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Shenzhen Optostar Optoelectronics Co., Ltd

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『Company Introduction』

Shenzhen Optostar Optoelectronics Co., Ltd was founded in May 2006, headquartered in Nanshan District, Shenzhen, China. As a leading manufacturer and supplier for fiber optical components and System Products in China, we can offer our customers with active components, passive components and system products for fiber optical communication fields such as metro network, access network, fiber channel and FTTX etc. Our company has perfect techniques and production plane, abundant technology development capability and rich OEM & ODM co-operation experience with famous overseas companies. We promise to provide our customers with our high quality products and our best services. To achieve your 100% satisfaction is our persistent goal! Looking forward to establishing a long-term and steady co-operation relationship with you!



产品描述 (Description)

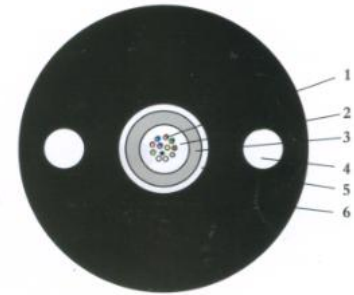
光缆的结构是将Φ250um 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。松套管外加阻水材料以保证光缆纵向阻水，两侧放置两根平行FRP挤制聚乙烯护套成缆。

The fibers, Φ250um, 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 FRP are placed at the two sides. 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
- 两根平行 FRP 保证光缆的抗拉强度
- Two parallel FRP ensure tensile strength
- PE 护套具有很好的抗紫外辐射性能
- PE strength protects cable from ultraviolet radiation
- 直径小、重量轻、容易敷设
- Small diameter, light weight and friendly installation



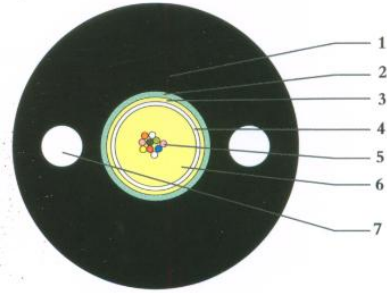
- | | |
|-------------|-------------------------|
| 1. 光纤 | Fiber |
| 2. 套管填充物 | Tube filling compound |
| 3. 松套管 | Loose tube |
| 4. 玻璃纤维增强塑料 | FRP |
| 5. 阻水材料 | Water-blocking Material |
| 6. 聚乙烯护套 | PE sheath |

技术参数 (Technical Parameters) :

光缆数 Fiber Count	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	弯曲半径 Bending Radius (mm)		允许拉伸力 Tension Strength (n)		允许压扁力 Crush Resistance (n/100mm)	
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
2-12	7.0	68	20D	10D	1500	600	1000	300
12-24	7.5	68						



GYXTW 2-24 芯(core)
中心管式铠装光缆
Unitube Armored Cable



- | | |
|-------------|-------------------------------|
| 1. 聚乙烯外护套 | PE outer sheath |
| 2. 双面覆塑皱纹钢带 | Corrugated steel tape |
| 3. 阴水带 | Water-proof tape |
| 4. 松套管 | Loose-tube |
| 5. 光纤 | Fiber |
| 6. 纤细管 | Jelly |
| 7. 金属加强件 | Metallic strengthening member |

适用敷设方式 (Recommended laying methods)

- 架空
- Aerial

结构特征 (Structure configurations)

- 钢带与缆芯之间设有阻水层
- Waterproofing layer between the steel tape and cable core
- 双面覆塑皱纹钢带—聚乙烯粘结外护套
- Double-sided PE corrugated steel with PE sheath
- 双钢丝平行加强
- Parallel double steel wire as strengthening member

性能特点 (Properties)

- 优良的阻水层，具有良好的抗渗水能力
- Waterproofing layer providing strong water-resistance Performance
- 钢带粘接外护套及金属加强，提高光缆抗压力、张力性能
- Steel tape with PE outer sheathing and metallic strengthening member enhancing anti-crush and tensile property of cable

适用范围 (Applicable fields)

- 长途通信、局间通信
- Long-distance communication and LAN

技术参数 (Technical parameters)

光缆芯数 Fiber Range	光缆外径 Cable Outer Diameter (mm)	光缆重量 Cable Weight (kg/km)	最小弯曲半径 MIN. Bending Radius (mm)		允许张力 Tension (n)		允许侧压力 Max. Crush Loading Force (n/100mm)	
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
2-12	10.3	120	10 倍光缆直径 10times cable diameter	20 倍光缆直径 20times cable diameter	1500	600	1000	300

产品描述 (Description)

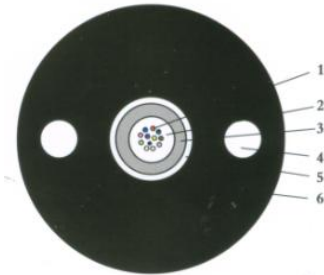
DCXY 光缆的结构是将 $\Phi 250\mu\text{m}$ 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物。松套管外加阻水材料以保证光缆纵向阻水，两侧放置两根平行钢丝挤制聚乙烯护套成缆。

The fibers, $\Phi 250\mu\text{m}$, 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.



产品特点 (Characteristics)

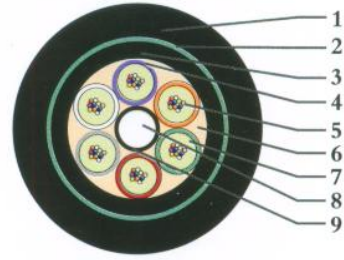
- 具有良好的机械性能和温度特性
- Good mechanical and temperature performance
- 松套管材料本身具有良好的耐水解性能和较高的强度
- High strength loose tube that is hydrolysis resistant
- 管内充以特种油膏，对光纤进行了关键性保护
- Special tube filling compound ensure a critical protection of fiber
- 两根平行钢丝保证光缆的抗拉强度
- Two parallel steel wires ensure tensile strength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



- | | |
|----------|-------------------------|
| 1. 光纤 | Fiber |
| 2. 套管填充物 | Tube filling compound |
| 3. 松套管 | Loose tube |
| 4. 钢丝 | Steel wire |
| 5. 阻水材料 | Water-blocking Material |
| 6. 聚乙烯护套 | PE sheath |

技术参数 (Technical Parameters)

光缆数 Fiber Count	光缆直径 Cable Diameter (mm)	光缆重量 Cable Weight (kg/km)	弯曲半径 Bending Radius (mm)		允许拉伸力 Tension Strength (n)		允许压扁力 Crush Resistance (n/100mm)	
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
2-12	7.0	68	20D	10D	1500	600	1000	300
12-24	7.5	68						



适用敷设方式 (Recommended laying methods)

- 直埋
- Direct-burial

结构特征(Structure configurations)

- 金属中心加强件 (磷化钢丝)
- Metallic strengthening member (phosphated steel wire)
- 聚乙烯内护套 PE inner sheath
- 双面覆塑皱纹钢带—聚乙烯粘结结外护套
- Double-sided PE corrugated steel tape with PE outer sheath

- 1. 聚乙烯外护套 PE outer sheath
- 2. 双面覆塑皱纹钢带 Corrugated steel tape
- 3. 聚乙烯内护套 PE inner sheath
- 4. 松套管 Loose-tube
- 5. 光纤 Fiber
- 6. 缆油膏 Gel
- 7. 纤油膏 Jelly
- 8. 金属加强件 Metallic strengthening member
- 9. PE 垫层 (视实际需求) PE sheath(if necessary)

性能特点 (Properties)

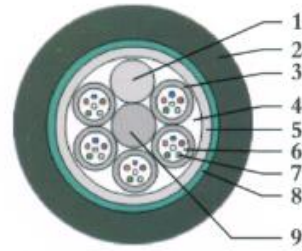
- 双层护套铠装结构, 抗压力性能优良
- 可以有效防止齿类动物的损害
- Double sheathing providing excellent anti-crush and rodent-proof properties

适用范围 (Applicable fields)

- 长途通信、局间通信
- Long-distance communication and LAN
- 尤其适用于对机械强度、防鼠等要求较高的场合
- High durable product and rodent-proof

技术参数 (Technical parameters)

光缆芯数 Fiber Range	光缆外径 Cable Outer Diameter (mm)	光缆重量 Cable Weight (kg/km)	最小弯曲半径 MIN. Bending Radius (mm)		允许张力 Tension (n)		允许侧压力 Max. Crush Loading Force (n/100mm)	
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
2-24	13.4	200	12.5 倍光 缆直径 12.5times cable diameter	22 倍光缆 直径 22times cable diameter	4000	2000	4000	2000
26-36	14.0	220						
38-60	15.0	240						
62-72	15.8	260						
74-96	17.5	320						
98-120	19.3	375						
122-144	21.4	440						



- | | |
|------------|-------------------------|
| 1. 填充绳 | Possible fillers |
| 2. 外被套 | Outer sheath |
| 3. 松套管 | Loose tube |
| 4. 缆膏 | Filling compound |
| 5. 阻水层 | Waterproof Tape |
| 6. 纤膏 | Jelly compound |
| 7. 光纤 | Optical fiber |
| 8. 皱纹钢带 | Corrugated Steel Tape |
| 9. 中心金属加强芯 | Steel-wire/FRP strength |

适用敷设方式 (Recommended laying methods)

- 架空、管道
- Aerial, Duct

结构特征 (Structure configurations)

- 金属中心加强件 (磷化钢丝)
- Metallic strengthening member (phosphated steel wire)
- 双面覆塑皱纹钢带—聚乙烯粘结外护套
- Double-sided PE corrugated steel tape with PE outer sheath

性能特点 (Properties)

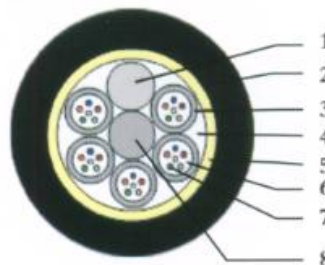
- 钢带铠装, 抗压力性能优良
- Armored steel tape providing maximum anti-crush property
- 具有一定防弹能力
- Air gun bullet resistant

适用范围 (Applicable fields)

- 长途通信、局间通信
- Long-distance communication and LAN

技术参数 (Technical parameters)

光缆芯数 Fiber Range	光缆外径 Cable Outer Diameter (mm)	光缆重量 Cable Weight (kg/km)	最小弯曲半径 MIN. Bending Radius (mm)		允许张力 Tension (n)		允许侧压力 Max. Crush Loading Force (n/100mm)	
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
2-24	10.5	150	10 倍光缆 直径 10times cable diameter	20 倍光 缆直径 20times cable diameter	2000	1000	2000	1000
26-36	10.5	185						
38-60	10.5	200						
62-72	13.8	230						
74-96	15.5	280						
98-120	17.4	310						
122-144	19.2	365						



适用敷设方式 (Recommended laying methods)

- 强电区、架空
- High-voltage area, Aerial

- | | |
|------------|-------------------------|
| 1. 填充绳 | Possible fillers |
| 2. 外被套 | Outer sheath |
| 3. 松套管 | Loose tube |
| 4. 缆膏 | Filling compound |
| 5. 阻水层 | Waterproof Tape |
| 6. 纤膏 | Jelly compound |
| 7. 光纤 | Optical fiber |
| 8. 中心金属加强芯 | Steel-wire/FRP strength |

结构特征 (Structure configurations)

- 非金属中心加强件
- Non-Metallic strengthening member
- 玻璃纤维或芳纶纤维周边加强
- Reinforced with fiber glass or aramid yarn
- 聚乙烯外护套
- PE outer sheath

适用范围 (Applicable fields)

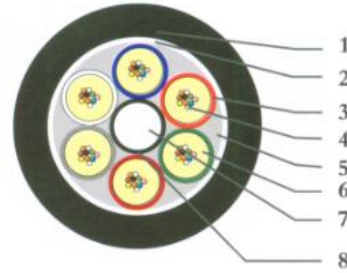
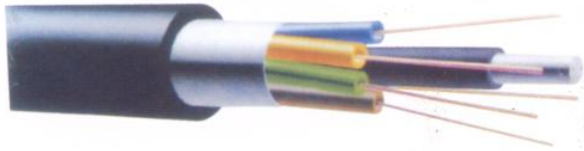
- 长途通信、局间通信
- Long-distance communication and LAN
- 尤其适用于电力系统，多雷电及电磁干扰严重的场合
- Especially for power transmission system, excessive thunder areas and high electromagnetic interference

性能特点 (Properties)

- 无金属结构，高电磁、雷电性能优良，防静电
- Non-metallic structure providing excellent anti-electromagnetism, anti-thunder and anti-static performances

技术参数 (Technical parameters)

光缆芯数 Fiber Range	光缆外径 Cable Outer Diameter (mm)	光缆重量 Cable Weight (kg/km)	最小弯曲半径 MIN. Bending Radius (mm)		允许张力 Tension (n)		允许侧压力 Max. Crush Loading Force (n/100mm)	
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
			10 倍光缆直径 10times cable diameter	20 倍光缆直径 20times cable diameter	2000	1000	1000	300
2-24	10.0	150						
26-36	10.0	185						
38-60	10.0	200						
62-72	13.8	230						
74-96	15.5	280						
98-120	17.4	310						
122-144	19.2	365						



适用敷设方式 (Recommended laying methods)

- 架空, 管道
- Aerial, Duct

- | | |
|------------------|-------------------------------|
| 1. 聚乙烯外护套 | PE outer sheath |
| 2. 双面覆塑铝带 | Corrugated aluminum tape |
| 3. 松套管 | Loose-tube |
| 4. 光纤 | Fiber |
| 5. 缆油膏 | Gel |
| 6. 纤油膏 | Jelly |
| 7. 金属加强件 | Metallic strengthening member |
| 8. PE 垫层 (视实际需求) | PE sheath (if necessary) |

结构特征 (Structure configurations)

- 金属中心加强件 (磷化钢丝)
- Metallic strengthening member(phosphate steel wire)
- 双面覆塑铝—聚乙烯粘结外护套
- Double-sided PE aluminum tape-PE outer sheath

适用范围 (Applicable fields)

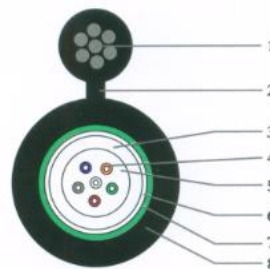
- 长途通信, 局间通信
- Long-distance telecom, LAN in high-voltage area or access to telecom network

性能特点 (Properties)

- 双面覆塑料铝带平纵包粘结护套, 防潮性能优良
- Laminated both sides with plastic aluminum flat longitudinal sheath, excellent moisture-resistance

技术参数 (Technical parameters)

光缆芯数 Fiber Range	光缆外径 Cable Outer Diameter (mm)	光缆重量 Cable Weight (kg/km)	最小弯曲半径 Min. Bending Radius (MM)		允许张力 Tension (N)		允许侧压力 Max. Crush Loading Force (N/100mm)	
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
			10 倍 光缆 直径 10times Cable diameter	20 倍 光缆 直径 20times Cable diameter	2000	1000	1500	600
2-24	11.2	135						
26-36	11.8	145						
38-60	12.7	175						
62-72	13.5	205						
74-96	15.2	250						
98-120	17.0	275						
122-144	18.8	325						



- | | |
|---------|-----------------------|
| 1.钢绞线 | Messenger wire |
| 2.吊颈 | Wed |
| 3.松套管 | Loose tube |
| 4.光纤 | Optical fiber |
| 5.纤膏 | Filling gel |
| 6.缆膏 | Filling compound |
| 7.双面覆钢带 | Corrugated steel tape |
| 8.PE 护套 | Cable sheath |

适用敷设方式 (Recommended laying methods)

- 自承架空
- Self-support aerial

结构特征 (Structure configurations)

- 光缆集中在缆的中心
- Fiber centralized
- 钢带与缆芯之间设有阻水层
- Water-proof layer between steed tape and fiber
- 缆截面呈“8”字形
- “8”Figure cut section
- 钢绞线吊线
- Steel messenger wire
- 双面覆塑皱纹钢带—聚乙烯粘接外护套
- Double-sided PE corrugated steel tape PE-Sheath

性能特点 (Properties)

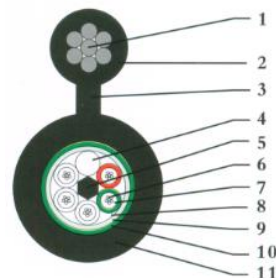
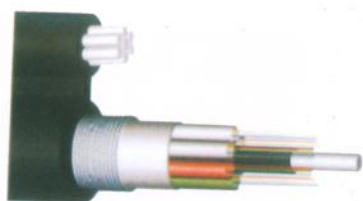
- 优良的阻水层，具有良好的抗渗水能力
- Waterproofing layer providing strong water-resistance Performance
- 钢带粘接外护套及金属加强，提高光缆抗压力，张力性能
- Steel tape with PE outer sheathing and metallic strengthening member enhancing anti-crush and tensile property of cable

适用范围 (Applicable fields)

- 长途通信, 局间通信
- Long-distance communication and LAN

技术参数 (Technical parameters)

光缆芯数 Fiber range	钢绞线规格 Steel messenger specs	光缆外径 Cable outer diameter	吊线外径 Messenger wire outer diameter	光缆高度 Cable height	光缆重量 Cable weight	最小弯曲半径 Min. bending radius(MM)		最大运动张力 Allowable tension	安全运行张力 Safe tension	最小破断张力 Min. Broken tension	允许侧压力 Max. Crush loading force (N/100mm)	
						静态 Static	动态 Dynamic				短期 Short term	长期 Long term
2-24	1x7-3.0	8.3	5.0	15.5	195	10D	20D	4950	2500	7990	2000	1000



适用敷设方式 (Recommended laying methods)

- 自承架空
- Self-support aerial

结构特征 (Structure configurations)

- 缆截面成“8”字形
- “8”Figure cut section
- 钢绞线吊线
- Steel messenger wire
- 双面覆塑皱纹钢带-聚乙烯粘接外护套
- Double-sided PE corrugated steel tape
- PE-Sheath

1. 加强钢绞 Strength interwist line or steel-wire
2. MDPE 护套 MDPE sheath
3. 吊颈 banging neck
4. 填充绳 filling-rope
5. 中心加强件 central strength member
6. 光纤 UV fiber
7. PBT 束管 loose tube
8. 缆膏 filling compound for cable
9. 阴水管 water-proof tape
10. 扎绞钢带 PSP
11. MDPE 护套 MDPE sheath

性能特点 (Properties)

- 钢带铠装, 抗压力性能优良
- Armored steel tape providing maximum anti-crush property
- 具有一定防弹能力
- Air gun bullet resistant

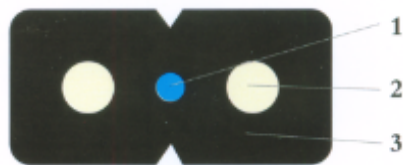
- 钢绞线作自承力件, 抗拉强度高, 施工方便
- Steel messenger wire made excellent anti-pull performance and easy installation

适用范围 (Applicable fields)

- 长途通信, 局间通信
- Long-distance communication and LAN

技术参数 (Technical parameters)

光缆芯数 Fiber range	钢绞线规格 Steel messenger specs	光缆外径 Cable outer diameter	吊线外径 Messenger wire outer diameter	光缆高度 Cable height	光缆重量 Cable weight	最小弯曲半径 Min. bending radius(MM)		最大运行张力 Allowable tension	安全运行张力 Safe tension	最小破断张力 Min. Broken tension	运行侧压力 Max.
						静态 Static	动态 Dynamic				短期 Short term
											force
2-24	1X7-3.0	10.3	5.2	17.5	190	20 倍光缆外径		4950		7990	
26-36		11.2		18.8	200			4950		7990	
38-60		12.1		19.8	235			4950		7990	
38-48		12.1		19.8	245			4950		7990	
2-24	1X7-3.6	10.3	5.8	18.1	210	10 倍光缆外径	20 倍光缆外径	7100		10710	
26-36		11.2		19.4	220			7100		10710	
38-60		12.1		20.4	260			7100		10710	
38-48		12.1		20.4	265			7100		10710	
62-72		12.9		21.0	270			7100		10710	
74-96		14.4		22.2	330			7100		10710	
2-24	1X7-4.2	10.3	6.4	18.7	230	10 倍光缆外径	20 倍光缆外径	9700		14580	
26-36		11.2		20	265			9700		14580	
38-60		12.1		21	280			9700		14580	



- 1.光通信单元 Optical fiber unit
- 2.FRP 加强件 FRP strength member
- 3.LSZH 护套 LSZH jacket

产品描述(Description)

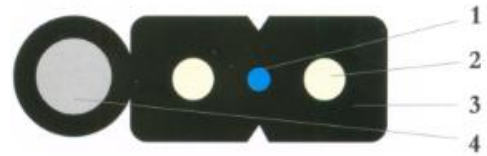
- FTTH 室内光缆是将光通信单元处于中心，两侧放置两根平行非金属加强元件（FRP），最后，挤制黑色或彩色低烟无卤护套成缆。
- The optical fiber unit is positioned in the centre. Two parallel Fiber Reinforced Plastics(FRP) are placed at the two sides. The cable is completed with a black or color LSZH sheath.

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，使用性强
- 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

技术参数 (Technical Parameters)

光缆型号 Cable Type	芯数 Fiber Count	光缆尺寸 Cable Size (MM)	光缆重量 Cable weight (kg/km)	弯曲半径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
				静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
OPFTTH-IQ-BK-01XX	1	(2.0±0.2)X(3.0±0.2)	8.0	30	15	200	100	1000	300
OPFTTH-IQ-FK-02XX	2	(2.0±0.2)X(3.0±0.2)	8.0						
OPFTTH-IJ-FK-01XX	1	(2.0±0.2)X(3.8±0.2)	9.5						
OPFTTH-IJ-FK-02XX	2	(2.0±0.2)X(4.0±0.2)	10						



- 1.光通信单元 Optical fiber unit
- 2.FRP 加强件 FRP strength member
- 3.LSZH 护套 LSZH jacket
- 4.钢丝 Steel Wire

产品描述(Description)

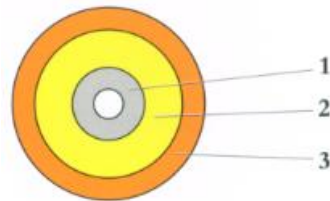
- FTTH 室内光缆是将光通单元处于中心，两侧放置两根平行金属加强原件（FRP），在外侧再附加一根钢丝加强无件，最后，挤制黑色或彩色低烟无卤护套光缆。
- The Optical fiber unit is positioned in the centre. Two parallel Fiber Reinforced Plastics(FRP) are placed at the two sides. A steel wire as the additional strength member is also applied. The cable is completed with a black 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;
- 单根钢丝附加加强原件，使光缆具有良好的高拉性能
- Single steel wire as the additional strength member ensures 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

技术参数 (Technical Parameters)

光缆型号 Cable Type	芯数 Fiber Count	光缆尺寸 Cable Size(MM)	光缆重量 Cable Weight (kg/km)	弯曲半径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
				静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
OPFTTH-IIQ-FK-1Xn	1	(2.0 ±0.2) ×(5.0 ±0.2)	20	30	15	660	300	1000	300
OPFTTH-IIQ-FK-2Xn	2	(2.0 ±0.2) ×(5.0 ±0.2)	20						
OPFTTH-IIJ-FK-1Xn	1	(2.0 ±0.2) ×(5.6 ±0.2)	21						
OPFTTH-IID-FK-4Xn	2	(2.0 ±0.2) ×(5.6 ±0.2)	22						



- 1. 紧套光纤 Tight buffer fiber
- 2. 芳纶 Aramid yarn
- 3. 护套 Jacket

产品描述(Description)

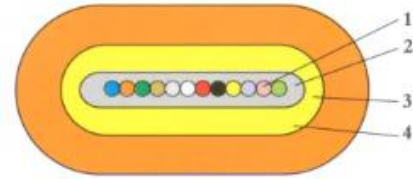
- 单芯光缆使用单根 $\Phi 600 \mu\text{m}$ 阴燃紧套光纤作为光传输介质，外覆一层芳纶作为受力坚强单元，最外挤制一层聚氯乙烯 (PVC) 或低烟无卤材料 (LSZH, 低烟, 无卤, 阻燃) 护套而成。
- Simplex cable use single $\Phi 900 \mu\text{m}$ or $600 \mu\text{m}$ flame-retardant tight buffer fiber as optical communication medium, the tight buffer fiber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with PVC or LSZH (Low smoke, Zero halogen, Flame-retardant) jacket.

产品特点(Characteristics)

- 采用紧套挂光纤，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，使光缆有优异的搞拉性能
- 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, 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

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆直径 Cable Diameter (MM)	光缆重量 Cable Weight(kg/km)		弯曲半径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
		PVC 护套 PVC Jacket	LSZH 护套 LSZH Jacket	静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
OP165XXXR-CL	1.6 ±0.2	2.4	2.6	50	30	120	60	500	100
OP205XXXR-CL	2.0 ±0.2	3.5	4.5						
OP285XXXR-CL	2.8 ±0.2	6.0	7.5						



- 1. 光纤 Fiber
- 2. 光纤带 Fiber ribbon
- 3. 芳纶 Aramid yarn
- 4. 护套 Jacket

产品描述(Description)

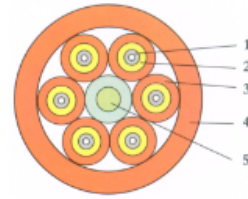
- 带状扁平光缆使用光纤作为光传输介质，外覆一层芳纶作为受力加强单元，最外挤制一层扁平聚氯乙烯 (PVC) 或低烟无卤材料 (LSZH, 低烟, 无卤。阻燃) 护套而成。
- Flat fiber ribbon cable use fiber ribbon as optical communication medium, the fiber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with PVC or LSZH(Low smoke, Zero halogen,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

产品特点(Characteristics)

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

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆尺寸 Cable Size (MM)	光缆重量 Cable Weight (kg/km)	弯曲半径		允许拉伸力		允许压扁力		护套材料 Jacket Material
			Bending Radius (MM)		Tension Strength (N)		Crush Resistance (N/100mm)		
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long Term	
OP02RBXXR-CL	(3.7±0.4)x(2.5±0.2)	13	20D	10D	1000	300	1000	200	PVC
OP04RBXXR-CL	(4.2±0.4)x(2.5±0.2)	13							PVC
OP06RBXXR-CL	(4.7±0.4)x(2.5±0.2)	15							PVC
OP08RBXXR-CL	(4.8±0.4)x(2.5±0.2)	15							PVC
OP12RBXXR-CL	(3.7±0.4)x(2.5±0.2)	17							LSZH



- 1. 紧套光纤 Tight buffer fiber
- 2. 芳纶 Aramid
- 3. 子单无护套 Subunit jacket
- 4. 护套 Jacket
- 5. 非金属加强芯 FRP strength member

产品描述(Description)

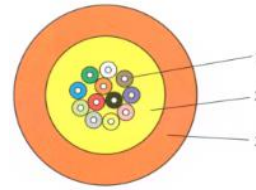
- 多用途光缆使用单芯光缆（Φ900 μm 紧套光纤，芳纶加强元件）作为子单元，非金属中心加强芯，光缆子单元层绞于中心加强芯形成缆芯，最外挤制一层聚乙烯（PVC）或低烟无卤材料（低烟，无卤，阻燃）护套而成。
- Multi-purpose break-out cable use simplex cable(Φ900μm tight buffer fiber, aramid yarn as strength member) as subunit. A fiber reinforced plastic(FRP) locates in the center of core as a non-metallic 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.

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 larger tensile strength
- 外护材料耐腐蚀，防水，防紫外，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

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆直径 Cable Diameter (MM)	光缆重量 Cable Weight (kg/km)	弯曲半径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)		护套材料 Jacket Material
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long Term	
OP02BCXXR-CL	7.0	45	20D	10D	1500	600	1000	300	PVC
OP04BCXXR-CL	7.0	46							PVC
OP06BCXXR-CL	8.3	62							PVC
OP08BCTXXR-CL	9.5	86							PVC
OP12BCTXXR-CL	12.2	40							PVC



- 1. 紧套光纤 Tight buffer fiber
- 2. 芳纶 Aramid yarn
- 3. 护套 Jacket

产品描述(Description)

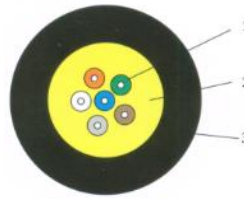
- 多用途布线光缆使用多根 $\Phi 900 \mu\text{m}$ 阻燃紧套光纤作为光传输介质, 外覆一层芳纶作为受力加强单元, 最外挤制一层扁平聚乙烯(PVC)或低烟无卤材料(LSZH, 低烟, 无卤, 阻燃)护套而成。
- Multi-purpose distribution cable use several $\Phi 900\mu\text{m}$ flame-retardant tight buffer fiber as optical communication medium, the tight buffer fiber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a PVC or LSZH(low smoke, Zero halogen, Flame-retardant)jacket.

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
- 抗扭曲性能极佳
- Excellent performance of anti-torsion
- 外护材料耐腐蚀, 防水, 防紫外, 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

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆直径 Cable Diameter (MM)	光缆重量 Cable Weight (kg/km)	弯曲直径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)		护套材料 Jacket Material
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term	
OP02DTBXXR-CL	3.5	15	20D	10D	1000	300	1000	200	PVC
OP04DTBXXR-CL	5.0	22							PVC
OP06DTBXXR-CL	5.0	23							PVC
OP08DTBXXR-CL	5.5	27							PVC
OP12DTBXXR-CL	6.3	35							PVC
OP16DTBXXR-CL	7.0	45							PVC
OP18DTBXXR-CL	7.5	51							PVC
OP24DTBXXR-CL	8.5	60							PVC



- 1. 紧套光纤 Tight buffer fiber
- 2. 芳纶 Aramid yarn
- 3. PUR 护套 PUR Jacket

产品描述(Description)

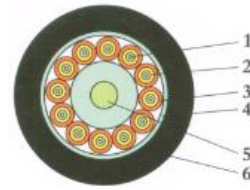
- 移动光缆使用多根 $\Phi 900 \mu m$ 阻燃紧套光纤作为光传输介质, 外覆一层芳纶作为受力加强单元, 最外挤制一层聚氨酯 (PUR) 护套而成.
- Mobile cable use several $\Phi 900 \mu m$ flame-retardant tight buffer fiber as optical communication medium, the tight buffer fiber wrapped with a layer of aramid yarn as strength member units, and the cable is completed with a PUR 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
- 抗扭曲性能极佳
- Excellent performance of anti-torsion
- 外护材料耐腐蚀性, 防水, 防紫外, 阻燃, 环保等优点
- The jacket anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment etc.
- 加工工艺严谨, 设计科学合理
- Scientific design with serious processing art

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆直径 Cable Diameter (MM)	光缆重量 Cable Weight (kg/km)	弯曲直径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
OP02DTBXXU-BK	3.5	15	20D	10D	2000	1500	5000	1000
OP04DTBXXU-BK	5.0	22						
OP06DTBXXU-BK	5.0	23						
OP08DTBXXU-BK	5.5	27						
OP12DTBXXU-BK	6.1	35						
OP16DTBXXU-BK	7.0	45						
OP24DTBXXU-BK	8.5	60						



- | | |
|-----------|---------------------|
| 1. 紧套光纤 | Tight buffer fiber |
| 2. 芳纶 | Aramid yarn |
| 3. 子单元护套 | Subunit jacket |
| 4. 涂塑铝带 | Aluminum tape |
| 5. 非金属加强芯 | FRP strength member |
| 6. PE 护套 | PE Jacket |

产品描述(Description)

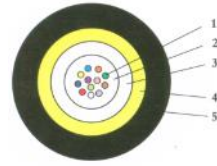
- 防水尾缆使用单芯光缆(Φ900 μm 阻燃紧套光纤, 芳纶加强元件)作为子单元, 非金属中心加强芯, 光缆子单元层绞与中心加强芯形成缆芯外包铝带防潮层, 最外挤制一层聚乙烯(PE)护套而成.
- Waterproof pig-tail cable use simplex cable(Φ900μm flame-retardant tight buffer fiber, aramid yarn as strength member)as subunit. A fiber reinforced plastic(FRP) locates in the centre of core as a non-metallic 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 larger tensile strength
- 外护材料耐腐蚀, 防水, 防紫外, 阻燃, 环保等优点
- The jacket anti-corrosion, anti-water, anti-ultraviolet radiation, flame-retardant and harmless to environment 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

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆直径 Cable Diameter (MM)	光缆重量 Cable Weight (kg/km)	弯曲直径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
			静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
OP02BAXXP-CL	8.0±0.5	65	20D	10D	1500	600	1000	300
OP04BAXXP-CL	8.0±0.5	68						
OP06BAXXP-CL	9.3±0.5	85						
OP08BAXXP-CL	10.5±0.5	110						
OP12BAXXP-CL	13.2±0.5	170						



- 1. 光纤 Fiber
- 2. 套管填充物 Tube filling Compound
- 3. 中心束管 Central tube
- 4. 芳纶 Aramid yarn
- 5. LSZH 护套 LSZH jacket

产品描述(Description)

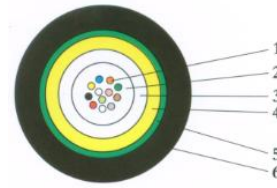
- 接入光缆的结构是将 $\Phi 250 \mu\text{m}$ 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物，松套管外包裹一层芳纶加强元件，最外挤制无卤材料（LSZH, 低烟，无卤。阻燃）护套而成。
- The fibers $\Phi 250\mu\text{m}$, are positioned in a loose tube made of high modulus plastic. The tubes are filled with a water-resistant filling compound with a layer of aramid yarn as strength member. The cable is completed with a LSZH(LSZH, Low smoke, Zero halogen, Flame-retardant) material jacket.

产品特点(Characteristics)

- 具有良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而水解性能和较高的强度
- High strength loose tube that is hydrolysis resistant
- 良好的抗压性和柔软性
- Crush resistance and flexibility
- 芳纶加强元件保证光缆的抗拉强度
- Aramid yarn strength member 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

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆数 Fiber count	光缆直径 Cable Diameter (MM)	中心束管直径 Unitube Diameter (MM)	光缆重量 Cable Weight (kg/km)	弯曲直径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
					静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long Term
OP02CLTXXR-CL	2	6.0±0.5	2.8	40	20D	10D	2000	1000	1000	600
OP04CLTXXR-CL	4	6.0±0.5	2.8	40						
OP06CLTXXR-CL	6	6.0±0.5	2.8	40						
OP08CLTXXR-CL	8	6.0±0.5	2.8	40						
OP12CLTXXR-CL	12	6.0±0.5	2.8	40						
OP16CLTXXR-CL	16	6.0±0.5	2.8	40						
OP24CLTXXR-CL	24	6.0±0.5	2.8	40						



- | | | | |
|---------|--------------|------------|-----------------------|
| 1. 光纤 | Fiber | 2. 套管填充物 | Tube filling compound |
| 3. 中心束管 | Central tube | 4. 芳纶 | Aramid fiber |
| 5. 涂塑钢带 | PSP | 6. LSZH 护套 | LSZH jacket |

产品描述(Description)

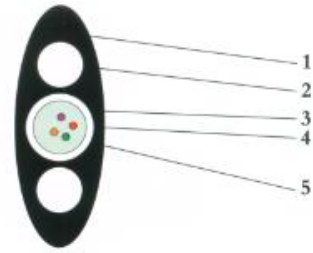
- 接入光缆的结构是将 $\Phi 250 \mu m$ 光纤套入高模量材料制成的松套管中，松套管内填充防水化合物，松套管外覆盖一层芳纶加强元件，再用一层双面涂塑钢带(PSP)纵包，最外挤制无卤材料(LSZH, 低烟, 无卤, 阻燃)护套而成。
- The fibers $\Phi 250 \mu m$, are positioned in a loose tube made of high modulus plastic. The tubes are filled with a water-resistant filling compound with a layer of aramid yarn as strength member. Then wrapped with layer of PSP longitudinally The cable is completed with a LSZH(LSZH, Low smoke, Zero halogen, Flame-retardant) material jacket.

产品特点(Characteristics)

- 具有良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而水解性能和较高的强度
- High strength loose tube that is hydrolysis resistant
- 良好的抗压性和柔软性
- Crush resistance and flexibility
- 芳纶加强元件保证光缆的抗拉强度
- Aramid yarn strength member ensure tensile strength
- 双面涂料钢带(PSP)提高光缆的抗透潮能力
- PSP enhancing moisture-proof
- 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

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆数量 Fiber count	光缆直径 Cable Diameter (MM)	中心束管直径 Unitube Diameter (MM)	光缆重量 Cable weight (kg/km)	弯曲直径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
					静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long Term
OP02CSTXXL-BK	2	8.5±0.5	2.8	85	20D	10D	2000	1000	1000	300
OP04CSTXXL-BK	4	8.5±0.5	2.8	85						
OP06CSTXXL-BK	6	8.5±0.5	2.8	85						
OP08CSTXXL-BK	8	8.5±0.5	2.8	85						
OP12CSTXXL-BK	12	8.5±0.5	2.8	85						
OP16CSTXXL-BK	16	8.5±0.5	2.8	85						
OP24CSTXXL-BK	24	8.5±0.5	2.8	85						



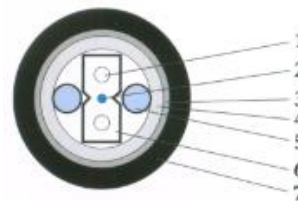
- 1.外护套 Outer jacket
- 2.加强元件 Tension member
- 3.松套管 Loose tube
- 4.着色光纤 Coloring fiber
- 5.纤膏 Fiber jelly

产品特点(Characteristics)

- 结构设计简单更容易安装。
- Compact, easy-to-access design allows for easy installation and handing.
- 适合于架空，直埋，管道安装。
- Suitable for self-supporting aerial, direct buried and duct FTTX drop installations.
- 优异的抗拉力和抗压力。
- Excellent tensile strength and crush-resistance.

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆 数量 Fiber Count	光缆 直径 Cable Diameter (MM)	中心束 管直径 Unitube Diameter (MM)	光缆 重量 Cable weight (kg/km)	弯曲直径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
					静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
					20D	10D	1200	400	1000	300
OP02FCTXXP-BK	2	4.6×8.0	2.5	28	20D	10D	1200	400	1000	300
OP04FCTXXP-BK	4	4.6×8.0	2.5	28						
OP06FCTXXP-BK	6	4.6×8.0	2.5	28						
OP08FCTXXP-BK	8	4.6×8.0	2.5	28						
OP12FCTXXP-BK	12	4.6×8.0	2.5	28						
OP16FCTXXP-BK	16	4.6×8.0	2.5	28						
OP24FCTXXP-BK	24	4.6×8.0	2.8	28						



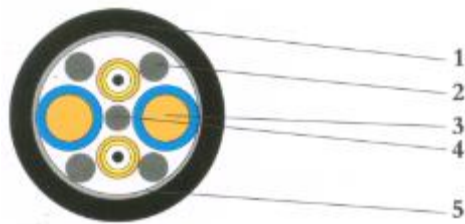
1. 加强元件 Strength Member
2. 着色光纤 Coloring Fiber
3. 铝带铠装 APL
4. 阻水纱 Water Swellable yarn
5. 加件元件 Strength Member
6. 内护套 Inner jacket
7. 外护套 Outer jacket

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
- 适合于室内，室外之间的连接
- Suitable for the connection of indoor between outdoor

技术参数 (Technical Parameters)

光缆型号 Cable Type	光缆 数量 Fiber Count	光缆 直径 Cable Diameter (MM)	光缆 重量 Cable weight (kg/km)	弯曲直径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
				静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
				20D	10D	200	100	1000	300
OPFTTH-IIIQ-BK-01Xn	1	7.0	35	20D	10D	200	100	1000	300
OPFTTH-IIIQ-BK-02Xn	2	7.0	35						
OPFTTH-IIIJ-FK-01Xn	1	7.0	35						
OPFTTH-IIIJ-FK-02Xn	2	7.0	35						



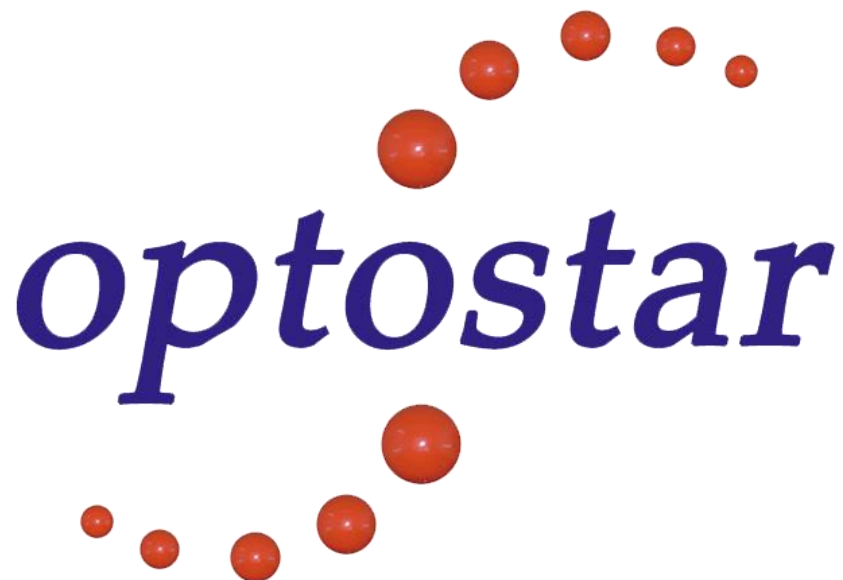
1. 护套 Jacket
2. 阻水纱 Water-block yarn
3. 单芯缆 Simplex Cable
4. 电缆 Cable
5. 中心加强件 Central Strength Member

产品特点(Characteristics)

- 光电混合光缆采用的紧套光纤，拥有优异的剥离性能
- Excellent strippability of tight buffer fiber
- 光缆直径和弯曲半径小，在狭窄空间也能自由安装同时
- 兼空光信号传输和电能传输
- Diameter and bending radius are small, can be installed
- freely in narrow room, have both optical signal
- Transmission and electricity transmission

技术参数 (Technical Parameters)

光缆数量 Fiber Count	光缆直径 Cable Diameter (MM)	子缆直径 Cable Diameter (MM)	光缆重量 Cable weight (kg/km)	弯曲半径 Bending Radius (MM)		允许拉伸力 Tension Strength (N)		允许压扁力 Crush Resistance (N/100mm)	
				静态 Static	动态 Dynamic	短期 Short term	长期 Long term	短期 Short term	长期 Long term
2	7.8	2.0	60	20D	10D	600	200	1000	300
4	7.8	2.0	60						
6	7.8	2.0	60						



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