

Qualfiber



智慧连接 美好生活
Smart Link Better Life

室外/室内/蝶形光缆系列
Outdoor/Indoor/Htth Cable Series

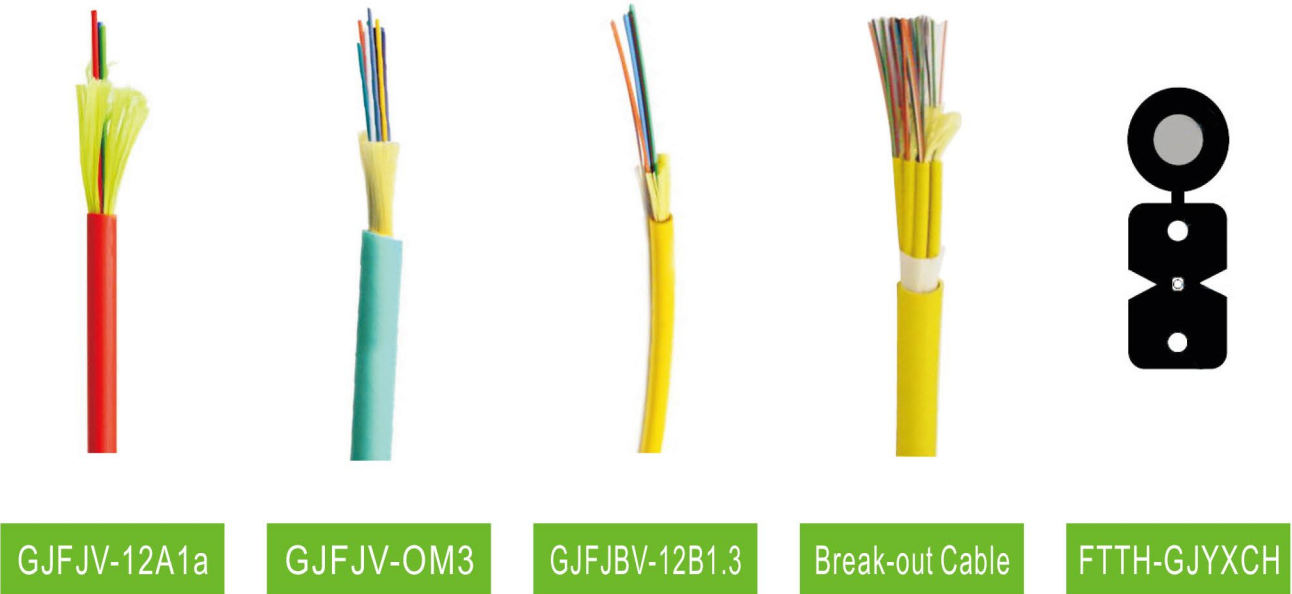
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企业简介

深圳市天菱电子技术有限公司 是专业从事通信光缆、光配件、综合布线产品研发、生产、销售于一体的高科技企业。坐落在风景秀丽的安徽省滁州市全椒杨桥工业区。新厂区占地面积 13800m²，总建筑面积 15960 m²，建有两栋现代化生产厂房及研发、办公室综合楼。

企业建立了较为完善的生产工艺流程和产品质量管控体系，通过国际 ISO9001 质量管理体系认证。拥有多套先进的紧套光纤生产线、软光缆护套生产线、FTTH 蝶形光缆生产线、光纤高速着色复绕机、光纤二次套塑生产线、SZ 光缆绞合成缆生产线、90#光缆护套生产线、ADSS 光缆生产线等生产设备，并拥有日本横河 OTDR、美国 PK2800 光纤几何参数测试仪、光缆机械拉伸测试仪、渗水测试仪、高低温测试箱等完备的检验设备。近年来，企业加强与国内有关科研院所合作，共同研发新产品，以满足不断变化的市场需求。

“Qualfiber” 公司主要研发生产：室内布线光缆、分支光缆、基站拉远光缆、MPO 与 MTP 专用迷你光缆、FTTH 蝶形光缆、室外中心束管式光缆、室外层绞式光缆、矿用阻燃光缆、53 型直埋光缆、光电复合缆、ADSS 全介质自承式光缆、OPGW 电力光缆等多种室内、外光缆及光配件产品。

我们专注于为国内外通信运营商、系统集成商提供一流的产品解决方案，同时为国内大型运营商中标企业提供代工服务。产品已广泛应用于运营商干线网络、平安城市与智能安防工程、光纤到户、电力信息传输、大型数据机房、云计算数据中心、物联网、高速公路与轨道交通信号传输等众多信息传输领域。



Company Profile

Qualfiber Technology is a professional and leading high-tech manufacturer, specializing in the research, development, production and marketing for communications fiber cable, cable accessories and integrated cabling products. Qualfiber plant covers a modern workshop and a R&D center building, total area reaches 16,000 Sqm.

Qualfiber has established a perfect production process and quality control system, which has already got the ISO Quality Certification. In recent years, Qualfiber has strengthened cooperation with domestic research institutes and jointly developed new products to meet the changing market demand. Based on years of experience in optoelectronic industry, Qualfiber is committed to invest in advanced manufacturing equipment, like Tight-set optical fiber cable production line, Flexible optical fiber cable sheath production line, FTTH Bow-type drop cable optical fiber cable production line, fiber coloring machine, Optical fiber cable loose tube production line, SZ optical fiber cable stranded synthetic cable production line, 90 # optical fiber cable sheath production line, ADSS optical fiber cable production line and so on; also owns some

quality inspection equipment, like Yokogawa OTDR of Japan, PK2800 optical fiber geometric parameters test of the United States, optical fiber cable mechanical tensile tester, water penetration tester, High-and-low temperature test box and other inspection equipment.

Qualfiber's principal product categories include: indoor fiber cables, break out fiber optic cables, base station fiber optic cable, MPO and MTP mini-fiber optic cables, FTTH Bow-type drop cable, Unitube light-armored cable, stranded fiber optic cable, mining flame- retardant cable, GYTA53 direct buried fiber optic cable, optoelectronic composite fiber optic cable, ADSS all-dielectric self-supporting Aerial cable, OPGW Optic Electric Composite cable and other indoor and outdoor fiber optic cable accessories.

Qualfiber focus on providing first-class solutions for domestic and foreign telecom operators and system integrators, as well as OEM service. Our products has been widely used in Telecom Operator Network, City Safety, Intelligent Safeguard Systems, FTTH Engineering, Electric Power Data Transmission, Large Data Center, Cloud Data Center, Internet of Things, Expressway and Rail traffic signal transmission and other information transmission fields.

生产设备 Equipment

先进的生产设备和标准化的车间是产品质量的最好保证。
Advanced equipments and spacious plants provide you with the nest products.



● 护套生产车间 Sheath workshop



● 护套生产线 Production line of sheaths



● 室内光缆生产线 Production line of indoor cables



● 室内光缆生产线 Production line of indoor cables

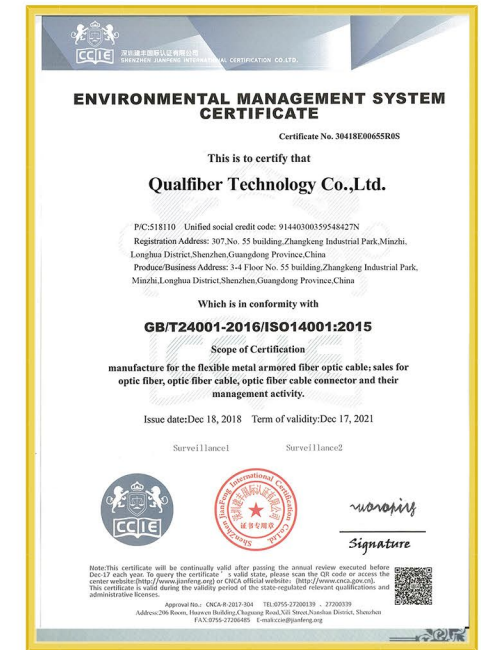
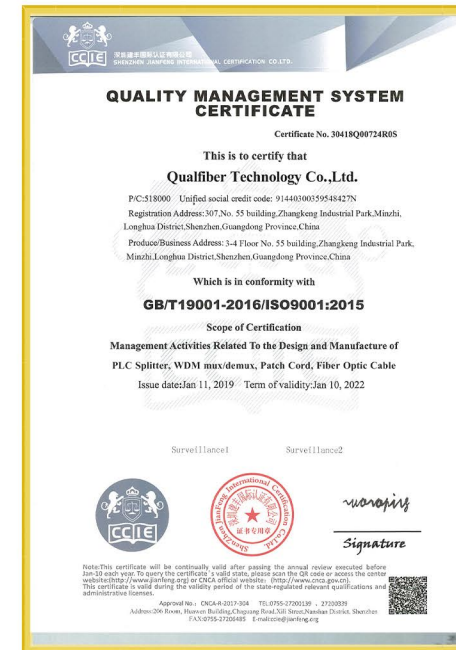


● 室内光缆生产线 Production line of indoor cables

企业认证 Corporate Certification

- 通过ISO9001国际质量体系认证

Certied by ISO9001 International Standardization Organization



- 检测报告

Test Report



室外光缆 Outdoor Optical Cable

【产品描述 Description】

深圳市天菱电子技术有限公司生产的室外光缆产品主要包括松套层绞式及中心管式两种结构，以周密的结构设计，先进的工艺控制及严格的材料把关来实现对光纤的保护和光缆性能的保证。盈通公司在提供多品种、高品质光缆产品的同时，还可以根据客户需求，对光缆结构进行特殊设计，以适应通信线路实际情况。

Our outdoor optical cable is manufactured with the construction of stranded loose tube and central tube. The protection of optical bers and the property of cables are ensured by precise construct design, advanced process control and high quality material. It has the capability to provide various type and high quality cables, and we also specially design the cable structure for communication application.

【产品类型 Product Type】

● 松套层绞式光缆 Stranded Loose Tube Cable		
GYTA, GYTS GYFTY, GYHTY GYFTA	v 油脂填充式 Gel filling	v 阻燃 Flame-retardant v 防鼠防蚁 Anti-rodent and anti-termite v 彩条 Color Strip
GYTY53, GYTA53 GYFTY53, GYFTA53 GYTA53+33	v 油脂填充式 Gel filling v 半干式 Dry core v 全干式 Dry tube & dry core	v 阻燃 Flame-retardant v 防鼠防蚁 Anti-rodent and anti-termite v 彩条 Color Strip
● 中心管式光缆 Central Tube Cable		
GYXTW, GYXTW53 GYXY GYFXy	v 油脂填充式 Gel filling	v 阻燃 Flame-retardant v 防鼠防蚁 Anti-rodent and anti-termite
● 特种光缆 Special Cable		
MGTS, MGXTW GYTC8A GYTS+2x2.5mm², GYDTA	v 油脂填充式 Gel filling	v 彩条 Color Strip
GYFTZA53, GYTZA53 GYTZS, GYXTZW ADSS	v 油脂填充式 Gel filling	v 耐电痕 Anti-tracking v 1000m以上大跨距 Large span over 1000m

【产品应用 Application】

● 适用于各种气候与环境条件，管道、架空、直埋、水下等多种敷设方式，广泛应用于核心网、城域网、接入网等。

Applied to different environment condition, with the laying methods of duct, aerial, direct buried and underwater. Adopted to core network, metropolitan network, access network, etc.

【产品类型 Product Type】

光缆型号 Cable Code	光缆型号 Cable Code
A1-50/125 多模光纤 Multimode Fiber	B1-G.652 单模光纤 Single-mode Fiber
A1-62.5/125 多模光纤 Multimode Fiber	B1.3-G.625.D 单模光纤 Low Water Peak Single-mode Fiber
150 OM3 多模光纤 150 Multimode Fiber	B4-G.655 单模光纤 Single-mode Fiber
300 OM3 多模光纤 300 Multimode Fiber	B6-G.657 单模光纤 G.657 Single-mode Fiber
550 OM3 多模光纤 550 Multimode Fiber	

【松套管中光纤的色谱排列 Colour Arrangement of Fibers in Loose Tube】

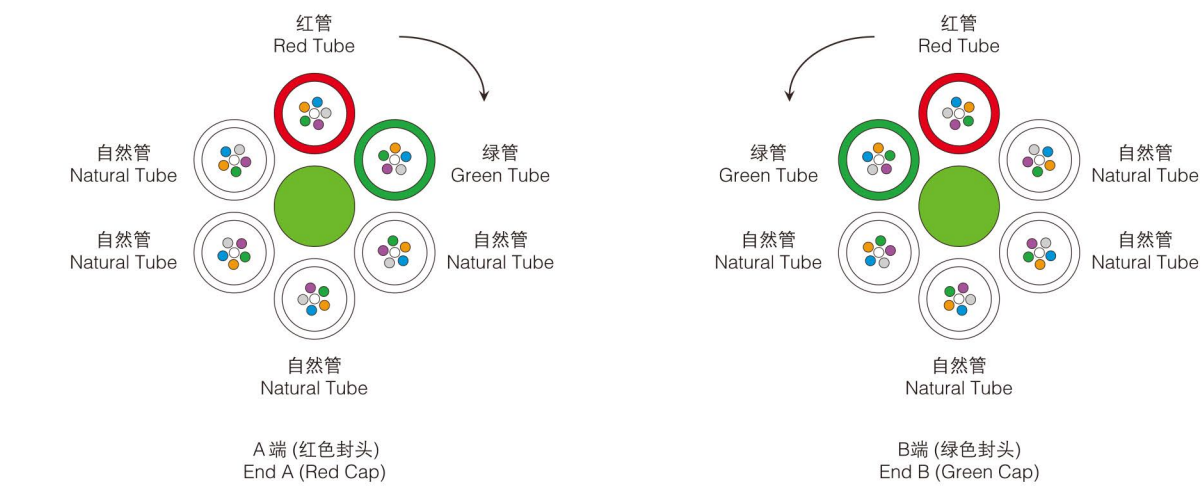
- 光纤色谱为标准色谱，其颜色的选择符合YD/T 901-2001的标准。
colour identification used in loose tube is Standard Fiber Colour Identification, which comply with Standard YD/T 901-2001.
- 标准光纤色谱 Standard Fiber Colour Identification

光纤号 Fiber Number	1	2	3	4	5	6	7	8	9	10	11	12
颜色 Colour	蓝色 Blue	橙色 Orange	绿色 Green	棕色 Brown	灰色 Slate	本色 Natural	红色 Red	黑色 Black	黄色 Yellow	紫色 Violet	粉红色 Pink	水绿色 Aqua

【光缆中松套管的色谱排列 Colour Arrangement of Loose Tube in Cable】

- 松套管色谱分为领示色谱和全色谱，其颜色的选择符合YD/T 901-2001的标准。
loose tubes colour identification used in cable are Indicatory Colour Identification and Full Colour Identification, which comply with Standard YD/T 901-2001.
- 领示色谱 Indicatory Colour Identification

套管号 Tube Number	1	2	3	4	5	6	7	8	9	10	11	12
颜色 Colour	红色 Red	绿色 Green	本色 Natural	本色 Natural	本色 Natural	本色 Natural	本色 Natural	本色 Natural	本色 Natural	本色 Natural	本色 Natural	本色 Natural



- 全色谱 Full Colour Identification

套管号 Tube Number	1	2	3	4	5	6	7	8	9	10	11	12
颜色 Colour	蓝色 Blue	橙色 Orange	绿色 Green	棕色 Brown	灰色 Slate	本色 Natural	红色 Red	黑色 Black	黄色 Yellow	紫色 Violet	粉红色 Pink	水绿色 Aqua

注：光缆中松套管不足12单元，色谱从1号色起连续取用
Note:The colour of loose tubes in cable is arranged from No.1 colour successively

松套层绞式非铠装光缆（GYTA）

Stranded Loose Tube Non-armored Cable



【产品描述 Description】

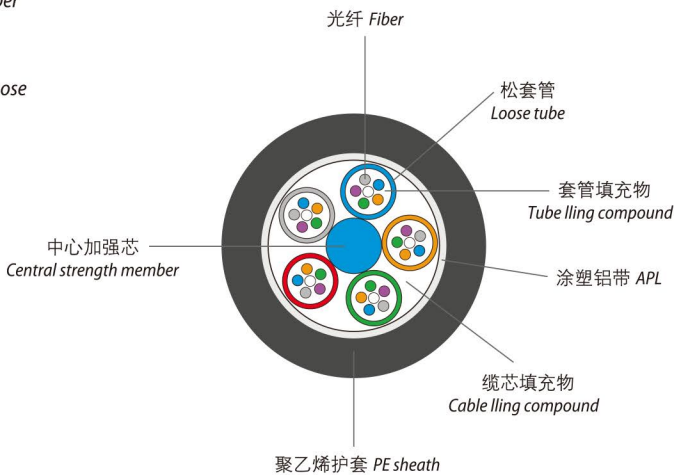
GYTA光缆的结构是将250 μm光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯（PE）。松套管（和填充绳）围绕中心加强芯绞合成紧凑和圆形的缆芯，缆芯内的缝隙充以阻水填充物。涂塑铝带（APL）纵包后挤制聚乙烯护套成缆。

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, witch is filled with the filling compound to protect it from water ingress. Then, the cable is completed with a PE sheath.

【产品特点 Characteristics】

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

【光缆结构图 Cable structure】



【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1450 nm		

适用：管道、架空 *Application: Duct/Aerial*

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增)	光纤数 Fiber Count	套管数 Tubes	填充绳数 Fillers	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GYTA-2~6	2~6	1	4	9.2	80	600/1500	300/1000	10D/20D
GYTA-8~12	8~12	2	3	9.2	80	600/1500	300/1000	10D/20D
GYTA-14~18	14~18	3	2	9.2	80	600/1500	300/1000	10D/20D
GYTA-20~24	20~24	4	1	9.2	80	600/1500	300/1000	10D/20D
GYTA-26~30	26~30	5	0	9.2	80	600/1500	300/1000	10D/20D
GYTA-32~36	32~36	6	0	9.7	97	1000/3000	300/1000	10D/20D
GYTA-38~48	38~48	4	1	10.5	109	1000/3000	300/1000	10D/20D
GYTA-50~60	50~60	5	0	10.5	109	1000/3000	300/1000	10D/20D
GYTA-62~72	62~72	6	0	11.5	126	1000/3000	300/1000	10D/20D
GYTA-74~84	74~84	7	1	13.2	153	1000/3000	300/1000	10D/20D
GYTA-86~96	86~96	8	0	13.2	153	1000/3000	300/1000	10D/20D
GYTA-98~108	98~108	9	1	14.6	182	1000/3000	300/1000	10D/20D
GYTA-110~120	110~120	10	0	14.6	182	1000/3000	300/1000	10D/20D
GYTA-122~132	122~132	11	1	16.5	221	1000/3000	300/1000	10D/20D
GYTA-134~144	134~144	12	0	16.5	221	1000/3000	300/1000	10D/20D
GYTA-146~216	146~216			16.5	222	1000/3000	300/1000	10D/20D

储存、使用温度：-40℃至+70℃ *Storage/Operating Temperature: -40℃ to +70℃*

【产品标准 Standards】

GYTA光缆符合YD/T 901-2001和IEC 60794-1标准。
GYTA cable complies with Standard YD/T 901-2001 as well as IEC 60794-1.

松套层绞式轻铠装光缆（GYTS）

Stranded Loose Tube Light-armored Cable



【产品描述 Description】

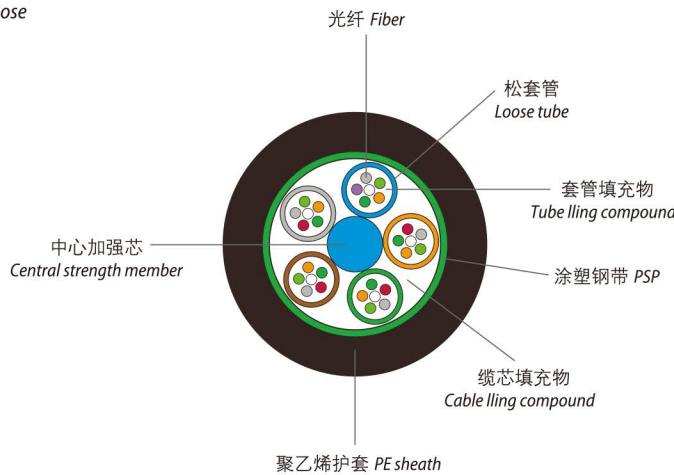
GYTS光缆的结构是将250 μ m光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯（PE）。松套管（和填充绳）围绕中心加强芯绞合成紧凑和圆形的缆芯，缆芯内的缝隙充以阻水填充物。双面涂塑钢带（PSP）纵包后挤制聚乙烯护套成缆。

The bers, 250m, are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high ber count, locates in the center of core as a metallic strength member. Tubes (and llers) are stranded around the strength member into a compact and circular cable core. The PSP is longitudinally applied over the cable core, witch is lled with the lling compound to protect it from water ingress. Then, the cable is completed with a PE sheath.

【产品特点 Characteristics】

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

【光缆结构图 Cable structure】



【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1450 nm		

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

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增) (Increased by 2 bers)	光纤数 Fiber Count	套管数 Tubes	填充绳数 Fillers	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GYTS-2~6	2~6	1	4	9.5	100	600/1500	300/1000	10D/20D
GYTS-8~12	8~12	2	3	9.5	100	600/1500	300/1000	10D/20D
GYTS-14~18	14~18	3	2	9.5	100	600/1500	300/1000	10D/20D
GYTS-20~24	20~24	4	1	9.5	100	600/1500	300/1000	10D/20D
GYTS-26~30	26~30	5	0	9.5	100	600/1500	300/1000	10D/20D
GYTS-32~36	32~36	6	0	10.0	119	1000/3000	300/1000	10D/20D
GYTS-38~48	38~48	4	1	11.0	136	1000/3000	300/1000	10D/20D
GYTS-50~60	50~60	5	0	11.0	136	1000/3000	300/1000	10D/20D
GYTS-62~72	62~72	6	0	12.0	155	1000/3000	300/1000	10D/20D
GYTS-74~84	74~84	7	1	13.6	192	1000/3000	300/1000	10D/20D
GYTS-86~96	86~96	8	0	13.6	192	1000/3000	300/1000	10D/20D
GYTS-98~108	98~108	9	1	15.0	227	1000/3000	300/1000	10D/20D
GYTS-110~120	110~120	10	0	15.0	227	1000/3000	300/1000	10D/20D
GYTS-122~132	122~132	11	1	16.9	227	1000/3000	300/1000	10D/20D
GYTS-134~144	134~144	12	0	16.9	227	1000/3000	300/1000	10D/20D

储存、使用温度：-40℃至+70℃ Storage/Operating Temperature: -40℃ to +70℃

【产品标准 Standards】

GYTS光缆符合YD/T 901-2001和IEC 60794-1标准。
GYTS cable complies with Standard YD/T 901-2001 as well as IEC 60794-1.

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



【产品描述 Description】

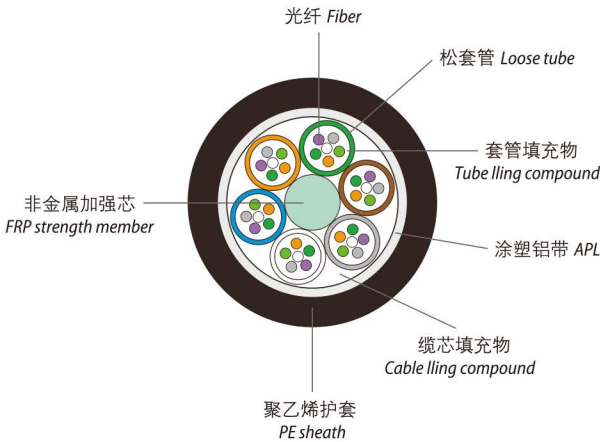
GYFTA光缆的结构是将250 μm光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。缆芯的中心是一根非金属加强芯（FRP），对于某些芯数的光缆来说，非金属加强芯外还需挤上一层聚乙烯（PE）。松套管（和填充绳）围绕中心加强芯绞合成紧凑和圆形的缆芯，缆芯内的缝隙充以阻水填充物。涂塑铝带（APL）纵包后挤制聚乙烯护套成缆。

The bers, 250m, are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling compound. A Fiber Reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (and llers) are stranded around the strength member into a compact and circular core. After an Aluminum Polyethylene Laminate (APL) moisture barrier is applied around the cable core, the cable is completed with a PE sheath.

【产品特点 Characteristics】

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

【光缆结构图 Cable structure】



【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1450 nm		

适用：管道、架空 Application: Duct/Aerial

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增) (Increased by 2 bers)	光纤数 Fiber Count	套管数 Tubes	填充绳数 Fillers	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GYFTA-2~6	2~6	1	5	11.4	108	500/1000	300/1000	10D/20D
GYFTA-8~12	8~12	2	4	11.4	108	500/1000	300/1000	10D/20D
GYFTA--14~18	14~18	3	3	11.4	108	500/1000	300/1000	10D/20D
GYFTA--20~24	20~24	4	2	11.4	108	500/1000	300/1000	10D/20D
GYFTA--26~30	26~30	5	1	11.4	108	500/1000	300/1000	10D/20D
GYFTA--32~36	32~36	6	0	11.4	108	500/1000	300/1000	10D/20D
GYFTA-2~12	2~12	1	5	12.8	134	600/1500	300/1000	10D/200
GYFTA-14~24	14~24	2	4	12.8	134	600/1500	300/1000	10D/20D
GYFTA-26~36	26~36	3	3	12.8	134	600/1500	300/1000	10D/20D
GYFTA-38~48	38~48	4	2	12.8	134	600/1500	300/1000	10D/20D
GYFTA-50~60	50~60	5	1	12.8	134	600/1500	300/1000	10D/20D
GYFTA-62~72	62~72	6	0	12.8	134	600/1500	300/1000	10D/20D
GYFTA-2~6	2~6	1	7	12.8	140	1000/3000	300/1000	10D/20D
GYFTA-8~12	8~12	2	6	12.8	140	1000/3000	300/1000	10D/20D
GYFTA-14~18	14~18	3	5	12.8	140	1000/3000	300/1000	10D/20D
GYFTA-20~24	20~24	4	4	12.8	140	1000/3000	300/1000	10D/20D
GYFTA-26~30	26~30	5	3	12.8	140	1000/3000	300/1000	10D/20D
GYFTA-32~36	32~36	6	2	12.8	140	1000/3000	300/1000	10D/20D
GYFTA-38~42	38~42	7	1	12.8	140	1000/3000	300/1000	10D/20D
GYFTA-44~48	44~48	8	0	12.8	140	1000/3000	300/1000	10D/20D
GYFTA-50~60	50~60	5	3	14.8	176	1000/3000	300/1000	10D/20D
GYFTA-62~72	62~72	6	2	14.8	176	1000/3000	300/1000	10D/20D
GYFTA-74~84	74~84	7	1	14.8	176	1000/3000	300/1000	10D/20D
GYFTA-86~96	86~96	8	0	14.8	176	1000/3000	300/1000	10D/20D
GYFTA-98~108	98~108	9	1	17.1	226	1000/3000	300/1000	10D/20D
GYFTA-110~120	110~120	10	0	17.1	226	1000/3000	300/1000	10D/20D
GYFTA-122~132	122~132	11	1	19.2	279	1000/3000	300/1000	10D/20D
GYFTA-134~144	134~144	12	0	19.2	279	1000/3000	300/1000	10D/20D

储存、使用温度：-40℃至+70℃ Storage/Operating Temperature: -40℃ to + 70℃

【产品标准 Standards】

GYFTA光缆符合YD/T 901-2001和IEC 60794-1标准。
GYFTA cable complies with Standard YD/T 901-2001 as well as IEC 60794-1.

松套层绞式加强铠装光缆 (GYTA53)

Stranded Loose Tube Armored Cable



【产品描述 Description】

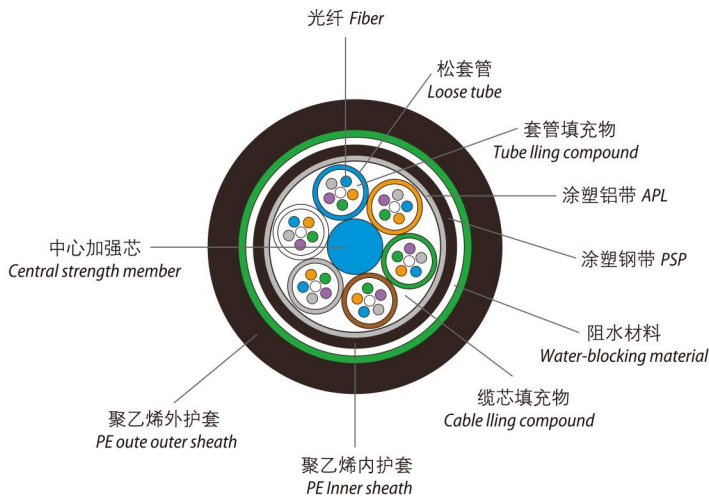
GYTA53光缆的结构是将250 μm光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯（PE）。松套管（和填充绳）围绕中心加强芯绞合成紧凑和圆形的缆芯，缆芯内的缝隙充以阻水填充物。涂塑铝带（APL）纵包后挤制聚乙烯内护套，双面涂塑钢带（PSP）纵包后挤制聚乙烯护套成缆。

The bers, 250m, are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high ber count, locates in the center of core as a metallic strength member. Tubes (and llers) are stranded around the strength member into a compact and circular cable core. An Aluminum Polyethylene Laminate (APL) is applied around the cable core, witch is lled with the lling 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.

【产品特点 Characteristics】

- 具有很好的机械性能和温度特性
Good mechanical and temperature performance
- 松套管材料本身具有良好的耐水解性能和较高的强度
High strength loose tube that is hydrolysis resistant
- 管内充以特种油脂，对光纤进行了关键性保护
Special tube filling compound ensure a critical protection of fiber
- 良好的抗压性和柔软性
Crush resistance and flexibility
- 采用下列措施来确保光缆的防水性能
The following measures are taken to ensure the cable watertight:
 - 单根钢丝中心加强芯
Steel wire used as the central strength member
 - 松套管内填充特种防水化合物
Loose tube filling compound
 - 完全缆芯填充
100% cable core filling
 - 涂塑铝带（APL）防潮层
APL moisture barrier
 - 双面涂塑钢带（PSP）提高光缆的抗透潮能力
PSP enhancing moisture-proof
 - 良好的阻水材料防止光缆纵向渗水
Water-blocking material

【光缆结构图 Cable structure】



【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1450 nm		

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

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增)	光纤数 Fiber Count	套管数 Tubes	填充绳数 Fillers	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GYTA53-2~6	2~6	1	5	13.7	190	1000/3000	1000/3000	10D/20D
GYTA53-8~12	8~12	2	4	13.7	190	1000/3000	1000/3000	10D/20D
GYTA53-14~18	14~18	3	3	13.7	190	1000/3000	1000/3000	10D/20D
GYTA53-20~24	20~24	4	2	13.7	190	1000/3000	1000/3000	10D/20D
GYTA53-26~30	26~30	5	1	13.7	190	1000/3000	1000/3000	10D/20D
GYTA53-32~36	32~36	6	0	13.7	190	1000/3000	1000/3000	10D/20D
GYTA53-38~48	38~48	4	1	15.3	229	1000/3000	1000/3000	10D/20D
GYTA53-50~60	50~60	5	0	15.3	229	1000/3000	1000/3000	10D/20D
GYTA53-62~72	62~72	6	0	15.9	244	1000/3000	1000/3000	10D/20D
GYTA53-74~84	74~84	7	1	18.0	288	1000/3000	1000/3000	10D/20D
GYTA53-86~96	86~96	8	0	18.0	288	1000/3000	1000/3000	10D/20D
GYTA53-98~108	98~108	9	1	19.2	325	1000/3000	1000/3000	10D/20D
GYTA53-110~120	110~120	10	0	19.2	325	1000/3000	1000/3000	10D/20D
GYTA53-122~132	122~132	11	1	21.3	373	1000/3000	1000/3000	10D/20D
GYTA53-134~144	134~144	12	0	21.3	373	1000/3000	1000/3000	10D/20D
GYTA53-146~216	146~216	18	0	21.3	373	1000/3000	1000/3000	10D/20D

储存、使用温度：-40℃至+70℃ Storage/Operating Temperature: -40℃ to +70℃

【产品标准 Standards】

GYTA53光缆符合YD/T 901-2001和IEC 60794-1标准。
GYTA53 cable complies with Standard YD/T 901-2001 as well as IEC 60794-1.

中心管式轻铠装光缆（GYXTW）

Unitube Light-armored Cable



【产品描述 Description】

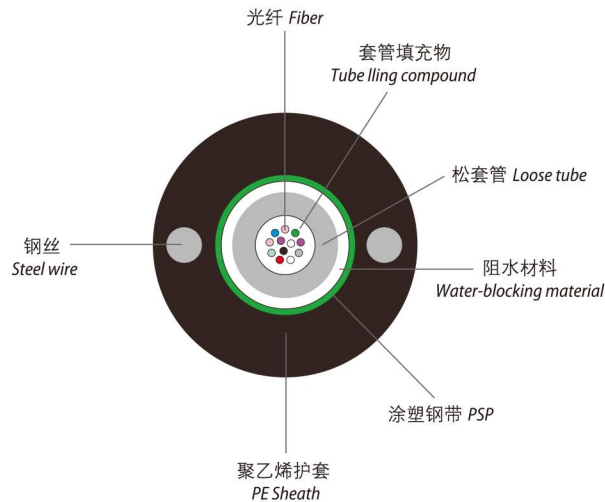
GYXTW光缆的结构是将250 μm光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。松套管外用一层双面涂塑钢带（PSP）纵包，钢带和松套管之间加阻水材料以保证光缆的紧凑和纵向渗水，两侧放置两根平行钢丝后挤制聚乙烯护套成缆。

The bers, 250μm, are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling 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 parallel steel wires are placed at the two sides tape. The cable is completed with a polyethylene (PE) sheath.

【产品特点 Characteristics】

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

【光缆结构图 Cable structure】



【产品标准 Standards】

GYXTW光缆符合YD/T 769–2003标准。
GYXTW cable complies with Standard YD/T 769-2003.

【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λ _{cc}		≤ 1260 nm	≤ 1450 nm		

适用：管道、架空 Application: Duct/Aerial

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增) (Increased by 2 bers)	光纤数 Fiber Count	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GYXTW-2~12	2~12	8.9	100	600/1500	300/1000	10D/20D
GYXTW-2~12	2~12	10.6	124	1000/3000	1000/3000	10D/20D
GYXTW-14~24	14~24	12.0	147	1000/3000	1000/3000	10D/20D
GYXTW-26~36	26~36	12.0	150	1000/3000	1000/3000	10D/20D
GYXTW-38~48	38~48	15.0	207	1000/3000	1000/3000	10D/20D

储存、使用温度：-40℃至+70℃ Storage/Operating Temperature: -40℃ to + 70℃

中心管式加强铠装光缆（GYXTW53）
Unitube Armored Cable



【产品描述 Description】

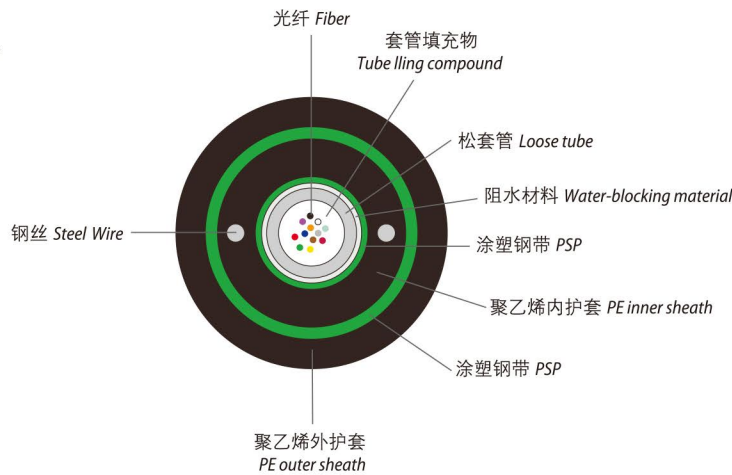
GYXTW53光缆的结构是将250 μm 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。松套管外用一层双面涂塑钢带（PSP）纵包，钢带和松套管之间加阻水材料以保证光缆的紧凑和纵向渗水，两侧放置两根平行钢丝后挤制聚乙烯内护套,双面涂塑钢带（PSP）纵包后挤制聚乙烯护套成缆。

The bers, 250m, are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling 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 parallel steel wires are placed at the two sides tape. 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.

【产品特点 Characteristics】

- 具有很好的机械性能和温度特性
Good mechanical and temperature performance
- 松套管材料本身具有良好的耐水解性能和较高的强度
High strength loose tube that is hydrolysis resistant
- 管内充以特种油膏，对光纤进行了关键性保护
Special tube filling compound ensure a critical protection of fiber
- 良好的抗压性和柔软性
Crush resistance and flexibility
- 两根平行钢丝保证光缆的抗拉强度
Two parallel steel wires ensure tensile strength
- 双面涂塑钢带（PSP）提高光缆的抗透潮能力
PSP enhancing moisture-proof
- 良好的阻水材料防止光缆纵向渗水
Water-blocking material

【光缆结构图 Cable structure】



【产品标准 Standards】

GYXTW53光缆符合YD/T 769–2003标准。
GYXTW53 cable complies with Standard YD/T 769-2003.

【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1450 nm		

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

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增) (Increased by 2 bers)	光纤数 Fiber Count	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GYXTW53-2~12	2~12	12	165	1000/3000	1000/3000	10D/20D

储存、使用温度：-40℃至+70℃ Storage/Operating Temperature: -40℃ to + 70℃

松套层绞式煤矿用阻燃光缆（MGTS）
Stranded Loose Tube Mining Flame-retardant Cable



【产品描述 Description】

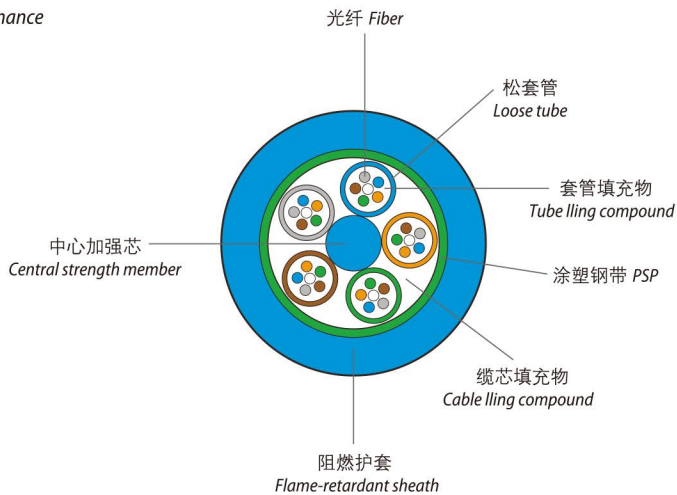
MGTS光缆的结构是将250 μm光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯（PE）。松套管（和填充绳）围绕中心加强芯绞合成紧凑和圆形的缆芯，缆芯内的缝隙充以阻水填充物。双面涂塑钢带（PSP）纵包后挤制阻燃护套成缆。

The bers, 250μm, are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high ber count, locates in the center of core as a metallic strength member. Tubes (and llers) are stranded around the strength member into a compact and circular cable core. The PSP is longitudinally applied over the cable core, which is lled with the lling compound to protect it from water ingress. The cable is completed with a ame-retardant sheath.

【产品特点 Characteristics】

- 具有很好的机械性能和温度特性
Good mechanical and temperature performance
- 松套管材料本身具有良好的耐水解性能和较高的强度
High strength loose tube that is hydrolysis resistant
- 管内充以特种油脂，对光纤进行了关键性保护
Special tube lling compound ensure a critical protection of ber
- 特种护套材料具有优异的阻燃性能
Special sheath material ensure excellent ame-retardant performance
- 良好的抗压性和柔软性
Crush resistance and exibility
- 特别设计的紧密的光缆结构，有效防止套管回缩
Special designed compact structure is good at preventing loose tubes from shrinking
- 采用下列措施来确保光缆的防水性能
The following measures are taken to ensure the cable watertight:
 - 单根钢丝中心加强芯
Steel wire used as the central strength member
 - 松套管内填充特种防水化合物
Loose tube lling compound
 - 完全缆芯填充
100% cable core lling
 - 双面涂塑钢带（PSP）提高光缆的抗透潮能力
PSP enhancing moisture-proof

【光缆结构图 Cable structure】



【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1450 nm		

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

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增) (Increased by 2 bers)	光纤数 Fiber Count	套管数 Tubes	填充绳数 Fillers	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
MGTS-2~6	2~6	1	4	9.5	112	600/1500	300/1000	10D/20D
MGTS-8~12	8~12	2	3	9.5	112	600/1500	300/1000	10D/20D
MGTS-14~18	14~18	3	2	9.5	112	600/1500	300/1000	10D/20D
MGTS-20~24	20~24	4	1	9.5	112	600/1500	300/1000	10D/20D
MGTS-26~30	26~30	5	0	9.5	112	600/1500	300/1000	10D/20D
MGTS-32~36	32~36	6	0	10.0	131	1000/3000	300/1000	10D/20D
MGTS-38~48	38~42	4	1	11.0	188	1000/3000	300/1000	10D/20D
MGTS-50~60	50~60	5	0	11.8	188	1000/3000	300/1000	10D/20D
MGTS-62~72	62~72	6	0	12.4	204	1000/3000	300/1000	10D/20D
MGTS-74~84	74~84	7	1	13.8	255	1000/3000	300/1000	10D/20D
MGTS-86~96	86~96	8	0	13.8	255	1000/3000	300/1000	10D/20D
MGTS-98~108	98~108	9	1	15.6	284	1000/3000	300/1000	10D/20D
MGTS-110~120	110~120	10	0	15.6	284	1000/3000	300/1000	10D/20D
MGTS-122~132	122~132	11	1	17.4	340	1000/3000	300/1000	10D/20D
MGTS-134~144	134~144	12	0	17.4	340	1000/3000	300/1000	10D/20D

储存、使用温度：-40℃至+70℃ Storage/Operating Temperature: -40℃ to + 70℃

【产品标准 Standards】

MGTS光缆符合YD/T 901-2001和MT386-1995标准。
MGTS cable complies with Standard YD/T 901-2001 as well as MT386-1995; and passes MA certification.

中心管式煤矿用阻燃光缆（MGXTW）
Unitube Mining Flame-retardant Cable



【产品描述 Description】

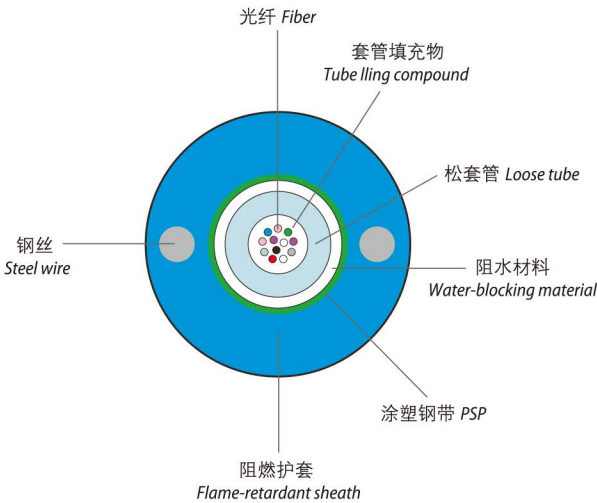
MGXTW光缆的结构是将250 μm光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。松套管外用一层双面涂塑钢带（PSP）纵包，钢带和松套管之间加阻水材料以保证光缆的紧凑和纵向阻水，两侧放置两根平行钢丝后挤制阻燃护套成缆。

The bers, 250μm, are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling 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 ame-retardant sheath.

【产品特点 Characteristics】

- 具有很好的机械性能和温度特性
Good mechanical and temperature performance
- 松套管材料本身具有良好的耐水解性能和较高的强度
High strength loose tube that is hydrolysis resistant
- 管内充以特种油膏，对光纤进行了关键性保护
Special tube filling compound ensure a critical protection of fiber
- 特种护套材料具有优异的阻燃性能
Special sheath material ensure excellent flame-retardant performance
- 双面涂塑钢带（PSP）提高光缆的抗透潮能力
PSP enhancing moisture-proof
- 两根平行钢丝保证光缆的抗拉强度
Two parallel steel wires ensure tensile strength
- 直径小、重量轻、容易敷设
Small diameter, light weight and friendly installation
- 较长的交货长度
Long delivery length

【光缆结构图 Cable structure】



【产品标准 Standards】

MGXTW光缆符合YD/T 769–2003标准。
MGXTW cable complies with Standard YD/T 769-2003.

【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1450 nm		

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

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增) (Increased by 2 bers)	光纤数 Fiber Count	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
MGXTW-2~12	2~12	10.6	152	600/1500	300/1000	10D/20D
MGXTW-2~12	2~12	11.0	172	1000/3000	1000/3000	10D/20D
MGXTW-14~24	14~24	13.0	215	1000/3000	1000/3000	10D/20D
MGXTW-26~36	26~36	14.6	272	1000/3000	1000/3000	10D/20D
MGXTW-38~48	38~48	15.6	306	1000/3000	1000/3000	10D/20D

储存、使用温度：-40℃至+70℃ Storage/Operating Temperature: -40℃ to + 70℃

8字型光纤 (GYTC8A)

Figure 8 Cable



【产品描述 Description】

GYTC8A光缆的结构是将250 μ m光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。缆芯的中心是一根金属加强芯，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。

我们还可提供Y护套或S护套的8字型光缆GYTC8Y、GYTC8S等，此类产品多应用于自承式架空敷设。

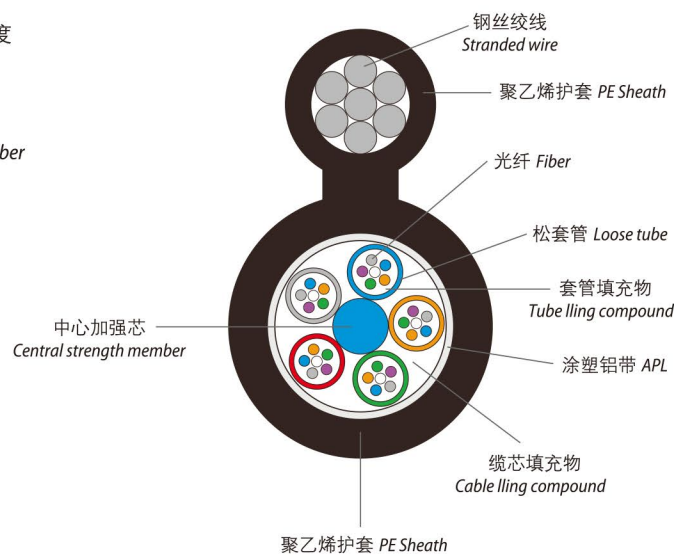
The bers, 250m, are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling compound. A steel wire locates in the center of core as a metallic strength member. The tubes (and llers) are stranded around the strength member into a compact and circular cable core. After an Aluminum Polyethylene Laminate (APL) moisture battier 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 gure 8 structure.

INGO gure 8 cable GYTC8Y, GYTC8S are also available on request. This type of cable is specically applied for self-supporting aerial installation.

【产品特点 Characteristics】

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

【光缆结构图 Cable structure】



【光学特性 Optical Characteristics】

	G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm		≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm		≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km	
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km	
带宽（A级）Bandwidth(Class A)	@ 850 nm		≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm		≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture			0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc	≤ 1260 nm	≤ 1450 nm		

适用：自承式架空 Application: Self-supporting

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增) (Increased by 2 bers)	光纤数 Fiber Count	套管数 Tubes	填充绳数 Fillers	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GYTC8A-2~6	2~6	1	4	6.8x9.2x18.0	214	600/1500	300/1000	10D/20D
GYTC8A-8~12	8~12	2	3	6.8x9.2x18.0	214	600/1500	300/1000	10D/20D
GYTC8A-14~18	14~18	3	2	6.8x9.2x18.0	214	600/1500	300/1000	10D/20D
GYTC8A-20~24	20~24	4	1	6.8x9.2x18.0	214	600/1500	300/1000	10D/20D
GYTC8A-26~30	26~30	5	0	6.8x9.2x18.0	214	600/1500	300/1000	10D/20D

储存、使用温度：-40℃至+70℃ Storage/Operating Temperature: -40℃ to + 70℃

【产品标准 Standards】

GYTC8A光缆符合YD/T 1155-2001和IEC 60794-1标准。
GYTC8A cable complies with Standard YD/T 1155-2001 as well as IEC 60794-1.

光电复合缆 (GYTS+2x2.5mm²) Optic Electric Composite Cable



【产品描述 Description】

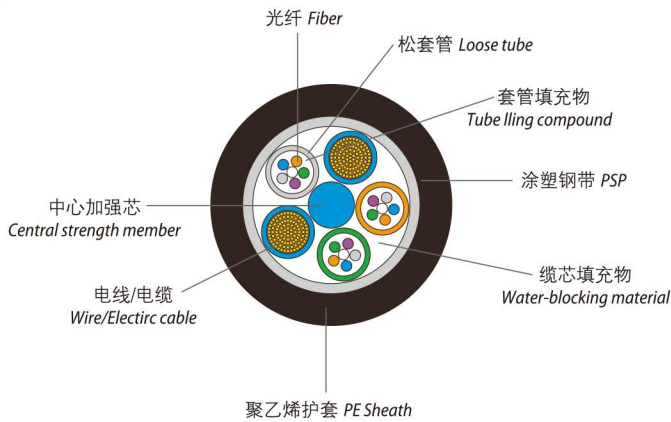
光电混合光缆的结构是将250 μm 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。缆芯中心为FRP或金属加强件(有些结构需在加强件加一层PE 垫层)。电线与松套管（和填充绳）围绕中心加强芯绞合成紧凑和圆形的缆芯，缆芯内的缝隙充以阻水填充物。双面涂塑钢带（PSP）纵包后挤制聚乙烯或低烟无卤（LSZH）护套成缆。

The bers,250m,are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling compound. The cable core is FRP or metallic strength member(some structures need add PE as bedding layer in the strength member). Electric wires and tubes (and llers) are stranded around the strength member into a compact and circular cable core. The cable core is lled with the lling compound to protect it from water ingress. After two sides PSP are longitudinally applied over the inner sheath ,the cable is completed with PE or LSZH outer sheath.

【产品特点 Characteristics】

- 光缆具有很好的机械性能和温度特性
Good mechanical and temperature performance
- 光电一体，充分节约管道资源
Opto and electricity integrated, fully save pipeline resources
- 电缆部分与光缆部分保持相对独立的结构，便于安装时的引入、引出和连接
Electric and optical cable maintain relatively independent structure, easy to import, export and link when installation
- 将电源线、电话线、电视线、网线、监控线、资料线等多网合一，节约了成本
Electricity lines, telephone lines, television lines, network lines, monitor lines and data lines are multi-one network, saves costs
- 光缆直径和弯曲半径小，在狭小空间也能自由安装同时相容光信号传输和电能传输
Cable diameter and bending radius are small, freely install in small space and compatible with optical signal and electric energy transmission
- 较大的工作和施工温度范围
Larger operating temperature range and construction temperature range

【光缆结构图 Cable structure】



【产品标准 Standards】

GYTS+2x2.5mm²光缆符合YD/T 981.3-1998和IEC 60794-1标准。
GYTS+2x2.5mm² cable complies with Standard YD/T 981.3-1998 as well as IEC 60794-1.

【光学特性 Optical Characteristics】

	G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km
	@ 1300 nm			≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km	
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km	
带宽（A级）Bandwidth(Class A)	@ 850 nm		≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm		≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture			0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc	≤ 1260 nm	≤ 1450 nm		

适用：管道、架空 Application: Duct/Aerial

【结构参数 Technical Parameters】

光缆型号 Cable Type	电线数 Electric wire	光缆重量 Cable Weight (kg/km)	工作温度范围 Operating Temperature range		允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
			电线 Electric wire	除电线外其他材料 Other materials except electric wire			
GYTS+2x2.5mm²	2	347	-15℃~+70℃	-40℃~+70℃	600/1500	300/1000	10D/20D
GYTS+2x2.5mm²	4	382	-15℃~+70℃	-40℃~+70℃	600/1500	300/1000	10D/20D
GYTS+2x2.5mm²	6	502	-15℃~+70℃	-40℃~+70℃	600/1500	300/1000	10D/20D
GYTS+2x2.5mm²	8	628	-15℃~+70℃	-40℃~+70℃	600/1500	300/1000	10D/20D

储存、使用温度：-40℃至+60℃ Storage/Operating Temperature: -40℃ to +60℃

松套层绞式阻燃光缆（GYTZS）
Stranded Loose Tube Flame-retardant Cable



【产品描述 Description】

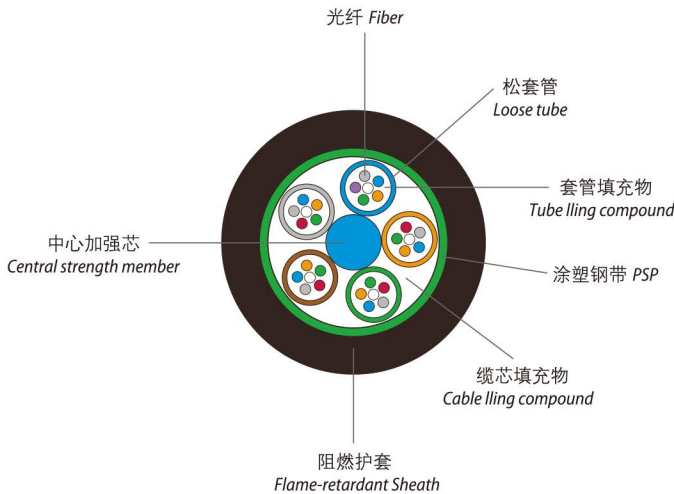
GYTZS光缆的结构是将250 μ m光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯（PE）。松套管（和填充绳）围绕中心加强芯绞合成紧凑和圆形的缆芯，缆芯内的缝隙充以阻水填充物。双面涂塑钢带（PSP）纵包后挤制阻燃护套成缆。

The bers, 250m, are positioned in a loose tube made of a high modulus plastic. The tubes are lled with a water-resistant lling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high ber count, locates in the center of core as a metallic strength member. Tubes (and llers) are stranded around the strength member into a compact and circular cable core. The PSP is longitudinally applied over the cable core, which is lled with the lling compound to product it from water ingress. The cable is completed with a ame-retardant sheath.

【产品特点 Characteristics】

- 具有很好的机械性能和温度特性
Good mechanical and temperature performance
- 松套管材料本身具有良好的耐水解性能和较高的强度
High strength loose tube that is hydrolysis resistant
- 管内充以特种油膏，对光纤进行了关键性保护
Special tube lling compound ensure a critical protection of ber
- 特种护套材料具有优异的阻燃性能
Special sheath material ensure excellent ame-retardant performance
- 良好的抗压性和柔软性
Crush resistance and exibility
- 特别设计的紧密的光缆结构，有效防止套管回缩
Special designed compact structure is good at preventing loose tubes from shrinking
- 采用下列措施来确保光缆的防水性能
The following measures are taken to ensure the cable watertight:
 - 单根钢丝中心加强芯
Steel wire used as the central strength member
 - 松套管内填充特种防水化合物
Loose tube lling compound
 - 完全缆芯填充
100% cable core lling
 - 双面涂塑钢带（PSP）提高光缆的抗透潮能力
PSP enhancing moisture-proof
 - 良好的阻水材料防止光缆纵向渗水
Water-blocking material

【光缆结构图 Cable structure】



【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1450 nm		

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

【结构参数 Technical Parameters】

光缆型号 Cable Type (以2纤递增) (Increased by 2 bers)	光纤数 Fiber Count	套管数 Tubes	填充绳数 Fillers	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GYTZS-2~6	2~6	1	4	9.7	135	600/3000	300/1000	10D/20D
GYTZS-8~12	8~12	2	3	9.7	135	600/3000	300/1000	10D/20D
GYTZS-14~18	14~18	3	2	9.7	135	600/3000	300/1000	10D/20D
GYTZS-20~24	20~24	4	1	9.7	135	600/3000	300/1000	10D/20D
GYTZS-26~30	26~30	5	0	9.7	135	600/3000	300/1000	10D/20D
GYTZS-32~36	32~36	6	0	10.2	147	1000/3000	300/1000	10D/20D
GYTZS-38~48	38~42	4	1	11.2	167	1000/3000	300/1000	10D/20D
GYTZS-50~60	50~60	5	0	11.2	167	1000/3000	300/1000	10D/20D
GYTZS-62~72	62~72	6	0	12.2	189	1000/3000	300/1000	10D/20D
GYTZS-74~84	74~84	7	1	13.8	231	1000/3000	300/1000	10D/20D
GYTZS-86~96	86~96	8	0	13.8	231	1000/3000	300/1000	10D/20D
GYTZS-98~108	98~108	9	1	15.2	271	1000/3000	300/1000	10D/20D
GYTZS-110~120	110~120	10	0	15.2	271	1000/3000	300/1000	10D/20D
GYTZS-122~132	122~132	11	1	17.1	327	1000/3000	300/1000	10D/20D
GYTZS-134~144	134~144	12	0	17.1	327	1000/3000	300/1000	10D/20D

储存、使用温度：-40℃至+60℃ Storage/Operating Temperature: -40℃ to + 60℃

【产品标准 Standards】

GYTZS光缆符合YD/T 901-2001和MT386-1995标准；通过（MA）认证。
GYTZS cable complies with Standard YD/T 901-2001 as well as MT386-1995; and passes MA certification.

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



【产品描述 Description】

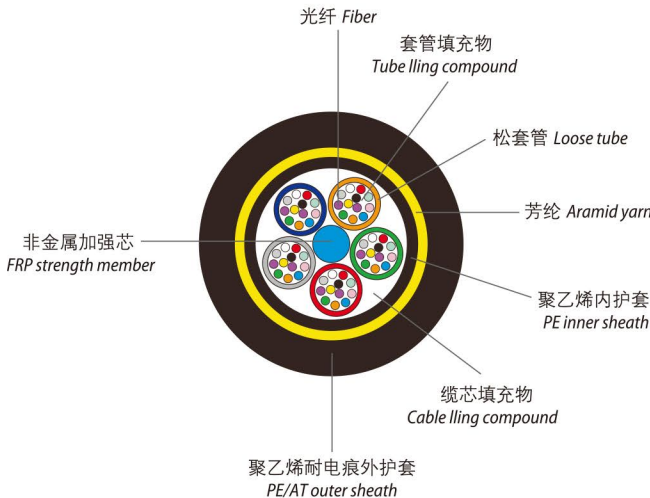
ADSS光缆采用松套层绞式结构，将250 μm光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。松套管（和填充绳）围绕非金属中心加强芯（FRP）绞合成紧凑的缆芯，缆芯的缝隙充以阻水油膏。缆芯外挤制聚乙烯（PE）内护套，然后绞合起加强作用的芳纶，最后挤制聚乙烯（PE）外护套或耐电痕（AT）外护套。

ADSS cable is loose tube stranded. Fibers, 250μm, are positioned into a loose tube made of high modulus plastics. The tubes are lled with a water-resistant lling compound. The tubes (and llers) 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 lled with lling 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.

【产品特点 Characteristics】

- 可不断电架设
Can be installed without shutting off the power
- 采用AT护套，耐电痕性能优越
Excellent AT performance. The maximum inductive at the operating point of AT sheath can reach 25kV
- 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
Light weight and small diameter reducing the load caused by ice and wind and the load on towers and backrops.
- 跨距大，最大跨越超过1000米
Large span lengths and the largest span is over 1000m
- 具有优异的抗拉性能和温度特性
Good performance of tensile strength and temperature
- 预期寿命大于30年
The design life span is over 30 years

【光缆结构图 Cable structure】



【产品标准 Standards】

ADSS光缆遵循IEEE 1222-2004技术标准，同时符合IEC 60794-1之标准。
ADSS cable complies with Standard IEEE 1222-2004 as well as IEC 60794-1.

【光学特性 Optical Characteristics】

		G.652	G.655	50/125 μm	62.5/125 μm
衰减 Attenuation(+20℃)	@ 850 nm			≤ 3.0 dB/km	≤ 3.3 dB/km
	@ 1300 nm			≤ 1.0 dB/km	≤ 1.0 dB/km
	@ 1310 nm	≤ 0.36 dB/km	≤ 0.40 dB/km		
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.23 dB/km		
带宽（A级）Bandwidth(Class A)	@ 850 nm			≥ 500 MHz·km	≥ 200 MHz·km
	@ 1300 nm			≥ 1000 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture				0.200±0.015 NA	0.275±0.015 NA
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1450 nm		

适用：自承式架空 Application: Self-supporting

【结构参数 Technical Parameters】

参考外径 Ref. outer diameter mm	参考重量 Ref. Weight (kg/km)		推荐日常最大 工作张力 Rec. daily max. Working tension (kN)	最大允许 工作张力 Max. allo wable Working tension (kN)	断裂 强度 Break strength (kN)	抗拉元件 截面积 Strength member CSA mm²	弹性模量 Modulus of expansion kN/mm²	热膨胀系数 Heat expansion coefficient x10 ⁻⁶ /K	适合跨距(m)Suitable span 对应气象条件(NESC Standard.m)			
	PE外护 PE sheath	AT外护 PE sheath							A	B	C	D
12.5	125	136	1.5	4	10	4.6	7.6	1.8	160	100	140	100
13.0	132	142	2.25	6	15	7.6	8.3	1.5	230	150	200	150
13.3	137	148	3.0	8	20	10.35	9.45	1.3	300	200	290	200
13.6	145	156	3.6	10	24	13.8	10.8	1.2	370	250	350	250
13.8	147	159	4.5	12	30	14.3	11.8	1.0	420	280	400	280
14.5	164	177	5.4	15	36	18.4	13.6	0.9	480	320	460	320
14.9	171	185	6.75	18	45	22.0	16.4	0.6	570	380	550	380
15.1	179	193	7.95	22	53	26.4	18.0	0.3	670	460	650	460
15.5	190	204	9.0	26	60	32.2	19.1	0.1	750	530	750	510
15.6	194	208	10.5	28	70	33.0	19.6	0.1	800	560	800	560
16.3	211	226	12.75	34	85	40.0	20.1	0.1	880	650	880	650
16.8	226	242	15.45	41	103	48.0	24.0	-0.4	1000	750	1000	760
17.2	236	253	16.2	45	108	51.0	25.1	-0.5	1100	800	1100	830
17.9	249	266	18.0	50	120	58.8	26.1	-0.8	1180	880	1180	900

储存、使用温度：-40℃至+70℃ Storage/Operating Temperature: -40℃ to + 70℃

室内光缆 Indoor Optical Cable

紧套光纤 Tight Buffer Fiber

【产品描述 Description】

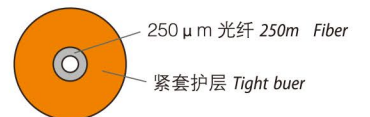
紧套光纤是在被覆光纤外挤附一层缓冲材料而成。通过选择优质光纤，使用专用设备，配合精密模具，使产品具有优良的性能。
Tight Buer Fiber is produced as that ber is sheathed by buer material. The selection of top-quality ber, the specic production equipment and the accurately designed die make the performance of product.

【产品特点 Characteristics】

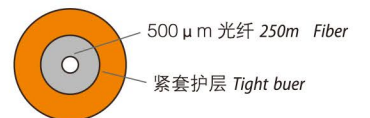
- 紧套光纤外径均匀，剥离性好
Good uniformity of the outer diameter of tight buer ber and excellent strippability.
- 良好的阻燃性能
Good performance of ame-retardant.
- 高、低温特性稳定
Low induced attenuation within the operating temperature range.
- 光纤的几何尺寸一致性好
Excellent geometrical dimension of the ber.

【产品应用 Applications】

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



【TBF-I 紧套光纤结构图 TBF-I Structure】



【TBF-II 紧套光纤结构图 TBF-II Structure】

【紧套光纤色谱 TBF Colour】

紧套光纤 TBF	1	2	3	4	5	6	7	8	9	10	11	12
颜色 Colour	 蓝色 Blue	 橙色 Orange	 绿色 Green	 棕色 Brown	 灰色 Slate	 白色 White	 红色 Red	 黑色 Black	 黄色 Yellow	 紫色 Violet	 粉红色 Pink	 水绿色 Aqua
颜色代码 Colour Code	<u>B</u>	<u>O</u>	<u>G</u>	<u>N</u>	<u>S</u>	<u>W</u>	<u>R</u>	<u>K</u>	<u>Y</u>	<u>V</u>	<u>P</u>	<u>A</u>

【结构参数 Technical Parameters】

紧套光纤 型号 TFB Code	光纤涂层 直径 Fiber Coating Diameter (μm)	紧套光纤 直径 TFB Diameter (μm)	紧套光纤 重量 TBF Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 动态/静态 Dynamic/Static (mm)	剥离强度 Coating Strip Force (N)
TBF- I	245±7	900±50	0.9	3/6	100/500	20D/10D	≤13.3
TBF- II	500±25	900±50	0.7	3/6	100/500	20D/10D	≤13.3

【光学特性 Optical Characteristics】

		50/125 μm	62.5/125 μm	G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm	≤ 3.5 dB/km	≤ 3.5 dB/km		
	@ 1300 nm	≤ 1.5 dB/km	≤ 1.5 dB/km		
	@ 1310 nm			≤ 0.45 dB/km	≤ 0.50 dB/km
	@ 1550 nm			≤ 0.30 dB/km	≤ 0.50 dB/km
	@ 1550 nm				
带宽（A级）Bandwidth(Class A)	@ 850 nm	≥ 500 MHz·km	≥ 200 MHz·km		
	@ 1300 nm	≥ 1000 MHz·km	≥ 600 MHz·km		
数值孔径 Numerical Aperture		0.200±0.015 NA	0.275±0.015 NA		
光缆截止波长 Cable Cut-off Wavelength λ _{cc}				≤ 1260 nm	≤ 1450 nm
温度附加衰减 Δα（-20℃~+60℃） Attenuation at temperature cycling Δα(-20℃~+60℃)	@ 1300 nm	≤ 0.25 dB/km	≤ 0.25 dB/km		
	@ 1550 nm			≤ 0.10 dB/km	≤ 0.15 dB/km

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

单芯光缆（SXC） Simplex Cable

【产品描述 Description】

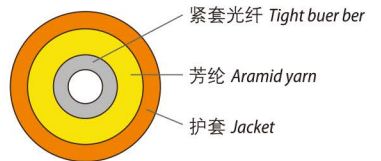
SXC单芯光缆使用单根φ900 μm或φ600 μm阻燃紧套光纤作为光传输介质，外覆一层芳纶作为受力加强单元，最外挤制一层聚氯乙烯（PVC）或低烟无卤材料（LSZH，低烟、无卤、阻燃）护套而成。
SXC simplex cable use single 900m or 600m ame-retar ant tight buer ber as optical communication medium, the tight buer ber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

【产品特点 Characteristics】

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

【产品应用 Applications】

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



【光缆结构图 Cable structure】

【产品标准 Standards】

满足YD/T 1258.2-2003、ICEA-596、GR-409、IEC 60794-2-10/11等标准；符合UL认证OFNR、OFNP要求。
Comply with Standard YD/T 1258.2-2003、ICEA-596、GR-409、IEC 60794-2-10/11, etc; and meet the requirements of UL approval for OFNR and OFNP.

【结构参数 Technical Parameters】

光缆型号 Cable Code	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)		紧套光纤 直径 TBF Diameter (μm)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 动态/静态 Dynamic/Static (mm)
		PVC护套 PVC Jacket	LSZH护套 LSZH Jacket				
SXC	1.6	2.4	2.6	600±50		100/500	50/30
SXC	1.8	3.5	4.5	900±50	60/100	100/500	50/30
SXC	2.8	6.0	7.5	900±50	60/100	100/500	50/30

【光学特性 Optical Characteristics】

		50/125 μm	62.5/125 μm	G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm	≤ 3.5 dB/km	≤ 3.5 dB/km		
	@ 1300 nm	≤ 1.5 dB/km	≤ 1.5 dB/km		
	@ 1310 nm			≤ 0.50 dB/km	≤ 0.50 dB/km
	@ 1550 nm			≤ 0.40 dB/km	≤ 0.40 dB/km
带宽（A级）Bandwidth(Class A)	@ 850 nm	≥ 500 MHz·km	≥ 200 MHz·km		
	@ 1300 nm	≥ 1000 MHz·km	≥ 600 MHz·km		
数值孔径 Numerical Aperture		0.200±0.015 NA	0.275±0.015 NA		
光缆截止波长 Cable Cut-off Wavelength λ _{cc}				≤ 1260 nm	≤ 1450 nm
温度附加衰减 Δα（-20℃~+60℃） Attenuation at temperature cycling Δα(-20℃~+60℃)	@ 1300 nm	≤ 0.25 dB/km	≤ 0.25 dB/km		
	@ 1550 nm			≤ 0.10 dB/km	≤ 0.15 dB/km

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

双芯8字型光缆（ZCC） Zipcord Interconnect Cable

【产品描述 Description】

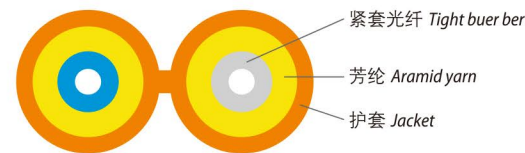
ZCC双芯8字型光缆使用φ900μm或φ600μm阻燃紧套光纤作为光传输介质，外覆一层芳纶作为受力加强单元，最外挤制一层8字型聚氯乙烯（PVC）或低烟无卤材料（LSZH，低烟、无卤、阻燃）护套而成。
ZCC zipcord interconnect cable use 900m or 600m ame retardant tight buer ber as optical communication medium, the tight buer ber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a gure 8 PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

【产品特点 Characteristics】

- 采用紧套光纤，便于剥离使用
Tight buffer fiber ease of stripping.
- 紧套光纤有良好的阻燃性能
Tight buffer fiber have excellent flame-retardant performance.
- 芳纶加强元件，使光缆有优异的抗拉性能
Aramid yarn as strength member make cable have excellent tensile strength.
- 8字型结构护套易于剥开分支使用
Figure 8 structure jacket facilitate embranchment.
- 外护材料耐腐蚀，防水，防紫外线，阻燃，环保等优点
The jacket anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
- 全介质结构，不受电磁干扰
All dielectric structure protect it from electromagnetic influence.
- 加工工艺严谨，设计科学合理
Scientific design with serious processing art.

【产品应用 Applications】

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



【光缆结构图 Cable structure】

【产品标准 Standards】

满足YD/T 1258.2-2003、ICEA-596、GR-409、IEC 60794-2-10/11等标准；符合UL认证OFNR、OFNP要求。
Comply with Standard YD/T 1258.2-2003、ICEA-596、GR-409、IEC 60794-2-10/11, etc; and meet the requirements of UL approval for OFNR and OFNP.

【结构参数 Technical Parameters】

光缆型号 Cable Code	光缆尺寸 Cable Size (mm)	光缆重量 Cable Weight (kg/km)		紧套光纤 直径 TBF Diameter (μm)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 动态/静态 Dynamic/Static (mm)
		PVC护套 PVC Jacket	LSZH护套 LSZH Jacket				
ZCC	(3.4±0.4)x(1.6±0.2)	4.8	5.3	600±50			50/30
ZCC	(3.8±0.4)x(2.0±0.2)	8.0	8.7	900±50	100/200	100/200	50/30
ZCC	(6.0±0.4)x(2.8±0.2)	11.6	14.8	900±50	100/200	100/200	50/30

【光学特性 Optical Characteristics】

		50/125 μm	62.5/125 μm	G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm	≤ 3.5 dB/km	≤ 3.5 dB/km		
	@ 1300 nm	≤ 1.5 dB/km	≤ 1.5 dB/km		
	@ 1310 nm			≤ 0.50 dB/km	≤ 0.50 dB/km
	@ 1550 nm			≤ 0.40 dB/km	≤ 0.40 dB/km
带宽（A级）Bandwidth(Class A)	@ 850 nm	≥ 500 MHz·km	≥ 200 MHz·km		
	@ 1300 nm	≥ 1000 MHz·km	≥ 600 MHz·km		
数值孔径 Numerical Aperture		0.200±0.015 NA	0.275±0.015 NA		
光缆截止波长 Cable Cut-off Wavelength λcc				≤ 1260 nm	≤ 1450 nm
温度附加衰减 Δα（-20℃~+60℃） Attenuation at temperature cyclingΔα(-20℃~+60℃)	@ 1300 nm	≤ 0.25 dB/km	≤ 0.25 dB/km		
	@ 1550 nm			≤ 0.10 dB/km	≤ 0.15 dB/km

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

带状扁平光缆（RBC） Flat Fiber Ribbon Cable

【产品描述 Description】

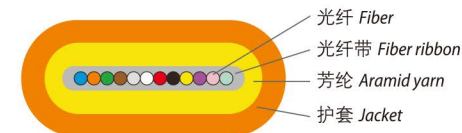
RBC带状扁平光缆使用光纤带作为光传输介质，外覆一层芳纶作为受力加强单元，最外挤制一层扁平聚氯乙烯（PVC）或低烟无卤材料（LSZH，低烟、无卤、阻燃）总护套而成。
RBC at ber ribbon cable use ber ribbon as optical communication medium, the ber ribbon wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a layer of at PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

【产品特点 Characteristics】

- 芳纶加强元件，使光缆有优异的抗拉性能
Aramid yarn as strength member make cable have excellent tensile strength.
- 结构紧凑，纤密度高，柔软性，抗侧压性能好
Compact structure with high ber density, good performance of exibility and crush resistance.
- 外护材料耐腐蚀，防水，防紫外线，阻燃，环保等优点
The jacket anti-corrosion, anti-water, anti-ultraviolet radiation, ame-retardant and harmless to environment etc.
- 全介质结构，不受电磁干扰
All dielectric structure protect it from electromagnetic inuence.
- 加工工艺严谨，设计科学合理
Scientific design with serious processing art.

【产品应用 Applications】

- 带状光纤活动连接跳线
Ribbon Optical ber jumper and pigtail.
- 室内各种用途的布线
Indoor cable distribution for any purpose.
- 光纤配线设备互联
Interconnect between optical ber cable distribution equipment.



【光缆结构图 Cable structure】

【产品标准 Standards】

满足YD/T 1258.2-2005、ICEA-596、GR-409、IEC 60794-2-30/31等标准；符合UL认证OFNP要求。
Comply with Standard YD/T 1258.2-2005、ICEA-596、GR-409、IEC 60794-2-30/31, etc; and meet the requirements of UL approval for OFNP.

【结构参数 Technical Parameters】

光缆型号 Cable Code	芯数 Fiber Count	光缆尺寸 Cable Size (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 动态/静态 Dynamic/Static (mm)	护套材料 Jacket Material
RBC	4	(3.7±0.4)x(2.5±0.2)	6.0	80/150	200/1000	60/30	PVC
RBC	6	(4.2±0.4)x(2.5±0.2)	8.5	80/150	200/1000	60/30	PVC
RBC	8	(4.7±0.4)x(2.5±0.2)	8.4	80/150	200/1000	60/30	PVC
RBC	12	(4.8±0.4)x(2.5±0.2)	8.5	80/150	200/1000	60/30	PVC
RBC	4	(3.7±0.4)x(2.5±0.2)	6.8	80/150	200/1000	60/30	LSZH
RBC	6	(4.2±0.4)x(2.5±0.2)	7.4	80/150	200/1000	60/30	LSZH
RBC	8	(4.7±0.4)x(2.5±0.2)	9.6	80/150	200/1000	60/30	LSZH
RBC	12	(4.8±0.4)x(2.5±0.2)	9.8	80/150	200/1000	60/30	LSZH

【光学特性 Optical Characteristics】

		50/125 μm	62.5/125 μm	G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm	≤ 3.5 dB/km	≤ 3.5 dB/km		
	@ 1300 nm	≤ 1.5 dB/km	≤ 1.5 dB/km		
	@ 1310 nm			≤ 0.50 dB/km	≤ 0.50 dB/km
	@ 1550 nm			≤ 0.40 dB/km	≤ 0.40 dB/km
带宽（A级）Bandwidth(Class A)	@ 850 nm	≥ 500 MHz·km	≥ 200 MHz·km		
	@ 1300 nm	≥ 1000 MHz·km	≥ 600 MHz·km		
数值孔径 Numerical Aperture		0.200±0.015 NA	0.275±0.015 NA		
光缆截止波长 Cable Cut-off Wavelength λcc				≤ 1260 nm	≤ 1450 nm
温度附加衰减 Δα（-20℃~+60℃） Attenuation at temperature cyclingΔα(-20℃~+60℃)	@ 1300 nm	≤ 0.25 dB/km	≤ 0.25 dB/km		
	@ 1550 nm			≤ 0.10 dB/km	≤ 0.15 dB/km

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

多用途分支光缆（BOC）Mulit Purpose Break-out Cable

【产品描述 Description】

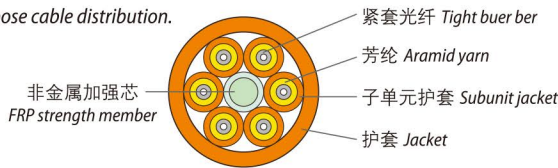
BOC多用途光缆使用单芯光缆（φ900 μm紧套光纤、芳纶加强元件）作为子单元，非金属中心加强芯、光缆子单元层胶于中心加强芯形成缆芯，最外挤制一层聚氯乙烯（PVC）或低烟无卤材料（LSZH，低烟、无卤、阻燃）护套而成。
BOC multi-purpose break-out cable use simplex cable (900m tight buer, aramid yarn as strength member) as subunit. A ber reinforced plastic (FRP) locates in the center of core as a non-metallic 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.

【产品特点 Characteristics】

- 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
Stranded non-metallic strength member structure ensure the cable endure large tensile strength.
- 外护材料耐腐蚀，防水，防紫外线，阻燃，环保等优点
The jacket anti-corrosion, anti-water, anti-ultraviolet radiation, ame-retardant and harmless to environment etc.

【产品应用 Applications】

- 室内综合布线
Indoor any purpose cable distribution.



【光缆结构图 Cable structure】

【产品标准 Standards】

满足YD/T 1258.2-2005、ICEA-596、GR-409、IEC 60794-2-20/21等标准；符合UL认证OFNP要求。
Comply with Standard YD/T 1258.2-2005、ICEA-596、GR-409、IEC 60794-2-20/21, etc; and meet the requirements of UL approval for OFNP.

【结构参数 Technical Parameters】

光缆型号 Cable Code	芯数 Fiber Count	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 动态/静态 Dynamic/Static (mm)	护套材料 Jacket Material
BOC	2	7.2±0.5	38	200/660	300/1000	20D/10D	PVC
BOC	4	7.2±0.5	45.5	200/660	300/1000	20D/10D	PVC
BOC	6	8.3±0.5	63	200/660	300/1000	20D/10D	PVC
BOC	8	9.4±0.5	84	200/660	300/1000	20D/10D	PVC
BOC	10	10.7±0.5	125	200/660	300/1000	20D/10D	PVC
BOC	12	12.2±0.5	148	200/660	300/1000	20D/10D	PVC
BOC	18	12.2±0.5	153	400/1320	300/1000	20D/10D	PVC
BOC	2	7.2±0.5	45	200/660	300/1000	20D/10D	LSZH
BOC	4	7.2±0.5	54	200/660	300/1000	20D/10D	LSZH
BOC	6	8.3±0.5	75	200/660	300/1000	20D/10D	LSZH
BOC	8	9.4±0.5	100	200/660	300/1000	20D/10D	LSZH
BOC	10	10.7±0.5	145	200/660	300/1000	20D/10D	LSZH
BOC	12	12.2±0.5	170	200/660	300/1000	20D/10D	LSZH
BOC	18	12.2±0.5	176	400/1320	300/1000	20D/10D	LSZH

【光学特性 Optical Characteristics】

		50/125 μm	62.5/125 μm	G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm	≤ 3.5 dB/km	≤ 3.5 dB/km		
	@ 1300 nm	≤ 1.5 dB/km	≤ 1.5 dB/km		
	@ 1310 nm			≤ 0.50 dB/km	≤ 0.50 dB/km
	@ 1550 nm			≤ 0.40 dB/km	≤ 0.40 dB/km
带宽（A级）Bandwidth(Class A)	@ 850 nm	≥ 500 MHz·km	≥ 200 MHz·km		
	@ 1300 nm	≥ 1000 MHz·km	≥ 600 MHz·km		
数值孔径 Numerical Aperture		0.200±0.015 NA	0.275±0.015 NA		
光缆截止波长 Cable Cut-off Wavelength λcc				≤ 1260 nm	≤ 1450 nm
温度附加衰减 Δα（-20℃~+60℃） Attenuation at temperature cycling Δα(-20℃~+60℃)	@ 1300 nm	≤ 0.25 dB/km	≤ 0.25 dB/km		
	@ 1550 nm			≤ 0.10 dB/km	≤ 0.15 dB/km

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

多用途布线光缆（MPC≤12f）Mulit Purpose Distribution Cable

【产品描述 Description】

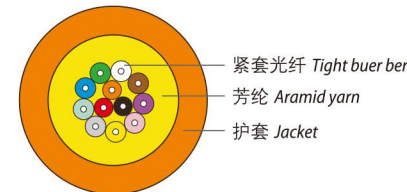
MPC多用途布线光缆使用多根φ900 μm阻燃紧套光纤作为光传输介质，外覆一层芳纶作为受力单元加强单元，最外挤制一层扁平聚氯乙烯（PVC）或低烟无卤材料（LSZH，低烟、无卤、阻燃）护套而成。
MPC multi-purpose distribution cable use several 900m ame-retardant tight buer ber as optical communication medium, the tight buer ber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

【产品特点 Characteristics】

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

【产品应用 Applications】

- 多芯光纤活动连接跳线
Multi optical fiber jumper.
- 室内综合布线
Indoor any purpose cable distribution.



【光缆结构图 Cable structure】

【产品标准 Standards】

满足YD/T 1258.2-2005、ICEA-596、GR-409、IEC 60794-2-20/21等标准；符合UL认证OFNP要求。
Comply with Standard YD/T 1258.2-2005、ICEA-596、GR-409、IEC 60794-2-20/21, etc; and meet the requirements of UL approval for OFNP.

【结构参数 Technical Parameters】

光缆型号 Cable Code	芯数 Fiber Count	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)	护套材料 Jacket Material
MPC	2	4.1±0.25	12.4	200/660	300/1000	20D/10D	PVC
MPC	4	4.8±0.25	16.2	200/660	300/1000	20D/10D	PVC
MPC	6	5.1±0.25	20	200/660	300/1000	20D/10D	PVC
MPC	8	5.6±0.25	26	200/660	300/1000	20D/10D	PVC
MPC	10	5.8±0.25	28	200/660	300/1000	20D/10D	PVC
MPC	12	6.2±0.25	31.5	200/660	300/1000	20D/10D	PVC
MPC	2	3.2±0.25	10	200/660	300/1000	20D/10D	LSZH
MPC	4	4.8±0.25	18	200/660	300/1000	20D/10D	LSZH
MPC	6	5.1±0.25	22.5	200/660	300/1000	20D/10D	LSZH
MPC	8	5.6±0.25	28	200/660	300/1000	20D/10D	LSZH
MPC	10	5.8±0.25	32.5	200/660	300/1000	20D/10D	LSZH
MPC	12	6.2±0.25	38	200/660	300/1000	20D/10D	LSZH

【光学特性 Optical Characteristics】

		50/125 μm	62.5/125 μm	G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm	≤ 3.5 dB/km	≤ 3.5 dB/km		
	@ 1300 nm	≤ 1.5 dB/km	≤ 1.5 dB/km		
	@ 1310 nm			≤ 0.50 dB/km	≤ 0.50 dB/km
	@ 1550 nm			≤ 0.40 dB/km	≤ 0.40 dB/km
带宽（A级）Bandwidth(Class A)	@ 850 nm	≥ 500 MHz·km	≥ 200 MHz·km		
	@ 1300 nm	≥ 1000 MHz·km	≥ 600 MHz·km		
数值孔径 Numerical Aperture		0.200±0.015 NA	0.275±0.015 NA		
光缆截止波长 Cable Cut-off Wavelength λcc				≤ 1260 nm	≤ 1450 nm
温度附加衰减 Δα（-20℃~+60℃） Attenuation at temperature cycling Δα(-20℃~+60℃)	@ 1300 nm	≤ 0.25 dB/km	≤ 0.25 dB/km		
	@ 1550 nm			≤ 0.10 dB/km	≤ 0.15 dB/km

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

多用途布线光缆（ MPC > 12f ） Mulit Purpose Distribution Cable

【 产品描述 Description 】

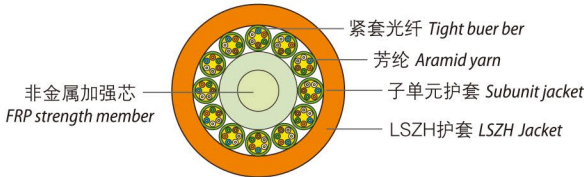
MPC多用途布线光缆使用6芯子单元（ φ900 μm紧套光纤，芳纶加强元件），非金属中心加强芯，光缆子单元层绞于中心加强芯形成缆芯，最外挤制一层低烟无卤材料（LSZH，低烟、无卤、阻燃）护套而成。
MPC multi-purpose distribution cable use 6-ber subunits (900inforced plastic(FRP) locates in the center of core as a non-metallic strength member. The subunits are stranded around the cable core.The cable is completed with a LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

【 产品特点 Characteristics 】

- 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
Stranded non-metallic strength member structure ensure the cable endure large tensile strength.
- 光纤密度高，容量大，结构紧凑，
Compact structure with high ber capacity and density.
- 外护材料耐腐蚀，防水，防紫外线，阻燃，环保等优点
The jacket anti-corrosion, anti-water, anti-ultraviolet radiation, ame-retardant and harmless to environment etc.
- 全介质结构，不受电磁干扰
All dielectric structure protect it from electromagnetic inuence.
- 加工工艺严谨，设计科学合理
Scientific design with serious processing art.

【 产品应用 Applications 】

- 室内综合布线
Indoor any purpose cable distribution.
- 作为大楼的主干布线
Backbone distribution cable in a building.



【 光缆结构图 Cable structure 】

【 产品标准 Standards 】

满足YD/T 1258.2–2005、ICEA–596、GR–409、IEC 60794–2–20/21、IEC 332–1和IEC 332–3C等标准
Comply with Standard YD/T 1258.2-2005、ICEA-596、GR-409、IEC 60794-2-20/21、IEC 332-1 and IEC 332-3C.

【 结构参数 Technical Parameters 】

光缆型号 Cable Code	芯数 Fiber Count	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 动态/静态 Dynamic/Static (mm)
MPC	24	10.4±0.5	96	400/1320	300/1000	20D/10D
MPC	30	12.4±0.5	149	400/1320	300/1000	20D/10D
MPC	36	13.5±0.5	185	400/1320	300/1000	20D/10D
MPC	48	15.7±0.5	265	400/1320	300/1000	20D/10D
MPC	60	18.0±0.5	350	400/1320	300/1000	20D/10D
MPC	72	20.5±0.5	440	400/1320	300/1000	20D/10D
MPC	96	20.5±0.5	448	400/1320	300/1000	20D/10D
MPC	108	20.5±0.5	448	400/1320	300/1000	20D/10D

【 光学特性 Optical Characteristics 】

		50/125 μm	62.5/125 μm	G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm	≤ 3.5 dB/km	≤ 3.5 dB/km		
	@ 1300 nm	≤ 1.5 dB/km	≤ 1.5 dB/km		
	@ 1310 nm			≤ 0.50 dB/km	≤ 0.50 dB/km
	@ 1550 nm			≤ 0.40 dB/km	≤ 0.40 dB/km
带宽（A级）Bandwidth(Class A)	@ 850 nm	≥ 500 MHz·km	≥ 200 MHz·km		
	@ 1300 nm	≥ 1000 MHz·km	≥ 600 MHz·km		
数值孔径 Numerical Aperture		0.200±0.015 NA	0.275±0.015 NA		
光缆截止波长 Cable Cut-off Wavelength λcc				≤ 1260 nm	≤ 1450 nm
温度附加衰减 Δα（-20℃~+60℃） Attenuation at temperature cyclingΔα(-20℃~+60℃)	@ 1300 nm	≤ 0.25 dB/km	≤ 0.25 dB/km		
	@ 1550 nm			≤ 0.10 dB/km	≤ 0.15 dB/km

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

防水尾缆（ GJA ） Waterproof Cable

【 产品描述 Description 】

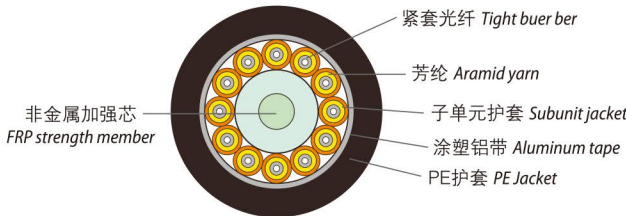
GJA防水尾缆使用单芯光缆（ φ900 μm紧套光纤、芳纶加强元件）作为子单元，非金属中心加强芯，光缆子单元层绞于中心加强芯形成缆芯，外包铝带防潮层，最外挤制一层聚乙烯（PE）护套而成。
GJA waterproof pigtail cable use simplex cable (900m tight buer ber, around yarn as strength member) as subunit. A ber reinforced plastic (FRP) locates in the center of core as a non-metallic strength member. The subunits are stranded around the cable core. An aluminum polyethylene laminate is applied around the cable core. The cable is completed with a PE jacket.

【 产品特点 Characteristics 】

- 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
Stranded non-metallic strength member structure ensure the cable endure large tensile strength.
- 外护材料耐腐蚀，防水，防紫外线等优点
The jacket anti-corrosion, anti-water and anti-ultraviolet radiation etc.
- 铝带具有良好的防潮性能
APL moisture barrier.
- 加工工艺严谨，设计科学合理
Scientific design with serious processing art.

【 产品应用 Applications 】

- 室内综合布线
Indoor any purpose cable distribution.
- 室外到室内光缆配线设备的连接
Interconnect from outdoor to indoor for optical cable distribution equipment.



【 光缆结构图 Cable structure 】

【 产品标准 Standards 】

满足YD/T 1258.4–2005、ICEA–596、GR–409、IEC 60794等标准。
Comply with Standard YD/T 1258.4-2005、ICEA-596、GR-409、IEC 60794, etc.

【 结构参数 Technical Parameters 】

光缆型号 Cable Code	芯数 Fiber Count	光纤直径 TFB Diameter (μm)	光纤重量 TBF Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 动态/静态 Dynamic/Static (mm)
GJA	2	8.9±0.5	58.1	200/660	300/1000	20D/10D
GJA	4	8.9±0.5	58.3	200/660	300/1000	20D/10D
GJA	6	9.8±0.5	73	200/660	300/1000	20D/10D
GJA	8	10.6±0.5	95.7	200/660	300/1000	20D/10D
GJA	12	13.4±0.5	155.2	200/660	300/1000	20D/10D

【 光学特性 Optical Characteristics 】

		50/125 μm	62.5/125 μm	G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm	≤ 3.5 dB/km	≤ 3.5 dB/km		
	@ 1300 nm	≤ 1.5 dB/km	≤ 1.5 dB/km		
	@ 1310 nm			≤ 0.50 dB/km	≤ 0.50 dB/km
	@ 1550 nm			≤ 0.40 dB/km	≤ 0.40 dB/km
带宽（A级）Bandwidth(Class A)	@ 850 nm	≥ 500 MHz·km	≥ 200 MHz·km		
	@ 1300 nm	≥ 1000 MHz·km	≥ 600 MHz·km		
数值孔径 Numerical Aperture		0.200±0.015 NA	0.275±0.015 NA		
光缆截止波长 Cable Cut-off Wavelength λcc				≤ 1260 nm	≤ 1450 nm
温度附加衰减 Δα（-20℃~+60℃） Attenuation at temperature cyclingΔα(-20℃~+60℃)	@ 1300 nm	≤ 0.25 dB/km	≤ 0.25 dB/km		
	@ 1550 nm			≤ 0.10 dB/km	≤ 0.15 dB/km

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

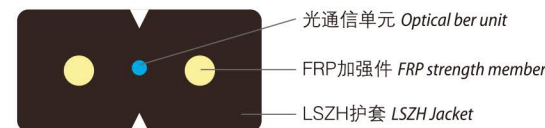
接入网用蝶形引入室内光缆（ GJXFH ） Bow-type drop cable GJXFH

【产品描述 Description】

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。
The optical ber unit is positioned in the centre. Two parallel Fiber Reinforced(FRP) are placed at the two sides. Then, the cable is completed with a black or color LSZH sheath.

【产品特点 Characteristics】

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



【光缆结构图 Cable structure】

【光学特性 Optical Characteristics】

		G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm		
	@ 1300 nm		
	@ 1310 nm	≤ 0.45 dB/km	≤ 0.45 dB/km
	@ 1550 nm	≤ 0.30 dB/km	≤ 0.30 dB/km
带宽（A级）Bandwidth(Class A)	@ 850 nm		
	@ 1300 nm		
数值孔径 Numerical Aperture			
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1260 nm

【结构参数 Technical Parameters】

光缆型号 Cable Code	芯数 Fiber Count	光缆尺寸 Cable Size (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GJXFH	1	(2.0±0.1)x(3.0±0.1)	8	40/80	500/1000	15/30
GJXFH	2	(2.0±0.1)x(3.0±0.1)	8.5	40/80	500/1000	15/30

储存/使用温度：-20℃~+60℃
Storage/Operating Temperature: -20℃~+60℃

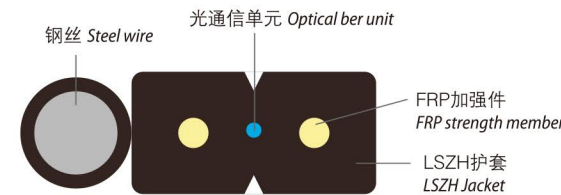
自承式接入网用蝶形引入室内光缆（ GJYXFCH ） Self-supporting Bow-type drop cable GJYXFCH

【产品描述 Description】

自承式接入网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), 在外侧再附加一根钢丝加强元件，最后，挤制黑色或彩色低烟无卤护套成缆。
The optical ber unit is positioned in the centre. Two parallel Fiber Reinforced(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.

【产品特点 Characteristics】

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



【光缆结构图 Cable structure】

【光学特性 Optical Characteristics】

		G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm		
	@ 1300 nm		
	@ 1310 nm	≤ 0.45 dB/km	≤ 0.45 dB/km
	@ 1550 nm	≤ 0.30 dB/km	≤ 0.30 dB/km
带宽（A级）Bandwidth(Class A)	@ 850 nm		
	@ 1300 nm		
数值孔径 Numerical Aperture			
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1260 nm

【结构参数 Technical Parameters】

光缆型号 Cable Code	芯数 Fiber Count	光缆尺寸 Cable Size (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GJYXFCH	1	(2.0±0.1)x(5.2±0.1)	20	300/600	2200	15/30
GJYXFCH	2	(2.0±0.1)x(5.2±0.1)	20	300/600	2200	15/30

储存/使用温度：-20℃~+60℃
Storage/Operating Temperature: -20℃~+60℃

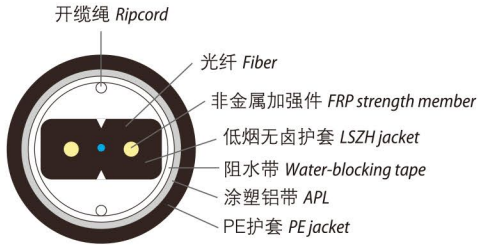
管道用蝶形引入光缆（ GJXFHA ）
Bow-type drop cable for duct

【产品描述 Description】

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。
The optical ber unit is positioned in the centre, Two parallel Fiber Reinforced(FRP) are placed at the two sides. Then, the cable is completed with a black or LSZH sheath.

【产品特点 Characteristics】

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



【 光缆结构图 Cable structure 】

【光学特性 Optical Characteristics】

		G.652	G.655
衰减 Attenuation(+20℃)	@ 850 nm		
	@ 1300 nm		
	@ 1310 nm	≤ 0.45 dB/km	≤ 0.45 dB/km
	@ 1550 nm	≤ 0.30 dB/km	≤ 0.30 dB/km
带宽（ A级 ） Bandwidth(Class A)	@ 850 nm		
	@ 1300 nm		
数值孔径 Numerical Aperture			
光缆截止波长 Cable Cut-off Wavelength λcc		≤ 1260 nm	≤ 1260 nm

储存/使用温度：-20℃~+60℃
Storage/Operating Temperature: -20℃~+60℃

【结构参数 Technical Parameters】

光缆型号 Cable Code	芯数 Fiber Count	光缆尺寸 Cable Size (mm)	光缆重量 Cable Weight (kg/km)	允许拉伸力 Tensile Strength 长期/短期 Long/Short term (N)	允许扁压力 Crush Resistance 长期/短期 Long/Short term (N/100mm)	弯曲半径 Bending Radius 静态/动态 Static/Dynamic (mm)
GJXFHA	1	7.3±0.2	42	40/80	2000	15/30
GJXFHA	2	7.3±0.2	42	40/80	2000	15/30

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