube Bundles, and Microtube Accessories".

集束管采用“YD-T 1460.3-2006 通信用气吹微型光缆及光纤单位 第3部分：微管、微管束和微管附件”标准执行。



Microduct bundles 集束管	wall thickness(mm) 壁厚(mm)	shape 形状		Supply Length(m) 盘长(m)
2*10/8	1.2mm 2.0mm	Straight line shape		2000m
2*12/10	1.2mm 2.0mm	Straight line shape		2000m
2*14/10	1.2mm 2.0mm	Straight line shape		2000m
2*14/12	1.2mm 2.0mm	Straight line shape		2000m
3*10/8	1.2mm 2.0mm	Straight line shape triangle		2000m
3*12/10	1.2mm 2.0mm	Straight line shape triangle		2000m
3*14/10	1.2mm 2.0mm	Straight line shape triangle		2000m
3*14/12	1.2mm 2.0mm	Straight line shape triangle		2000m
4*10/8	1.2mm 2.0mm	square		2000m
4*12/9	1.2mm 2.0mm	square		2000m
4*12/10	1.2mm 2.0mm	square		2000m
4*14/10	1.2mm 2.0mm	square		2000m
4*14/12	1.2mm 2.0mm	square		2000m
7*10/8	1.2mm 2.0mm	hexagon		2000m
7*12/10	1.2mm 2.0mm	hexagon		2000m
7*14/10	1.2mm 2.0mm	hexagon		2000m
7*14/12	1.2mm 2.0mm	hexagon		2000m
12*5/3.5	1.2mm 2.0mm	circular		2000m
19*5/3.5	1.2mm 2.0mm	circular		2000m

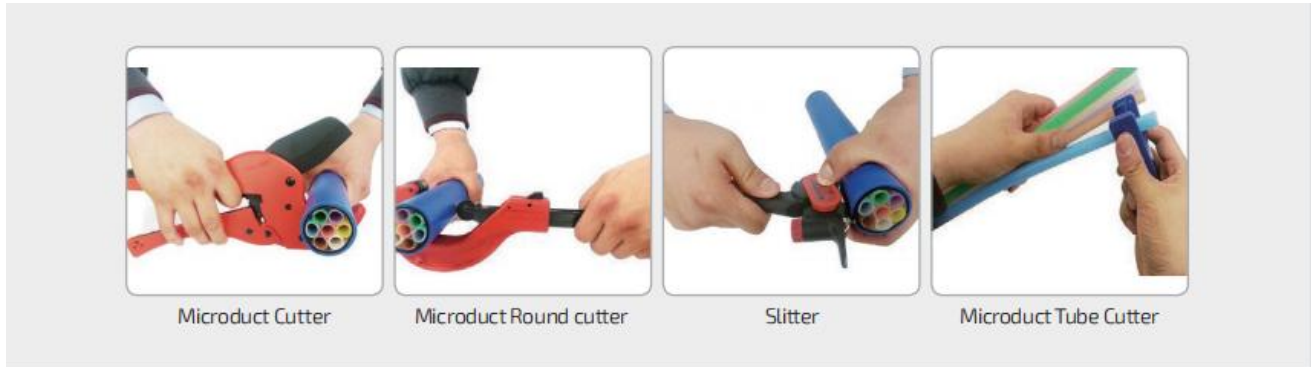
microduct bundles 集束管
Air blown microduct bundles

Available in 12 colours:

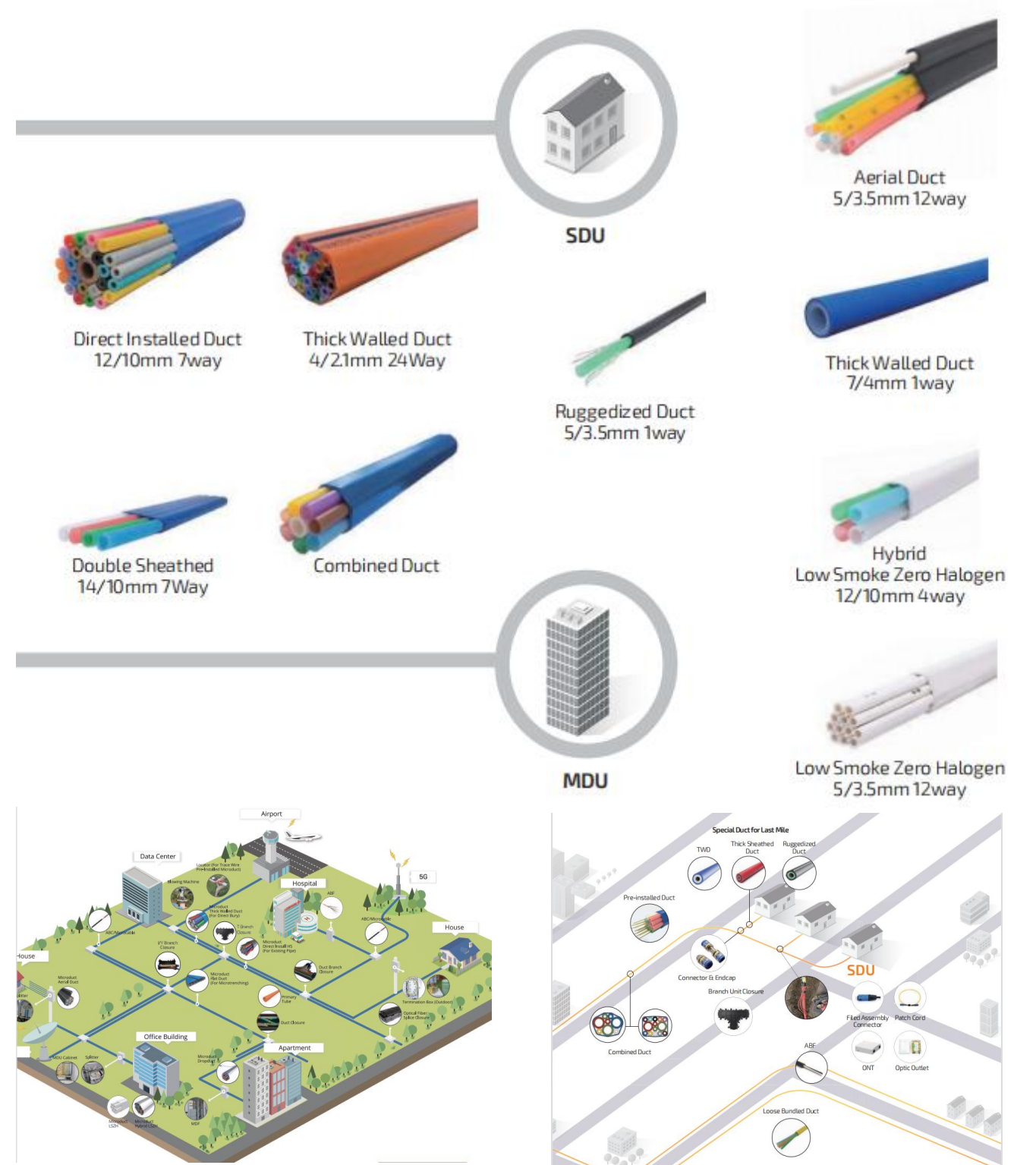
No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Silicon core tube Accessories

model 样式	OD(mm) 口径(mm)	Using microtubules 使用硅芯管型号	picture 图片	Supply 包装数量
Straight Connector 管接头	32mm	32/26mm		100PCS
Straight Connector 管接头	32mm	32/28mm		100PCS
Straight Connector 管接头	40mm	40/33mm		100PCS
Straight Connector 管接头	40mm	40/33mm		100PCS
Straight Connector 管接头	40mm	40/33mm		100PCS
End Cap/expansion plug 堵头/膨胀塞	14mm	14/12mm		100PCS
Cable stopper 护缆塞	16mm	16/12mm		100PCS



Application Map



Tight Buffer Fiber紧套光纤

Description产品描述

Tight buffer fiber is produced as that fiber is sheathed by buffer material. The selection of top-quality fiber, the specific production equipment and the accurately designed die make the performance of product.
紧套光纤是在被覆光纤外挤附一层缓冲材料而成。通过选择优质光纤，使用专用设备，配合精密模具，使产品具有优良的性能。

Characteristics产品特点

- Good uniformity of the outer diameter of tight buffer fiber and excellent strip-ability
紧套光纤外径均匀，剥离性好
- Good performance of flame-retardant
良好的阻燃性能
- Low induced attenuation within the operating temperature range
高、低温特性稳定
- Excellent geometrical dimension of the fiber
光纤的几何尺寸一致性好

Applications产品应用

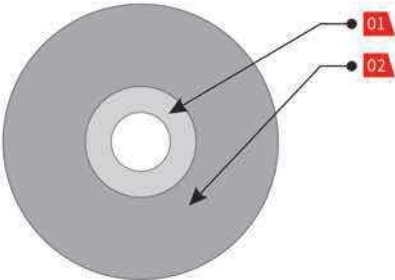
- Indoor cable
室内光缆成缆
- Making jumper, pigtail 有源及无源光器件尾纤和连线
- Data communication 数据通信传输

Structure Drawing结构图

Structure Drawing
结构图

01 Fiber 250um

02 Tight Buffer



Specifications参数

Technical Parameters结构参数

Model 紧套光纤 型号	Fiber Coating Diameter 光纤涂 层直径 (μm)	TBF Diameter 紧套 光纤直径 (μm)	TBF Weight 紧套 光纤重量 (kg/km)	Tensile Strength 允 许拉伸力 Long/Short term 长 期/短期 (N)	Crush Resistance 允 许压扁力 Long/Short term 长 期/短期 (N/100mm)	Bending Radius 弯 曲半径 Dynamic/Static 动 态/静态 (mm)	Coating Strip Force 剥离强度 (N)
TBF-I	245±7	900±50	0.9	3/6	100/500	20D/10D	W13.3
TBF-II	500±50	900±50	0.7	3/6	100/500	20D/10D	W13.3

Note: The symbol D in Bending Radius Column represents diameter 注：弯曲半径中
D表示紧套光纤直径。

Optical Characteristics光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽	Effective Mode ¹⁰ Gbit/s Ethernet		Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm			Bandwidth 有效模式带宽	Link Length 10G以太网链路长度	
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值		850nm	850nm	
Condition 条件					850/1300nm			/
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125		—	3.0/1.0	3.5/1.5	>500/500		—	30
62.5/125	—	—	3.0/1.0	3.5/1.5	>200/500	—	—	30
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	>2000	W300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	W550	30

Transportation/ Storage/Operating Temperature: -20°C~+60°C, Installation Temperature: -5°C~+50°C 运输/储存/使用温
度: -20°C~+60°C, 安装温度: -5°C~+50°C

Fiber Protection Tube

光纤保护空管

Description

产品描述

Fiber protection tube is made of a layer of cushion material. By selecting high quality raw material and precision module, fiber protection tube enjoy good performance.
光纤保护空管是中空挤制一层缓冲材料而成。通过选择优质材料，使用专用设备，配合精密模具，使产品具有优良的性能。

Characteristics

产品特点

- With high uniformity of diameter, easy for fiber to passthrough 光纤保护空管外径均匀，穿纤性能良好
- With good fire retardant performance (depend on different materials) 良好的阻燃性能(视不同材料而定)
- With strong stability on High-Low temperature characteristic 高、低温特性稳定
- With high uniformity of geometrical characteristics 空管的几何尺寸一致性好

Applications

产品应用

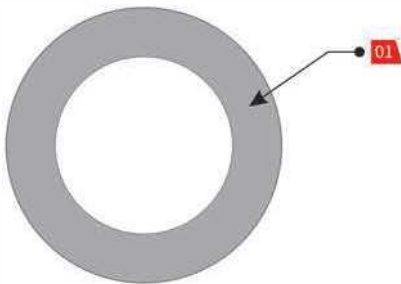
- Fiber optics components 光器件配件
- Making jumper, pigtail 有源及无源光器件尾纤和连线
- Data communication 数据通信传输

Structure Drawing

结构图

Structure Drawing
结构图

01 Protection Tube



Specifications

参数

Technical Parameters

结构参数

Model 紧套光纤型号	Material 材料	Diameter 尺寸
TBL	H-Hytrel	900±50μm
	N-Nylon	
	F-PVDF	

Model 型号	1	2	3	4	5	6
Colour 颜色	Blue 蓝色	Orange 橙色	Green 绿色	Brown 棕色	Slate 灰色	White 白色

Model 型号	7	8	9	10	11	12
Colour 颜色	Red 红色	Black 黑色	Yellow 黄色	Violet 紫色	Pink 粉红色	Aqua 水绿色

Simplex Cable单芯光缆

Description产品描述

Simplex cable use single 900nm or. 600nm tight buffer fiber as optical communication medium, the tight buffer fiber wrapped with a layer of aramid yam as strength member units, and the cable is completed with a PVC or LSZH (Low-smoke , Zero halogen, Flame-retardant) jacket.

单芯光缆使用单根900 μm或0.600. m紧套光纤作为光传输介质，外覆一层芳纶作为受力加强单元，最外挤制一层聚氯乙烯(PVC)或低烟无 卤材料(LSZH,低烟、无卤、阻燃)护套而成。

Characteristics产品特点

- Tight buffer fiber easy of stripping
采用紧套光纤，便于剥离使用
- Tight buffer fiber have excellent flame-retardant performance
紧套光纤有良好的阻燃性能
- Aramid yarn as strength member make cable have excellent tensile strength 芳纶加强元件，使光缆有优异的抗拉性能
- The outer jacket material has many advantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
外护材料耐腐蚀，防水，防紫外，阻燃，环保等优点

Applications产品应用

- Optical fiber jumper or pigtail
光纤活动连接跳线或尾纤
- Indoor riser level and plenum level cable distribution
室内竖井级和强制通风级布线
- Interconnect between instruments, communication equipment 仪器、通信设备互联

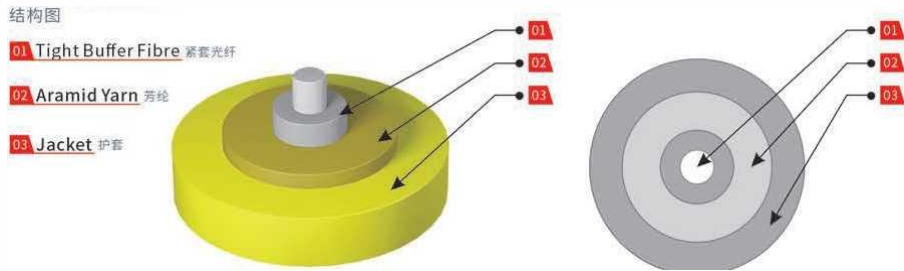
Standards产品标准

Comply with Standard YD/T 1258.2, ICEA-596, GR-409, IEC 60794-2-10/11, etc.; and PVC cable meet the requirements of UL approval OFNR and OFNP; Different LSZH jacket meet IEC 60332-1 or IEC 60332-3C or OFNR certification.

满足YD/T 1258.2JCEA-596.GR-409JEC 60794-2-10/11等标准；除了普通的PVC产品外，还有分别通过ULOFNR. OFNP认证的产品；

Structure Drawing结构图

Structure Drawing
结构图



Technical Parameters结构参数

Cable Model 光缆型号	Cable Diameter (Ref) 光缆参考直径 (mm)	Cable Weight (Ref)(kg/km) 光缆参考重量		TBF Diameter 紧套光纤内径 (Um)	Tensile Strength 允许拉伸力 Long/Short term 长期/短期 (N)	Crush Resistance 允许压麻力 Long/Short term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
		PVC Jacket PVC 护套	LSZH Jacket LSZH护套				
1.6	1.6±0.2	2.4	2.6	600±50	40/80	100/500	60/30
1.9	1.9±0.2	3.5	4.5	900±50	60/100	100/500	60/30
2.8	2.8±0.2	6.0	7.5	900±50	60/100	100/500	60/30

Optical Characteristics光学特性

Attenuation						Effective Mode】。 Gbit/s Ethernet Bandwidth Link Length		Minimum Bend Radius 最小弯曲半径
Fiber Type 光纤类型	1310/1550nm		850/1300nm		OFL 满注入带宽 850/1300nm	但戏牒武带 但戏牒武带	ube以K啁谜姑长辰 850nm	
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值				
Condition 条件								
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125	—	—	3.0/1.0	3.5/1.5	>500/500	—	—	30
62.5/125	—	—	3.0/1.0	3.5/1.5	>200/500	—	—	30
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	N2000	W300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	N4700	W550	30

Duplex 8 shaped Cable
双芯8字型光缆

Description 产品描述

Duplex8 shaped cable use 0900pm or 0600jim tight buffer fiber as optical communication medium, the tight buffer fiber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a figures PVC or LSZH (Low-smoke, Zero halogen, Flame-retardant) jacket.

双芯8字形光紙使用0900nm或(P600um紧套光纤作为光传输介质，外覆一层芳纶作为受力加强单元,最外挤制一层8字形聚氟乙烯(PVC)或低烟无卤材料(LSZH,低烟、无卤、阻燃)护套而成。

低烟无卤材料(LSZH) 低烟、无卤、阻燃/护套用

Characteristics 产品特点

- Tight buffer fiber easy of stripping 采用紧套光纤，便于剥离使用
- Tight buffer fiber has excellent flame-retardant performance 紧套光纤有良好的阻燃性能
- Aramid yarn as strength member make cable have excellent tensile strength 芳纶加强元件，使光缆有优异的抗拉性能
- Figure 8 structure jacket facilitate embranchment 8字形结构护套易于剥开分支使用
- The outer jacket material has many advantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc. 外护材料耐腐蚀，防水，防紫外，阻燃，环保等优点

Applications 产品应用

- Duplex Optical fiber jumper or pigtail 双工光纤活动连接跳线或尾纤
- Indoor riser level and plenum level cable distribution 室内竖井级和强制通风级布线
- Interconnect between instruments, communication equipment 仪器、通信设备互联

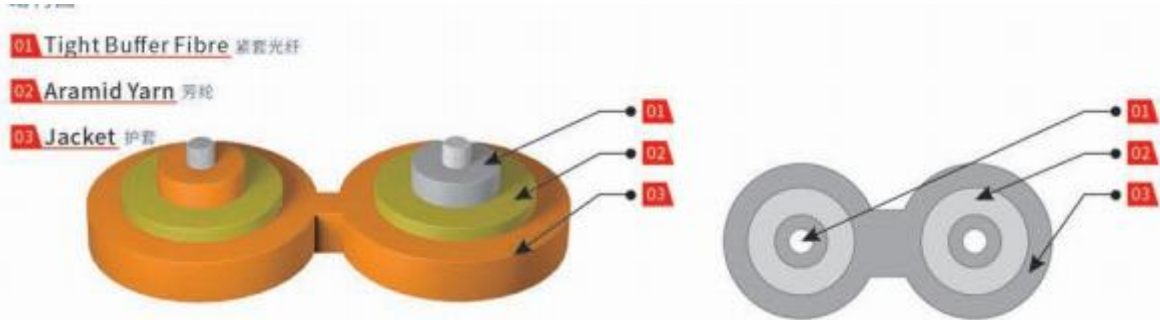
Standards 产品标准

Comply with Standard YD/T 1258.2, ICEA-596, GR-409, IEC 60794-2-10/11, etc.; and PVC cable meet the requirements of UL approval OFNR and OFNP; Different LSZH jacket meet IEC 60332-1 or IEC 60332-3C or OFNR certification.

满足YD/T 1258.2、ICEA-596、GR-409、IEC 60794-2-10/11等标准；除了普通的PVC产品外，还有分别通过ULOFNR、OFNP认证的产品；LSZH产品选用不同材料，可以满足IEC60332-1或压C60332-3C或OFNR认证。

Structure Drawing 结构图

Structure Drawing
结构图



Specifications 参数

Technical Parameters 结构参数

Cable Model 光缆型号	Cable Diameter (Ref) 光缆参考直径 (mm)	Cable Weight (Ref)(kg/km) 光缆参考重盘		TBF Diameter 紧套光纤直径 (μm)	Tensile Strength 允许拉伸力 Long/Short term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
		PVC Jacket PVC护套	LSZH Jacket LSZH护套				
1.6	(3.4±0.3)X(1.6±0.3)	4.8	5.3	600±50	40/80	100/500	60/30
1.9	(4.0±0.3)X(1.9±0.3)	8.0	8.7	900±50	60/100	100/500	60/30
2.8	(5.8±0.3)X(2.8±0.3)	11.6	14.8	900±50	60/100	100/500	60/30

Optical Characteristics 光学特性

Attenuation

Fiber Type 光纤类型	1310/1550nm 衰减				OFL 满注入带宽 850/1300nm	Effective Mode J . Gbit/s Ethernet Bandwidth Link Length 有效模式带宽/链路长度		Minimum Bend Radius 最小弯曲半径
	Typical Value 典型IS	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值		850nm	850nm	
Condition 条件						850nm	850nm	/
Unit 单位	dB/km	dB/km	dB/km	dB/km	M HZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125	—	—	3.0/1.0	3.5/1.5	>500/500	—	—	30
62.5/125	—	—	3.0/1.0	3.5/1.5	>200/500	—	—	30
Om3	—	—	3.0/1.0	3.5/1.5	N1500/500	>2000	<300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	N4700	W550	30

Multi-Purpose Break-out Cable

多用途布线光缆

Description 产品描述

Multi-purpose break-out cable use simplex cable (。900 μm tight buffer fiber, aramid yarn as strength member) as subunit. A fiber enforced plastic (FRP) locates in the center of core as a non-metallic strength member. The subunits are stranded around the cable core. The cable is completed with a PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

多用途光缆使用单芯光缆 (0)900 μm紧套光纤、芳纶加强元件)作为子单元，非金属中心加强芯，光缆子单元层绞于中心加强芯形成缆芯，程 外挤制一层聚氯乙烯(PVC)或低烟无卤材料(LSZH,低烟、无卤、阻燃)护套而成。

Characteristics 产品特点

- Stranded non-metallic strength member structure ensure the cable endure larger tensile strength 层绞式光缆结构，非金属中心加强芯使光缆可以承受更大的拉力
- The outer jacket material has many advantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment. 外护材料耐腐蚀，防水，防紫外，阻燃，环保等优点
- Aramid yarn as strength member make cable have excellent tensile strength 芳纶加强元件，使光缆有优异的抗拉性能

Applications 产品应用

- Indoor any purpose cable distribution 室内的综合布线
- Backbone distribution cable in a building 作为大楼的主干布线光缆

Standards 产品标准

Comply with Standard YD/T 1258.4, ICEA-596, GR-409, IEC 60794-2-2021, etc.; and PVC cable meet the requirements of UL approval OFNR; Different LSZH jacket meet IEC 60332-1orIEC 60332-3C.

满足YD/T 1258.4、ICEA-596、GR-409、IEC 60794-2-20/21等标准；除了普通的PVC产品外，还有分别通过UL OFNR认证的产品；LSZH产品 选用不同材料，可以满足IEC60332-1或IEC60332-3G

Structure Drawing 结构图

Structure Drawing
结构图

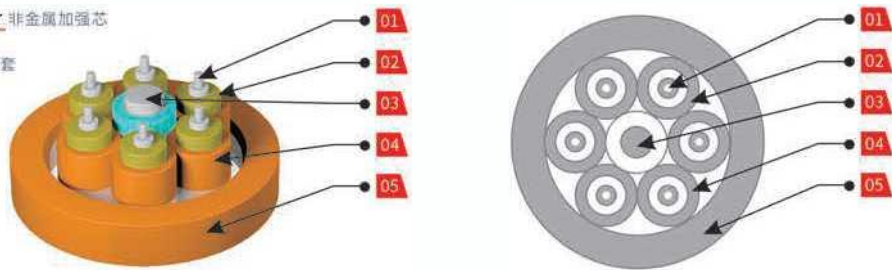
Tight Buffer Fiber 紧套光纤

Aramid Yarn 芳纶

FRP Strength Member 非金属加强芯

Subunit Jacket 子单元护套

Jacket 护套



Specifications 参数

Technical Parameters 结构参数

Cable Model 光缆型号	Cable Diameter (Ref) 光缆参考直径 (mm)	Cable Weight (Ref)(kg/km) 光缆参考重量SI		Tensile Strength 允许 拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short-term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
		PVC Jacket PVC护套	LSZH Jacket LSZH护套			
04	7.4±0.5	50	56	130/440	300/1000	20D/10D
06	8.4±0.5	66	74	200/660	300/1000	20D/10D
08	9.8±0.5	91	101	200/660	300/1000	20D/10D
12	12.4±0.5	140	155	200/660	300/1000	20D/10D
24	14.4±0.5	181	201	400/1320	300/1000	20D/10D
36	16.4±0.5	208	255	400/1320	300/1000	20D/10D
48	19±0.5	280	344	400/1320	300/1000	20D/10D

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽 850/1300nm	Effective Mode】。Gbit/s Ethernet		Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm			Bandwidth 有效模式带宽	Link Length 10G以太网链路长度	
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值		850nm	850nm	
Condition 条件								
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MH 乙 km	m	mm
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125	—	—	3.0/1.0	3.5/1.5	>500/500	—	—	30
62.5/125	—	—	3.0/1.0	3.5/1.5	N200/500	—	—	30
Om3		—	3.0/1.0	3.5/1.5	>1500/500	N2000	W300	30
Om4			3.0/1.0	3.5/1.5	N3500/500	>4700	W550	30

Multi-Purpose Distribution
Cable (≤24f)
(≤24f)多用途布线光缆

Description产品描述

Multi-purpose distribution cable uses several (P900 12m flame-retardant tight buffer fiber as optical communication medium, the tight buffer fiber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a PVC or LSZH (Low smoke, Zero halogen, Flame-retardant)jacket.

多用途布线光缆使用多根<D900nm阻燃紧套光纤作为光传输介质, 外覆一层芳纶作为受力加强单元,最外挤制一层聚氯乙烯(PVC)或低烟无卤材料(LSZH 低烟、无卤、阻燃)护套而成。

Characteristics产品特点

- Tight buffer fiber easy of stripping
采用紧套光纤, 便于剥离使用
- Tight buffer fiber has excellent flame-retardant performance
紧套光纤有良好的阻燃性能
- Aramid yarn as strength member make cable have excellent tensile strength 芳纶加强元件, 使光缆有优异的抗拉性能
- The outer jacket material has many advantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
外护材料耐腐蚀, 防水, 防紫外, 阻燃, 环保等优点

Applications产品应用

- Indoor any purpose cable distribution
室内的综合布线
- Backbone distribution cable in a building
作为大楼的主干布线光缆
- Multi optical fiber jumper
多芯光纤活动连接跳线

Standards产品标准

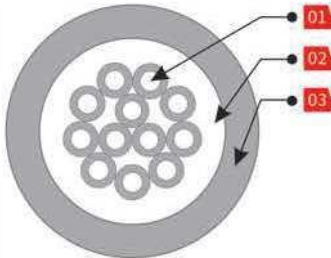
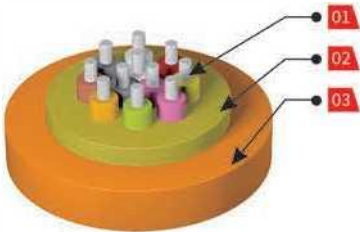
Comply with Standard YD/T 12584, ICEA596, GR-409, IEC 60794-2-20/21, etc.; and PVC cable meet the requirements of UL approval OFNR and OFNP. Different LSZH jacket meet IEC 60332-1 or IEC 60332-3C.

满足YD/T 1258.4、ICEA-596、GR-409、IEC 60794-2-20/21等标准; 除了普通的PVC产品外, 还有分别通过ULOFNR、OFNP认证的产品; LSZH产品选用不同材料, 可以满足IEC60332-1或IEC60332-3C。

Structure Drawing结构图

Structure Drawing
结构图

- 01 Buffer Fiber 光纤涂层
- 02Aramid Yarn 芳纶纱
- 03Jacket :



Specifications参数

Technical Parameters结构参数

Cable Model 光缆型号	Cable Diameter (Ref) 光缆参考直径 (mm)	Cable Weight (Ref)(kg/km) 光缆参考重量		Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short-term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
		PVC Jacket PVC 护套	LSZH Jacket LSZH护套			
04	4.8±0.3	16	18	130/440	300/1000	20D/10D
06	5.1±0.3	20	23	130/440	300/1000	20D/10D
08	5.6±0.3	27	31	130/440	300/1000	20D/10D
12	6.2±0.3	32	31	130/440	300/1000	20D/10D
24	8.1±0.3	53	57	200/660	300/1000	20D/10D

Optical Characteristics光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽	Effective Mode】。Gbit/s Ethernet Bandwidth 有效模式带宽		Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm			Link Length 10G以太网链路长度		
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值				
Condition 条件					850/1300nm	850nm	850nm	/
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	J	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125	— ;	—	3.0/1.0	3.5/1.5	>500/500	—	—	30
62.5/125	—	—	3.0/1.0	3.5/1.5	>200/500	—	—	30
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	>2000	<300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	<550	30

Multi-Purpose Distribution
Cable (≤24f)
(≤24f)多用途布线光缆

Description 产品描述

Multi-purpose distribution cable use multi-fiber subunits (①900µm tight buffer fiber, aramid yarn as strength member). A fiber reinforced plastic (FRP) locates in the center of core as a non-metallic strength member. The subunits are stranded around the cable core. The cable is completed with a PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

多用途布线光缆使用多芯子单元(6900 µm紧套光纤、芳纶加强元件), 非金属中心加强芯, 光缆子单元层绞于中心加强芯形成缆芯, 最外层 制一厚聚氯乙烯(PVC)或低烟无卤材料(LSZH,低烟、无卤、阻燃)护套而成。

Characteristics 产品特点

- Stranded non-metallic strength member structure ensure the cable endure larger tensile strength 层绞式光缆结构, 非金属中心加强芯使光缆可以承受更大的拉力
- Tight buffer fiber has excellent flame-retardant performance 紧套光纤有良好的阻燃性能
- Aramid yarn as strength member make cable have excellent tensile strength 芳纶加强元件, 使光缆有优异的抗拉性能
- The outer jacket material has many advantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc. 外护材料耐腐蚀, 防水, 防紫外, 阻燃环保等优点

Applications 产品应用

- Indoor any purpose cable distribution 室内的综合布线
- Backbone distribution cable in a building 作为大楼的主干布线光缆
- Multi optical fiber jumper 多芯光纤活动连接跳线

Standards 产品标准

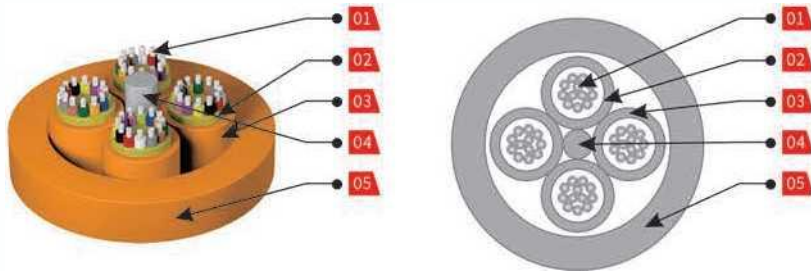
Comply with Standard YD/T 1258.4, ICEA-596, GR-409, IEC 607942-20/21, etc.; and PVC cable meet the requirements of UL approval OFNR and OFNP. Different LSZH jacket meet IEC 60332-1or IEC 60332-3c.

满足YD/T 1258.4/ICEA-596,GR-409/IEC 60794-2-20/21等标准; 除了普通的PVC产品外, 还有分别通过UL OFNR, OFNP认证的产
品; LSZH产品选用不同材料, 可以满足IEC60332-1或IEC60332-3Q

Structure Drawing 结构图

Structure Drawing
结构图

- 01Fibre 光纤
- 02Sub-unit 子单
- 03 Aramid Yarn 芳纶
- 04 Central Strength Member 中心加强芯
- 05Jacket 护套



Specifications 参数

Technical Parameters 结构参数

Cable Model 光缆型号	Cable Diameter (Ref) 光缆参考直径 (mm)	Cable Weight (Ref)(kg/km) 光缆参考重量		Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short-term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
		PVC Jacket PVC 护套	LSZH Jacket LSZH护套			
24	12.3±0.5	117	124	200/660	300/1000	20D/10D
36	14.5±0.5	171	180	200/660	300/1000	20D/10D
48	14.8±0.5	161	170	400/1320	300/1000	20D/10D
72	17.5±0.5	244	254	400/1320	300/1000	20D/10D
96	20.7±0.5	351	366	400/1320	300/1000	20D/10D
144	24.8±0.5	54433	451	400/1320	300/1000	20D/10D

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				Effective Mode Bandwidth Link Length 有效模式带宽链路长度	Minimum Bend Radius 最小弯曲半径	
	1310/1550nm		850/1300nm				
Condition 条件	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值	OFL 满注入带宽		
Unit 单位					850/1300nm	850nm	850nm
	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—
50/125	—	—	3.0/1.0	3.5/1.5	>500/500		J
62.5/125	—	—	3.0/1.0	3.5/1.5	>200/500	—	—
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	>2000	<300
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	N4700	W550

MPO Cable (MPO W24f)

(MPO W24f)室内多芯微型光缆

Description 产品描述

Multi Fiber Indoor cable use several 6250 μm colored fiber as optical communication medium, the colored fiber wrapped with a layer of aramid yar as strength member units, and the cable is completed with a PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

室内多芯德型光提使用多根着色光纤作为光传输介质，外携一层芳纶作为受力加强单元，据外挤制•层聚氯乙協(PVC)或低烟无卤材料(LSZH,低烟、无卤、阻燃)护套而成。

Characteristics 产品特点

- High-integrated colored bare fiber design
采用着色光纤，集成度高
- Aramid yam as strength member making cable have excellent tensile strength performance
芳纶加强元件，使光缆有优异的抗拉性能
- The outer jacket material has many advantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
外护材料耐腐蚀，防水，防紫外，阻燃，环保等优点

Applications 产品应用

- Indoor any purpose cable distribution
室内的综合布线
- Data center cable
数据中心

Standards 产品标准

Comply with Standard YD/T 12584, ICEA-596, GR-409, IEC 60794-2-20/21, etc.; and PVC cable meet the requirements of UL approval OFNR and OFNP Different LSZH jacket meet IEC 60332-1 or IEC 60332-3C.

满足YD/T 1258.4、ICEA-596、GR-409、IEC 60794-2-20/21等标准；PVC分别通过ULOFNR OF NPA证的产品；LSZH产品选用不同材料，可 以满足 IEC60332-1或 IEC60332-3C。

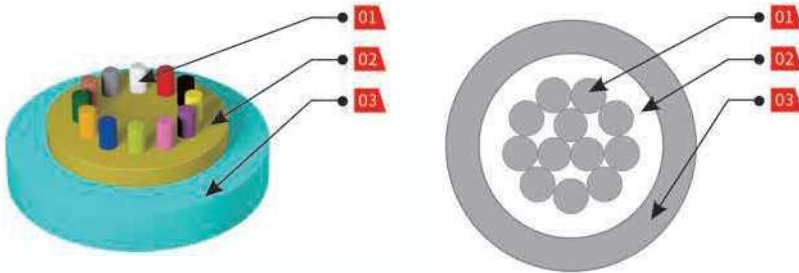
Structure Drawing 结构图

Structure Drawing
结构图

01 Fiber 光纤

02 Aramid Yarn 芳纶纱

03 Jacket :护套



Technical Parameters结构参数

Cable Model 光缆型号	Cable Diameter (Ref) 光缆参考直径 (mm)	Cable Weight (Ref)(kg/km) 光缆参考重量		Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
		PVC Jacket PVC护套	LSZH Jacket LSZH护套		
12	3.0±0.2	4.8	6.3	30/100	20D/10D
24	3.6±0.2	6.5	8.0	50/150	20D/10D

Optical Characteristics光学特性

Attenuation						Effective Model Gbit/s Ethernet		Minimum Bend Radius 最小弯曲半径	
Fiber Type 光纤类型		&减		OFL 满注入带宽 850/1300nm	Bandwidth 有效模式带宽	Link Length 10G以太网链路长度			
Condition 条件	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值		Maximum Value 最大值	850nm	850nm		
Unit 单位	dB/km	dB/km	dB/km		dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	—		—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10	
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5	
50/125	—	—	3.0/1.0	3.5/1.5	>500/500	—	—	30	
62.5/125	—	—	3.0/1.0	3.5/1.5	>200/500	—	—	30	
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	>2000	<300	30	
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	W550	30	

Transportation/ Storage/Operating Temperature: -20°C~+60°C, Installation Temperature: -5°C~+50°C 运输/储存/使用温度: -20°C~+60°C,安装温度:-5°C~+50°C

MPO Cable (MPON24f)
(MPON24f)室内多芯微型光缆

Description 产品描述

Micro fiber indoor cable use 12-fiber subunits (中250pm colored fiber, aramid yam as strength member). A fiber reinforced plastic (FRP) locates in the center of core as a non-metallic strength member. The subunits are stranded around the cable core. The cable is completed with a PVC or LSZH (Low smoke, Zero halogen, Flame retardant) jacket.

MFC多芯微型光缆使用12芯子单元(<P250pmS色光纤、芳纶加强元件), 非金属中心加强芯, 光缆子单元层绞于中心加强芯形成缆芯, 最外挤制一层聚氯乙烯(PVC)或低烟无卤材料(LSZH,低烟、无卤、阻燃)护套而成。

Characteristics 产品特点

- High-integrated colored bare fiber design
采用石色光纤, 集成度高
- Aramid yam as strength member making cable have excellent tensile strength performance 芳纶加强元件, 使光缆有优异的抗拉性能
- The outer jacket material has many advantages such as anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
外护材料耐腐蚀, 防水, 防紫外, 阻燃, 环保等优点

Applications 产品应用

- Indoor any purpose cable distribution
室内的综合布线
- Data center cable
数据中心

Standards 产品标准

Comply with Standard YD/T 12584, ICEA.596, GR-409, IEC 60794-2-20/21, etc.; and PVC cable meet the requirements of UL approval OFNR and OFNP. Different LSZH jacket meet IEC 60332-lorIEC 60332-3C.

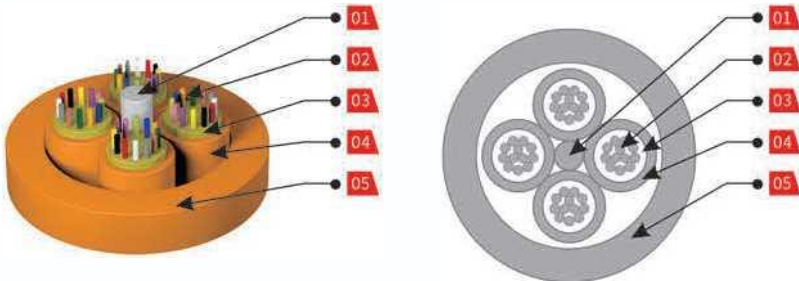
满足YD/T 1258.4JCEA-596.GR-409JEC 60794-2-20/21等标准; PVC分别通过ULOFNR. OF NPA证的产品; LSZH产品选用不同材料, 可以满足 IEC60332-1或 IEC60332-3C

Structure Drawing 结构图

Structure Drawing
结构图

Central Strength Membrane 加强芯

- 01 Fiber
- 02 Ara mid Yarn 芳纶
- 03 Sub-unit 单元
- 04 Jacket :护套



Specifications 参数

Technical Parameters结构参数				Tensile Strength 允许拉伸力 Long/Short term 长期/短期 (N)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
Cable Model 光缆型号	Cable Diameter (Ref) 光缆参考直径 (mm)	Cable Weight (Ref)(kg/km) 光缆参考更星			
		PVC Jacket PVC护套	LSZH Jacket LSZH护套		
24	9.6±0.3	64	72	150/500	20D/10D
36	9.6±0.3	64	72	150/500	20D/10D
48	9.6±0.3	64	72	150/500	20D/10D
72	11.3±0.3	92	103	150/500	20D/10D
96	13.3±0.3	129	146	150/500	20D/10D
144	15.5±0.3	160	250	150/500	20D/10D
168	15.5±0.3	150	250	150/500	20D/10D

Optical Characteristics光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽 850/1300nm	Effective Mode】。Gbit/s Ethernet		Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm			Bandwidth 有效模式带宽	Link Length 10G以太网链路长度	
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值		850nm	850nm	
Condition 条件								/
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—		7.5
50/125	—	—	3.0/1.0	3.5/1.5	>500/500	—	—	30
62.5/125	J	—	3.0/1.0	3.5/1.5	>200/500	—	—	30
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	N2000	W300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	<550	30

Transportation/ Storage/Operating Temperature: -20°C~+60°C, Installation Temperature: -5°C~+50°C 运输/储存/使用温度: -20°C~+60°C,安装温度: -5°C~+50°C

Flat Fiber Ribbon Cable

带状扁平光缆

Description 产品描述

Flat ribbon fiber cable use fiber ribbon as optical communication medium. Then wrapped with a layer of aramid yam as strength member units, and the cable is completed with LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

光纤带扁平光缆使用光纤带作为光传输介质，外覆一层芳纶作为受力加强单元，最外挤制一层聚氯乙烯(PVC)或低烟无卤材料(LSZH, 低烟、无卤、阻燃)护套而成。

Characteristics 产品特点

- High-integrated fiber ribbon design
采用光纤带，集成度高
- Aramid yarn as strength member making cable have excellent tensile strength performance
芳纶加强元件，使光缆有优异的抗拉性能
- The outer jacket material has many advantages such as anti-corrosion, waterproof, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
外护材料耐腐蚀，防水，防紫外，阻燃，环保等优点

Applications 产品应用

- Indoor cable distribution
室内布线
- Interconnect between instruments, communication equipment
仪器、通信设备互联
- Ribbon optical fiber jumper and pigtail
带状连接跳线

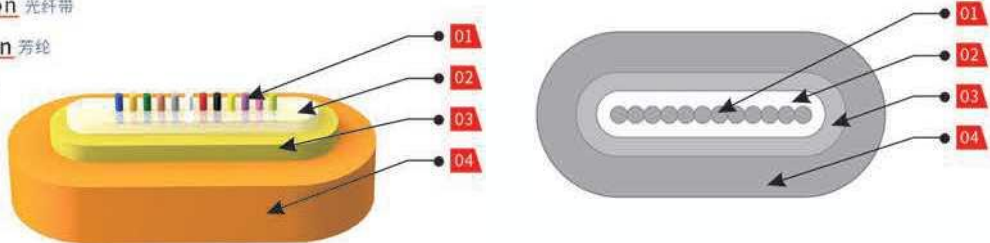
Standards 产品标准

Comply with Standard YD/T 1258.5、ICEA-596、GR-409. IEC 60794-2-30, etc., and PVC cable meet the requirements of UL approval OF Nand OF NP: Different LSZH jacket meet IEC 60332-lor IEC 60332-3C certification.
满足YD/T 1258.5、ICEA-596、GR-409、IEC 60794 2 30等标准;除了普通的PVC产品外，还有分别通过ULOFNR、OFNP认证的产品;LSZH产 品选用不同材料，可以满足IEC60332-1或IEC60332-3Ci人证。

Structure Drawing 结构图

Structure Drawing
结构图

- 01 Fibre 光纤
- 02 Fibre Ribbon 光纤带
- 03 Aramid Yarn 芳纶
- 04 Jacket 护套



Specifications 参数

Technical Parameters 结构参数

Cable Model 光缆型号	Cable Size (Ref) 光缆参考尺寸 (mm)	Fiber Count 光纤芯数组成	Cable Weight (Ref)(kg/km) 光缆参考重量		Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short-term 长明/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
			PVC Jacket PVC护套	LSZH Jacket LSZH护套			
4	(3.7±0.3)* (2.3±0.3)	4 Fiber Ribbon 光纤带	4.7	6.6	80/150	300/1000	25D/12.5D
6	(4.2±0.4)* (2.5±0.2)	6 Fiber Ribbon 光纤带	5.1	7.3	80/150	300/1000	25D/12.5D
12	(4.8±0.34)* (2.3±0.3)	12FiberRibbon 光纤带	5.9	8.0	80/150	300/1000	25D/12.5D

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽	Effective Mode】。Gbit/s Ethernet		Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm			Bandwidth 有效模式带宽	Link Length 10G以太网链路长度	
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值		850nm	850nm	
Condition 条件					850/1300nm	850nm	850nm	/
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125	—		3.0/1.0	3.5/1.5	>500/500	A'.	—	30
62.5/125	—	—	3.0/1.0	3.5/1.5	>200/500	—	—	30
Om3	—		3.0/1.0	3.5/1.5	^1500/500	>2000	W300	30
Om4	—	—	3.0/1.0	3.5/1.5	^3500/500	>4700	W550	30

Transportation/ Storage/Operating Temperature: -20°C-+60°C, Installation Temperature: -5°C-+50°C 运输/储存/使用温度: -20°C-+60°C,安装温度: -5X-+50°C

Indoor Ribbon Cable (GJFDV)
(GJFDV)室内光纤带光缆

Description 产品描述

Indoor ribbon fiber cable use fiber ribbon(s) as optical communication medium. Fiber ribbon(s) put in loose tube, then wrapped with a layer of aramid yarn as strength member units, and the cable is completed with PVC jacket.

室内光纤带光缆使用光纤带作为光传输介质，将光纤带套入高模量材料制成的松套管中，再包覆一层芳纶加强元件。最外挤制一层聚氯乙烯 (PVC)护套而成。

Characteristics 产品特点

- High-integrated fiber ribbon design
采用光纤带，集成度高
- Aramid yarn as strength member making cable have excellent tensile strength performance 芳纶加强元件，使光缆有优异的抗拉性能
- The outer jacket material has many advantages such as anti-corrosion, waterproof, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
外护材料耐腐蚀，防水，防紫外，阻燃，环保等优点

Applications 产品应用

- Indoor cable distribution
室内布线
- Interconnect between instruments, communication equipment 仪器、通信设备互联

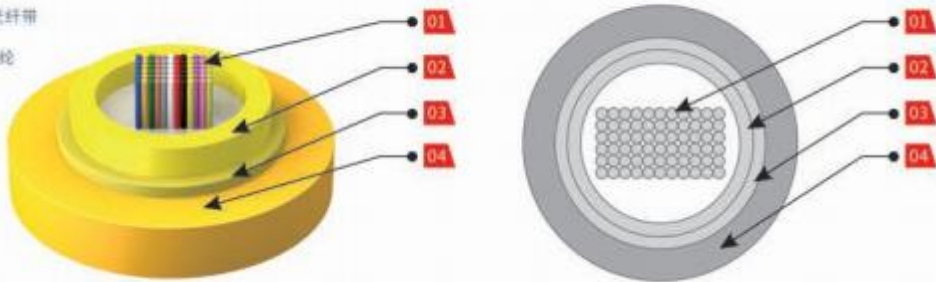
Standards 产品标准

Comply with Standard YD/T 1258.5、ICEA-596、GR-409、IEC 60794-2-30, etc. 满足 YD/T 1258.5、ICEA-596、GR-409、IEC 60794 2 30等标准。

Structure Drawing 结构图

Structure Drawing
结构图

- 01 Fibre 光纤
- 02 Fibre Ribbon 光纤带
- 03 Aramid Yarn 芳纶
- 04 Jacket 护套



Specifications 参数

Technical Parameters 结构参数

Cable Model 光缆型号	Fiber Count 光纤芯数组成	Cable Weight (Ref) 光缆参考重風 (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压力 Long/Short-term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GJFDV-48	12FX4	84	200/660	300/1000	25D/12.5D
GJFDV-72	12FX6	90	200/660	300/1000	25D/12.5D
GJFDV-96	12FX8	100	200/660	300/1000	25D/12.5D
GJFDV-144	12FX12	125	200/660	300/1000	25D/12.5D

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽 850/1300nm	Effective Mode Bandwidth 有效模式带宽		Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm			10G以太网链路长度		
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值		850nm	850nm	
Condition 条件								
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125	—	—	3.0/1.0	3.5/1.5	>500/500	—	—	30
62.5/125	—	T-	3.0/1.0	3.5/1.5	>200/500	—		30
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	>2000	<300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	<550	30

Transportation/ Storage/Operating Temperature: -20°C~+60°C, Installation Temperature: -5°C~+50°C 运输/储存/使用温度: -20X~+60°C,安装温度: -5°C~+50°C

Mobile Cable
移动光缆

Description 产品描述

Mobile cable use several <P900 ³m flame-retardant tight buffer fibers as optical communication medium, the tight buffer fibers wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a PUR jacket.
移动光紙使用多根<900pm阻燃紧套光纤作为光传输介质，外覆一层芳纶作为受力加强单元，畿外挤制一层聚氨酯(PUR)护套而成。

Characteristics 产品特点

- Tight buffer fiber easy of stripping
采用紧套光纤，便于剥离使用
- Aramid yarn as strength member making cable have excellent tensile strength performance
芳纶加强元件，使光缆有优异的抗拉性能
- The outer jacket material has many advantages such as anti-corrosion, waterproof, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
外护材料耐腐蚀，防水，防紫外，阻燃，环保等优点

Applications 产品应用

- Military communication system cable distribution 军队野外通信系统布线
- Communication between radars or in oil field, mining work place 油田、采矿作业、雷达等通信传输

Standards 产品标准

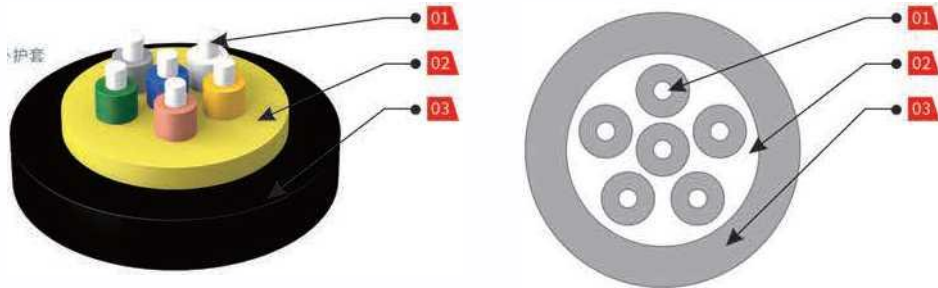
Comply with Standard YD/T 1258.4, ICEA-596, GR-409, IEC 60794, etc. 满足 YD/T 1258.4、ICEA-596、GR-409, IEC 60794等标准。

Structure Drawing 结构图

Structure Drawing
结构图

Tight Buffer Fiber 紧套光纤

Aramid Yarn 芳纶



Specifications 参数

Technical Parameters 结构参数

Cable Model 光缆型号	Fiber Count 光纤芯数组成	Cable Weight (Ref) 光缆参考重量 (kg/km)	Tensile Strength 允许拉伸力 Long/Short term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
2	6.0±0.3	84	30	1000/5000	20D/10D
4	6.0±0.3	84	30	1000/5000	20D/10D
6	6.0±0.3	84	30	1000/5000	20D/10D

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽 850/1300nm	Effective Mode Bandwidth 有效模式带宽 10G以太网链路长度		Minimum Bend Radius 最小弯曲半径	
	1310/1550nm		850/1300nm			850nm	850nm		
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值					
Condition 条件	Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G657A1		0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2		0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125		—	—	3.0/1.0	3.5/1.5	>500/500	—	—	30
62.5/125		—	—	3.0/1.0	3.5/1.5	>200/500	—	—	30
Om3		—	—	3.0/1.0	3.5/1.5	>1500/500	>2000	W300	30
Om4		—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	<550	30

Transportation/ Storage/Operating Temperature: -20°C~+60°C, Installation Temperature: -5°C~+50°C 运输/储存/使用温度: -20°C~+60°C,安装温度: -5°C~+50°C

Bow-type Drop Cable (GJXFH)
(GJXFH)接入网用蝶形引入室内光缆

Description 产品描述

The optical fiber unit is positioned in the center. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. Then the cable is completed with a black or color LSZH sheath.
接入网用蝶形引入室内光缆是将光通信单元处于中心，两侧放置两根平行非金属加强元件(FRP),最后，挤制黑色或彩色低烟无卤护套成缆。

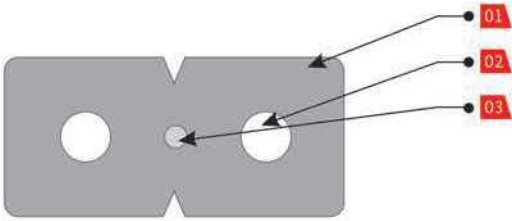
Characteristics 产品特点

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission property
特种时弯光纤，提供更大的带宽，增强网络传输特性
- Two parallel FRP strength members ensure good performance of crush resistance to protect the fiber 两根平行FRP使光缆具有良好的抗压性能，保护光纤
- Simple structure, light weight and high practicability
光缆结构简单，重量最轻，实用性强
- Novel flute design, easily strip and splice, simplify the installation and maintenance 独特的凹槽设计，易剥离，方便接续，简化安装和维护
- Low smoke, zero halogen and flame retardant sheath
低烟无卤阻燃护套，环保

Structure Drawing 结构图

Structure Drawing
结构图

P1LSZH Jacket: LSZH 护套
FRP Strength Member : FRP 加强件
Optical Fiber Unit :光通信单元



Specifications 参数

Technical Parameters 结构参数

Cable Model 光缆型号	Fiber Count 光纤芯数组成	Cable Size 光缆尺寸 (mm)	Cable Weight (Ref) 光缆参考重量 (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short-term 长明/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GJXFH-IXn	1	(2.0±0.1)*(3.0±0.1)	8	40/80	500/1000	15/30
GJXFH-2Xn	2	(2.0±0.1)*(3.0±0.1)	8.5	40/80	500/1000	15/30
GJXFJH-IXn	1	(2.0±0.1)*(3.8±0.1)	9	40/80	500/1000	15/30
GJXFDH-4Xn	4 (Ribbon)	(2.0±0.2)*(4.0±0.2)	10	40/80	500/1000	15/30

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽	Effective Mode】。Gbit/s Ethernet		Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm			Bandwidth 有效模式带宽	Link Length 10G以太网链路长度	
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值		850nm	850nm	
Condition 条件					850/1300nm	850nm	850nm	/
Unit 单位	dB/km	dB/km	dB/km	dB/km	M HZ.km	MHZ.km	m	mm
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	>2000	W300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	<550	30

Self-supporting Bow-type Drop Cable (GJYXFCH)

(GJYXFCH)自承式接入网用蝶形引入 室内光缆

Description 产品描述

The optical fiber unit is positioned in the center. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. A steel wire as the additional strength member is also applied. Then, the cable is completed with a black or color LSZH sheath.

自承式接入网用蝶形引入室内光统是将光通信单元处于中心，两侧放置两根平行非金属加强元件(FRP),在外侧再附加一根钢丝加强元件，最后，挤制黑色或彩色任烟无卤护套成缆。

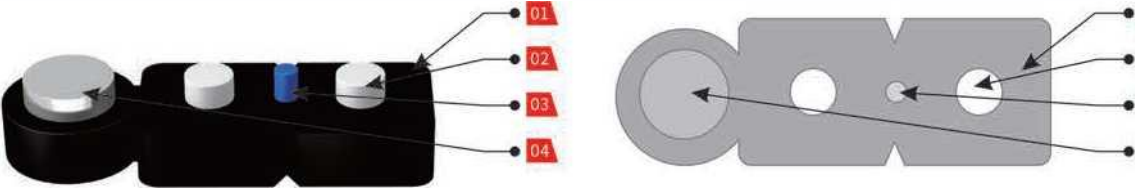
Characteristics 产品特点

- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission proper 特种耐弯光纤，提供更大的带宽，增强网络传输特性
- Two parallel FRP strength members ensure good performance of crush resistance to protect the fiber 两根平行FRP使光缆具有良好的抗压性能，保护光纤
- Single steel wire as the additional strength member ensures good performance of tensile strength
 - 单根钢丝附加加强元件，使光缆具有良好好的抗拉性能
 - Simple structure, light weight and high practicability 光缆结构简单，重最轻，实用性强
- Novel flute design, easily strip and splice, simplify the installation and maintenance 独特的凹槽设计，易剥离，方便接续，简化安装和维护
- Low smoke, zero halogen and flame retardant sheath 低烟无卤阻燃护套，环保

Structure Drawing 结构图

Structure Drawing

- LSZH Jacket LSZH 外护套
- FRP Strength Member FRP 加强件
- Optical Fiber Unit 单元
- Steel Wire 钢丝



Specifications 参数

Technical Parameters 结构参数

Cable Model 光缆型号	Fiber Count 芯数	Cable Size 光缆尺寸 (mm)	Cable Weight (Ref) 光缆参考重量 (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short term 长朗/短期 (N/IOOmm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GJYXFCH-IXn	1	(2.0±0.1)*(5.0±0.1)	20	300/600	1000/2200	15/30
GJYXFCH-2Xn	2	(2.0±0.1)*(5.0±0.1)	20	300/600	1000/2200	15/30
GJYXFCJH-IXn	1	(2.0±0.1)*(5.6±0.1)	21	300/600	1000/2200	15/30
GJYXFCDH-4Xn	4 (Ribbon)	(2.0±0.2)*(6.0±0.2)	22	300/600	1000/2200	15/30

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽 850/1300nm	Effective Mode】。Gbit/s Ethernet Bandwidth 有效模式带宽		Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm			Link Length 10G以太网链路长度		
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值				
Condition 条件						850nm	850nm	/
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	m	mm
G657A1	0.36/0.22	0.5/0.4	—	—	■—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	L	—	—	7.5
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	N2000	W300	30
Om4			3.0/1.0	3.5/1.5	>3500/500	>4700	<550	30

Bow-type Drop Cable for Duct(GJYXFHA) (GJYXFHA)

管道用蝶形引入光缆

Description

产品描述

The optical fiber unit is positioned in the center. Two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides. After an aluminum polyethylene laminate (APL) moisture barrier is applied, the cable is completed with a black or color LSZH sheath. Finally, the cable is completed with PE sheath.

接入网用蝶形引入室内光缆是将光通信单元处于中心，两侧放置两根平行非金属加强元件(FRP),挤制黑色低烟无卤护套。外包铝带防潮层，最后挤制PE护套成缆。

Characteristics

产品特点

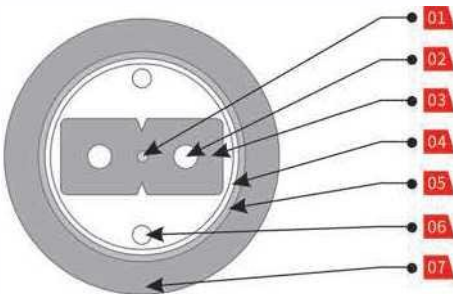
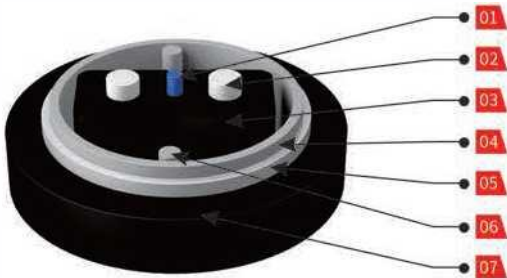
- Special low-bend-sensitivity fiber provides high bandwidth and excellent communication transmission proper 特种耐弯光纤，提供更大的带宽，增强网络传输特性
- Two parallel FRP strength members ensure good performance of crush resistance to protect the fiber 两根平行FRP使光缆具有良好的抗压性能，保护光纤
- Simple structure, light weight and high practicability 光缆结构简单，重最轻，实用性强
- Novel flute design, easily strip and splice, simplify the installation and maintenance 独特的凹槽设计，易剥溜，方便接续，简化安装和维护
- Low smoke, zero halogen and flame retardant sheath 低烟无卤阻燃护套，环保
- PE sheath protects cable from ultraviolet radiation Pe外护具有很好的抗紫外线性能
- APL moisture barrier 涂塑铝带(APL)防潮层

Structure Drawing

结构图

Structure Drawing
结构图

- Fiber 光缆
- FRP Strength Member FRP加强芯
- LSZH Jacket低烟无卤护套
- Water-blocking Tape 阻水带
- aluminum tapes 会塑铝带
- Strength Member 加强层
- PE Jacket Pe护套



Specifications

参数

Technical Parameters

结构参数

Cable Model 光缆型号	Fiber Count 芯数	Cable Size 光缆尺寸 (mm)	Cable Weight (Ref) 光缆参考重量 (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short-term 长期/短期 (N/100mm)	Bending Radius 最小弯曲半径 Dynamic/Static 动态/静态 (mm)
GJYXFHA-1Xn	1	7.3	42	200/600	2000	10D/20D
GJYXFHA-2Xn	2	7.3	42	200/600	2000	10D/20D

Storage/Operating Temperature:-20°C~+60°C
储存、使用温度:-20°C~+60°C

Optical Characteristics

光学特性

Attenuation								
Fiber Type 光纤类型	1310/1550nm		850/1300nm		OFL 满注入带宽	Effective Mode Bandwidth Link Length 有效模带宽链路长度		Minimum Bend Radius 最小弯曲半径
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值				
Condition 条件					850/1300nm	850nm	850nm	/
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHZ.km	MH 乙 km	m	mm
G657A1	0.36/0.22	0.5/0.4	—	—		—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	>2000	<300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	W550	30

Pre-Terminated Round Drop Cable
预端接圆形引入缆

Description 产品描述

Pre-terminated cable offers a robust and sealed connection solution for fiber to the home (FTTH), through a fast and precise connection system, reducing installation time, technical errors, and maintenance. In addition, it guarantees high reliability and durability of the network.

预端接光缆通过快速、精确的连接系统为光纤到户(FTTH)提供稳固且密封的连接解决方案，减少安装时间、技术错误和维护。此外，保证了网络的高可靠性和持久性。

This product is a G657 optical single mode with a reinforced SC/APC connector at one end, and the other end is open, the connector ferrule is zirconium. Cable Construction: G657A1/G657A2 5mm outer cable.

本产品为G657单模光纤,一端为加强型SC/APC连接器，另一端为开口，连接器插芯为锆。电缆结构:G657A1/G657A25mm

Aside connector: Reinforced SC/APC connector per IEC 61754-4

B side connector: open

Cable: 5mm, HDPE, black/gray

A侧连接器: 增强型SC/APC连接器，符合压C 61754-4

B侧连接器: 打开

:5mm,HDPE,黑色/灰色

Structure Drawing 结构图

Structure Drawing
结构图

g900um buffer 900um素套光纤

■ PBT tube pbtk-

Water-blocking fiberglass and aramid yarn fiber buffers
阻水玻璃纤维和芳纶纱纤维

Ripcord

LSZH Jacket低烟无卤护套

g900um buffer 900um靖仁光纤

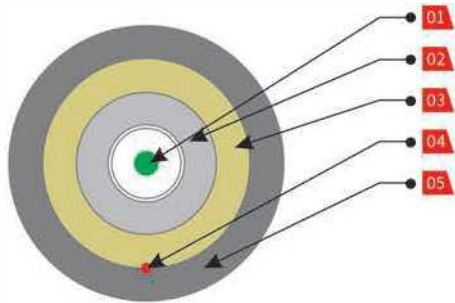
■ inner Sheath

Water-blocking fiberglass and aramid yarn fiber buffers
阻水玻璃纤维和芳纶纱纤维

■ Strength member 加强件

rip cord代裂绳

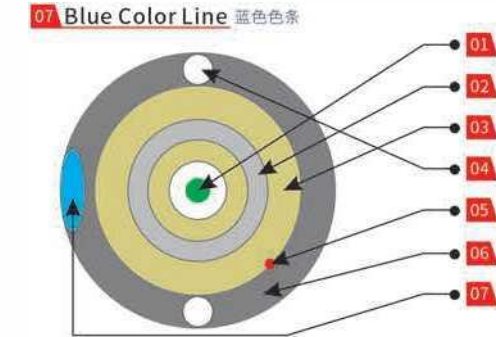
Outer Sheath外护套



Type A款

Connector Details 连接器细节
Model Type E 型号: E型

Color: Black 颜色: 黑色
Material: PC+ABS 材质:PC+ABS



Type B款

Connector: SC/APC 连接器:SC/APC
Applicable cable: 5mm drop cable 适用绳:5mm引入线

Characteristics 产品特点

- Modular design, easy to expand
模块化设计，易于扩展
- It can work and be installed outside
它可以工作并安装在外面
- Protection degree: IP68 防护等级: IP68
- RL:N55dB

Specifications 参数

Optical Specifications 光学参数	
Parameter 范围	Value 数值
Connector Type 连接器类型	E TypeE 型
Connector Insertion Loss (dB) 连接器插入损耗(dB)	IL: W0.3dB Max (J 大)0.3dB + 0.4dB/km * L(km) @ 1310nm Max(最大).0.3dB + 0.35dB/km * L(km) @ 1550nm according to IEC 61300-3-4 Method B 据怀准 IEC61300-3-4 方法B
Connector Return Loss (dB) 连接器回波损耗(dB)	RL(回差):>55dB Min(最小).60dB@ 1310&1550nm According to IEC61300-3-6根据IEC6130036
Cable length (m) 缆长(米)	50,100,150,200,250, etc. 50、100、150、200、250 告
Degree of Protection 防护等级	IP 68

Cable Assembly 光缆组件

Insertion Loss: Max. 0.3dB + 0.35dB/km * L(km) @ 1310nm 插入损耗: 最大0.3dB + 0.35dB/km * L(km) @ 1310nm Max.0.3dB + 0.21dB/km * L(km)@1550nm 最大 O.3dB + o.21dB/km * L(km) @ 1550nm

According to IEC 61300-3-4 Method B 根据 IEC61300-3-4方法 B

Return Loss: Min. 60 dB @ 1310&1550nm 回波损耗: 最小 60 dB@ i310&1550nm

According to IEC61300-3-6根据 IEC61300-3-6

Mechanical Specifications 机械参数

Item 项目	Testing method 测试方法	Requirement 要求
Tensile Strength 拉伸	IEC60794-I-EI(1000N/h) IEC60794-I-EI(1000N/d 时)	Fiber Elongation W0.40% Residual Elongation W 0.05% Attenuation Changed 0.1 dB @1550nm 纤维伸长率 <0.40%残余伸长率<0.05% 衰减变化 W0.1dB@1550nm
Flattening 压扁	IEC 60794-I-E3(1000 N/IOOmm in 15 minutes) IEC 60794-I-E3(15分钟内 IOOON/IOOmm)	Attenuation Change W 0.1 dB @1550nm 衰减变化 W 0.1dB@1550nm
Impact 冲击	IEC 60794-1-2-E4(5N.m impact and D=300mm) IEC60794-I-2-E4(5N.m 冲击 D=300mm)	Attenuation Change W 0.1 dB @1550nm 衰减变化 W0.1dB@1550nm
Torsion 扭转	IEC 60794-I-2-E7(25N load and 10 cycles) IEC60794-I-2-E7(25N 负载和 10个循环)	Attenuation Change W 0.1 dB @1550nm 衰减变化 W0.1dB@1550nm
Curvature 反复弯曲	IEC 60794-I-2-E6(D=100mm and 55N load, 25 cycles) IEC 60794-I-2-E6(D=100mm 和 55N 负载,25个循环)	Attenuation Change W 0.1 dB @1550nm 衰减变化 W 0.1dB @1550nm
Temperature Range 温度范围	IEC 60794-I-2-FI(-15°C ~ + 65°C) 压C 60794-I-2-FI(-15°C ~ +65°C)	Attenuation Change W 0.2 dB @1550nm 衰减变化 W 0.2dB@1550nm
Water Penetration 渗水	IEC 60794-I-2-F5A(3m in length, 1m in height, 24 hrs) IEC60794-12F5A(3m 长, 1m高, 24小时)	End water leak : 末端漏水)
Sheath Shrinkage 护套回缩	EIA-RS-455-86 (85°C,4HRS) EIA-RS-455-86 (85°C,4>J '时)	<5.0%
RoHs(2011/65/EU) RoHs (2011/65/欧盟)	Complies 符合	

Access Building Cable(ABC-I)
(ABC-I)接入光缆

Description 产品描述

The fibers, 0250pm, are positioned in a loose tube made of high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is covered with a layer of glass yarn as strength member. The cable is completed with a LSZH (LSZH, Low-smoke, Zero halogen, Flame-retardant) material Jacket.

ABC-1接入光缆的结构是将0250pm光纤套入高模量材料制成的松套管中，松套管内填充防水材料。松套管外外包覆一层玻璃纤维加强元件，最外挤制一层低烟无卤材料(LSZH,低烟、无卤、阻燃)护套而成。

Characteristics 产品特点

- Good mechanical and temperature performance 具有良好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant 松套管材料本身具有良好的耐水解性能和较高的强度
- Crush resistance and flexibility 良好的抗压性和柔软性
- Glass yarn strength member ensure tensile strength 玻璃纤维加强元件保证光缆的抗拉强度
- Small diameter, light weight and friendly installation 直径小、重量轻、容易敷设

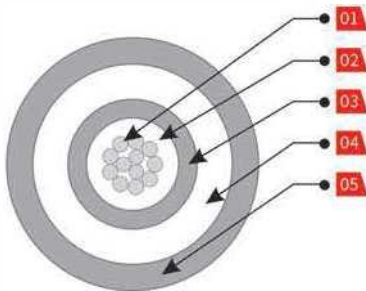
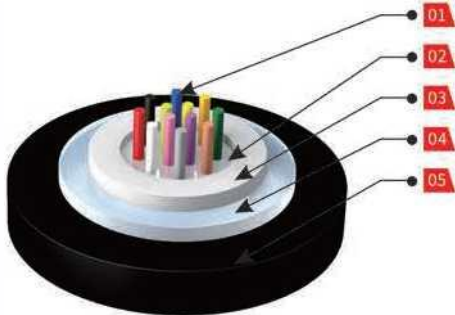
Standards 产品标准

Comply with Standards 符合标准
Standard YD/T 1770, ICEA-596, GR.409, IEC 60794, IEC 332-1 or IEC 332-3C.
满足YD/T 1770, ICEA-596, GR-409, IEC 60794, IEC 332-1 或 IEC 332-3C等标准。

Structure Drawing 结构图

Structure Drawing
结构图

- Fiber 光纤
- Tube Filling Compound 松套管填充物
- Loose Tube 松套管
- Glass Yarn 玻璃纤维
- LSZH Jacket LSZH 护套



Specifications 产品参数

Technical Parameters 结构参数

Cable Model 光缆型号	Fiber Count 光纤数	Cable Weight (Ref) 光缆重量 (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压力 Long/Short-term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
ABC-I-ZK-2-12Xn	2-12	55.5	200/660	300/1000	10D/20D
ABC-I-ZK-14~24Xn	14-24	67	200/660	300/1000	10D/20D

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽 850/1300nm	Effective Mode 有效模式 Bandwidth 有效带宽		Minimum Bend Radius 最小弯曲半径
	1310/1550nm Typical Value 典型值	1310/1550nm Maximum Value 最大值	850/1300nm Typical Value 典型值	850/1300nm Maximum Value 最大值		850nm	Link Length 10G以太网链路长度 850nm	
Condition 条件								
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHz.km	MHz.km	m	mm
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125	—	—	3.0/1.0	3.5/1.5	>500/500	—	—	30
62.5/125	—	—	3.0/1.0	3.5/1.5	>200/500	—	—	30
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	N2000	W300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	W550	30

Transportation/ Storage/Operating Temperature: -20°C~+60°C, Installation Temperature: -5°C~+50°C 运输/储存/使用温度: -20°C~+60°C, 安装温度: -5°C~+50°C

Access Building Cable(ABC-IIS)
(ABC-1 IS)接入光缆

Description 产品描述

The fibers,250μm, are positioned in a loose tube made of high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is covered with a layer of aramid yarn as strength member, then wrapped with a layer of PSP longitudinally. The cable is completed with a LSZH (LSZH , Low smoke, Zero halogen. Flame-retardant) material Jacket.

ABC-IIS接入光缆的结构是将0250pm光纤套入高模曜材料制成的松套管中，松套管内填充防水化合物。松套管外包覆一层芳纶加强元件，再用一层双面涂塑钢带(PSP)纵包,最外挤制一层低烟无卤材料(LSZH,低烟、无卤、阻燃)护套而成。

Characteristics 产品特点

- Good mechanical and temperature performance
具有良好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant
松套管材料本身具有良好的耐水解性能和较高的强度
- Crush resistance and flexibility
良好的抗压性和柔软性
- Aramid yarn strength member ensure tensile strength
芳纶加强元件保证光缆的抗拉强度
- PSP enhancing moisture-proof
双面涂塑钢带(PSP)提高光缆的抗透潮能力
- Small diameter, light weight and friendly installation
直径小、重量轻、容易敷设

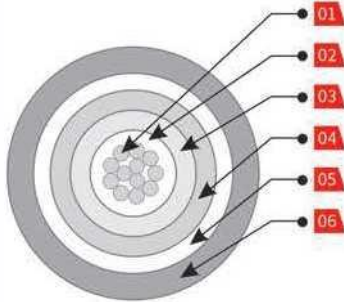
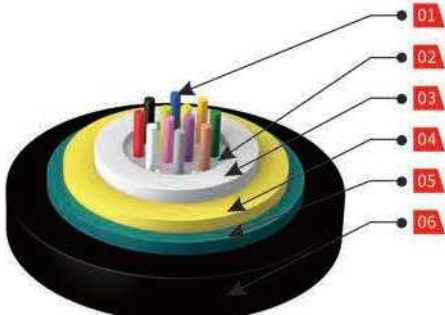
Standards 产品标准

Comply with Standard YD/T 1770, ICEA.596, GR409, IEC 60794, IEC 332-1 or IEC 332-3C.
满足 YD/T 1770JCEA.596,GR-409JEC60794JEC332-15IEC 332-3C等标准。

Structure Drawing 结构图

Structure Drawing
结构图

- Fiber 光纤
- Tube Filing Compound 填充物
- Loose Tube 松套
- Aramid Yarn芳纶纱
- LSZH Jacket LSZH 护套



Specifications 产品参数

Technical Parameters 结构参数

Cable Model 光缆型号	Fiber Count 光纤数	Cable Weight (Ref) 光缆参考重量 (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压力 Long/Short term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
ABC-IIS-ZK-2~12Xn	2-12	80	200/660	300/1000	10D/20D
ABC-IIS-ZK-14~24Xn	14-24	102	200/660	300/1000	10D/20D

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				OFL 满注入带宽 850/1300nm	Effective Mode Bandwidth 有效模式带宽		Minimum Bend Radius 最小弯曲半径
	1310/1550nm		850/1300nm			Bandwidth 有效模式带宽	Link Length 10G以太网链路长度	
	Typical Value 典型值	Maximum Value 最大值	Typical Value 典型值	Maximum Value 最大值				
Condition 条件						850nm	850nm	/
Unit 单位	dB/km	dB/km	dB/km	dB/km	MHz.km	MHZ.km	m	mm
G652D	0.36/0.22	0.5/0.4	—	—	—	—	—	16
G657A1	0.36/0.22	0.5/0.4	—	—	—	—	—	10
G657A2	0.36/0.22	0.5/0.4	—	—	—	—	—	7.5
50/125		—	3.0/1.0	3.5/1.5	N500/500	—	—	30
62.5/125	—	—	3.0/1.0	3.5/1.5	>200/500	—	—	30
Om3	—	—	3.0/1.0	3.5/1.5	>1500/500	>2000	W300	30
Om4	—	—	3.0/1.0	3.5/1.5	>3500/500	>4700	W550	30

Transportation/ Storage/Operating Temperature: -20°C~+60°C, Installation Temperature: -5°C~+50°C 运输/储存/使用温度： -20°C~+60°C,安装温度： -5°C~+50°C

Stranded Loose Tube Non-armored Cable (GYTA/S)
(GYTA/S)松套层绞式非铠装光缆

Description 产品描述

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) or PSP 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.

GYTA光缆的结构是将250μm光纤套入高模型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(和填充绳)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。涂塑铝带或钢带纵包后挤制聚乙烯护套成线。

Characteristics 产品特点

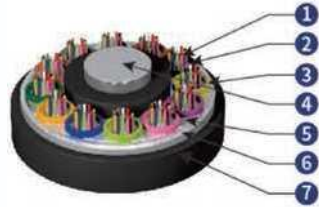
- Good mechanical and temperature performance 具有很好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant 松套管材料本身具有良好的耐水解性能和较高的强度
- Special tube filling compound ensure a critical protection of fiber 管内充以特种油膏，对光纤进行了关键性保护
- Specially designed compact structure is good at preventing loose tubes from shrinking 特别设计的紧密的光缆结构，有效防止套管回缩
- PE sheath protects cable from ultraviolet radiations Pe护套具有很好的抗紫外辐射性能
- The following measures are taken to ensure the cable water tight: 采用下列措施来确保光缆的防水性能:
 - Steel wire used as the central strength member -Loose tube filling compound -单根钢丝中心加强芯 -松套管内填充特种防水化合物
 - 100% cable core filling -APL or PSP moisture barrier -完全芯填充 -涂塑铝带或钢带防潮层

Standards 产品标准

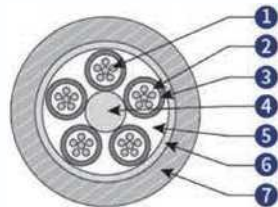
GYTA/s cable complies with Standard YD/T 901 as well as IEC 60794-1. GYTA/s 光缆符合 YD/T 901 和 IEC 60794-1标准。

Structure Drawing 结构图

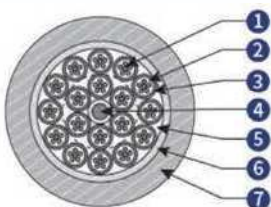
Structure Drawing
结构图



- 1.Fiber 光纤
2.Tube Filling Compound 套管填充物
5.Cable Filling Compound 缆芯填充物



- 3.LooseTube 松套管
6.APL psp 涂塑铝带或钢带



- 4.Central Strength Member 中心加强芯
7.PE Sheath 聚乙烯护套

Specifications 产品参数

Cable Type 光缆型号 (Increased by 2 fibers) (以2纤递增)	FibreCount Tubes		Fillers 填充绳数	Cable Weight (Ref) 参考光缆中型 (kg/km)	Tensile Strength Crush Resistance Bending Radius		
	光纤数	套管数			允许拉伸力 Long/Short-term 长 期/短期 (N)	允许压扁力 Long/Short-term 长 期/短期 (N/100mm)	弯曲半径 Dynamic/Static 动 态/静态 (mm)
GYTA/S-2 ~6Xn	2~6	1	4	76			
GYTA/S-8~12Xn	8-12	2	3	76			
GYTA/S-14-18Xn	14-18	3	2	76			
GYTA/S-20-24Xn	20-24	4	1	76			
GYTA/S-26~30Xn	26-30	5	0	76			
GYTA/S-32-36Xn	32-36	6	0	85			
GYTA/S-38~48Xn	38-48	4	1	90			
GYTA/S-50~60Xn	50-60	5	0	90			
GYTA/S-62-72Xn	62-72	6	0	113	600/1500	300/1000	10D/20D
GYTA/S-74-84Xn	74 ~84	7	1	136			
GYTA/S-86~96Xn	86-96	8	0	136			
GYTA/S-98-108Xn	98-108	9	1	163			
GYTA/S-110~120Xn	110-120	10	0	163			
GYTA/S-122-132Xn	122-132	11	1	190			
GYTA/S-134-144Xn	134-144	12	0	190			
GYTA/S-146~216Xn	146-216	13 ~18	5 ~0	190			
GYTA/S-288Xn	288	24	0	239			

Storage/Operating Temperature:-40°C~+70°C 储存/使用温度: -40°C~+70°C

Optical Characteristics 光学特性

Fiber Type 光纤 类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Xcc 光 缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			<0.36	<0.22	—	—	—	W1260
G.655			W0.40	<0.23	—	—	—	<1450
50/125pm	<3.3	WL2	—	T-.	N500	>500	0.200±0.015	—
62.5/125nm	W3.5	<1.2	—	—	>200	>200	0.275±0.015	—

Note:

注意

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的环境中不要超过6个月，否则盘具可能会受损

Application: Duct/Aerial 适用：
管道、架空

Stranded Loose Tube Armored Cable (GYTA53)
(GYTA53)松套层绞式加强铠装光缆



Description 产品描述

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. 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 core is covered with a thin PE inner sheath. After the PSP is longitudinally applied over the inner sheath, the cable is completed with a PE outer sheath.

GYTA53光缆的结构是将250µm光纤套入高模里材料制成的松套管中，松套管内填充防水化合物。级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(和填充绳)围绕中心加强芯绞合成紧凑和圆形的统芯，缆芯内的缝隙充以阻水填充物。统芯外挤上一层聚乙烯内护套，双面涂塑钢带(PSP)纵包后挤制聚乙烯护套成缆。

Characteristics 产品特点

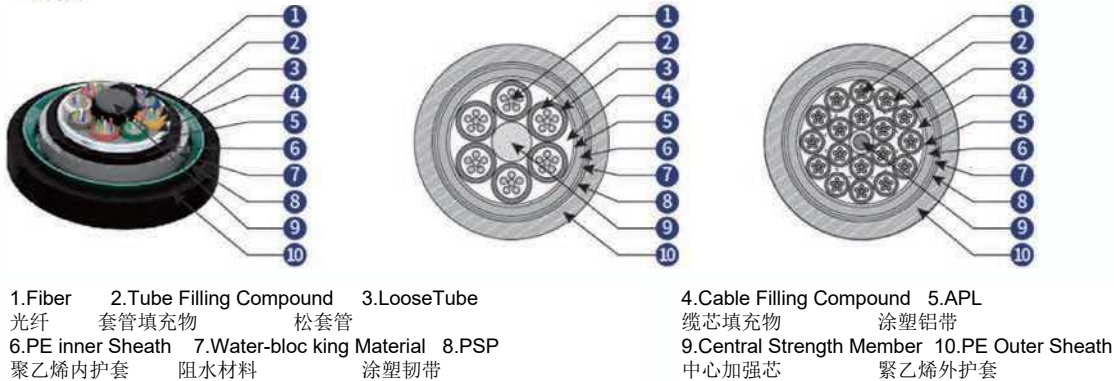
- Good mechanical and temperature performance 具有很好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant 松套管材料本身具有良好的耐水解性能和较高的强度
- Special tube filling compound ensure a critical protection of fiber 管内充以特种油膏，对光纤进行了关键性保护
- Specially designed compact structure is good at preventing loose tubes from shrinking 特别设计的紧密的光缆结构，有效防止套管回缩
- PE sheath protects cable from ultraviolet radiations Pe护套具有很好的抗紫外辐射性能
- The following measures are taken to ensure the cable watertight:
 - 采用下列措施来确保光缆的防水性能：
 - Steel wire used as the central strength member -单根钢丝中心加强芯
 - Loose tube filling compound -松套管内填充特种防水化合物
 - 100% cable core filling -完全缆芯填充
 - APL moisture barrier -涂塑铝带(APL)防潮层
 - PSP enhancing moisture-proof -双面涂塑钢带(PSP)提高光缆的抗透潮能力
 - Water-blocking material -良好的阻水材料防止光线纵向渗水

Standards 产品标准

GYTA53 cable complies with Standard YD/T 901 as well as IEC 60794-1 GYTA53光缆符合YD/T 901 和IEC 60794-1标准

Structure Drawing 结构图

Structure Drawing
结构图



Specifications 产品参数

Technical Parameters结构参数							
Cable Type 光缆型号 (Increased by 2fibers) (以2纤递增)	Fiber Count 光纤数	Tubes 套管数	Fillers 填充绳数	Cable Weight (Ref) 参考光纒中型 (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short-term 长期/短期 (N/IOOmm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GYTA53-2~6Xn	2~6	1	5	177			
GYTA53-8~12Xn	8-12	2	4	177			
GYTA53-14-18Xn	14-18	3	3	177			
GYTA53-20~24Xn	20-24	4	2	177			
GYTA53-26~30Xn	26-30	5	1	177			
GYTA53-32-36Xn	32-36	6	0	177			
GYTA53-38~48Xn	38-48	4	1	194			
GYTA53-50~60Xn	50-60	5	0	194			
GYTA53-62~72Xn	62-72	6	0	204	1000/3000	1000/3000	12.5D/25D
GYTA53-74~84Xn	74~84	7	1	239			
GYTA53-86~96Xn	86-96	8	0	239			
GYTA53-98~108Xn	98-108	9	1	275			
GYTA53-110~120Xn	110-120	10	0	275			
GYTA53-122~132Xn	122-132	11	1	312			
GYTA53 34~144Xn	134-144	12	0	312			
GYTA53-146-216Xn	146-216	13~18	5~0	312			

Storage/Operating Temperature: -40°C~+70°C 储存/使用温度: -40°C~+70°C

Optical Characteristics光学特性

Fiber Type 光纤类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Acc 光缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			<0.36	<0.22	—	—	—	W1260
G.655			<0.40	<0.23	—	—	—	W1450
50/125nm	W3.0	W1.0	7-	—	>500	>500	0.200±0.015	—
62.5/125µm	W3.3	<1.0	—	—	>200	>500	0.275±0.015	—

Note:

注意:

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天环境中不要超过6个月，否则盘具可能会受损

Application: Duct/Aerial/Direct Buried 适用: 管道、架空、直埋

Stranded Loose Tube Non-metallic Strength Member Non-armored Cable (GYFTY) (GYFTY)松套层绞式非金属加强芯非铠装光缆

Description 产品描述

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. A Fiber Reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular core. After the cable core is filled with the filling compound to protect it from water ingress, the cable is completed with a PE sheath.

GYFTY光缆的结构是将250µm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。缆芯的中心是一根玻璃纤维增强塑料 (FRP),松套管(和填充绳)围绕中心加强芯绞合成紧凑和圆形的统芯，统芯内的缝隙充以阻水填充物。缆芯外挤上一层聚乙烯护套成缆。

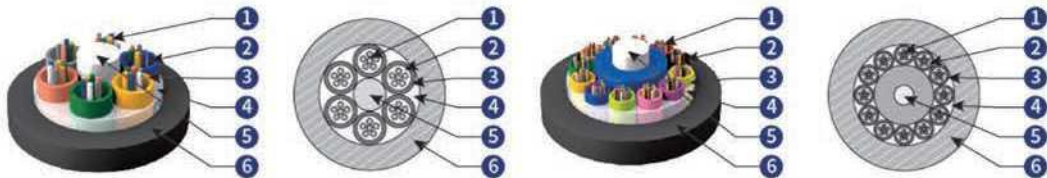
Characteristics 产品特点

- Good mechanical and temperature performance 具有很好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant 松套管材料本身具有良好的耐水解性能和较高的强度
- Special tube filling compound ensures critical protection of fiber 管内充以特种油膏，对光纤进行了关键性保护
- Crush resistance and flexibility 良好的抗压性和柔软性
- The following measures are taken to ensure the cable watertight: 采用下列措施来确保光缆的防水性能:
 - Single Fiber Reinforced Plastic as the central strength membe -单根非金属中心加强芯
 - Loose tube filling compound -松套管内填充特种防水化合物
 - 100% cable core filling -完全缆芯填充

Standards 产品标准

GYFTY cable complies with Standard YD/T 901 as well as IEC 60794-1 GYFTY 光缆符合 YD/T 901 和 IEC 60794-1 标准。

Structure Drawing 结构图



1.Fiber 光纤
2.Tube Filling Compound 套管填充物
5.FRP Strength Member 非金属加强芯

3.LooseTube 松套管
6.PE Sheath 聚乙烯护套

4.Cabling Filling Compound 缆芯填充物

Technical Parameters结构参数									
VX 11 M PA									
Cable Type 光缆型号 (Increased by 2 fibers) (以2纤递增)	Fiber Count 光纤数	Tubes Fillers 套管数 填充绳数		Cable Weight (Ref) 参考光绍重地 (kg/km)	Tensile Strength 允许 拉伸力 Long/Short-term 长期 /短期 (N)	Crush Resistance 允 许压扁力 Long/Short-term 长期 /短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动 态/静态 (mm)		
GYFTY-2~6Xn	2-6	1	5	86					
GYFTY-8-12Xn	8-12	2	4	86					
GYFTY-14-18Xn	14-18	3	3	86					
GYFTY-20~24Xn	20-24	4	2	86					
GYFTY -26 ~ 30Xn	26-30	5	1	86	400/1000				
GYFTY-32 ~ 36Xn	32-36	6	0	86					
GYFTY-38 ~ 48Xn	38 ~ 48	4	2	109					
GYFTY -50 ~ 60Xn	50 ~ 60	5	1	109					
GYFTY -62~72Xn	62-72	6	0	109					
GYFTY-2~6Xn	2~6	1	6	98					
GYFTY-8~12Xn	8-12	2	5	98					
GYFTY-14~18Xn	14-18	3	4	98					
GYFTY -20~24Xn	20 ~ 24	4	3	98					
GYFTY-26 ~ 30Xn	26-30	5	2	98	600/1500				
GYFTY -32~36Xn	32-36	6	1	98					
GYFTY -38 ~ 42Xn	38-42	7	0	98					
GYFTY -44 ~ 48Xn	44-48	4	3	115					
GYFTY-50 ~ 60Xn	50 ~ 60	5	2	115		300/1000	12.5D/25D		
GYFTY -62~72Xn	62-72	6	1	115					
GYFTY-2~6Xn	2~6	1	7	119					
GYFTY-8~12Xn	8-12	2	6	119					
GYFTY-14-18Xn	14 ~ 18	3	5	119					
GYFTY -20~24Xn	20-24	4	4	119					
GYFTY-26 ~ 30Xn	26-30	5	3	119					
GYFTY-32~36Xn	32-36	6	2	119					
GYFTY-38 ~ 42Xn	38-42	7	1	119					
GYFTY-44~48Xn	44-48	8	0	119	1000/3000				
GYFTY-50 ~ 60Xn	50 ~ 60	5	3	125					
GYFTY-62-72Xn	62-72	6	2	125					
GYFTY-74 ~ 84Xn	74-84	7	1	125					
GYFTY-86 ~ 96Xn	86-96	8	0	125					
GYFTY-98-108Xn	98-108	9	1	149					
GYFTY-110~120Xn	110-120	10	0	149					
GYFTY-122-132Xn	122-132	11	1	145					
GYFTY-134-144Xn	134-144	12	0	145					
Storage/Operating Temperature: -40°C~+70°C 储存/使用温度: -40°C~+70°C									
Optical Characteristics光学特性									
Fiber Type 光纤类型 couc		Attenuation 衰减		Bandwidth 带宽		Numerical Aperture		Cable Cut-off Wavelength Acc	
		@850nm	@1300nm @1310nm	@1550nm	@850nm	@1300nm	数值孔径	光缆截止波长	
Unit	dB/km	dB/km	dB/km	dB/km	MH 乙 km	MHZ.km	NA	nm	
G.652		<0.36	W0.22	—	—	—	—	<1260	
G.655		<0.40	<0.23	—	—	—	—	<1450	
50/125um	W3.3	W1.2	—	—	>500	>500	0.200±0.015	—	
62.5/125	W3.5	W1.2	—	—	N200	N500	0.275±0.015		

Note:注意:

- a. SuffixXn denotes fiber type型号的后缀Xn表示选用的光纤类型
- b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色才非列见色谱表
- c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的拜境中不要超过6个月，否则盘具可能会受损

Application: Duct/Aerial 适用: 管道、架空

Stranded Loose Tube Non-metallic Strength Member Armored Cable (GYFTA53)
(GYFTA53)松套层绞式非金属加强芯铠装光缆

Description 产品描述

The fibers, 250pm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A Fiber Reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular core. An aluminum Polyethylene laminate (APL) is applied around the cable core. Then the cable core is covered with a thin polyethylene (PE) inner sheath, which is filled with jell to protect it from water ingress. After corrugated steel tape armor is applied, the cable is completed with a PE outer sheath

GYFTA53光缆的结构是将250pm光纤套入高模窗材料制成的松套管中，松套管内填充防水化合物。缆芯的中心是一根非金属加强芯(FRP), 对于某些芯数的光缆来说，非金属加强芯外还需挤上一层聚乙烯(PE)。松套管(和填充绳)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)纵包后挤上一层聚乙烯内护套，双面涂塑钢带(PSP)纵包后挤制聚乙烯外护套成缆。

Characteristics 产品特点

- Good mechanical and temperature performance 具有很好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant 松套管材料本身具有良好的耐水解性能和较高的强度
- Special tube filling compound ensure a critical protection of fiber 管内充以特种油珂，对光纤进行了关键性保护
- Crush resistance and flexibility良好的抗压性，和柔软性
- The following measures are taken to ensure the cable watertight: 采用下列措施来确保光缆的防水性能:

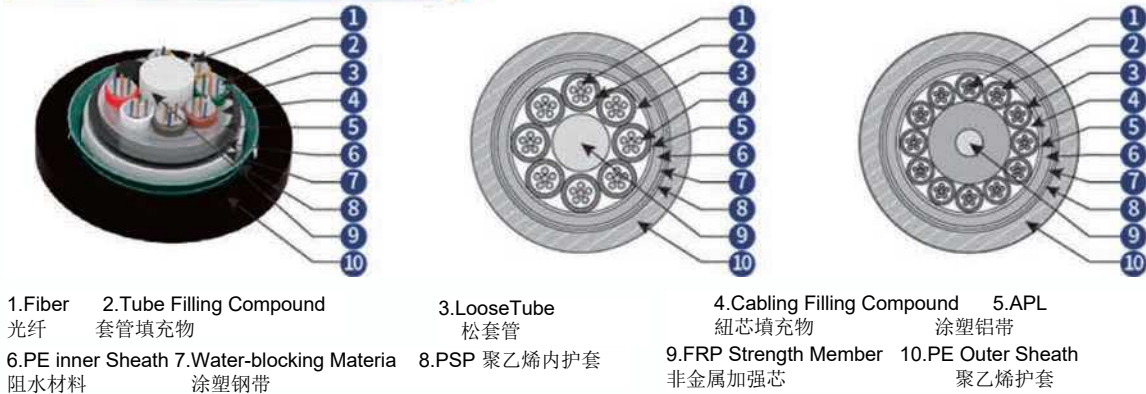
- Single Fiber Reinforced Plastic as the central strength member
-单根非金属中心加强芯
- Loose tube filling compound
-松套管内填充特种防水化合物
- 100% cable core filling
-完全缆芯填充

- APL moisture barrier
-涂塑铝带(APL)防潮层
- PSP enhancing moisture-proof -双面涂塑钢带(PSP)提高光缆的抗透潮能力
- Water-blocking material
-良好的阻水材料防止光缝纵向渗水

Standards 产品标准

GYFTA53 cable complies with Standard YD/T 901 as well as IEC 60794-1. GYFTA53 光純符合 YD/T 901 和 IEC 60794-1标准。

Structure Drawing 结构图



Specifications 产品参数

Technical Parameters 结构参数

Cable Type 光缆型号 (Increased by 2 fibers) (以2纤递增)	FibreCount 光纤数	Tubes 套管数	Fillers 填充绳数	Cable Weight (Ref) 参考光Affifi (kg/km)	Tensile Strength 允许拉伸力 Long/Short term 长期/短期 (N)	Crush Resistance 允许压屈力 Long/Short term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GYFTA53-2~6Xn	2~6	1	7	228			
GYFTA53-8~12Xn	8-12	2	6	228			
GYFTA53-14-18Xn	14-18	3	5	82			
GYFTA53-20~24Xn	20-24	4	4	228			
GYFTA53-26~30Xn	26-30	5	3	228			
GYFTA53-32~36Xn	32-36	6	2	228			
GYFTA53-38~42Xn	38-42	7	1	228			
GYFTA53-44~48Xn	44~48	8	0	228	1000/3000	1000/3000	12.5D/25D
GYFTA53-50~60Xn	50-60	9	3	240			
GYFTA53-62~72Xn	62-72	10	2	240			
GYFTA53-74~84Xn	74-84	11	1	240			
GYFTA53-86~96Xn	86~96	12	0	240			
GYFTA53-98~108Xn	98-108	13	1	276			
GYFTA53-110-120Xn	110-120	14	0	276			
GYFTA53-122-132Xn	122-132	15	1	326			
GYFTA53-134-144Xn	134-144	16	0	326			

Storage/Operating Temperature: -40°C~+70°C 储存/使用温度: -40°C~70°C

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Acc 光缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MH 乙 km	MHZ.km	NA	nm
G.652			W0.36	<0.22	—	—	—	W1260
G.655			<0.40	W0.23	—	—	—	9450
50/125nm	W3.3	W1.2	—	—	>500	>500	0.200±0.015	
62.5/125 卩 m	<3.5	<1.2		—	N200	>500	0.275±0.015	

Note:

注意:

a. SuffixXn denotes fiber type

型号的后Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table

套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的环境中不要超过6个月，否则盘具可能会受损

Application: Duct/Aerial/Direct buried 适用: 管通、架空、直埋

Uni-tube Light-armored Cable (GYXS/GYXTW)

(GYXS/GYXTW)中心管式轻铠装光缆

Description产品描述

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.

GYXS/GYXTW光缆的结构是将250µm光纤套入高模Si材料制成的松套管中，松套管内填充防水化合物。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路的紧凑和纵向阻水，两侧放置两根平行钢丝后挤制聚乙烯护套成缆。

Characteristics产品特点

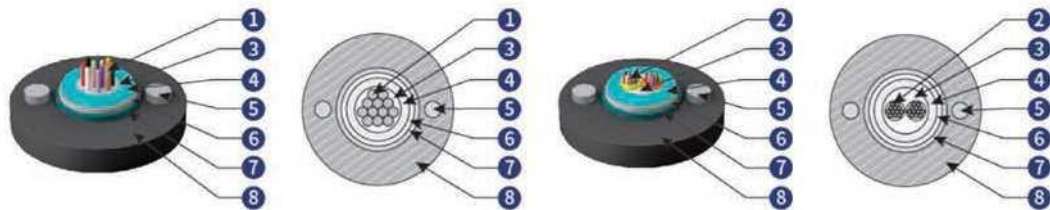
- Good mechanical and temperature performance 具有很好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant 松套管材料本身具有良好的耐水解性能和较高的强度。
- Special tube filling compound ensure a critical protection of fiber 管内充以特种油膏，对光纤进行了关键性保护
- Crush resistance and flexibility良好的抗压性和柔软性
- PSP enhancing moisture-proof 双面涂塑钢带(PSP)提高光缆的抗潮湿能力。
- Two parallel steel wires ensure tensile strength两根平行钢丝保证光缆的抗拉强度
- Small diameter, lightweight and friendly installation 直径小、重量轻、容易敷设
- Long delivery length较长的交货长度

Standards产品标准

Comply with Standard

GYXS/GYXTW cable complies with Standard YD/T 769. GYXS/GYXTW光缆符合YD/T 769标准

Structure Drawing结构图



1.Fiber 光纤
5.Steel Wire
钢丝

2.Tube Bundle 光纤束
6.Water-blocking Material 阻水
材料

3.Tube Filling Compound 套管
填充物
7.PSP
涂塑钢带

4.LooseTube 松
套管
8.PE Sheath 聚
乙第护套

Specifications产品参数

Technical Parameters结构参数

Cable Type 光缆型号 (Increased by 2 fibers, (以2纤递增))	FibreCount 光纤数	Cable Weight (Ref) 参考光缆重量 (kg/km)	Tensile Strength 允许拉力 Long/Short term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GYXS/GYXTW-2~12Xn	2-12	82	600/1500	300/1000	10D/20D
GYXS/GYXTW-14~24Xn	14~24	127			
GYXS/GYXTW-2~12Xn	2-12	124	1000/3000	300/1000	10D/20D
GYXS/GYXTW-14-24Xn	14~24	147			

Storage/Operating Temperature: -40°C~+70°C 储存/使用温度: -40°C~70°C

Optical Characteristics光学特性

Fiber Type 光纤类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Xcc 光缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			<0.36	W0.22	—	—	—	W1260
G.655			W0.40	W0.23	—	—	—	W1450
50/125 µm	W3.3	<1.2	—	—	>500	>500	0.200±0.015	—
62.5/125nm	W3.5	W1.2	—	—	>200	>500	0.275±0.015	—

Note:

注意:

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table

套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天环境中不要超过6个月，否则盘具可能会受损

Application: Duct/Aerial 适用:
管道、架空

Uni-tube Non-armored Cable (GYXY)

(GYXY)中心管式非铠装光缆

Description产品描述

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. Over the tube, water-blocking material is applied to keep the cable watertight. Two parallel steel wires are placed at the two sides. The cable is completed with a polyethylene (PE) sheath.

GYXY光统的结构是将250 µm光纤套入高模倒材料制成的松套管中，松套管内填充防水化合物。松套管外加阻水材料以保证光缆纵向阻水，两侧放置两根平行钢丝后挤制聚乙烯护套成经。

Characteristics产品特点

- Good mechanical and temperature performance 具有很好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant 松套管材料本身具有良好的耐水解性能和较高的强度
- Special tube filling compound ensure a critical protection of fiber 管内充以特种油膏，对光纤进行了关键性保护
- Two parallel steel wires ensure tensile strength 两根平行钢丝保证光缆的抗拉强度
- PE sheath protects cable from ultraviolet radiation

Pe护套具有很好的抗紫外辐射性能

- Small diameter, light weight and friendly installation

直径小、重量轻、容易敷设

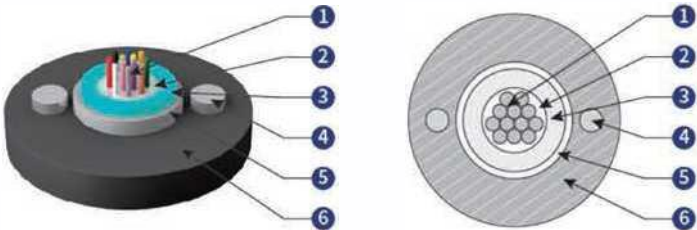
- Long delivery length

较长的交货长度

Standards产品标准

GYXY cable complies with Standard YD/T769. GYXY光缆符合YD/T769标准。

结构图



1.Fiber

光纤

4.Steel Wire

钢丝

2.Tube Filling Compound 套管

填充物

5.Water-blocking Material 阻水

材料

3.LooseTube 松

套管

6.PE Sheath

聚乙烯护套

Specifications产品参数

Cable Type 光缆型号 (Increased by 2 fibers) (以2纤递增)	FibreCount 光纤数	Cable Weight (Ref) 参考光缆重量 (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short-term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GYXY-2~12Xn	2-12	77	600/1500	300/1000	10D/20D
GYXY-14~24Xn	14 ~ 24	83			
GYXY-2~12Xn	2~12	104	1000/3000		
GYXY-14~24Xn	14-24	109			

Storage/Operating Temperature: -40°C-+70°C 储存/使用温度:-40°C-+70°C

Optical Characteristics光学特性

Fiber Type 光纤类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Acc 光缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			<0.36	<0.22	—	—	—	W1260
G.655			W0.40	W0.23		—		<1450
50/125 µm	<3.3	<1.2	—	—	>500	>500	0.200±0.015	—
62.5/125µm	W3.5	W1.2	—	—	>200	>500	0.275±0.015	—

Note:

注意:

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的环境中不要超过6个月，否则盘具可能会受损

Application: Aerial 适

用: 架空

Uni-tube Non-metallic Non-armored Cable (GYFGY)

(GYFGY)中心管式非金属非铠装光缆

Description 产品描述

The fibers, 250pm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. Over the tube, water-blocking material is applied to keep the cable watertight. Two parallel fiber reinforced plastic (FRP) are placed at the two sides. The cable is completed with a polyethylene (PE) sheath.

GYFGY光缆的结构是将250um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。松套管外加阻水材料以保证光统纵向阻水，两侧放賈两根平行玻璃纤维增强塑料(FRP)后挤制聚乙烯护套成统。

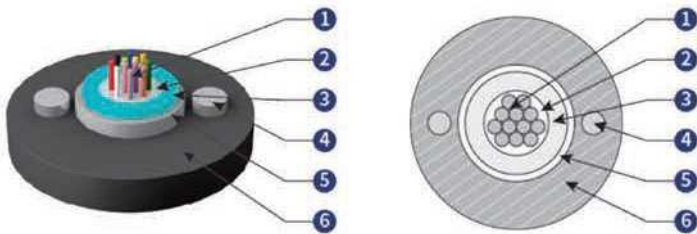
Characteristics 产品特点

- Good mechanical and temperature performance 具有很好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant 松套管材料本身具有良好的耐水解性能和较高的强度
- Special tube filling compound ensure a critical protection of fiber 管内充以特种油膏，对光纤进行了关键性保护
- Two parallel steel wires ensure tensile strength 两根平行钢丝保证光缆的抗拉强度
- PE sheath protects cable from ultraviolet radiationPe护套具有很好的抗紫外琨射性能
- Small diameter, light weight and friendly installation直径小、重轻、容易敷设
- Long delivery length较长的交货长度

Standards 产品标准

GYFGY cable complies with Standard YD/T 769. GYFGY光處符合YD/T 769标准。

Structure Drawing 结构图



1.Fiber 光纤
4.FRP
玻璃纤维增强塑料

2.Tube Filling Compound 套管
填充物
5.Water-blocking Material 阻水
材料

3.LooseTube 松
套管
6.PE Sheath
聚乙烯护套

Specifications 产品参数

Technical Parameters 结构参数

Cable Type 光缆型号 (Increased by 2 fibers) (以2纤递增)	FibreCount 光纤数	Cable Weight (Ref) 参考光缆電蜀 (kg/km)	Tensile Strength 允 许拉伸力 Long/Short term 长 期/短期 (N)	Crush Resistance 允 许压屈力 Long/Short term 长 期/短期 (N/IOOmm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GYFGY-2~12Xn	2-12	81	400/1000	300/1000	10D/20D
GYFGY-14~24Xn	14-24	96			

Storage/Operating Temperature: -40°C-+70°C 储存/
使用温度: -40°C-+70°C

Optical Characteristics 光学特性

Fiber Type 光纤 类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数IS孔径	Cable Cut-off Wavelength Acc 光 缆截止波长
	@850nm	@1300rim	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			<0.36	<0.22	—	—	—	W1260
G.655			W0.40	W0.23		—		<1450
50/125 μm	<3.3	<1.2	—	—	>500	>500	0.200±0.015	—
62.5/125um	W3.5	W1.2	—	—	>200	>500	0.275±0.015	—

Note:

注意:

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的环境中不要超过6个月，否则盘具可能会受损

Application: Aerial 适

用: 架空

Figure 8 Cable (GYTC8A)
(GYTC8A)8字型光缆

Description 产品描述

The fibers, 250pm, 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 locates in the center of core as a metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular cable core. After an aluminum Polyethylene Laminate (APL) moisture barrier is applied around the cable core, this part of cable accompanied with the stranded wires as the supporting part are completed with a polyethylene (PE) sheath to be figures structures.

GYTC8A光缆的结构是将250um光纤套入高模里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，松套管 (和填充绳)围绕中心加强芯绞合成紧凑和圆形的缆芯。缆芯用一层涂塑铝带(APL)纵包后，和钢丝绞线集成到一个8字型的聚乙烯护套内。

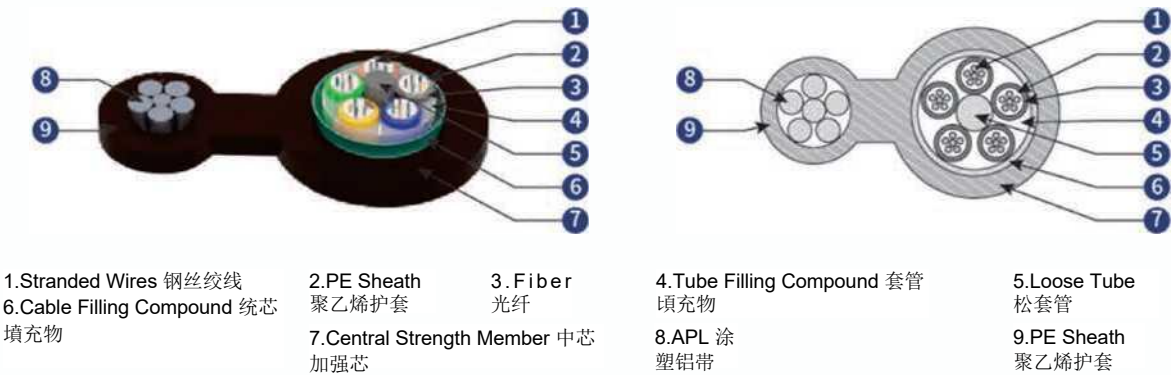
Characteristics 产品特点

- High tensile strength of stranded wires meet the requirement of self-supporting and reduce the installation cost 钢丝绞线具有极高的抗拉强度，便于自承式架空敷设,降低安装成本
- Good mechanical and temperature performance 光缆具有很好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant 松套管材料本身具有良好的耐水解性能和较高的强度
- Special tube filling compound ensure a critical protection of fiber 管内充以特种油膏，对光纤进行了关键性保护
- The following measures are taken to ensure the cable watertight: 采用下列措施来确保光缆的防水性能:
 - Steel wire used as the central strength membe -单根钢丝中心加强芯
 - Loose tube filling compound -松套管内填充特种防水化合物
 - 100% cable core filling -完全缆芯填充
 - APL moisture barrier -涂塑铝带(APL)防潮层

Standards 产品标准

GYTC8A cable complies with Standard YD/T 1155 as well as IEC 60794-1, GYTC8A光缆符合YD/T1155和IEC 60794-1标准。

Structure Drawing 结构图



Specifications 产品参数

Cable Type 光纜型号 (Increased by 2 fibers) 似2纤递增)	FibreCount Tubes 光纤数 套管数		Fillers 填充绳数	Cable Weight (Ref) 参考光纜兩a* (kg/km)	Tensile Strength Crush Resistance Bending Radius		
					允许拉伸力 Long/Short term 长 期/短期 (N)	允许压扁力 Long/Short term 长 期/短期 (N/100mm)	弯曲半径 Dynamic/Static 动态/静态 (mm)
GYTC8A-2~6Xn	2~12	1	4	158			
GYTC8A-8~12Xn	8~12	2	3	158			
GYTC8A-14~18Xn	14-18	3	2	158	According to the messenger wire steel wire diameter 桐眼 帛为朝丝 直径	300/1000	10D/20D
GYTC8A-20~24Xn	20-24	4	1	158			
GYTC8A-26~30Xn	26-30	5	0	158			
GYTC8A-32~36Xn	32-36	6	0	167			
GYTC8A-38~48Xn	38-48	4	1	172			
GYTC8A-50~60Xn	50-60	5	0	172			

Storage/Operating Temperature: -40°C-+70°C 储存/使用温度: -40°C-+70°C

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数IS孔径	Cable Cut-off Wavelength Xcc 光 纜截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			WO.36	W0.22	—	—	—	W1260
G.655			W0.40	<0.23	—	—	—	<1450
50/125nm	W3.3	W1.2	—	—	>500	>500	0.200±0.015	—
62.5/125nm	W3.5	W1.2	—	—	>200	>500	0.275±0.015	—

Note:

注意:

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的环境中不要超过6个月，否则盘具可能会受损

Application: Self-supporting Aerial 适用:

自承式架空

Totally Dry Stranded Loose Tube Cable(DCFA)

(DC FA)松套层绞式全干式光缆

Description 产品描述

The fibers, 250nm, are positioned in a loose tube made of a high modulus plastic. Special water-blocking yarns are placed in the tube. A Fiber Reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular core. The cable core is protected from water ingress by water-blocking yam and tape. After an Aluminum Polyethylene Laminate (APL) moisture barrier is applied around the cable core, the cable is completed with a PE sheath.

DCFA光缆的结构是将250pm光纤套入高模量材料制成的松套管中，松套管内放入特种阻水纱对光纤进行关键性保护。缓芯的中心是一根非金属加强芯(FRP),松套管(和填充绳)围绕中心瓜强芯绞合成紧凑和圆形的纜芯。松套管及加强芯外均设有阻水纱，纜芯上纵包阻水带，

Characteristics 产品特点

- Good mechanical and temperature performance
光缆具有很好的机械性能和温度特性
- High strength loose tube that is hydrolysis resistant
松套管材料本身具有良好的耐水解性能和较高的强度
- Special water-blocking yarns ensure a critical protection of fiber in loose tube 松套管内放入特种阻水纱，对光纤进行了关键性保护
- Specially designed compact structure is good at preventing loose tubes from shrinking 特别设计的紧密的光纜结构，有效防止套管回缩
- PE sheath protects cable from ultraviolet radiation
Pe护套具有很好的抗紫外辐射性能
- The following measures are taken to ensure the cable watertight: 采用下列措施来确保光缆的防水性能:
 - Single Fiber Reinforced Plastic as the central strength member
-单根非金属中心加强芯
 - Water-blocking yarn around the loose tube and central strength member -松套管和加强芯外阻水纱
 - APL moisture barrier
-涂塑铝带(APL)防潮度
 - Special water-blocking yarn in loose tube
-松套管内特种阻水纱
 - Water-blocking tape around the cable core
-纜芯外阻水带

Standards 产品标准

Comply with Standard

GYTC8A cable complies with Standard YD/T 1155as well as IEC 60794-1.
GYTC8A光缆符合YD/T 1155和压C 60794-1标准。

Structure Drawing 结构图

1.FRP Strength Member 非金属加强芯

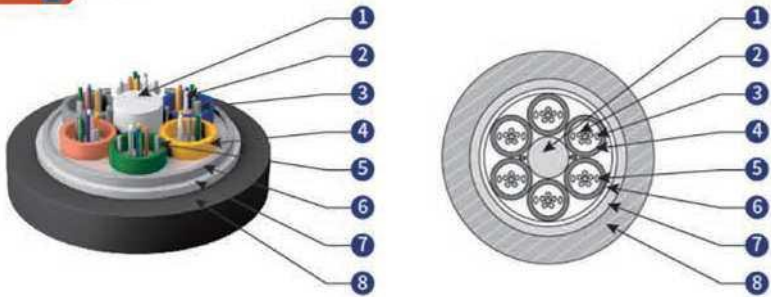
2.Fiber
光纤

3.Water Blocking Yarn 阻水纱

4.Loose Tube
松套管

5.Water Blocking Yarn 6.Water Blocking Tape 7.APL 阻水纱
阻水带 涂塑铝带

8.PE Sheath
聚乙烯护套



Specifications 产品参数

Technical Parameters 结构参数

Cable Type 光缆型号 (Increased by 2 fibers) (以2纤递增)	Fiber Count 光纤数	Tubes 套管数	Fillers 填充绳数	Cable Weight (Ref) 参考光纜蕙型 (kg/km)	Tensile Strength 允许拉伸力	Crush Resistance 允许压扁力	Bending Radius 弯曲半径
					Long/Short term 长期/短期 (N)	Long/Short term 长期/短期 (N/IOOmm)	Dynamic/Static 动态/静态 (mm)
DCFA-2~6Xn	2-12	1	5	96			
DCFA-8-12Xn	8~12	2	4	96			
DCFA-14-18Xn	14-18	3	3	96	400/1000	300/1000	10D/20D
DCFA-20~24Xn	20-24	4	2	96			
DCFA-26~30Xn	26-30	5	1	96			
DCFA-32~36Xn	32-36	6	0	96			

Storage/Operating Temperature: -40°C-+70°C

储存/使用温度: -40°C-+70°C

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Xcc 光缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			<0.36	W0.22	—	—	—	W1260
G.655			W0.40	W0.23	—	—	—	W1450
50/125nm	W3.3	<1.2	—	—	>500	N500	0.200±0.015	—
62.5/125um	W3.5	WL2		—	>200	>500	0.275±0.015	—

Note:

注意:

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的环境中不要超过6个月，否则盘具可能会受损

ASU Cable
ASU光缆

Description产品描述

The structure of the optical cable is that the 250nm optical fiber is sheathed in a loose tube made of high modulus material, and the loose tube is filled with a waterproof compound. Loose tube and FRP are twisted together by SZ. Water-blocking yarn is added to the cable core to prevent water seepage, and then a polyethylene sheath is extruded to form a cable. A ripcord can be used under the cable jacket to tear it apart

光缆的结构是将250μm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FRP被SZ合在一起。缆芯中加阻水纱，防止其渗水，后挤制聚乙烯护套成缆。在光缆护套下可使用一根剥离绳将其撕开。

Characteristics产品特点

- The unique second-layer coating and stranding technology provides sufficient space and bending resistance for the optical fiber, thus ensuring good optical performance of the optical fiber in the cable 独特的第二层涂层和绞合技术为光纤提供了足够的空间和耐弯曲性，从而确保电、缆中的光纤具有良好的光学性能
- Precise process control ensures good mechanical and temperature performance 精确的过程控制可确保良好的机械性能和温度性能
- High-quality raw materials guarantee a long service life of the cable 松套管内放入特种阻水纱，对光纤进行了关键性保护
- Specially designed compact structure is good at preventing loose tubes from shrinking 高品质的原材料保证电缆的使用寿命长

Standards产品标准

GYTC8A cable complies with Standard YD/T 1155 as well as IEC 60794-1.
GYTC8A 光缆符合 YD/T 1155 和 IEC 60794-1标准。

Structure Drawing结构图

Structure Drawing
结构图

Optical Fiber

2.Tube Filling Compound 管填充化合物

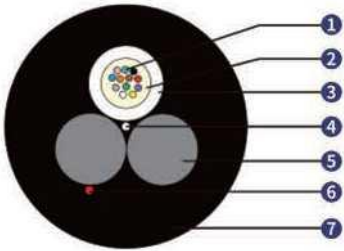
3. Loose Tube
松套管

4. Water Blocking Yarn 阻水纱

5.Strength Member 加强件

6.Ripcord 剥离绳

7.Outer Sheath 外护套



Specifications产品参数

Technical Parameters结构参数

Fiber Core 光纤芯数		1-12		24	
Span 跨距		80 Meters	120 Meters	80 Meters	120 Meters
Fiber Type 光纤类型		G.652D			
Loose Tube 松套管	Material 材料	PBT			
	Diameter 直径	2.0±0.06mm	2.5±0.06mm	3.0±0.1mm	
	Thickness 厚度	0.32±0.03mm	0.35±0.03mm	0.50±0.05mm	
	Color 颜色	White 白色			
Strength Member 加强件	Material 材料	Fiber Reinforced Polymer (FRP) 纤维增强聚合物®FRP®			
	Diameter 直径	2.0±0.05mm	2.5±0.05mm	2.0±0.05mm	2.5±0.05mm
Outer Sheath 外护套	Material 材料	PE 聚乙烯			
	Thickness 厚度	1.0±0.1mm			
Rip Cord 撕裂绳	Material 材料	Nylon 尼龙			
	Color 颜色	Red 红色			
	Number 数量	1			
Cable Diameter 光缆直径		6.6±0.2mm	7.6±0.2mm	7.5±0.2mm	8.2±0.2mm
Cable Weight 光缆重量		45±5.0kg/km	62±5.0kg/km	52±5.0kg/km	65±5.0kg/km
Allowable Tensile Strength 允许抗拉强度		1500N	2000N	1500N	2000N
Allowable Crush Resistance 允许抗压性		2200N/100mm			
Min. Bending Radius 最小弯曲半径	Without Tension 没有张力	10.0*Cable Diameter 10.0*光缆直径			
	Maximum Tension 最大张力	20.0*Cable Diameter 20.0*光缆直径			
Temperature Range 温度范围	Installation 安装	-20~+60℃ (-4~140°F)			
	Transport/storage 运输/存储	-40~+70℃ (-4~158°F)			
	Operation 操作	-40~+70℃ (-4~158°F)			

Storage/Operating Temperature: -40°C~+70°C
储存/使用温度: -40°C~+70°C

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

Description 产品描述

ADSS cable is loose tube stranded. Fibers, 250|4m, are positioned into a loose tube made of high modulus plastics. The tubes are filled with a water-resistant filling compound. The tubes (and fillers) are stranded around a FRP (Fiber Reinforced Plastic) 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 (polyethylene) 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 (anti-tracking) outer sheath.

ADSS光缆采用松套度绞式结构，将250um光纤套入高模也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)内护套，然后绞合起加强作用的芳纶，最后挤制聚乙烯 (PE)外护套或耐电痕(AT)外护套。

Characteristics 产品特点

- Can be installed without shutting off the power 可不断电架设
- Excellent AT performance. The maximum inductive at the operating point of AT sheath can reach 25kv 采用AT护套，耐电痕性能优越
- Light weight and small diameter reducing the load caused by ice and wind and the load on towers and backprop 重量轻、缆径小，减少了冰凌、风力影响和对塔架、支撑物的负荷
- Large span lengths and the largest span is over 1000m 跨距大，最大跨距超过1000米
- Good performance of tensile strength and temperature 具有优异的抗拉性能和温度特性
- The design life span is over 30 years 预期寿命大于30年

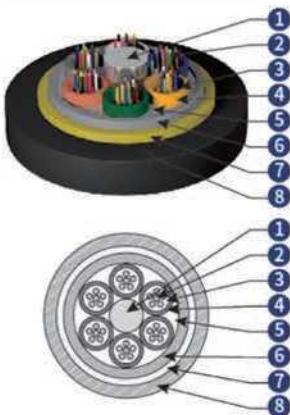
Standards 产品标准

ADSS cable complies with Standard IEEE 1222as well as IEC 60794-1.
ADSS光绷9循IEEE 1222技术标准，同时符合IEC 60794-1之标准

Structure Drawing 结构图

Structure Drawing
结构图

- 1. FRP Strength Member 非金属加强芯
- 2. Fiber 光纤
- 3. Tube Filling Compound 松套管填充物
- 4. Loose Tube 松套管
- 5. Cable Filling Compound 缆芯填充物
- 6. PE Inner Sheath 聚乙烯内护套
- 7. Aramid Yarn 芳纶丝
- 8. PE/AT Outer Sheath 聚乙烯/耐电痕外护套



Cable Code 光缆型号
ADSS-XX-X(m)-XX

- FibreType 光纤类型
- Fiber count 光纤芯数
- Maximum allowable working span 最大允许工作跨距
- Sheath material 护套材料类型
- All Dielectric Self-supporting Aerial Cable 全介质自承式架空光缆

Specifications 参数

Technical Parameters 结构参数

Ref. Outer Diameter 参考外径 (mm)	Ref. Weight 参考更量 (kg/km)		Rec. Daily Working Tension 推荐日常最大工作张力 (kN)	Max Allo wable Working Tension 最大允许工作张力 (kN)	Break Strength 断裂强度 (kN)	Strength Member CSA 抗拉元件 截面积 (mm2)	Modulus of Elasticity 弹性模量 (kN/mm2)	Heat Expansion Coefficient 热膨胀系数 X10 ⁶ /K	Suitable Span 适合档距(m) (NESC Standard, m) 对应气象条件(m)			
	PE Sheath PE外护	AT Sheath AT外护							A	B	C	D
11.8	117	124	1.5	4	10	4.6	7.6	1.8	160	100	140	100
12.0	121	129	2.25	6	15	7.6	8.3	1.5	230	150	200	150
12.3	126	134	3.0	8	20	10.35	9.45	1-3	300	200	290	200
12.6	133	141	3.6	10	24	13.8	10.8	1.2	370	250	350	250
12.8	138	145	4.5	12	30	14.3	11.8	1.0	420	280	400	280
13.1	145	153	5.4	15	36	18.4	13.6	0.9	480	320	460	320
13.5	155	163	6.75	18	45	22.0	16.4	0.6	570	380	550	380
13.8	163	171	7.95	22	53	26.4	18.0	0.3	670	460	650	460
14.4	177	186	9.0	26	60	32.2	19.1	0.1	750	530	750	510
14.6	182	191	10.5	28	70	33.0	19.6	0.1	800	560	800	560
14.8	195	204	12.75	34	85	40.0	20.1	0.1	880	650	880	650

Storage/Operating Temperature:-40°C-+70°C
储存/使用温度：-40°C-+70°C

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Xcc 光缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			W0.36	W0.22	—	—	—	<1260
G.655			W0.40	W0.23	—	—	—	W1450
50/125 μm	W3.3	<1.2	—	—	>500	>500	0.200±0.015	—
62.5/125nm	W3.5	W1.2	—	—	>200	>500	0.275±0.015	—

Note:
注意:
a. SuffixXn denotes fiber type 型号的后缀Xn表示选用的光纤类型
b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表
c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的环境中不要超过6个月，否则盘具可能会受损
Application: Self-supporting Aerial
适用：自承式架空

Uni-tube Non-metallic Air-blowing Micro Cable

微型非金属气吹光缆

Description产品描述

The fibers, 250pm, either of single-mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A layer of aramid yarn is applied around the cable core as additional strength member. Then, the cable is completed with a black or color HDPE sheath.

微型非金属光缆是将250pm单模或多模光纤套入高模量材料制成的松套管中，套管内填充无毒、无害的防水化合物，松套管外绞合非金属加强元件芳纶，再挤制黑色或彩色高密度聚乙烯(HDPE)护套成线。

Characteristics产品特点

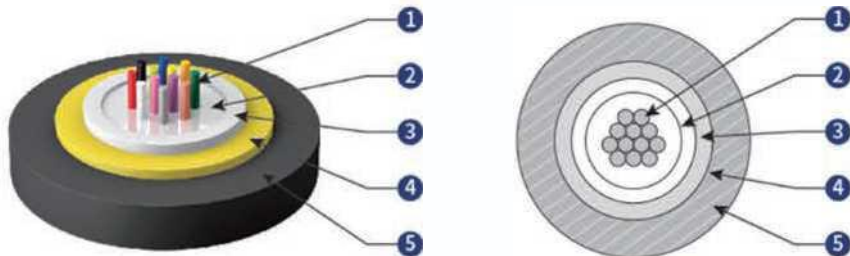
- Non-mental design can prevent the cable from radio interference and magnetic wave interference 非金属的结构设计有效防止射频干扰和电磁波干扰
- Specially designed compact structure is good at preventing loose tubes from shrinking 将别设计的紧密的光缆结构，有效防止套管回缩
- Aramid yarn ensures good performance of tensile strength 芳纶加强元件使光缆具有优异的抗拉性能
- Loose tube filling compound ensure good moisture resistance performance 松套管内填充特种油膏，充分保证了光缆的防水性能
- Good flexibility 具有良好的柔软性
- High dense fiber packed, small diameter and lightweight, it's the better option for blowing installation process 光纤组装密度高，缆径小，更堡轻，是气吹敷设方式的佳选择

Application应用

Adapted to backbone network, access network and fiber to the home 利用微管资源，特别适用于骨干网、接入网和光纤到户

Structure Drawing结构图

- Fiber 光纤
- Tube Filling Compound 套管填充物
- Loose Tube 松套管
- Aramid Yarn 芳纶
- PE Sheath 聚乙烯护套



Specifications参数

Technical Parameters结构参数

Cable Type 光缆型号 (Increased by 2 fibers) (以2纤递增)	FibreCount 光纤数	Cable Diameter 光缆直径 (mm)	Cable Weight (Ref) 参考光缆重增 (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压麻力 Long/Short-term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GCYXTY-2 ~12Xn	2-12	3.5±0.3	12	60/150	150/450	10D/20D
GCYXTY-14~24Xn	2-12	3.5±0.3	12	60/150	150/450	10D/20D

Storage/Operating Temperature: -40°C~+70°C 储存/使用温度: -40°C~+70°C

Optical Characteristics光学特性

Fiber Type 光纤类型	Attenuation 衰减 C+?O°C)				Bandwidth		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Xcc 光缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			<0.36	<0.22	—	—	—	W1260
G.655			<0.40	<0.23	—	—	—	<1450
50/125jim	W3.3	W1.2	—	—	>500	>500	0.200±0.015	—
62.5/125nm	<3.5	<1.2	—	—	N200	>500	0.275±0.015	—

Note:

注意

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在霸天的环境中不要超过6个月,否则盘具可能会受损

Stranded Non-metallic Air-blowing Micro Cable

层绞式非金属气吹光缆

Description 产品描述

The fibers, 250pm, are positioned in a loose tube made of a high modulus plastic. The tubes are filed with a water-resistant filling compound. A Fiber Reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (or fillers) are stranded around the strength member into a compact and circular core. The cable core is protected from water ingress by water-blocking yarn. The cable is completed with a HDPE sheath

微型层绞式非金属光缆是将250pm单模或多模光纤套入高模甦材料制成的松套管中，套管内填充无毒、无害的防水化合物。缆芯的中心是一根非金属加强芯(FRP),松套管(或填充绳)围绕中心加强芯交合成紧凑的圆形统芯。加强芯外设有阻水纱，再挤制黑色或彩色高密度聚乙烯 (HDPE)护套成统。

Characteristics 产品特点

- Non-mental design can prevent the cable from radio interference and magnetic wave interference 非金属的结构设计有效防止射频干扰和电磁波干扰
- Specially designed compact structure is good at preventing loose tubes from shrinking 特别设计的紧密的光缆结构，有效防止套管回缩
- Loose tube filling compound ensure good moisture resistance performance 松套管内填充特种油會，充分保证了光缆的防水性能
- Good flexibility 具有良好的柔软性
- High dense fiber packed, small diameter and light weight, it's the better option for blowing installation process 光纤组装密度高，缆径小，重量轻，是气吹敷设方式的最佳选择

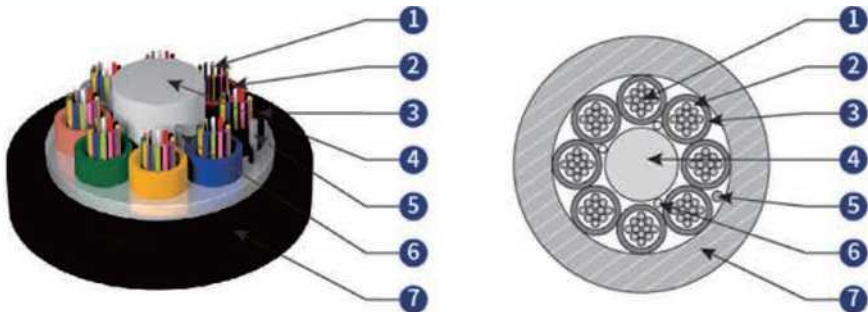
Application 应用

Adapted to backbone network, access network an 利用微管资源，特别适用于骨干网、接入网和光纤到户

Structure Drawing 结构图

Structure Drawing
结构图

- Fiber 光纤
- Tube Filling Compound 套管填充物
- Loose Tube 松套管
- FRP Strength Member 非金属加强芯
- Ripcord 开缆绳
- Water Blocking Yarn 阻水纱
- PE Sheath 聚乙烯护套



Specifications 参数

Technical Parameters结构参数

Cable Type 光缆型号 (Increased by 2 fibers) (以2 纤递增)	Fiber Count 光 纤数	Tubes 套 管数	Fillers 填充 绳数	Cable Diameter 光 统直径 (mm)	Cable Weight (Ref) 参考光缆重 最 (kg/km)	Tensile Strength	Crush Resistance	Bending Radius
						允许抗伸力 Long/Short-term 长期/短期 (N)	允许压扁力 Long/Short-term 长期/短期 (N/100mm)	漙曲半径 Dynamic/Static 动态/静态 (mm)
GCFYF-24~72Xn	24-72	2-6	4-0	5.6	21	150/500	150/450	10D/20D
GCFYF-96Xn	96	8	0	6.4	31	250/800	150/450	10D/20D
GCFYF-144Xn	144	12	0	8.3	49	250/800	150/450	10D/20D

Storage/Operating Temperature: -40°C-+70°C 储存/
使用温度: -40X-+70°C

Optical Characteristics光学特性

Fiber Type 光纤 类型	Attenuation				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Xcc 光 统截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MH 乙 km	NA	nm
G.652			<0.36	W0.22	—	—	—	<1260
G.655			<0.40	W0.23	—	—	—	<1450
50/125nm	W3.3	<1.2	—	—	>500	>500	—	—
62.5/125gm	W3.5	WL2	—	—	>200	>500	0.275±0.015	—

Note:

注意

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的环境中不要超过6个月，否则盘具可能会受损

Armored Anti-rodent Optical Cable

铠装防鼠光缆



Description 产品描述

Armored rodent-proof optical cable is a new type of mobile optical cable with ultra-light, high mechanical strength and excellent light conductivity. The product adopts a number of advanced technologies and new materials, and is specially designed for the needs of fast wiring and building optical networks in the field and emergency conditions, and is a reusable optical cable.

铠装防鼠光缆是一款新型的、超轻的、高机械强度的及优良导光案的移动光缆。产品采用了多项先进的工艺和新型的材料，专门针对野外和 应急条件下快速布线组网需求而设计的，反复使用的光缆。

Armored optical cable assembly is composed of armored optical cable, light and durable aluminum alloy reel, high-precision connector and conversion line, and can also be equipped with flight case and professional repair tools as required. The most notable features of this component are the small outer diameter of the optical cable, small size, lightweight, high mechanical strength, good bending resistance, and stable transmission. It is an ideal tool for the field.

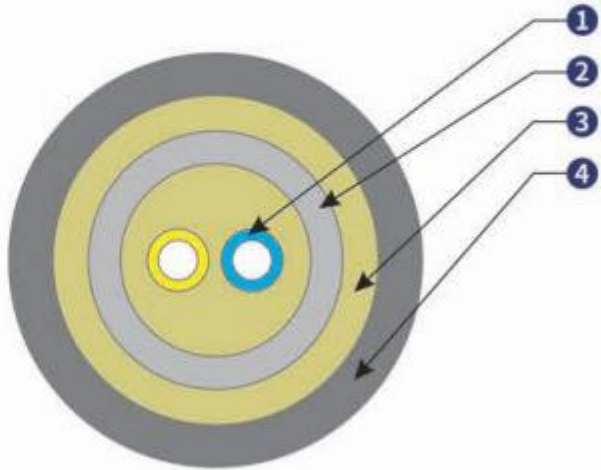
铠装光缆组件由铠装光缆、轻质耐用的铝合金线盘、高精度接头以及转换线组成，根据需要还可配置航空箱、专业的抢修工具。本组件最显 着的特点是光缆外径小、体积小、重量轻、机械强度高、抗弯性好、传输稳定，是现在野外理想的工具。

Characteristics 产品特点

- Small size: the outer diameter is only 2.6-2.8mm, and the 500-meter module only needs a P30cm reel, which is much more convenient than the traditional optical cable; 体积小:外径只有2.6~2.8mm,500米组件只需要0>30cm的线盘，比传统的光缆方便很多；
- Light weight: the net weight of the optical cable is less than 8.5KG/km, and the standard 1000-meter component belt reel does not exceed 14KG, which is more than half lighter than the traditional doubled cable; 重攢轻: 光纈净重小于8.5KG/km,标准的1000米组件带线盘不超过14KG,比传统的被复线轻一半以上；
- High strength: the optical cable is armored with tiny soft steel pipes, and a large number of high-modulus aramid fibers are used, which can withstand a tensile strength of more than 1000N and a compressive strength of more than 5000N/10CM; 强度高: 光缆采用微小软钢管铠装，大IE使用高模量芳纶芳，可以承受1000N以上的抗拉强度， 5000N/10CM以上的抗压强度；
- Small attenuation: The optical cable adopts advanced technology and special bending-resistant single-mode optical fiber, equipped with high-precision field connectors, which can connect up to 20KM links atone time, and the attenuation value is less than 20dB. 衰减小: 光纈采用先进工艺和特种的抗弯曲单模光纤，配以高精度野的战接头，可以一次连接高达20KM的链路， 衰减值小于20dB.
- Large amount of business: Compared with the traditional double line, the data business carried by optical fiber is more than 100 times larger, and can directly transmit high-definition video. 业务有最大: 与传统的被复线相比，光纤承载的数据业务大是其100倍以上，可以直接传输高清视频。

Structure Drawing 结构图

1. Colored optical fiber
着色光纤
2. Spiral armor
螺旋铠装
3. Aramid fiber
芳纶
4. Outer sheath
外护套



Specifications 参数

Technical Parameters 结构参数

Fiber Core 光纤芯数	Outer Diameter 外径 (mm)	Tensile Strength 允许拉伸力		Crush Resistance 允许压扁力		Min. Bending Radius 最小弯曲半径		General Attenuation (with connector) 一纈衰减(含接头) (dB/km)		Applicable Temperature Range 适用温度范围 (°C)	Net Weight (include drum) 净重(含盘具) (kg/500m)
		Long Term 长期 (N)	Short Term 短期 (N)	Long Term 长期 (N/100mm)	Short Term 短期 (N/100mm)	Static 静态 (mm)	Dynamic 动态 (mm)				
								1310nm	1550nm		
1-2	2.5	800	1500	3000	5000	30	60	W0.45	W0.35	-40~85°C	W7.5
1-2	2.8	800	1500	3000	5000	30	60	<0.45	W0.35	-40~85°C	<9.0
4	3.0	800	1500	3000	5000	30	60	W0.45	W0.35	-40-85°C	W12
6	3.5	800	1500	3000	5000	30	60	W0.45	W0.35	-40-85°C	—

Uni-tube Non-metallic 73 Sheath Light-weight Lighting Rodent Protection Cable (GYQFXTY73)

(GYQFXTY73)非金属中心管式73护套轻型防雷防鼠光缆

Description 产品描述

The fibers, single-mode or multi-mode, are positioned in a loose tube mode of the high modulus PETG. The tubes are filled with a ater-resistant filling compound. Over the tube, water-blocking material is applied to keep the cable watertight. And wrapping of fiber inforced plastic (FRP) bars. Cable core is completed with a polyethylene sheath. The cable is completed with a polyethylene (PE) eath after longitudinal covering with fiber reinforced plastic (FRP) tape.

GYQFXTY73光缆塔构是将单模光纤或多模光纤套入由高模置的聚脂材料做成的松套管中，套管内填充防水化合物。松套管外加阻水料以 保证光缆的纵向渗水，松套管外FRP杆绕包后成缆，在统芯外挤上一层聚乙烯内护套,FRP带纵包后挤制聚乙烯外套成缆。

Characteristics 产品特点

- Accuracy controlling excess fiber length provides a highly mechanical and temperature performance to the cable
精确控制的光纤余长保证了光缆具有的良好机械性能和温度性能
- High strength loose tube that is hydrolysis resistant
松套管材料本身具有良好的耐水解性能和较高的强度
- Special tube filling compound ensure a critical protection of fiber
管内充以特种油骨，对光纤进行了关键性保护
- Highly Lateral pressure resistance and flexibility
良好的抗侧压性和柔软性
- A layer of wrapping FRP ensured the tensile strength of the cable, have a good protection to the loose tube 一层绕包FRP保了
光缆的拉伸强度，同时对松套管有较好的保护作用
- The armored wrapping FRP and the FRP tape makes the cable an excellent Rodent protection 绕包FRP和FRP带铠装使光缆具
有优良的防鼠性能
- The outer sheath of polyethylene have high UV-stabilized ability
聚乙烯(PE)护套具有很好的抗紫外线辐射性能
- Small diameter, light weight and friendly installation
直径小、重贵轻、容易敷设

Standards 产品标准

GYQFXTY73 cable complies with Standard YDT 769-2010 as well as IEC 60794-1.
GYQFXTY73 光缆符合 YD/T 769-2010标准和 IEC 60794-1标准。

Structure Drawing 结构图



Specifications 参数

Technical Parameters 结构参数

Cable Type 光缆型号 (Increased by 2 fibers (以2纤递增))	Fiber Count 光纤数	Cable Weight (Ref) 参 考光缆重受 (kg/km)	Tensile Strength 允 许拉伸力 Long/Short-term 长 期/短期 (N)	Crush Resistance 允 许压扁力 Long/Short-term 长 期/短期 (N/IOOmm)	Bending Radius 弯 曲半径 Dynamic/Static 动 态/静态 (mm)
GYQFXTY73-2 ~12Xn	2~12	97			
GYQFXTY73-12-24Xn	14-24	111	600/1500	300/1000	10D/20D
GYQFXTY73-26~36Xn	26-36	148			

Storage/Operating Temperature: -40°C~+70°C 储存/
使用温度：-40°C~+70°C

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Xcc 光 缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			W0.36	W0.22	—	—	—	<1260
G.655			<0.40	W0.23	—	—	—	W1450
50/125 μm	W3.3	<1.2	—	—	>500	>500	0.200±0.015	—
62.5/125 μm	W3.5	<1.2	—	—	>200	>500	0.275±0.015	—

Note:

注意:

a. SuffixXn denotes fiber type

型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在簷天的环境中不要超过6个月，否则盘具可能会受损

Application: Duce/Aerial 适用：
管道、架空

Uni-tube Non-metallic Lighting Rodent Protection Cable(GYQFXTY)
(GYQFXTY)非金属中心管式防雷防鼠光缆

Description产品描述

Characteristics产品特点

Standards产品标准

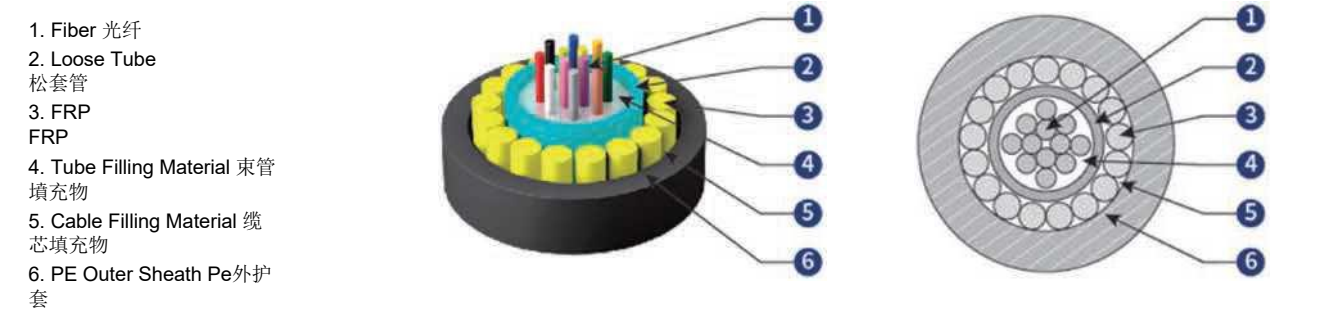
The fibers, single-mode or multi-mode, are positioned in a loose tube mode of the high modulus PETG. The tubes are filled with a water-resistant filling compound. Over the tube, water-blocking material is applied to keep the cable watertight. And wrapping of fiber reinforced plastic (FRP) bars. The cable is completed with a polyethylene (PE) sheath.

GYQFXTY光境结构是将单模光纤或多模光纤套入由高模fil的聚脂材料做成的松套管中，套管内填充防水化合物。松套管外加阻水材料以保 证光境的纵向渗水，松套管外FRP杆绕包后护套成缆。

- Accuracy controlling excess fiber length provides a highly mechanical and temperature performance to the cable
精确控制的光纤余长保证了光缆具有的良好的机械性能和温度性能
- High strength loose tube that is hydrolysis resistant
松套管材料本身具有良好的时水解性能和较高的强度
- Special tube filling compound ensure a critical protection of fiber
管内充以特种油膏，对光纤进行了关键性保护
- Highly Lateral pressure resistance and flexibility
良好的抗侧压性和柔软性
- A layer of wrapping FRP ensured the tensile strength of the cable, has a good protection to the loose tub 一层绕包FRP保证了光纈的拉伸强度，同时对松套管有较好的保护作用
- The outer sheath of polyethylene have high UV-stabilized ability
聚乙烯(PE)护套具有很好的抗紫外线辐射性能
- Fully dielectric cable, during the installation and operation groundings not needed, eliminates any electronic influence or cable
全介质光统，不用接地，不会遭雷击

GYQFXTY cable complies with Standard YD/T 769-2010 as well as IEC 60794-1.
GYQFXH光缆符合YD/T769-2010标准和IEC 60794-1标准

Structure Drawing 结构图



Specifications 参数

Technical Parameters结构参数

Cable Type 光缆型号 (Increased by 2 fibers (以2纤递增))	FibreCount 光纤数	Cable Weight (Ref) 参 考光缆重il (kg/km)	Tensile Strength 允许拉伸力 Long/Short-term 长期/短期 (N)	Crush Resistance 允许压扁力 Lon g/Short term 长期/短期 (N/IOOmm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
			600/1500	300/1000	10D/20D
GYQFXTY-2-12Xn	2-12	66			
GYQFXTY-14-18Xn	14 ~ 24	79			
GYQFXTY-26~36Xn	26 ~ 36	86			

Storage/Operating Temperature: -40°C~+70°C
储存/使用温度： -40°C~+70°C

Optical Characteristics光学特性

Fiber Type 光纤类型	Attenuation 衰减				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength Xcc 光 缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			W0.36	W0.22	—	—	—	<1260
G.655			<0.40	W0.23	—	—	—	W1450
50/125nm	W3.3	<1.2	—	—	>500	>500	0.200±0.015	—
62.5/125 μm	W3.5	W1.2	—	—	N200	>500	0.275±0.015	—

Note:
注意:

a. SuffixXn denotes fiber type
型号的后缀Xn表示选用的光纤类型

b. The color arrangements of fiber and tube are specified in the color identification table 套管和光纤的颜色排列见色谱表

c. The cable shouldn't store in outdoor environment more than 6 months in order to keep the cable reel good state 光缆在露天的环境中不要超过6个月，否则盘具可能会受损

Application: Duct/Aerial 适用：
管道、架空

Sensing optical cable

油井传感光缆

Description

产品描述

Oil well sensing optical cable is a sensing optical cable used for monitoring underground temperature and sound waves. The optical cable is composed of four layers: an outer seamless steel pipe, an aluminum sheath, an inner seamless steel pipe, and an outer PP or HDPE sheath. The product has strong mechanical and sealing properties and is suitable for oil well sensing and monitoring applications below 300 °C.

油井传感光缆是一种用于井下温度，声波监测的传感光缆。光缆由外层无缝钢管、铝护套、内层无缝钢管、外层PP或HDPE护套四层结构组成，产品具有很强的机械性能和密封性能，适用于300℃以下油井传感监测应用。

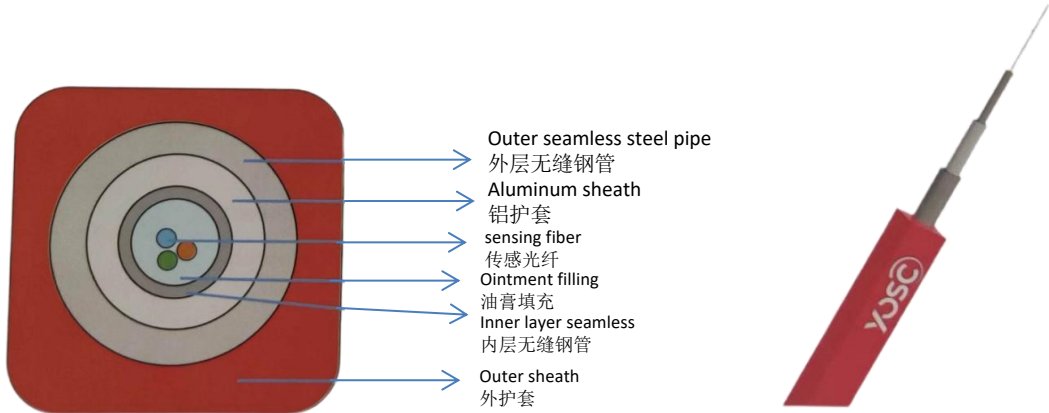
Characteristics

产品特点

- o Three layer seamless tube protection ensures the mechanical strength and good sealing of the optical cable
- o 三层无缝管保护，确保光缆机械强度和很好的密封性
- o Accurate fiber length control ensures that the sensing fiber is in its own state and is not affected by external forces
- o 精确的光纤余长控制，让传感光纤处于自有状态，不受外力影响
- o Seamless steel pipes are made of 316 stainless steel or nickel 825 material, which has good corrosion resistance
- o 无缝钢管采用316不锈钢或镍825材质，有较好的耐腐蚀强度
- o Seamless aluminum sheath has excellent hydrogen resistance and isolation performance
- o 无缝铝护套有很好的阻氢，隔氢性能
- o The square outer sheath is easy to fix and install in the well, and has a good cushioning and protection effect on mechanical impact

Structure Drawing

结构图



Specifications

参数

项目 item	项目 item	参数或说明 Parameter or Description
光纤optical fiber	光纤类型Fiber type	
内无缝钢管Inner seamless steel pipe	材质material	
	外径outside diameter	
铝管aluminum tube	材质material	
	外径outside diameter	
外无缝钢管External seamless steel pipe	材质material	
	外径outside diameter	
外护套Outer sheath	材质material	
	外径outside diameter	
最大衰减Maximum attenuation	最大衰减（20℃） Maximum attenuation (20 °C)	
机械特性mechanical properties	长期工作拉力 Long term working tension	
	短期工作拉力 Short term working tension	
机械特性mechanical properties	工作温度 operation temperature	
	耐压强度 compressive strength	
重量weight	光缆净重 Net weight of optical cable	

Application

应用

300℃以下油井专用传感光缆

RF Device

射频设备

General Description 概述

In the mobile communication system, the source signal is evenly distributed to various indoor areas through passive power distribution devices such as power splitters and directional couplers, feeders, and indoor antennas to achieve extended indoor coverage.

在移动通信系统中，源信号通过功分器和定向耦合器、馈线、室内天线等无源配电器件，将源信号均匀分配到室内各个区域，实现室内的扩展覆盖。

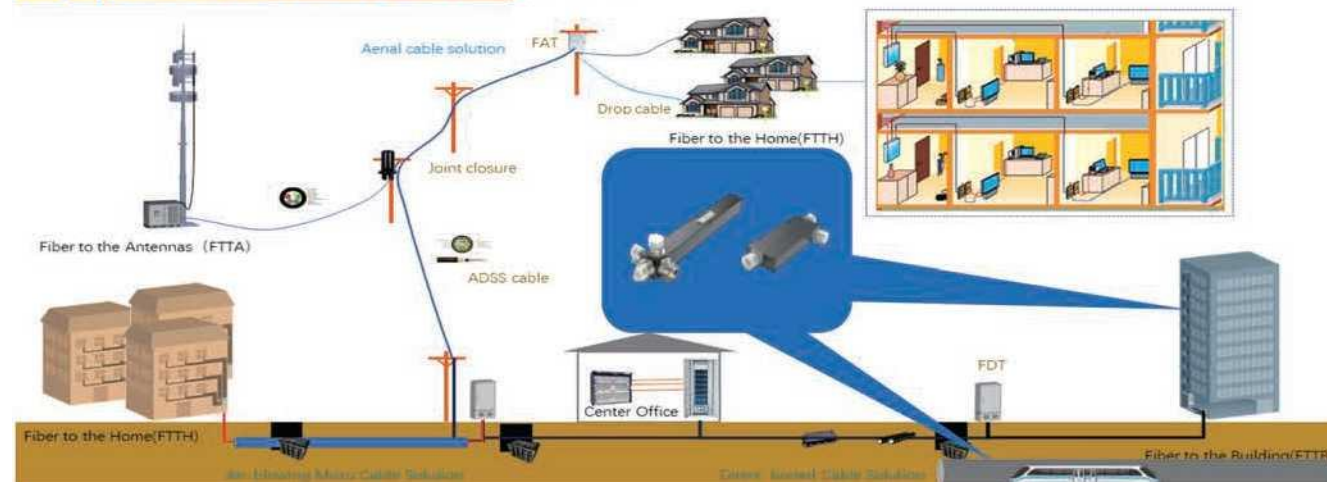
Characteristics 产品特点

- Wide Frequency Band, can cover 4G/5G system; 宽频带，可覆盖4G/5G系统；
- Low Insertion Loss; 低插入损耗；
- N, 7/16 DIN, 4.3-10 connectors are available; 提供 N、7/16DIN、4.3-10 连接器；
- IP65 / IP67 Waterproof Standard Ip65/IP67防水标准

Applications 产品应用

- Subway and tunnel signal coverage 地铁和隧道信号覆盖
- Airport, convention center, shopping mall signal coverage 机场、会展中心、商场信号覆盖

Application Scenario 应用场景



XB-RF-CA



XB-RF-DQ



XB-RF-GF



XB-RF-HL



XB-RF-OH



XB-RF-POI

Technical Parameters 技术参数

Model 型号	Product Name 产品名称	Frequency Range 频率范围 (Ghz)	
XB-RF-GF	Power Splitter 功分器	0.7-6.0	
XB-RF-OH	Directional Coupler 耦合器	0.7-6.0	
XB-RF-DQ	Hybrid Coupler 电桥	0.7-6.0	
XB-RF-HL	Combiner 合路器	According to customer's * 根据客户要求	requirement
XB-RF-POI	Point of interface 多系统接入平台	According to customer's 根据客户要求	requirement
XB-RF-CA	Rf Connector & Adapter 射频连接器和适配器	0.7-6.0	

Optical Transceivers

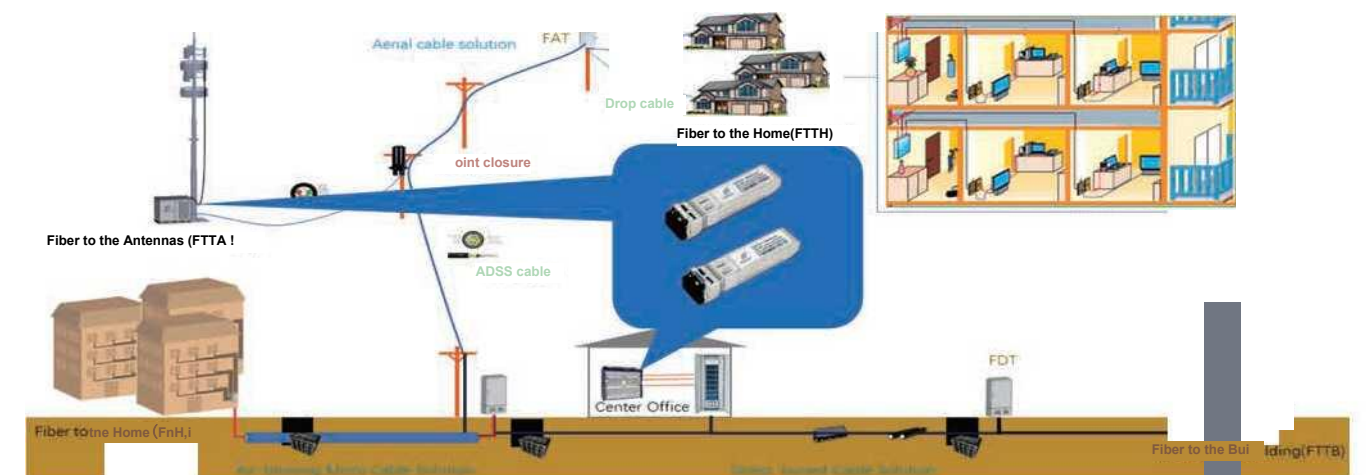
光收发器

General Description 概述

We provide a wide range of optical module products for data transmission, including SFP+, QSFP+, SFP28, QSFP28, CFP, CFP2, CFP4, AOC, etc., which are used to meet the requirements of intra-rack equipment interconnection, inter-rack equipment interconnection and machine room equipment interconnection in the data center. It provides efficient solutions for low power consumption, high speed and high-density data center interconnection.

我们提供范围广泛的用于数据传输的光模块产品，包括SFP+、QSFP+、SFP28、QSFP28、CFP、CFP2、CFP4、AOC5,用于满足数据中心机架内设备互联、机架间设备互联和机房设备互联需求。为低功耗、高速、高密度数据中心互联提供高效解决方案。

- ATM and SONET/SDH ATM 和 SONET/SDH
- Host adaptor interconnects 主机适配器互连
- Buss or channel extenders 总线或通道扩展器
- Mass storage interconnects 大容量存储互连
- Telecom switches and routers 电信交换机和路由器





Technical Data

技术参数

Model型号	Encapsulated Type 封装类型	Package Size 包装尺寸 L*W,H (mm)
XB-TR-SFP	SFP	45x13.7x8.6
XB-TR-SFP+	SFP+	47.5x13.5 X8.55
XB-TR-XFP	XFP	78x18.35 x8.5
XB-TR-QSFP+	QSFP+	78x18.35x8.5
XB-TR-QSFP28	QSFP28	78x18.35x8.5
XB-TR-CFP	CFP	144.75x82x13.6
XB-TR-CFP2	CFP2	107.5x41x12.4
XB-TR-CFP4	CFP4	92x21x9.5
XB-AOC-SFP+	SFP+	47.5x13.5x8.55
XB-AOC-QSFP+	QSFP+	78x18.35x8.5

IDC Products

数据中心产品

Description

产品描述

Solved the heat dissipation issues in modern machine rooms, saved energy and reduced consumption by improving air circulation management i.e. sealing the inlets on both ends of the cold channel to form a spatial cold storage channel based on years of practical experience.

It is applied to cloud computing, IDC and other data transmission machine rooms.

多年实践经验，通过改善空气流通管理，即封闭冷通道两端进风口，形成空间冷库通道，解决现代机房散热问题，节能降耗。适用于云计算、IDC等数据传输 机房。

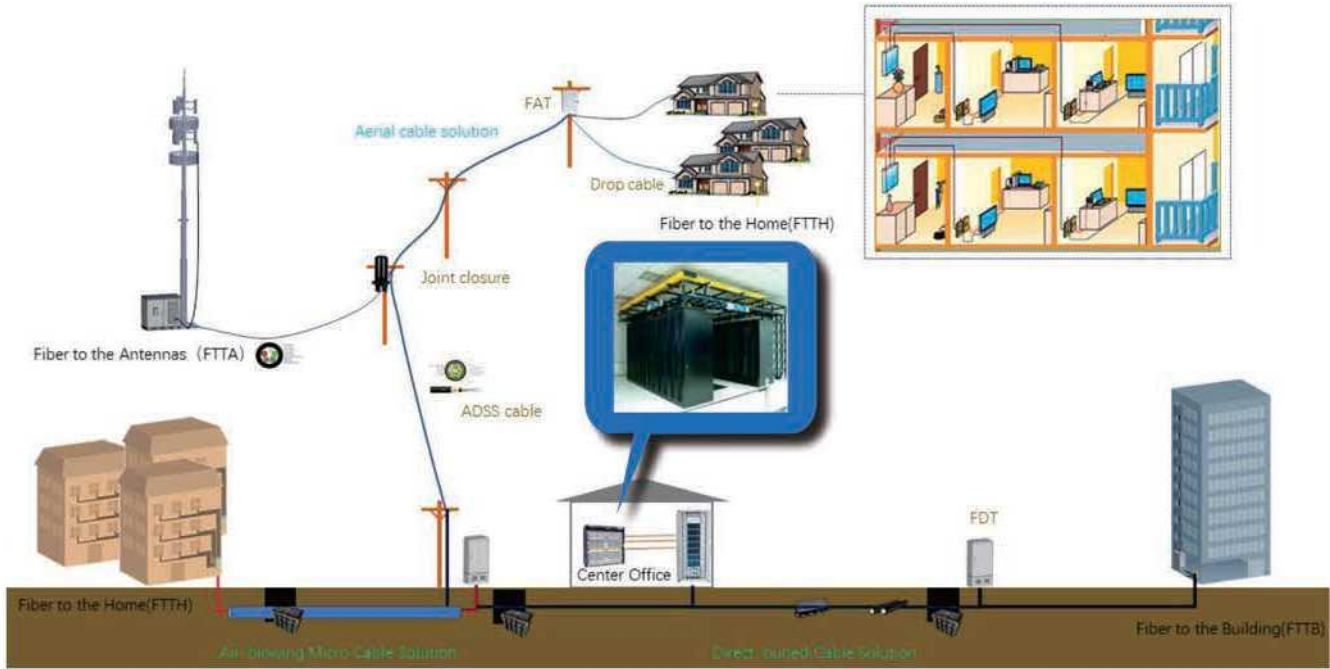
Characteristics

产品特点

- High-quality cold-roll steel sheet and electrostatic plastic powder sprayed surface; 优质冷轧钢板，表面静电塑料喷涂；
- good rigidity and intensity and prevention capabilities of cabinet; 柜体刚性好、强度好、防护能力强；
- Good ventilation and heat dissipation; optional upper air inlet front air inlet and lower air inlet modes; 良好的通风散热；可选上进风前进风和下进风两种方式；
- Good universality: applicable to large integrated communication network machine rooms or remote communication machine rooms; 通用性好：适用于大型综合通信网络机房或远程通信机房；
- large bearing capacity and adaptation for installation of large and heavy servers; 承载能力大，适应安装大型、重型服务器；

Application Scenario

应用场景



Technical Data

技术参数

Model型号	Dimension W*D 尺寸(mm)	Power功率	Material 材料
XB-IDC-AC	300x1000/1200	20~40KW	—
XB-IDC-C	600x1000/1200	42U/47U	Cold-rolled steel
XB-IDC-CR	width:200~1000	—	U-shaped steel/Al- profile
XB-IDC-FC	width:120/240	—	ABS Plastic

Optical Distribution Frame

光配线架

Description 产品描述

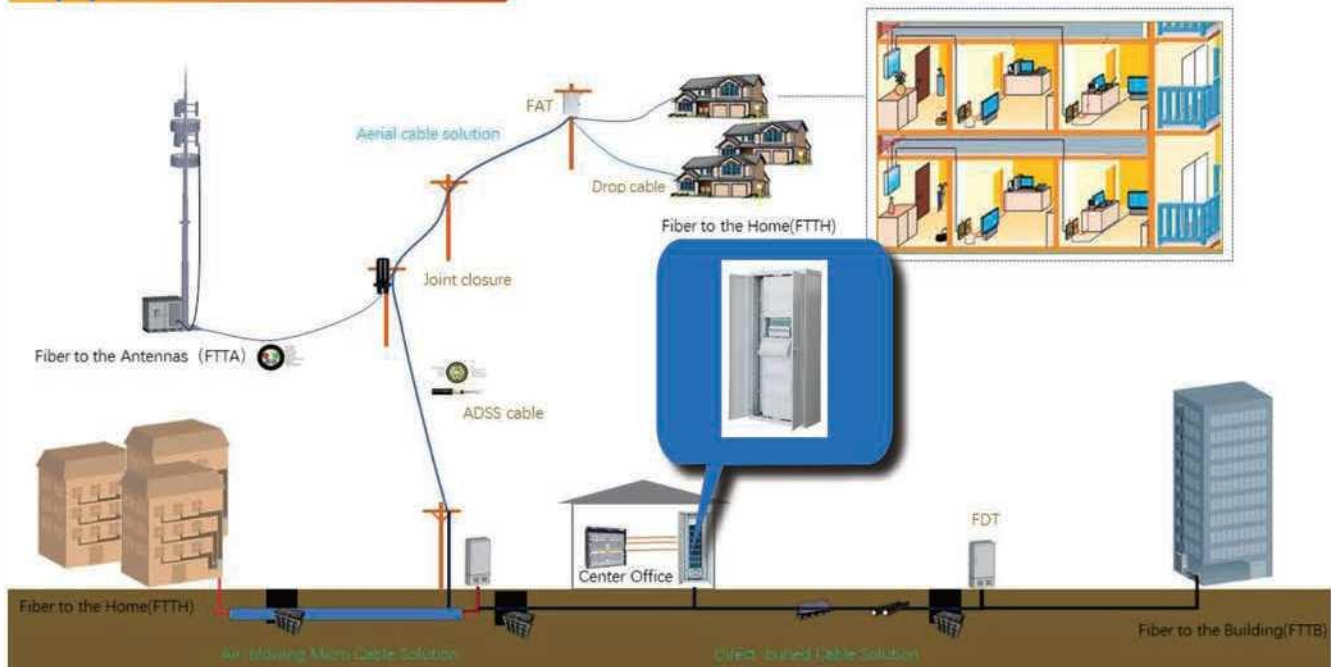
As a necessary device in the optical fiber communication system, the optical distribution frame (ODF) is connected with the external cable at one end and with the optical communication equipment at the other end in the optical fiber communication system for termination and distribution of the local side trunk optical cable to easily achieve connection, distribution and dispatching of the optical fiber circuit The main functions of the ODF include optical cable fixing, stripping and protection, optical fiber terminating and dispatching, optical cable fiber core, pigtail and jumper protection and storage.

光配线架(ODF)作为光纤通信系统中必不可少的设备，在光纤通信系统中一端与外接线系统相连，另一端与光通信设备相连，用于本地端接和配线。侧干 光缆轻松实现光纤线路的连接、分配和调度ODF的主要功能包括光缆固定、剥线和保护、光纤端接和调度、光缆纤芯、尾纤和跳线的保护和存储。

Characteristics 产品特点

- It is subject to full modular design and adopts a 12-core welding module; every 72 cores are considered as a unit sub-frame; 全模块化设计，采用12芯焊接模块；每72芯被认为是一个单位子框；
- Clearly identifiable; connection of each core of optical fiber is clearly marked; 清晰可辨；各芯光纤连接处有明显标识；
- It may adopt a wall-supported, back-to-back or side combined frame installation (set with front and rear, and left and right jumper holes), and can be completely operated from the front side; 可采用靠墙、背靠背或侧组合架安装(设置前后、左右跳线孔)，可完全从正面操作；
- Reliable optical fiber fixing, stripping and protective grounding devices; 可靠的光纤固定、剥线及保护接地装置；
- Provides optimal management solution for incoming optical cable and outgoing pigtail, well positioned for easy searching; 提供进线光缆和出线尾纤最优管理方案，定位方便，查找方便；
- Sub-frame with door may be operated separately; 带门副架可单独操作；
- Incoming and outgoing cables of optical cable and pigtail are independent and non-interfering; 光境、尾纤进出线独立互不干扰；

Application Scenario 应用场景



XB-ODF-D-1



XB-ODF-D-2



XB-ODF-D-3

Technical Parameters 技术参数

Model 型号	Dimension 尺寸	Capacity 容量	Material 材料
XB-ODF-D	2000x840x300	720f	
XB-ODF-D	2000x840x300	648f	Cold-rolled steel
XB-ODF-D	2000x840x300	864f	U-shaped steel/Al-profile

Fiber Optic Distribution Unit

光纤配线单元

Description 产品描述

Fiber optic distribution unit is the high-density fiber optic distribution frame developed by our company. It's suitable for both single core and ribbon fiber cable, especially suitable for indoor optical terminal in optical fiber system.

光纤配线单元是我公司研制开发的高密度光纤配线单元。适用于单芯和带状光缆，特别适用于光纤系统中的室内光终端。

Characteristics 产品特点

- The frame adopts front side cable operation, which is good view and save the installation space. 框架采用前拉线操作，视野好，节省安装空间。
- Fiber management structure adopts a unique splice and distribution design for fiber cable and pigtail, movable connection of pigtail and patch cord is finished in the same fiber management tray. 理好结构采用独特的光缆和尾纤裕接配线设计，尾纤和跳线的活动连接在同一个理纤盘内完成。
- Reasonable layout makes line clear and protects fiberoptic cable. 布局合理，线路清晰，保护光缆。
- Front panels suitable for FC, SC, ST adapter. 适用于FC、SC、ST适配器的前面板。

Applications 产品应用

Used in ODF(Fiber Optical Distribution Frame) and 19 inch rack in Optical Communication network. 用于光通信网络中的ODF(Fiber Optical Distribution Frame)和19英寸机架。

Application Scenario 应用场最



XB-ODF-D-2



XB-ODF-D-2



XB-ODF-D-2



XB-ODF-D-2

Technical specifications

技术参数

Model型号	Installation 安装	Capacity 容量	Material 材料
XB-FDU-T	19' Rack	12f/24f/48f/72f/96f	Steel/Aluminum
XB-FDU-M	19' Rack	12f/24f/36f/48f	Steel/Aluminum
XB-FDU-MG	19' Rack	12f/24f/36f/48f	Steel/Aluminum
XB-FDU-MZ	19' Rack	12f/24f/36f/48f	Steel/Aluminum

Fiber Distribution Cabinet

光缆交接箱

General Description

概述

Outdoor Fiber Optic Cabinet (Stainless Steel) is designed for the connection between the Optical fiber cable and the main points, and it is a kind of port device. It has the function of direct or indirect connection, coiling, storage, fiber splitting, and dispatching on the fiber cable. Cabinets are made of double side stainless steel, with the protection grade reaching IP65.

光缆交接箱(不锈钢)是专为光缆与主干点之间的连接而设计的，是一种端口设备。具有在光缆上直接或间接连接、盘绕、存储、分纤、调度等功能。箱体采用 双面不锈钢制作,防护等级达到IP65。

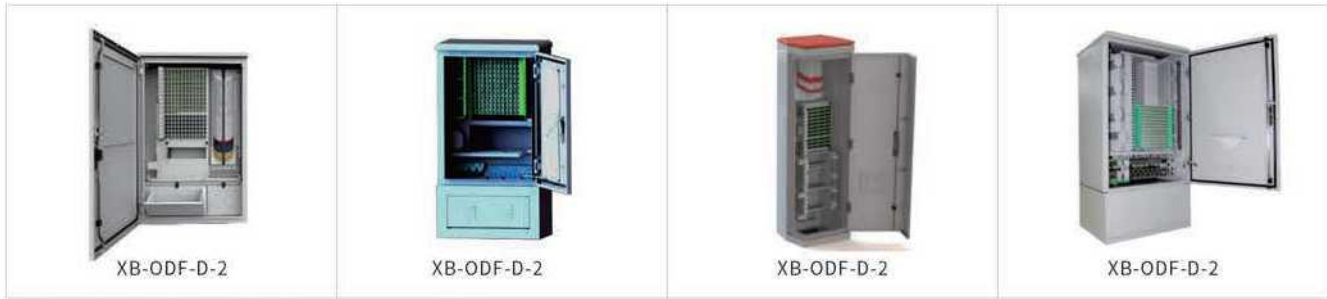
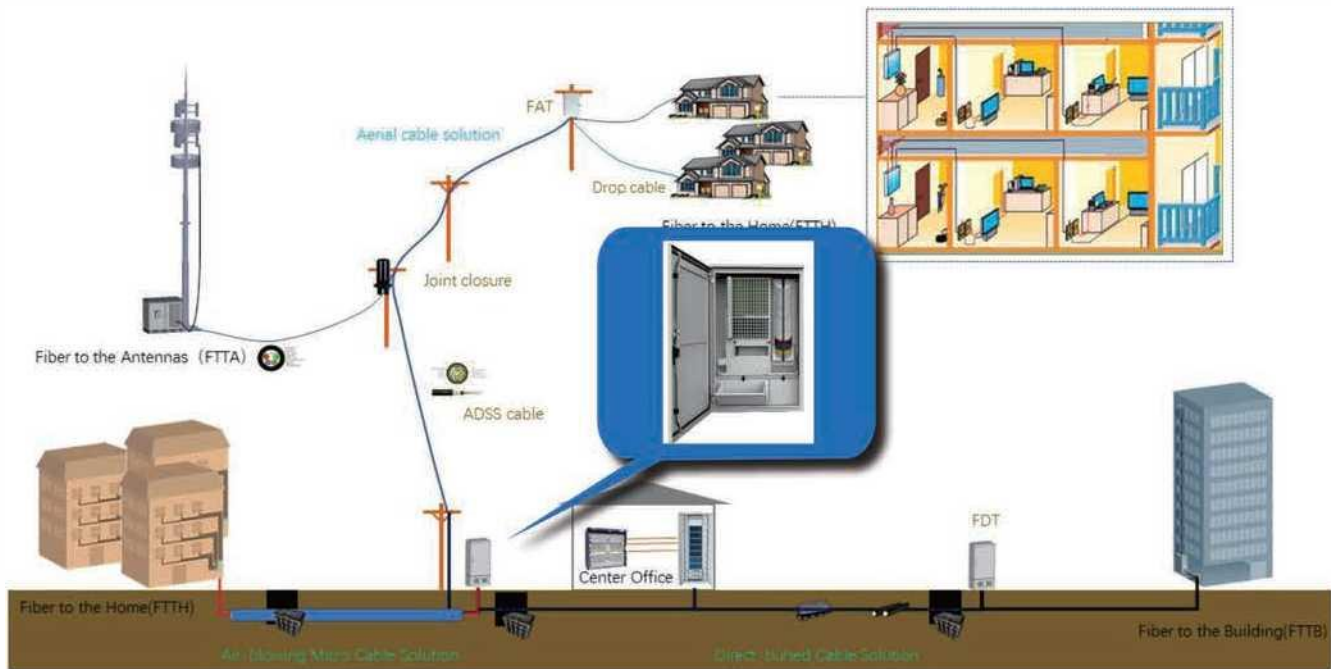
Features

特征

- Solid and fully-closed structure. 坚固的全封闭结构
- With advantages of nice performance of dust-proof appearance. 美观整洁的外观
- Nice water- and dust-resistant performance. 良好的防水和防尘性能
- Three-point lock provided on every cabinet ensure safety of fibers 机柜三点锁确保光纤安全
- Multifunction: various types of distribution units (DU) are available 适用于 SC、FC、LC 和 ST 适配器
- Accommodates SC, FC and LC and ST adapters 适用于 SC、FC、LC 和 ST 适配器
- Earth protection provided for every incoming optical cable 为每根引入的光缆提供接地保护

Application Scenario

应用场景



Technical Parameters

技术参数

Model型号	Dimension 尺寸	Capacity 容量	Material 材料
XB-FDC-256F	1100x700x200	256 F	304 Stainless Steel
XB-FDC-128F	1200x335x300	128 F	304 Stainless Steel
XB-FDC-576T	1450x750x600	576F	304 Stainless Steel
XB-FDC-144T	1035x560x310	144F	304 Stainless Steel

Fusion wiring separation type:

the end of the optical fiber in the optical fiber junction box is divided into different modules, which saves more space. 络配分离型：光纤接线盒中的光纤末端分为不同的模块，更节省空间。

Fusion wiring integration type:

fiber connection and termination in the same tray, which improve production efficiency.

培配一体化型：光纤连接和端接在同一个托盘中，提高了生产效率。

Fiber Optic Splice Tray

光纤熔接盘

Description

产品描述

Fiber Optic Splice Tray is used for optic fiber management, storage and fiber optic fusion protection, easy for installation and movement.

The splice tray expands fiber splice capabilities as well as provides the splicing location for fiber optic cables.

光纤熔接盘用于光纤管理、存储和光纤熔接保护，便于安装和移动。

熔接盘扩展了光纤熔接能力，并为光缆提供了熔接位置。

Characteristics

产品特点

- A 12-core as a unit, pigtail, cable, beam tubes have their own disk-line channels, hierarchical management, and effectively protect the cables from damage. 以12芯为单位，尾纤、光统、束管各有盘线通道，分级管理，有效保护线缆不受损坏
- Three-tier structure for wiring the bottom plate, the middle plate for welding the top to cover, welding, wiring integration, easy to operate 三层结构，底板走线，中板焊顶盖，焊接，走线一体化，操作方便
- Optical fiber at any position, bend radius is greater than 30mm 任意位置光纤，弯曲半径大于30mm
- Adapter in the follow-positive cells is in the angle of 30 degrees, not only guarantee the jump fiber bending radius of curvature, but also to avoid the laser eye injuries 适配器在跟随的正极单元中呈30度夹角，既保证了跳纤的弯曲曲率半径，又避免了激光对眼睛的伤害
- A variety of welding, wiring instructions, easy to do welding and wiring records 多种焊接、接线说明，轻松做好焊接接线记录
- SC, FC, LC, ST adapters are available 提供SC、FC、LC、ST适配器
- Suitable for ribbon and bunchy optical fibers. 适用于带状和束状光纤

Application

应用

Used in ODF (Fiber Optical Distribution Frame) and FDC (Fiber optical Distribution Cabinet) in Optical Communication network. 用于光通信网络中的ODF(光纤配线架)和FDC(光纤配线柜)。

Application Scenario 应用场景



技术参数

Model 型号	Dimension W*D 尺寸 (mm)	Capacity容量	Material 材料
XB-TP-2	25*288*180	12 F	ABS Plastics
XB-TP-3	25*288*180	12 F	ABS Plastics
XB-TP-5	27*300*200	12 F	ABS Plastics
XB-TP-6	25*200*180	12F	ABS Plastics

Fiber Optic Distribution Box 光纤分纤盒

Description 产品描述

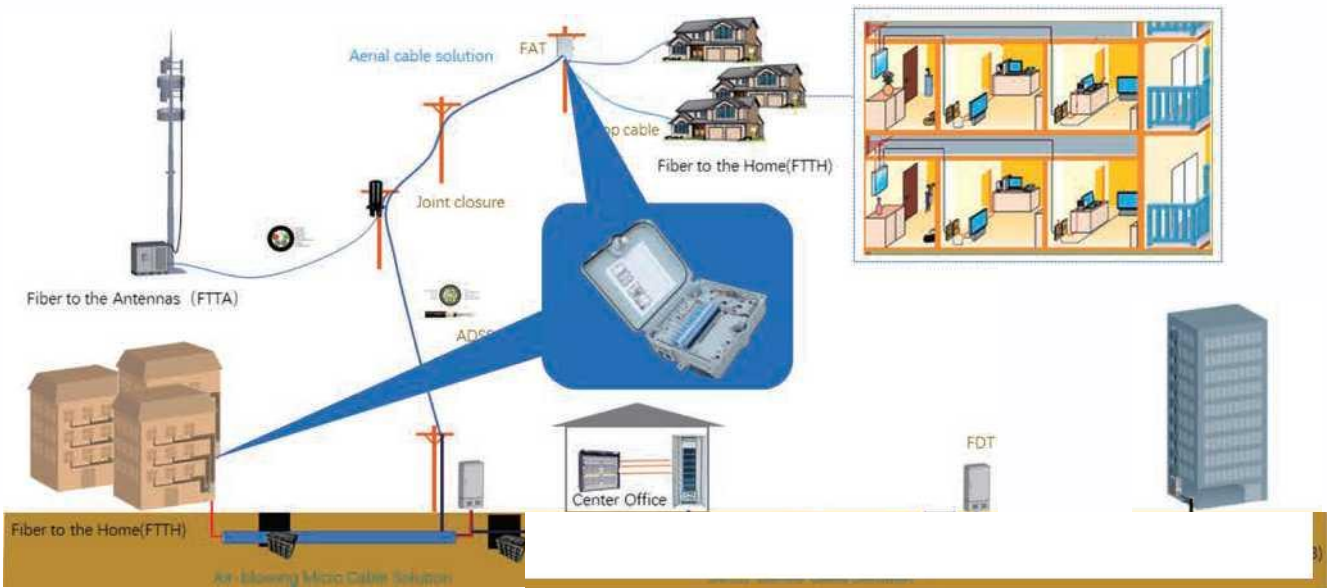
The equipment is used as a termination point for the feeder cable to connect with drop cable in FTTx communication network system. The fiber splicing, splitting, distribution can be done in this box, and meanwhile it provides solid protection and management for the FTTx network building.

该设备在FTTx通信网络系统中用作馈线电缆与分接电缆连接的端接点。光纤的熔接、分路、配线都可以在这个盒子里完成，同时为FTTx网络建设提供了坚实的保障和管理。

Features 特征

- Total enclosed structure, be in nice shape. 全封闭结构，外形美观。
- Material: PC+ABS, wet-proof, water-proof, dust-proof, anti-aging
材质：PC+ABS,防潮、防水、防尘、抗衰老
- Clamping for feeder cable and drop cable, fiber splicing, fixation, storage, distribution etc. all in one. 馈缆和入缆夹持、光纤熔接、固定、存储、分配等集于一身。
- Cable, pigtails, patch cords are running through own path without disturbing each other, cassette type SC adapter installation, easy maintenance. 光统、尾纤、跳线，互不干扰，盒式SC适配器安装，维护方便。
- Distribution panel can be flipped up, feeder cable can be placed in a cup-joint way, easy for maintenance and installation.
配纤盘可翻起，馈线可呈杼形放置，便于维护和安装。
- Most of the types can be installed by the way of wall-mounted or poled-mounted, suitable for both indoor and outdoor uses.
大多数类型可以采用壁挂式或抱杆式安装方式，适合室内和室外使用。

Application Scenario 应用场景



XB-FAT-6A



XB-FAT-8A



XB-FAT-8B



XB-FAT-8C



XB-FAT-8D



XB-FAT-16D



XB-FAT-12A



XB-FAT-24A



XB-FAT-12B



XB-FAT-24B



XB-FAT-16A



XB-FAT-24C



XB-FAT-16B



XB-FAT-24D



XB-FAT-16C



XB-FAT-24E





Technical specifications

技术参数

Photoelectric Properties 光电性能	
Insertion loss 插入损耗	sO.3dB
Return loss回波损耗	APC>60dB;UPC>50dB
Connector plug durability life连接器插头耐久寿命	1000 times

Joint Closure
接头盒

General Description 概述

Joint closure is mainly used for protecting the fiber optic junction between two cables and reserve a section of fiber optic for maintenance in the box. The box has good leak-proof, anti-water and damp-proof feature and its power line is corrosion resistant.

接头盒主要用于保护两根光缆之间的光纤接头，并在盒内预留一段光纤用于维护。箱体具有良好的防漏、防水、防潮功能，耐腐蚀。

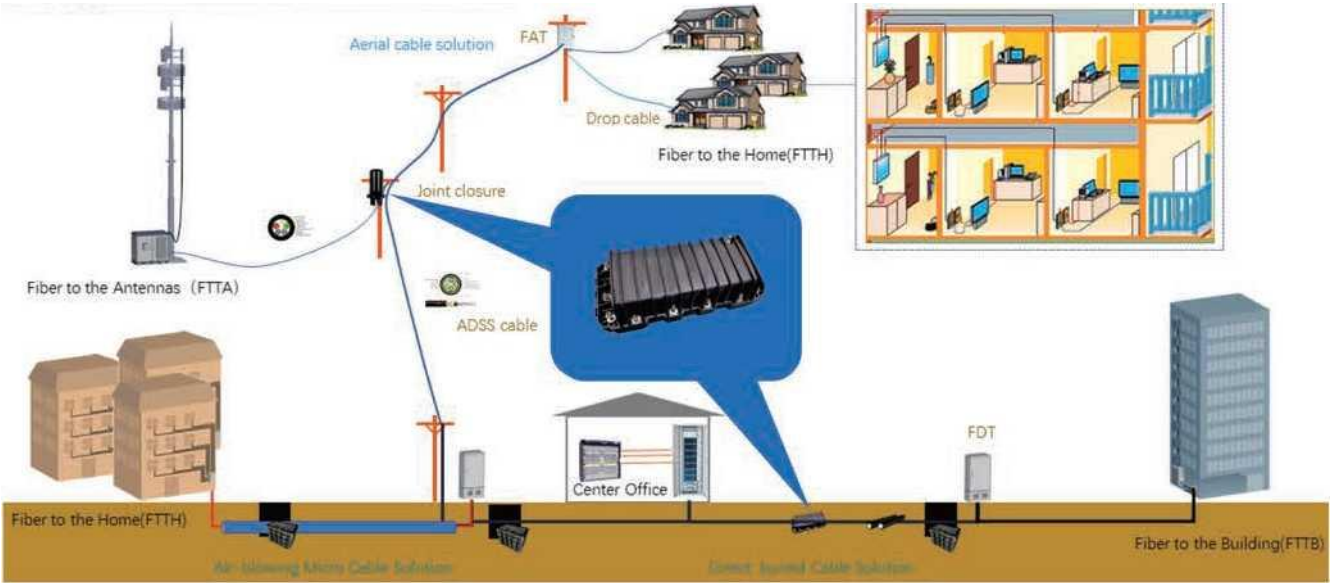
There are two types of the junction box, central and terminal one. The central type is used in the central part of the line to protect the two butted cables while the terminal I type is used in the end of the line for branching in the cable line or protecting the connection of the fiberoptic in the cable and the jumper.

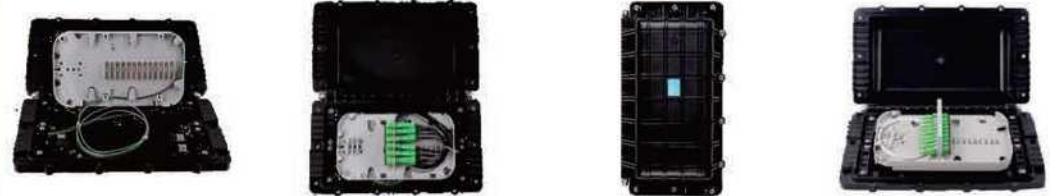
接头盒有两种类型，一种是接续盒，一种是终端盒。接续盒用于线路的中部，保护两根对接的光统，终端盒用于线路的末端，用于光缆线路中的分支或保护 光缆中光纤与跳线的转接。

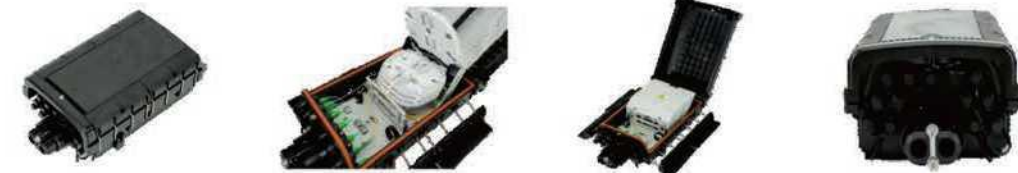
Features 特征

- The closure casing is made of quality engineering plastics, and of good performance of anti-erosion against acid and alkali salt, anti- aging, as well as smooth appearance and reliable mechanical structure. 封盖外壳采用优质工程塑料制成，具有良好的抗酸碱盐侵蚀、抗老化性能，外观光洁，机械结构可靠。
- The mechanical structure is reliable and has the performance of resisting wild environment and intensive climate changes and serious working environment. It can endure harsh conditions such as vibration, impact, tensile, cable distortion and strong temperature change The protection grade reaches above IP67; 机械结构可靠，具有抵御野外环境和强烈气候变化及恶劣工作环境的性能。可承受振动、冲击、拉伸、电缆扭曲、强烈温度变化等恶劣条件防护等级达 到IP67以上。
- The closures are applicable to ribbon type optical cable and common optical cable. 适用于带状光缆和普通光缆。
- The closure is of small volume, big capacity and convenient maintenance. 封口体积小,容最大，维修方便。
- The elastic rubber seal rings inside the closure are of good sealing, sweat-proof performance, and can be opened after sealing and can be reused. 封口体积小,容围大，维修方便。

Application Scenario 应用场景



XB-JC-F16A	
XB-JC-F24A	
XB-JC-F24B	
XB-JC-F48A	
XB-JC-F48B	
XB-JC-F48C	

XB-JC-F48D	
XB-JC-F48E	
XB-JC-F96A	
XB-JC-F96B	
XB-JC-F96C	
XB-JC-F96D	
XB-JC-F144A	



Dome Type Joint Closure 帽式接续盒



XB-JC-M576A



XB-JC-M768A



XB-JC-M864A



XB-JC-M960A



Half Type Joint Closure 哈夫式撞续

XB-JC-W96A



XB-JC-W96B



XB-JC-W96A



XB-JC-W96B



XB-JC-W96C



XB-JC-W144A



XB-JC-W144B



XB-JC-W196A



XB-JC-W288A



XB-JC-W288B



Fiber Optic Faceplate 光纤面板

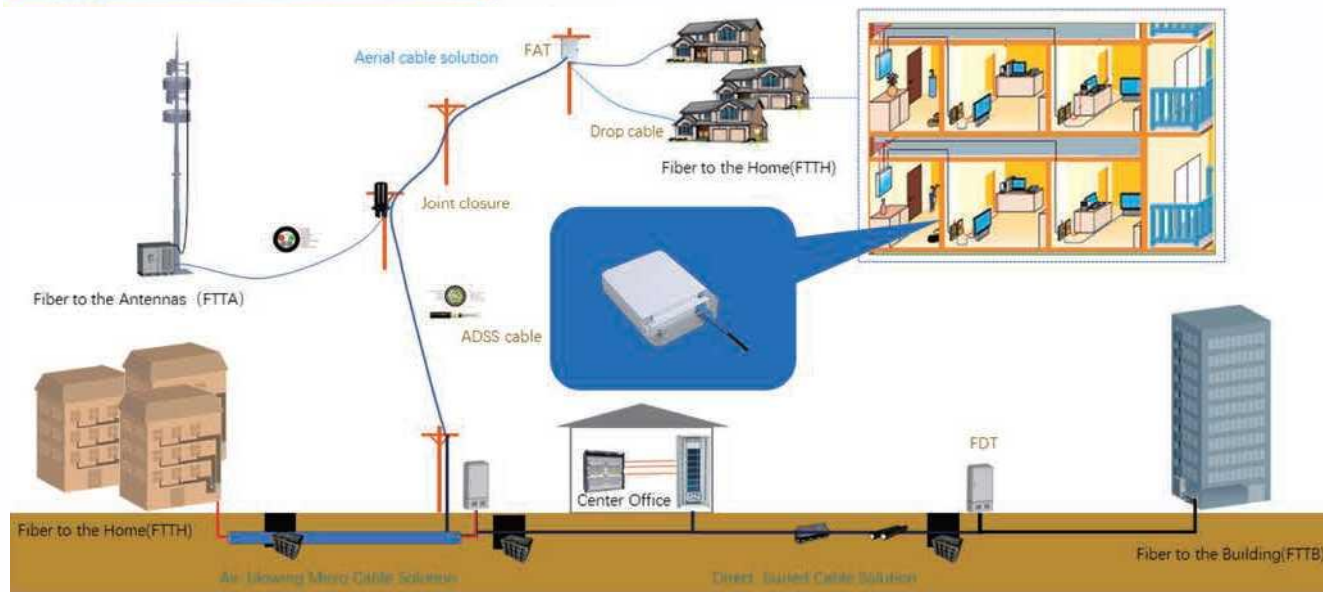
General Description 概述

- Suitable for many types of modules, used in cabling work area subsystem
适用于多种类型的模块，用于布线工作区子系统
- Embedded type surface, easy for installation and removal
嵌入式表面，安装拆卸方便
- Available to fiber optic SC simplex or LC duplex and can be used in both surface mounted installation and concealed panel installation 可用于光纤SC单工或LC双工，可用于表面安装和暗装面板安装

Features 特征

- Optical fiber communication system 光纤通信系统
- Fiber optic CATV, FTTH Fiber to the Home 光纤CATV、FTTH光纤到户
- Optical fiber access network 光纤接入网
- Testing instruments, fiber optical sensors 检测仪器、光纤传感器
- Fiber optic patch panels, cabinet type or wall-mounted type fiber optic distribution units 光纤配线架、柜式或壁挂式光纤配线单元

Application Scenario 应用场景



Photoelectric Properties 光电性能

Insertion loss 插入损耗

Return loss 回波损耗

Connector plug durability life 连接器插头耐久寿命

s0.3dB
APC>60dB;UPC>50dB
1000 times

PLC Splitter PLC分路器

General Description 概述

As an optical fiber device with 1/2 input ends and N output ends, the optical splitter is generally used to connect the local and terminal equipment and achieve optical signal branching and distribution functions in the passive optical network. The company provide two categories of optical splitters in the market i.e. PLC splitter and FBT splitter.

光分路器作为具有1/2个输入端和N个输出端的光纤器件，在无源光网络中一般用于连接本地和终端设备，实现光信号的分支和分配功能。公司在市场上提供两类光分路器，即PLC分路器和FBT分路器。

Split ratio: 1*2 1*4 1*8 1*16 1*32 1*64 1*128 2*2 2*4 2*8 2*16 2*32 2*64 2*128. 分流比: 1*21*41*81-16 1*32 1*641*128 2*2 2,4 2*8 2*16 2*32 2*64 2*128.

Applications 产品应用

Applicable to the branch and distribution of optical signals in passive optical network (EPON, BPON, GPON, etc.) by connecting the bureau and terminal equipment.

适用于连接局端设备的无源光网络(EPON、BPON、GPON等)中光信号的分支和分配。



Application Scenario 应用场景



Technical Parameters 技术参数

IxNPLC optical splitter ixN PLC光分路器

		1*2	1*4	1*8	1*16	1*32	1*64
Operating wavelength 工作波长	(nm)	1260-1650					
Insertion loss 插入损耗	(dB)	4.1	7.4	10.5	13.8	17.1	20.4
Uniformity 均匀性	(dB)	0.6	0.7	0.8	1.0	1.5	2.0
Return loss 回波损耗	(dB)	45(PC); 50(UPC); 55(APC)					
Directivity 指向性	(dB)	55	55	55	55	55	55
2xN PLC optical splitter 2xN PLC光分路器							
		1*2	1*4	1*8	1*16	1*32	1*64
Operating wavelength 工作波长	(nm)	1260-1650					
Insertion loss 插入损耗	(dB)	4.4	7.7	10.8	14.1	17.4	20.6
Uniformity 均匀性	(dB)	0.6	0.7	0.8	1.0	1.5	2.0
Return loss 回波损耗	(dB)	45(PC); 50(UPC); 55(APC)					
Directivity 指向性	(dB)	55	55	55	55	55	55

Fiber Cables

General Description 概述

Fiber optic cable is the basic transmission medium in the communication network, we have a variety of fiber optic cables to match different construction and application scenarios, mainly outdoor fiber optic cable, indoor fiber optic cable, household fiberoptic cable, monitoring fiber optic cable, ant-rat cable, full dry fiber optic cable ETC.

光纜是通信網絡中的基本傳輸介質，我們有多種光纜來匹配不同的施工和應用場景，主要有室外光纜、室內光纜、戶用光纜、監控光纜、防鼠光纜、全干式光纜等。

Features 特征

- When outdoor cable is directly buried, armored cable should be selected. When overhead, optical cable with two or more reinforcing bars with black plastic outer sheath can be selected.
室外电缆直埋时，宜选用铠装电缆。架空时可选用两根或两根以上加强筋黑色塑料外护套光缆。
- The optical cable used in the building should pay attention to its flame retardant, toxic and smoke characteristics when choosing.
建筑物中使用的光纤在选择时应注意其阻燃、有毒、发烟的特性。
- Distribution Cables are available for vertical cable Distribution Cables in the building; Breakout Cables are available for horizontal wiring.
布线光缆可用于建筑物垂直布线;分支光缆可用于水平布线。
- If the transmission distance is within 2km, multi-mode optical cable can be selected; if the transmission distance exceeds 2km, relay or single-mode optical cable can be selected.
如果传输距离在2km以内，可选用多模光缆;如果传输距离超过2km,可选择中继或单模光缆。

Application 应用

Optical transmission system, Telecommunication networks, Connection of optical transmission equipment, CATV network, etc.
光传输系统、电信网络、光传输设备连接、CATV网络等。

Application Scenario 应用场景



Technical Parameters 技术参数

Model型号	Fiber Core光纤芯数
XB-ODFC-000I	4-256
XB-IDFC-0001	4-256
XBY-D FC-0001	1-2
XB-MFC-0001	6-96
XB-ARFC-0001	6-256
XB-FDFC-0001	6-256

FTTA Cable

拉远光缆

General Description 概述

The cable between the BBU and the RRU is called the radio frequency pulling unit (RRU) cable, among which the optical cable providing signal transmission for the RRU is called the radio frequency pulling unit (RRU) optical cable, and the cable providing power for the RRU is called the power line.

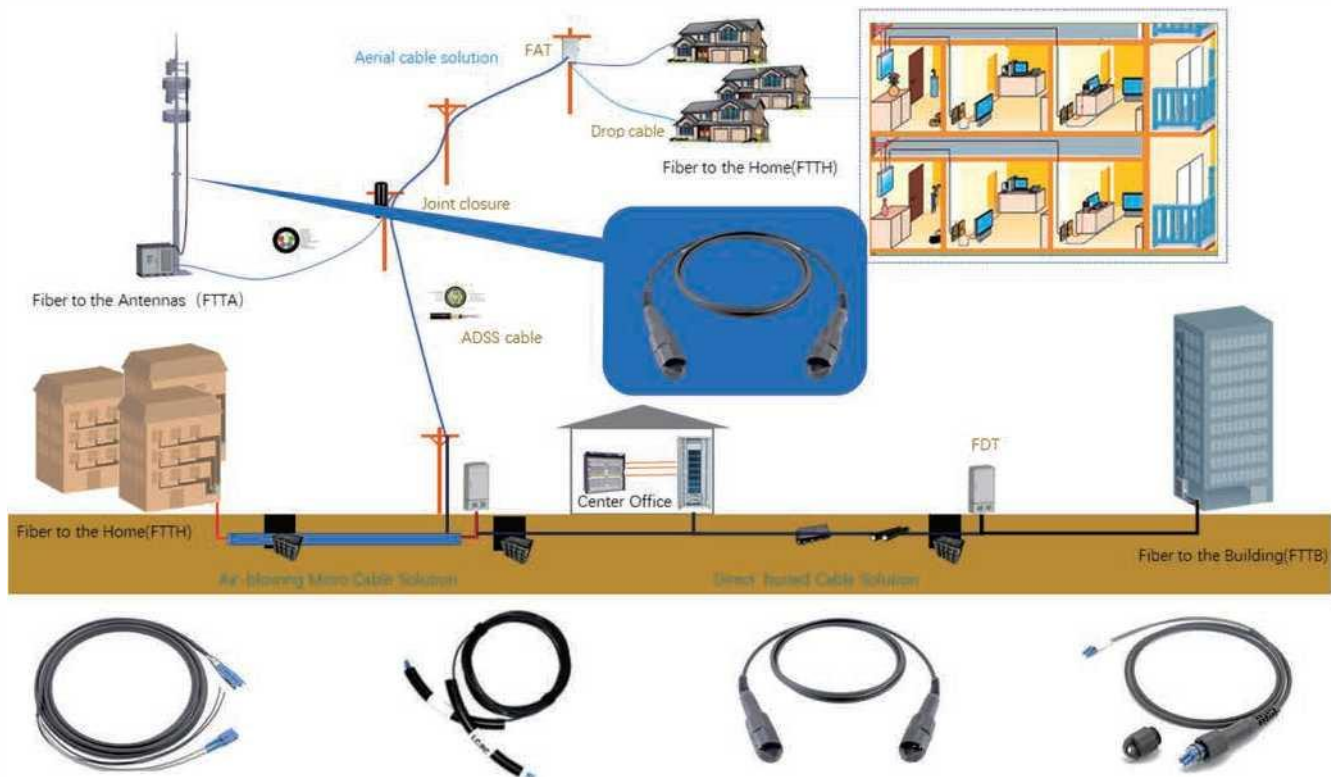
BBU与RRU之间的光缆称为射频拉远单元(RRU)光缆, 其中为RRU提供信号传输的光缆称为射频拉远单元(RRU)光缆, 为RRU提供电源的光缆RRU称为电 源线。

Radio frequency remote cable unit (RRU) has been widely used in optical cable, commonly known as FTTA cable in the market. It is mainly used for horizontal and vertical wiring of wireless base stations.

射频拉远光缆单元 (RRU)在光组中得到广泛应用, 市场上俗称FTTA光缆。主要用于无线基站的水平和垂直布线。

Characteristics 产品特点

- Reduce construction costs. Using optical fiber transmission, the feeder loss can be reduced, and the power requirement of power amplifier can be reduced, thus reducing the cost of base station equipment. 降低建设成本。采用光纤传输, 可以降低馈线损耗, 降低对功率放大器的功率要求, 从而降低基站设备成本。
- Reduce operating costs. By rational utilization of existing base station resources and centralized placement of base station base band, the lease cost of base station can be reduced. 降低运营成本。通过合理利用现有基站资源, 集中部署基站基带, 可以降低基站的租赁成本。
- Realize fast network construction. The separate placement of baseband and radio frequency makes the engineering construction have a strong flexibility and speeds up the construction progress 实现快速建网。基带与射频分开放置, 使工程施工具有很强的灵活性, 加快施工进度。
- Easy to optimize and adjust the network. 易于优化和调整网络
- Solve indoor coverage 解决室内覆盖



Technical Parameters 技术参数

Application Environment 应用环境

Operation Temperature 操作温度	-40°C~+70°C
Storage Temperature 储存温度	-40C-+70C
Installation Temperature 安装温度	-15C-+50C
Relative Humidity相对湿度	<95% (+30c)
Atmospheric Pressure 气压	62kPa - 106kPa

Patch Cord and Pigtail

跳线和尾纤

General Description 概述

Fiber optic patch cable is also known as fiber optic jumper or fiber optic patch cord. It is composed of a fiber optic cable terminated with different connectors on the ends. For the fiber patch cables, there are two major application areas which are computer work station to outlet and fiber optic patch panels or optical cross connect distribution center. We provide various types of fiber patch cords including single mode, multimode, multi core, and armored versions.

光纤跳线也称为光纤跳线或光纤跳线。它由端接有不同连接器的光缆组成。对于光纤跳线, 有两个主要的应用领域, 计算机工作站到插座和光纤配线架或 光交叉连接分配中心。我们提供各种类型的光纤跳线, 包括单模、多模、多芯和铠装版本。

Characteristics 产品特点

- Low insertion Loss 低插入损耗
- Easy installation 简易安装
- Plug-pull, key-oriented coupling mechanism 即插即用、面向钥匙的耦合机制
- Simplex and Duplex 单面和双面
- Single mode and Multimode 单模和多模
- PC, UPC and APC polishing PC UPC和APC抛光
- Interferential parameters 干扰参数
- Hybrid patch-cords are available upon request 可根据要求提供混合跳线
- Fan-out available 扇出可用
- Pigtail available 可用尾纤
- Jacket material: PVC,LSZH,OFNR,OFNP 护套材料: PVC、LSZH、OFNR、OFNP
- Jacket diameter: 0.9mm, 2.0mm or 3.0mm 护套直径:0.9mm、2.0mm 或 3.0mm

Application 应用

- Optical transmission system, Telecommunication networks, Connection of optical transmission equipment, CATV network, etc. 光传输系统、电信网络、光传输设备连接、CATV网络等。



Technical Parameters 技术参数

Photoelectric Properties 光电性能
Insertion loss 插入损耗
Return loss 回波损耗
Connector plug durability life 连接器插头耐久寿命

s0.3dB
APCN60dB;UPCN50dB
1000 times

Fiber Optic Adaptor 光纤适配器

General Description 概述

Fiber optic adaptors are used to join two fiber optic patch cables together. They are available for use with either single mode or multimode patch cables.

光纤适配器用于将两条光纤跳线连接在一起。它们可用于单模或多模跳线。

Characteristics 产品特点

- UPC or APC type UPC或APC类型 - SM or MM available SM或MM可用 - Simplex or Duplex available 单工或双工 - Zirconia Sleeve 氧化锆套管	- Comply with 1 EC and JIS standard 符合压C和JIS标准 - ILW0.2dB ILW0.2dB - Repeatability>1000times 重复性>1000次
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Optical transmission system, Telecommunication networks, Connection of optical transmission equipment, CATV networks etc.
光传输系统、电信网络、光传输设备连接、CATV网络等G

Application Scenario 应用场景



Technical Parameters

技术参数

Photoelectric Properties 光电性能
Insertion loss 插入损耗
Return loss 回波损耗
Connector plug durability life 连接器插头耐久寿命

s0.3dB
APC>60dB;UPC>50dB
1000 times

Fast Connector 快速连接器

General Description 概述

Embed fiber, factory grinding, built-in fiber refractive index matching liquid, rich specifications, suitable for a variety of different scene of the fiber terminal, to meet a variety of assembly operation habits, APC and UPC optional, it is suitable for fast terminal of butterfly fiber optic cable into the home

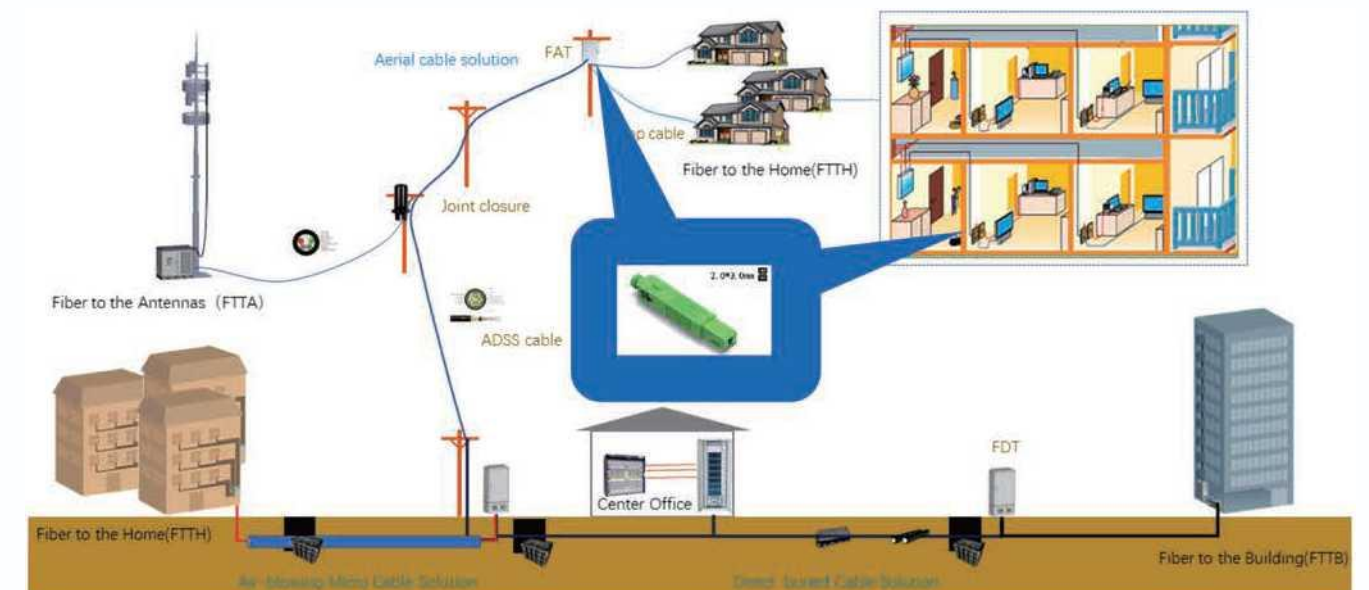
预埋光纤，工厂打磨，内置光纤折射率匹配液，规格丰富，适用于各种不同场景的光纤终端，满足多种装配操作习惯,APC和UPC可选,适用于快速终端的蝶形光统入户。

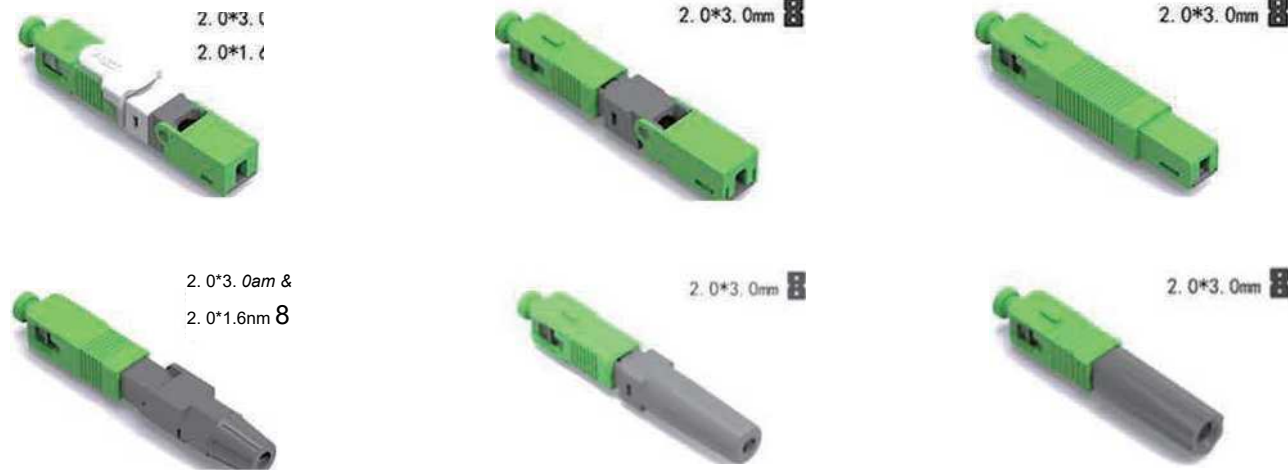
Features 特征

Insertion loss AVGW0.3dB, MAXW0.5dB, return loss AVGN55dB, MINN50dB, working temperature -40 ~ +85°C, tensile strength >30N, repeated assembly ^10 times, repeated plug and pull >500 times.

插入损耗AVGW0.3dB,MAXW0.5dB,回波损耗AVGN55dB,MINN50dB,工作温度-40~+85°C,抗拉强度N30N,重复装配N10次, 重复插拔>500次。

Application 应用





Attenuator

衰减器

General Description 概述

Attenuator is an optical passive device used to reduce the energy of the optical signal and to attenuate the input optical power to avoid distortion of the optical receiver due to the excessive input optical power.

Attenuation range refers to the attenuation ratio, generally 3dB, 10dB, 14dB, 20dB.

衰减器是一种光无源器件，用于降低光信号的能，衰减输入光功率，避免光接收器因输入光功率过大而产生失真。

衰减幅度是指衰减比，一般为3dB、10dB、14dB、20dB。

Application 应用

Attenuator is mainly used for optical fiber system index measurement, short-distance communication system signal attenuation, system tests and other occasions.

衰减器主要用于光纤系统指标测量、短距离通信系统信号衰减、系统测试等场合。

Application Scenario 应用场景



AWG(Arrayed Waveguide Grating)

AWG(阵列波导光栅)

General Description 概述

AWG(Arrayed Waveguide Grating) is the preferred technique in Density Wavelength Division (DWDM) system. AWG(阵列波导光栅)是密度波分的首选技术。

Multiplexing (DWDM) system. A grating formed by arrays of waveguides of equal length difference, untenability to separate waves. 多路复用 (DWDM)系统。由等长差的波导阵列组成的光栅，利用分波的能力。

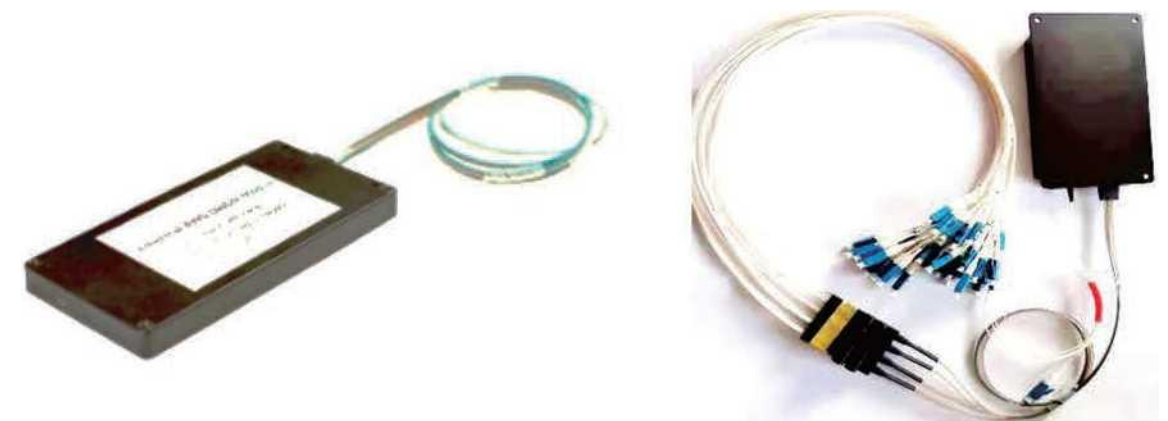
AWG also has high stability and good cost performance, which is very suitable for high-speed and large capacity DWDM system use. AWG device is a planar waveguide device based on optical integration technology. It has the potential advantages of planar waveguide technology. It is suitable for mass production, with good repeatability, small size, good uniformity of insertion loss, and thermal stability up to 0 after temperature control.

AWG还具有较高的稳定性和良好的性价比，非常适合高速大容量DWDM系统使用。AWG器件是一种基于光学集成技术的平面波导器件。它具有平面波导技术的潜在优势，适合大批生产，重复性好，体积小，插入损耗均匀性好，控温后热稳定性可达0。

Application 应用

This device combines the light in multiple channels into a single optical fiber at the DWDM transmission end and separate the light at the DWDM receiving end, so as to improve the transmission efficiency of the optical fiber network and reduce the construction cost of the optical network.

该设备在DWDM传输端将多个通道的光合并到一根光纤中，在DWDM接收端将光分离，从而提高光纤网络的传输效率，降低光网络的建设成本。



Fittings Solution for Drop Cable

引入缆金具解决方案

General Description 概述

In terms of FTTH self-supporting optical cable aerial installation, we created a new type of anchoring installation method to improve installation efficiency and make a beautiful appearance, which can prevent a series of unsafe phenomena, such as optical fiber damage caused by optical fiber curvature too small and cable dancing in the air, and self-supporting steel wire corrosion caused by steel wire exposure to the air. The feature of method is putting the cable into the conical hardware with wedge to make tension fixture, and reaching a laying tension balance through hardware architecture which can put the force bearing point to act on optical cable inner wire. Then it disperses the bearing capacity to every anchoring point designed, including the cable leading arc structure which can make sure the curvature meeting requirements, and the connection between spring buckle and anchoring point, making installation easier.

在FTTH自承式光缆架空安装方面，我们独创了一种新型的锚固安装方式，提高了安装效率，外形美观，可以防止因光纤衰曲造成光纤损坏等一系列不安全现象，例如太小，光境在空中飞舞，钢丝暴露在空气中造成自支撑钢丝腐蚀。该方法的特点是将光缆放入带楔子的锥形硬件中做成张力夹具，通过硬件结构达到敷设张力平衡，使受力点作用于光缆内线。然后将承载能力分散到设计的每个锚点，包括可以确保曲率满足要求的电缆引导弧形结构，以及弹簧扣和锚点之间的连接，使安装更容易。

We are glad to know that the wedge type clamp is widely used in rural area broadband to home projects. It can utilize the intensive poles in rural places or walls for cabling.

楔形夹具广泛应用于农村地区宽带到户项目。可利用农村密集的电线杆或墙壁进行布线。

FTTH optical cable fittings are composed of 3 main kinds of product, such as optical fiber cable clamps, anchoring point setting hardware and cable card slot on outdoor wall.

FTTH光缆金具主要由光纤夹、锚点设置金具、室外墙体线缆卡槽3种产品组成。

Drop Cable Card Slot and Clip

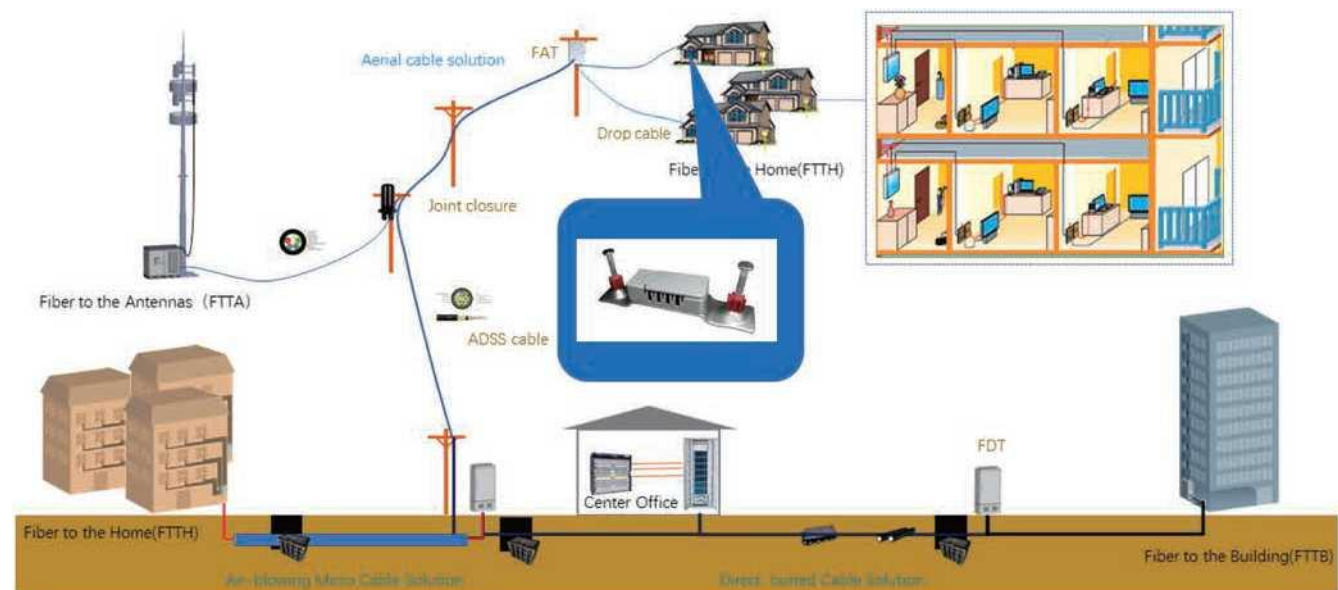
引入缆卡槽和夹具

General Description 概述

The optical cable card slot and clip is used to fix the cable on the surface of the wall, which is composed of straight-line cable lying product and direction turning lying product.

光爆卡槽和夹子用于将光缆固定在墙面上，由直线光網铺设产品和方向转向铺设产品组成。

Application Scenario 应用场景



XB-IRON-K011



direction for use



XB-IRON-K012



direction for use



XB-IRON-K021



direction for use



XB-IRON-K022



direction for use



XB-IRON-K023



direction for use



XB-IRON-K031



direction for use



XB-IRON-K032



direction for use



XB-IRON-K041



direction for use



XB-IRON-K042



direction for use



XB-IRON-K051



direction for use



XB-IRON-K052



direction for use



XB-IRON-K053



direction for use

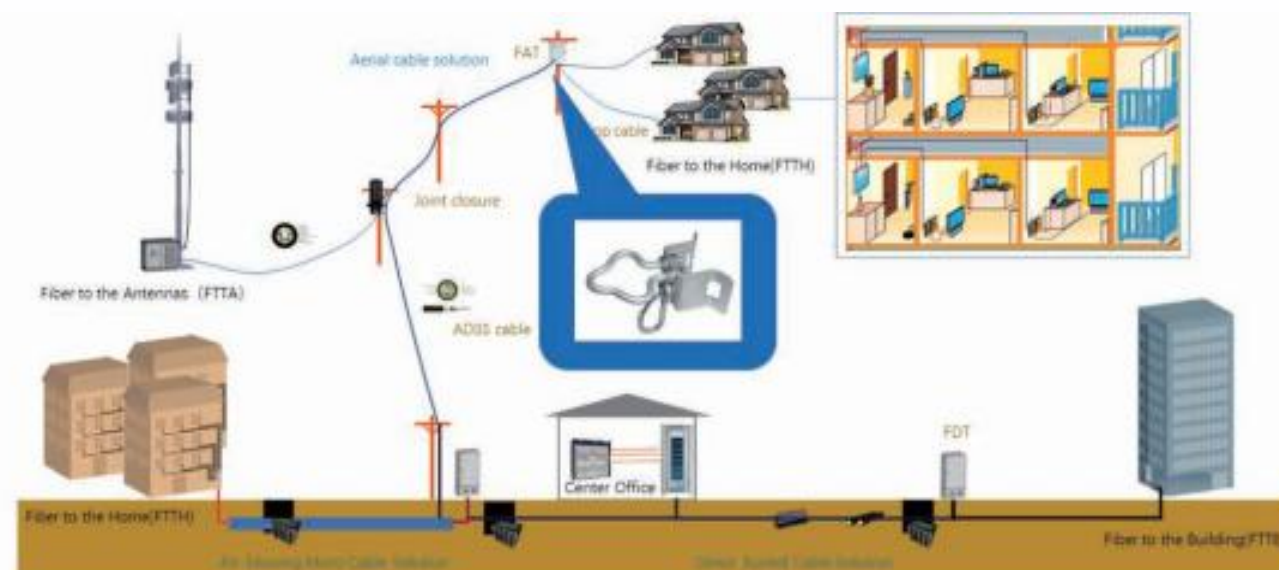
Anchoring Point Setting Hardware

锚点设置金具

General Description 概述

The anchoring point setting hardware is a kind of product which makes a suspension connection for clamps on pole, power line steel wire and outdoor wall of building. For example: the adjustable steel hoop, steel wire hanging fixture, outdoor anchoring point setting hardware and middle pole bracket, etc.

锚点设置金具是一种用于夹具在电线杆、电力线钢丝和建筑物室外墙体上进行悬挂连接的产品。例如：可调式钢箍、钢丝吊具、户外锚点设置金具、中杆支架等。



	direction for use		direction for use
	direction for use		direction for use
	direction for use		direction for use
	direction for use		direction for use



XB-IRON-M022



direction for use



XB-IRON-M031



direction for use



XB-IRON-M032



direction for use



XB-IRON-M033



direction for use

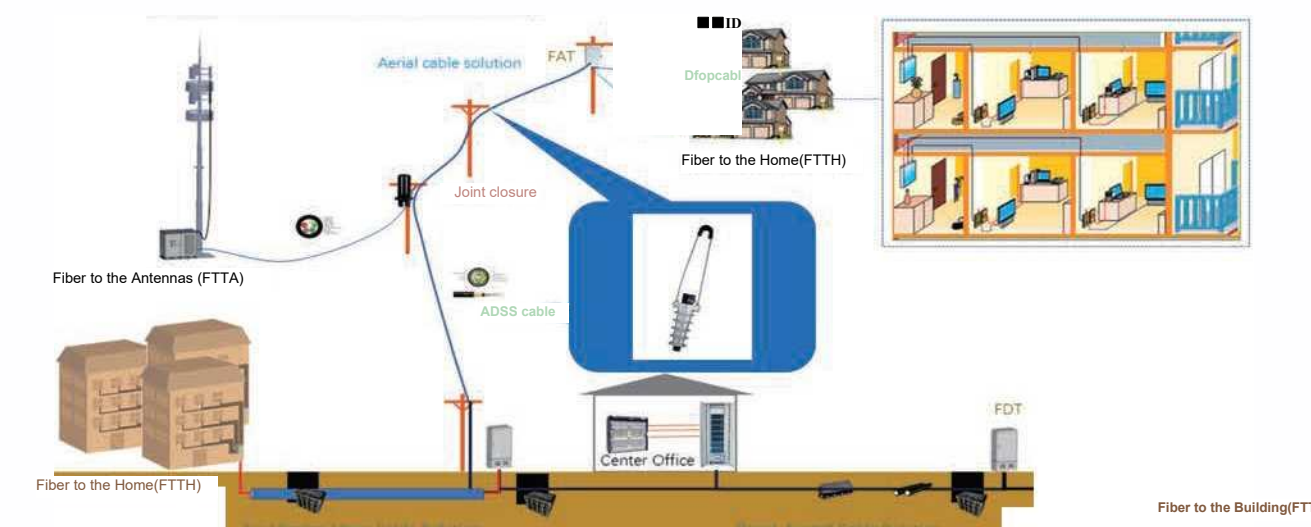
Optic Fiber Cable Clamp

光纤电缆夹

General Description 概述

The optical cable clamps are used to fix the optical cable on anchoring hardware for overhead installation, which includes wedge clamps and stripping type fixture. The wedge clamp is used to put the whole optical cable into it for aerial installation, and stripping type fixture is used to divide the steel wire and fiber cable, so as to make all the tension strength on steel wire.

光缆夹具用于将光缆固定在架空安装的锚固件上，包括楔形夹具和剥线式夹具。楔形夹具用于将整条光缆放入其中进行架空安装，剥线式夹具用于将钢丝和光缆分开，使钢丝上的所有抗拉强度。



Used to hold 08-12mm diameter ADSS cable 用于固定08-12mm直径的ADSS电缆

used to hold figure 8 cable or 04-8mm diameter round cable 用于固定8字形电缆或04-8mm直径圆形电缆



XB-IRON-K011



direction for use



XB-IRON-K012



direction for use

used to FTTH drop cable
用于FTTH入户光缆

XB-IRON-K021



direction for use

used to hold ø5mm round cable
用于固定 ø5mm 圆形电缆



XB-IRON-K023



direction for use

used to FTTH drop cable 用
用于FTTH入户光缆



XB-IRON-K025



direction for use

used to FTTH drop cable
用于FTTH入户光缆



XB-IRON-K031



direction for use

used to FTTH drop cable 用
用于FTTH入户光缆



XB-IRON-K033



direction for use

used to hold flat drop cable
用于固定扁平引入电缆

XB-IRON-K022

direction for use

used to FTTH drop cable
用于FTTH入户光缆



XB-IRON-K024



direction for use

used to FTTH drop cable
用于FTTH入户光缆



XB-IRON-K026



direction for use

used to FTTH drop cable
用于FTTH入户光缆



XB-IRON-K032



direction for use

used to hold flat drop cable round cable 用于固定扁平引入
电缆或Ø3mm圆形电缆



XB-IRON-K041



direction for use

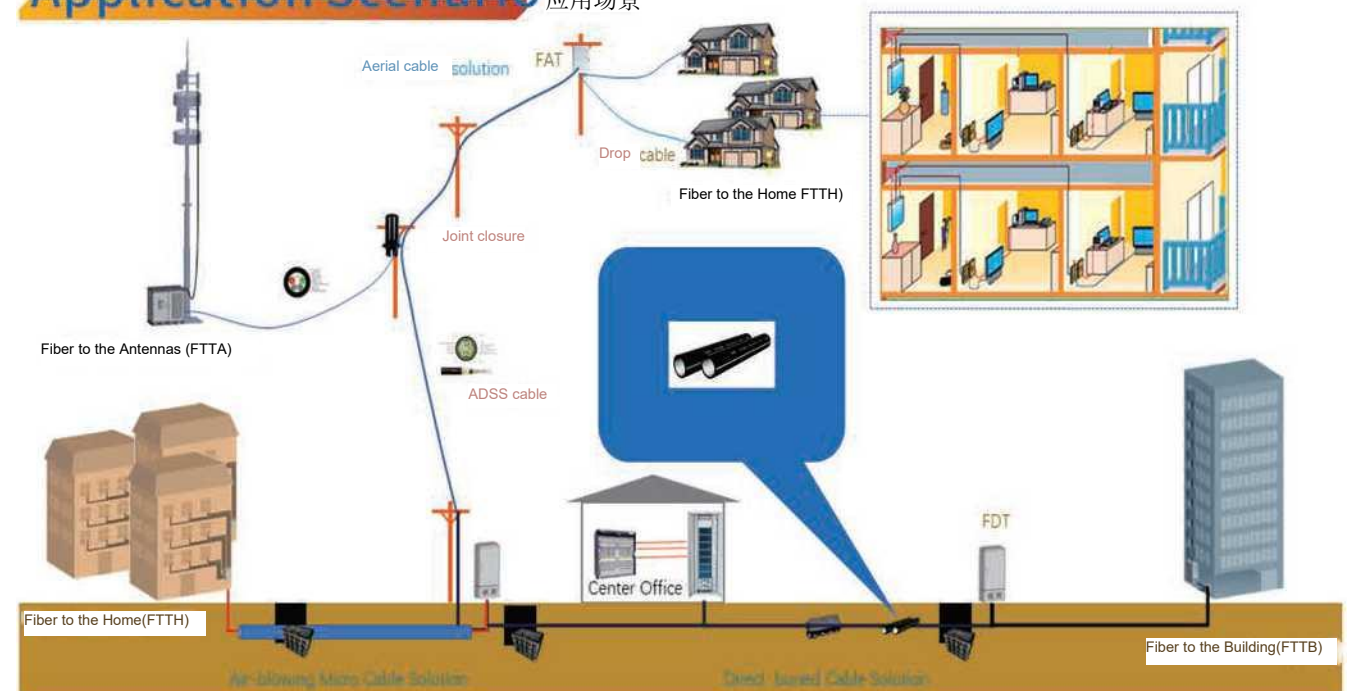
Communication line pipes

通信线路管道

General Description 概述

- HDPE、bellows pipe and PVC pipe are commonly used in communication lines. 通信线路中常用HDPE、波纹管 and PVC管。
- Bellows are generally used for pipe protection and PVC pipes are generally used for HDPE protection. 波纹管一般用于管道保护,PVC管一般用于HDPE保护。
- High-density polyethylene tubes with smooth inner wall to reduce friction. 高密度聚乙烯管,内壁光滑,减少摩擦。

Application Scenario 应用场景



Technical Parameters 技术参数

Model型号	Nom.Mass (kg/km)	Packaging Dimension包装尺寸(mm)	Material材料
XB-HDPE-0001	384	2250*2250*700	HDPE
XB-BWG-0001	267	110*110*300	HDPE/PE/Metal
XB-PVC-0001	312	110*110*6000	PVC

HDPE Tube Bundled Micro Duct

HDPE管束和HDPE微管

General Description 概述

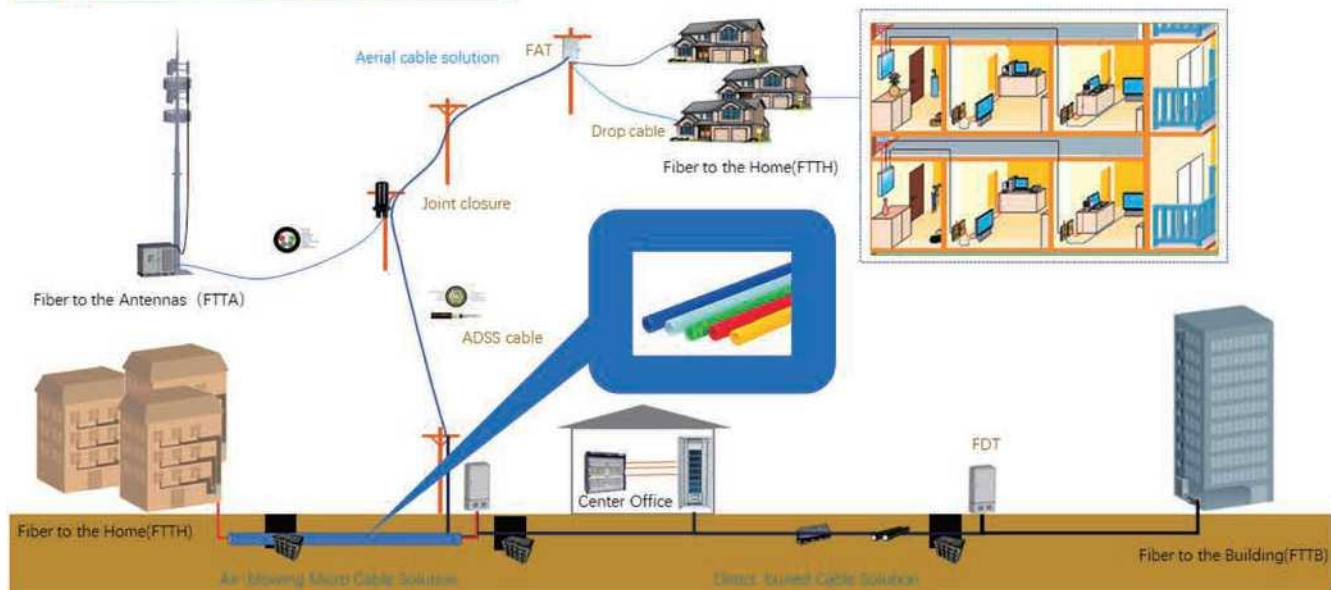
Micro ducts are suitable for the installation of fiber units and micro cables containing between 1 and 288 fibers. Dependent on the individual micro duct diameter, tube bundles are available in several types such as direct bury, direct install and making them ideal for diverse applications such as long-distance bone network, WAN, in-building, campus and FTTH. They can also be customized to meet other specific applications.

微型管适用于安装包含1至288根光纤的光纤单元和微型光缆。根据单个微管直径，管束有多种类型，例如直埋、直接安装，使其成为长距离骨干网络、WAN、室内、校园和FTTH等多种应用的理想选择。它们还可以定制以满足其他特定应用。

Single high-density polyethylene tube is with smooth inner wall to reduce the friction for maximum fiber blowing distance. HDPE micro duct does not contain dangerous chemicals in accordance to the directive 2006/1907/EC(REACH). HDPE tube bundle meets requirements of directive 2002/95/EC(ROSH).

单根高密度聚乙烯管，内壁光滑，减少摩擦，使纤维吹出距离最大化。HDPE微管根据指令2006/1907/EC(REACH)不含危险化学品，HDPE管束符合指令2002/95/EC(ROSH)的要求。

Application Scenario 应用场景



Technical Parameters 技术参数

Model型号	O.D.外直径(mm)	I.D.内直径(mm)	Nom.mass(Kg/km)
XB-BMD-0001	7.0	3.5	28
XB-BMD-0002	14.0	10.0	34

SMC Man-Hole

SMC孔

General Description 概述

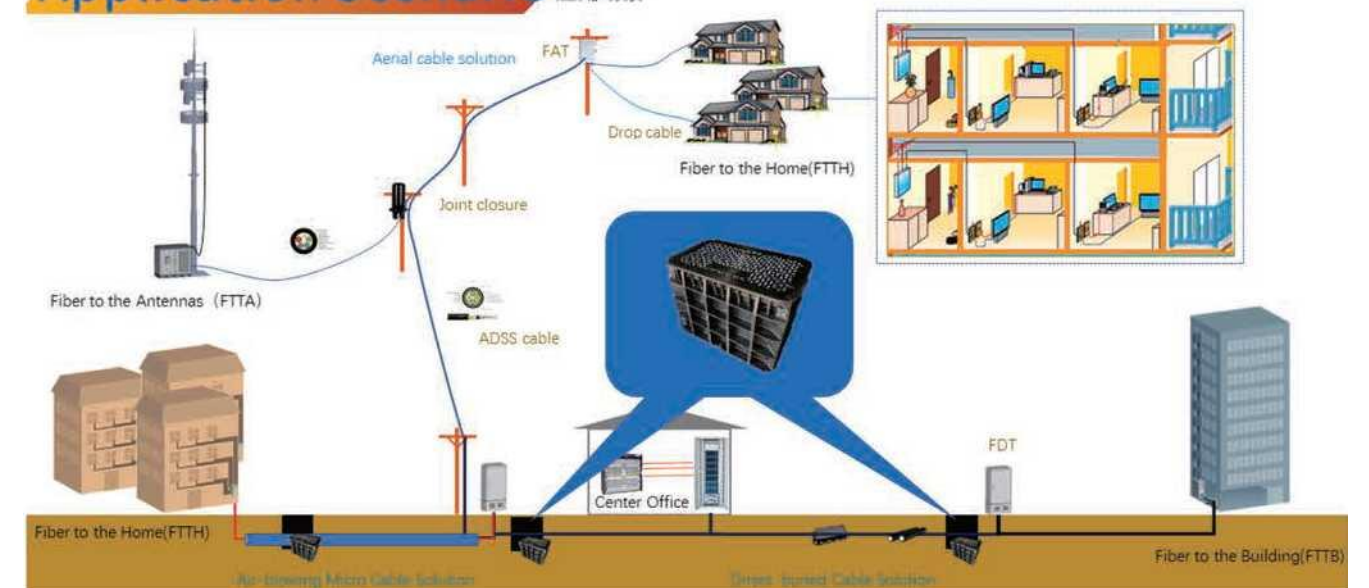
The SMC man-hole is a telecommunication infrastructure in ODN which is usually installed underground and protect the ODN devices including Joint closure, Optical cross cabinet, Optical distribution box and so on.

SMC人孔是ODN中的一种电信基础设施，通常安装在地下，保护包括接头闭合、光交叉柜、光配线箱等ODN设备。

别业必骂特征

- Light weight, only 10 percent weight of traditional concrete material 重量轻，仅为传统混凝土材料重量的10%
- Shipping space save, only 25 percent size of traditional prefabricated manhole 节省运输空间，尺寸仅为传统预制人孔的25%
- High strength, The standard of lid meet EN124 B125, The standard of side meet SCTETIRE 22 高强度，盖子标准符合EN124B125,侧面标准符合SCTETIRE 22
- Anti-corrosion and low water absorption (<0.5%) 抗腐蚀和低吸水率(<0.5%)
- Installation and maintenance conveniently 安装维护方便
- Climate-stability performance, -40°C to +85°C 气候稳定性性能,-40°C至+85°C
- Radio-friendly 无线电友好
- Durability, 40 years life 耐用性,40年寿命

Application Scenario 应用场景





Technical Parameters 技术参数

Model型号	Dimension 尺寸(mm)	Weight重量	Material 材质
XB-SMCMH-0001	545x545x455	27KG	SMC
XB-SMCMH-0002	873x578x618	93.6KG	SMC
XB-SMCMH-0003	710x710x800	124KG	SMC

Copper Cable Wiring Module 铜缆接线模块

General Description 概述

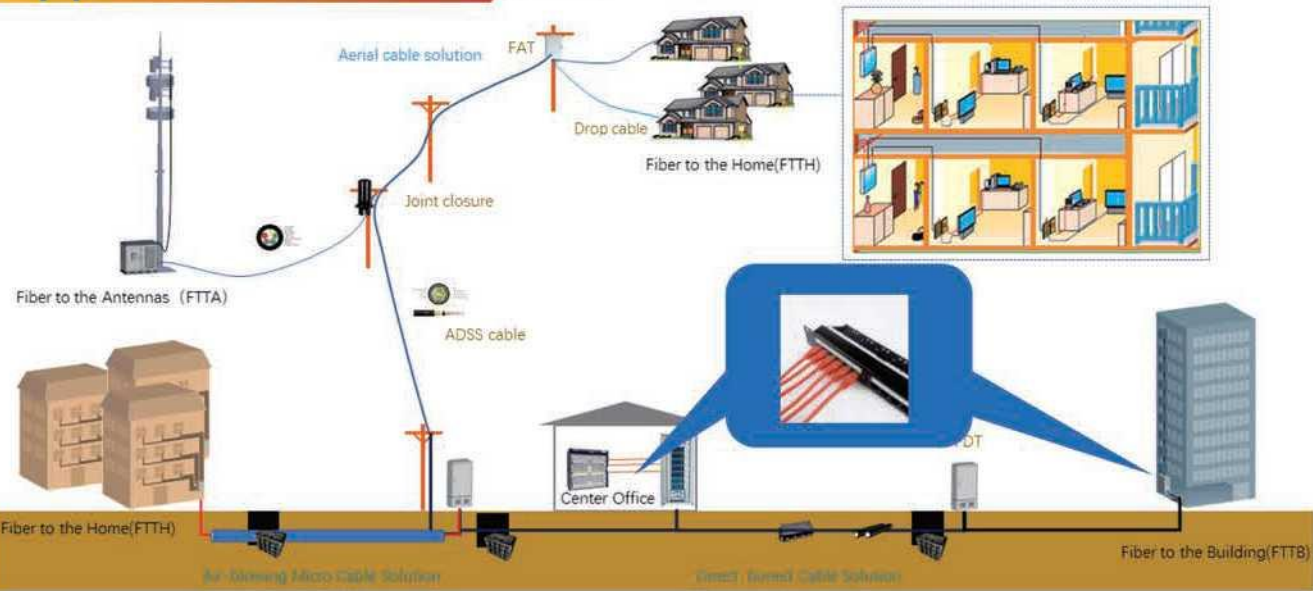
According to ANSI/TIA 568-C standard, the distribution frame refers to "Patch Panel". Distribution frame is the most important component in the management subsystem, and it is the pivot component to realize the cross connection and conversion of vertical trunk and horizontal wiring subsystems. According to the different installation position, the distribution frame can be divided into rack type and wall mounted type; Copper cable distribution frame can be divided into UTP, FTP, coaxial cable, audio and video distribution frame and so on; According to the different structure is divided into modular and integrated; According to use place, use different, divide for total distribution frame and intermediate distribution frame again.

根据ANSI/TIA 568-C标准, 配线架是指"Patch Panel"配线架是管理子系统中最重要的部件, 是实现垂直干线和水平布线子系统交叉连接和转换的枢纽 部件。根据安装位置的不同, 配线架可分为机架式和壁挂式; 铜缆配线架可分为UTP、FTP、同轴电缆、音视频配线架等; 根据结构不同分为模块化和集成化; 根据使用场所、用途的不同, 又分为总配线架和中间配线架。

Characteristics 产品特点

- Distribution frame adopts modular design, can be installed independent RJ45 module
配线架采用模块化设计, 可安装独立的RJ45模块
- Has five classes of shielding, ultra five month shadowing, six types of shielding, six classes a variety of types such as shield and six super class screen.
配线架采用模块化设计, 可安装独立的RJ45模块
- Distribution frame adopts modular design, can be installed independent RJ45 module 拥有五级屏蔽、超五级遮蔽、六级屏蔽、六级屏蔽和六级超屏等多种类型。
- Electrical distribution frame properties conform to ISO 11801 / EC,TIA/EIA568-Cstandard requirement.
配电架性能符合ISO 11801/EGTIA/EIA 568-C标准要求。
- Distribution frame of 19-inch installation
19寸配线架安装
- Cable distribution frame at the back of the cable support, help management. 线缆支架背面的线缆配线架, 便于管理。

Application Scenario 应用场景



Technical Parameters 技术参数

Model型号	Dimension 尺寸	Capacity Ports 容量端口	Material 材质
XB-CSDM-0001	19"	8/16/24/48	metal

Copper Cable Wiring Assembly 铜缆接线组件

General Description 概述

Crystal head is a plastic connector that can be inserted in a fixed direction and automatically prevent falling off. It is commonly known as "crystal head", and the professional term is RJ-45 connector (RJ-45 is a kind of network interface specification, similar to RJ-11 interface, which is used for connecting telephone lines). The crystal head is suitable for field connection between equipment or horizontal subsystems. The shell is made of high density polyethylene. Both ends of each twisted-pair wire are connected to the network card and hub (or switch) by mounting crystal heads.

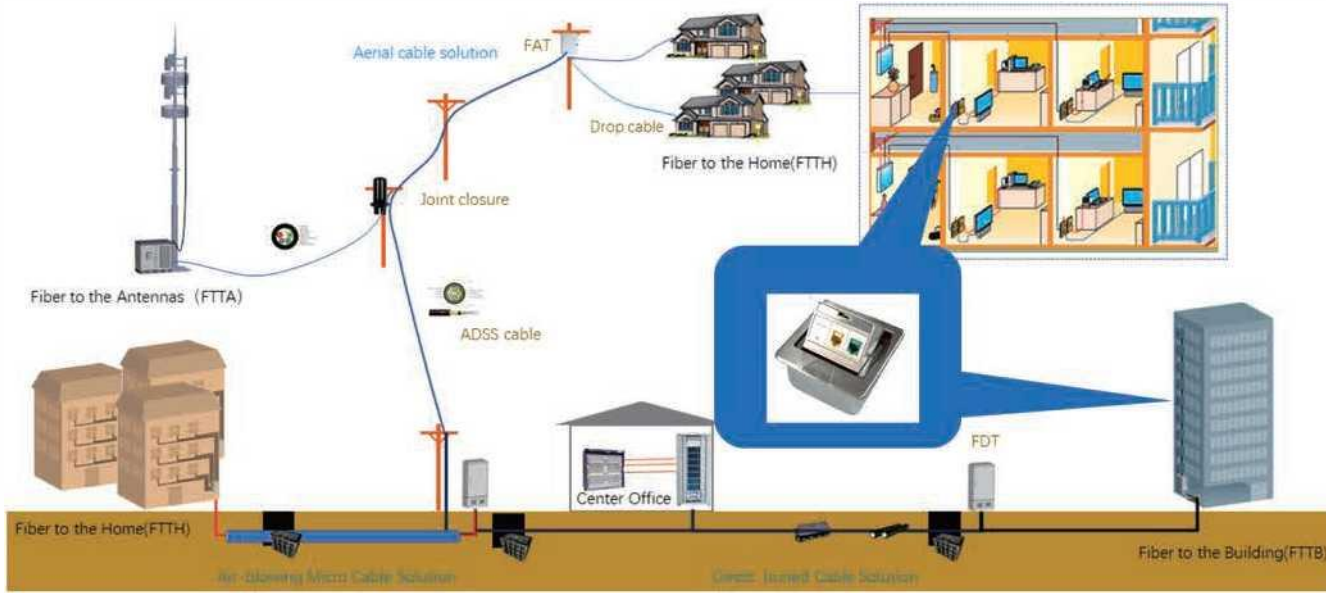
水晶头是一种塑料接头, 可以固定方向插入, 自动防止脱落。俗称“水晶头”, 专业术语是RJ-45连接器 (RJ45是一种网络接口规格, 类似于RJ-11接口, 用于 连接电话线)。水晶头适用于设备或水平子系统之间的现场连接。外壳由高密度聚乙烯制成。每根双绞线的两端通过安装水晶头连接到网卡和集线器(或交换机)。

The network socket has two ways of wall-hanging installation and floor-to-ground installation, which are generally double ports.
网络插座有壁挂安装和落地安装两种方式，一般为双口。

下华古出步特征

- Alcohol should be used to clean the cable socket. The appearance of the cable socket is very smooth. Do not wipe it with water so that it will leave traces and is also not safe.
应使用酒精清洁电缆插座。电缆插座的外观非常光滑。不要用水擦拭，这样会留下痕迹，也不安全。
- Do not switch the cable socket repeatedly, which will not only increase power consumption, but also affect the service life of the cable socket.
不要反复开关电缆插座,这样不仅会增加耗电SI,还会影响电缆插座的使用寿命。
- Network cable socket in wiring must let the electrician to operate, wiring process due to their own not professional (wire, wiring, installation), it is likely to give the future life buried trouble foreseeing.
网线插座在布线时一定要让电工来操作,布线过程由于不专业(电线'接线、安装),很可能会给以后的生活埋下隐患。
- The practice of cross line is: a 568A standard is used, a 568B standard is used
交叉线的做法墨:用一个568A标准,用一个568B标准
- The practice of cross line is: a 568A standard is used, a 568B standard is used
交叉线的做法是:用一个568A标准,用一个568B标准
- The practice of parallel lines is: both ends use the same standard (the same as 568A standard or 568B standard) 12,36 pairs of twisted 平行线的做法是:两端用同标(同568A标或568B标) 12,36对双绞线

Application Scenario 应用场景



Technical Parameters 技术参数

Model型号	Dimension 尺寸 (mm)	Material 材质
XB-NCH-0001	18*10,8	Metal & plastic
XB-WMDCS-0001	100*100*11	plastic
XB-GMDCS-0001	100*100*80	Metal & plastic

Copper Data Cable
铜数据线

General Description 概述

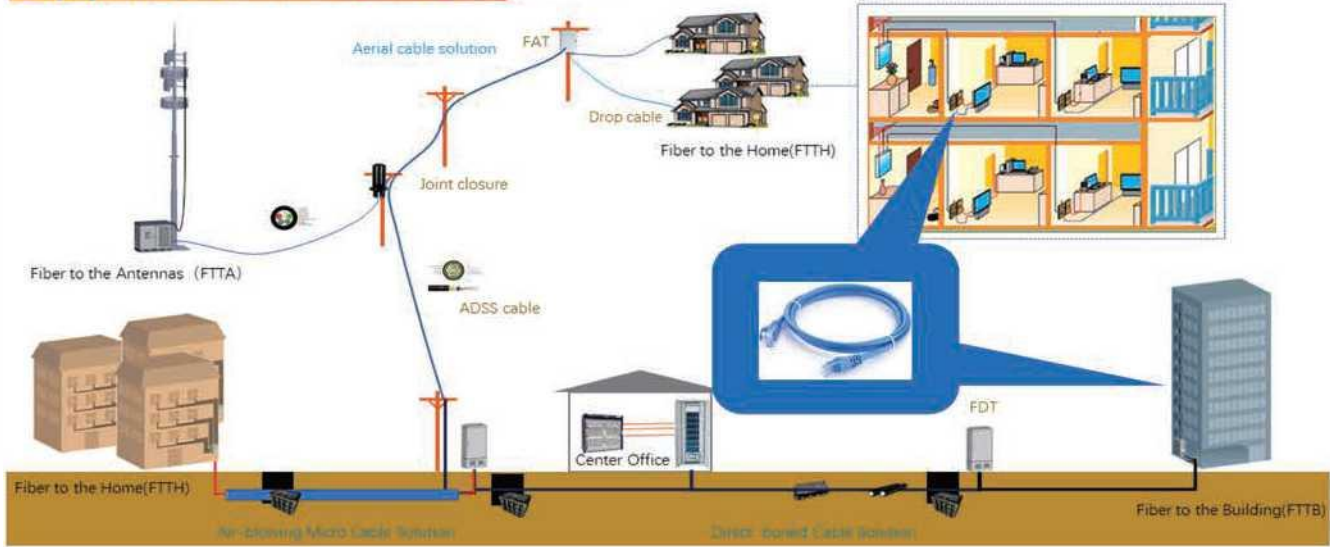
Network cable is the connection line between computer and computer, computer and other network equipment. Common network cables are twisted-pair and coaxial cable. At present, the main commonly used network cable is CTA6, CAT6A, CAT7. In the production of network cable, according to actual needs, including the following two production standards: EIA/TIA 568A standard and EIA/TIA 568B standard.

网线是电脑与电脑、电脑与其他网络设备的连接线。常见的网塔电缆有双绞线和同轴电缆。目前主要常用的网线有CTA6、CAT6A、CAT7。在生产网线时,根据实际需要,包括以下两种生产标准:EIA/TIA 568A标准和EIA/TIA 568B标准。

Features 特征

- There are two pairs of four lines in the third category, and four pairs of eight lines in the fifth category 第三类有两对四线,第五类有四对八线
- The outer rubber is not easy to burn
外胶不易燃烧
- At a high temperature (more than 40°C) the outer rubber will not become soft 高温(40°C以上)外胶不会变软
- The internal copper core material is pure, soft, tough and not easy to be broken 内部铜芯材质纯净、柔软、坚韧、不易折断
- The winding direction of the cable is counterclockwise winding rather than clockwise winding. Clockwise winding will affect the speed and transmission distance 电缆的缠绕方向是逆时针缠绕而不是顺时针缠绕。顺时针绕线会影响速度和传输距离
- The number of turns in the network cable is different when winding, because if the number of turns is the same, the transmission signals between the two pairs of lines will interfere with each other, making the transmission distance shorter 网线在绕制时匝数不同,因为如果匝数相同,两对线之间的传输信号会相互干扰,使传输距离变短。
- There is a layer of metal mesh and insulation material between the wire and the rubber of the shielded twisted pair. The outside of the crystal head is also wrapped by metal 屏蔽双绞线的导线与橡皮之间有一层金属网和绝缘材料。水晶头外面也有金属包裹。

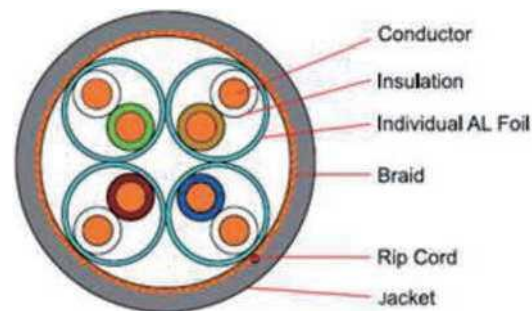
Application Scenario 应用场景





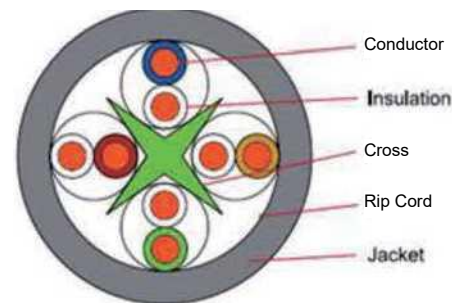
ICAT7 S/FTP

(22AWG/23AWG BC+F-S-F PE+AL/PETF2U+
Braid wire rip cord



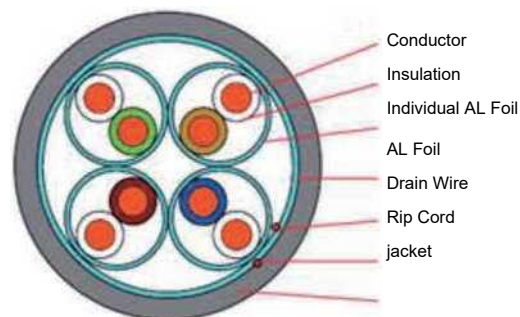
ICAT6A U/UTP (23AWG

BC•HDPE)*2•如 rip cord



ICAT6 F/FTP

(23AWG BC+F-S-FPE+AL/PET-2U+
AL/PET drain wire +rip cord



Hybrid Box

光电复合箱

General Description 概述

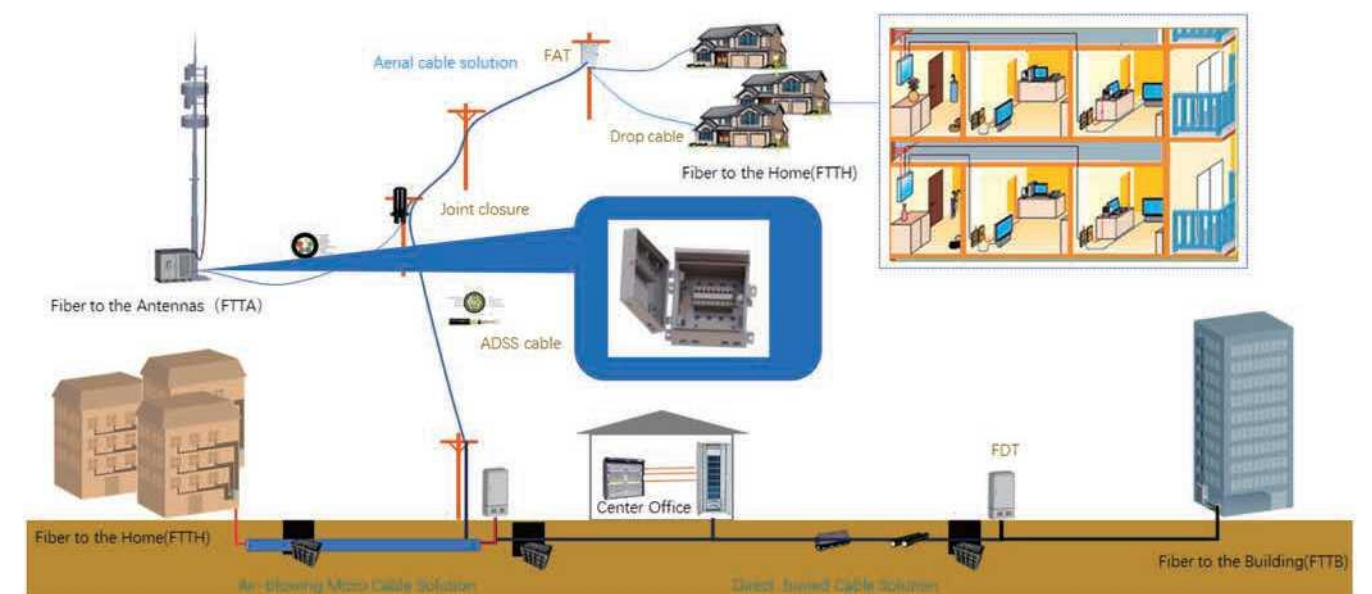
Used for new construction of smart city 4GLTE communication network base stations and FTTX broadband access engineering. The remote optical fiber achieves a remote power supply.

用于新建智慧城市4GLTE通信网络基站和FTTX宽带接入工程。远端光纤实现远端供电。

Features 特征

- Integrated optical fiber and electric power transmission and distribution to avoid secondary wiring and effectively reduce construction and network construction costs.
光纤与电力输配一体化，避免二次布线，有效降低施工和网络建设成本。
- Uses the composite optical cable for the remote optical fiber access solution, saving a lot of pipeline resources and effectively reducing the costs.
光纤远程接入方案采用复合光缆，节省大通道资源，有效降低成本。
- High-density design and good operability.
高密度设计，操作性好。
- Reliable optical fiber fixing and effective grounding protective equipment.
可靠的光纤固定和有效的接地保护装置。
- Layered operation of optical fiber and electric power transmission and distribution to avoid interference and improve safety. 光纤和电力输配电分层运行，避免干扰，提高安全性。
- Neat and compact appearance, easy and fast installation for large-scale construction.
外观整洁紧凑，安装方便快捷，适用于大型施工。
- Fully enclosed structure with the protection grade of Ip55.
全封闭结构，防护等级IP55。
- Applied in wall-mounted, pole-supported and other installation
适用于壁挂、抱杆等安装方式。

Application Scenario 应用场景





Taphrina		技术参数		
Model型号	Dimension 尺寸 (mm)	Capacity 容 IS	Switch开关	Material 材质
XB-GDX-9E	375*350*180	12f(SC)	9 Pcs	Cold-rolled steel 冷轧钢
XB-GDX-6E	320*280*180	12f	6 Pcs	Cold-rolled steel 冷轧钢

Photoelectric Composite Cable

光电复合电缆

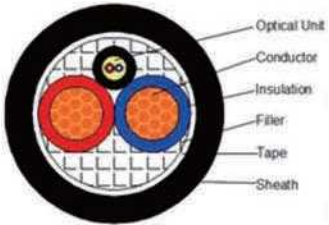
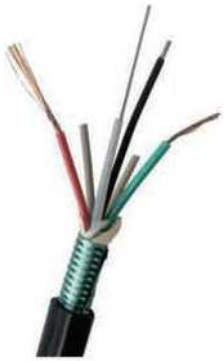
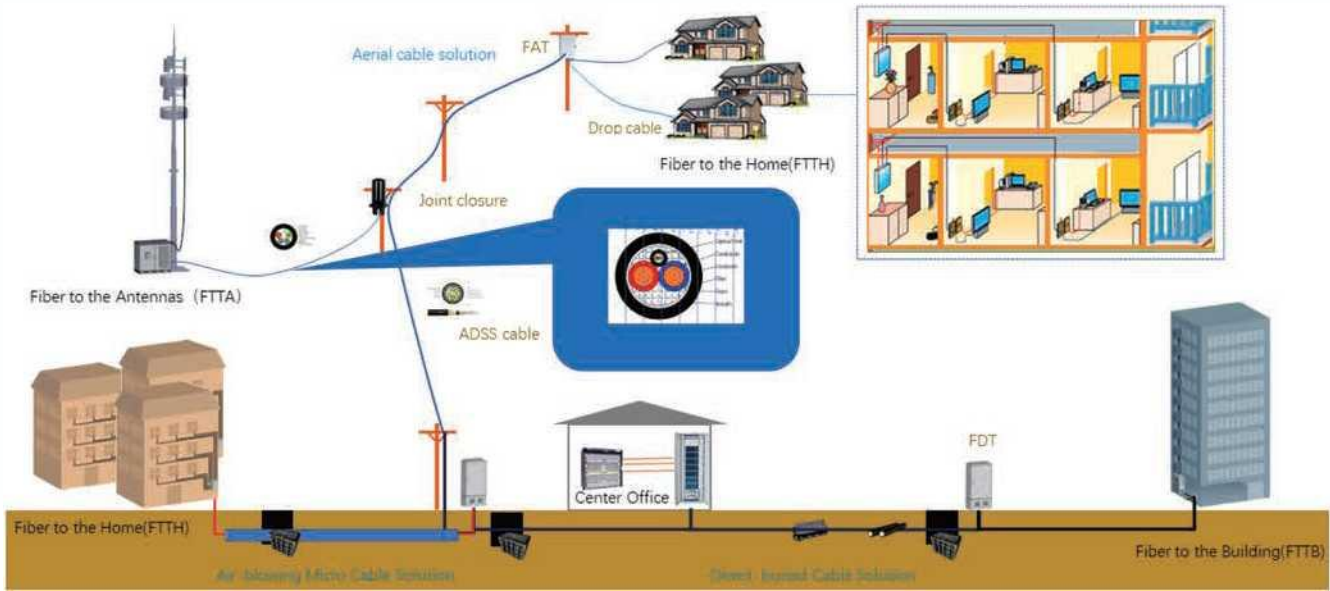
General Description 概述

Photoelectric composite cable is a new type of access method, which is suitable for the transmission line in the broadband access network system. It integrates optical fiber and transmission copper wire, and can solve the problems of broadband access, equipment power consumption and signal transmission. It is mainly used in long-distance power supply system and short distance communication system.

光电复合电缆是一种新型的接入方式，适用于宽带接入网系统中的传输线路。集光纤和传输铜线于一体，解决宽带接入、设备功耗和信号传输等问题。主要用于远距离供电系统和近距离通信系统。

Features 特征

- Small outer diameter, light weight and small space occupation (usually a series of problems that can be solved by multiple cables can be replaced by a composite cable here) 外径小、重最轻、占用空间小(通常一系列可以用多根电缆解决的问题在这里可以用一根复合电缆代替)
- Customer procurement cost is low, construction cost is low, network construction cost is low 客户采购成本低，建设成本低，网络建设成本低
- With superior bending performance and good side pressure resistance performance, easy construction 具有优越的弯曲性能和良好的抗侧压性能，施工方便
- Cost saving, the optical fiber as to the household reservation, to avoid the second wiring 节约成本，光纤入户预留，避免二次布线
- Solve the problem of power consumption of equipment in network construction (avoid repeated distribution of power supply lines) 解决网络建设中设备用电问题(避免供电线路重复分布)



Optical fiber
Tight buffer
---Water-blocking aramid yam
Jacket

Technical Parameters 技术参数

Characteristic of Photoelectric Composite Cable 光电复合电缆的特性

Working Temperature 工作温度	-40°C~+70°C
Rated Voltage 额定电压	300/500V
UV Resistant 抗紫外线	UL1581
Low-Smoke Density 低烟密度	IEC 61034-2
Halogen Free 无卤素	IEC 60754-2
Flame Retardant 不易燃的	IEC 60332-3-24