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光纤光缆选型样本 www.tiangkang.com



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光纤主要技术指标

G652 单模光纤(SF) G655 单模光纤(SV) G651 多模光纤(MM)

FOC Catalogue

Technical Indices of Optic Fiber

G.652 Single-mode Optic Fiber (SF) G.655 Single-mode Optic Fiber (SV) G.651 Multi-mode Optic Fiber (MM)

光缆系列产品 Fiber Optic Cable

中心束管式光缆 松套层绞式光缆 松套层绞式(阻燃、防蚁防鼠光缆)

> 松套层绞式水线光缆 8字型自承式光缆 非金属松套层绞式光缆 全介质自承式光缆(ADSS) 中心束管式光纤带光缆 松套层绞式光纤带光缆 通信用室(局)内软光缆 数字通信用对称对绞五类电缆 适配器 光纤分路器 光缆接续终端盒 光纤连接器 防水尾缆

Central Tube FOC Loose Tube Stranded FOC Loose Tube Stranded FOC (Flame-retardant, anti-mouse & termite FOC) Underwater Loose Tube Stranded FOC 8-shape Self-supporting FOC Non-metallic Loose Tube Stranded FOC All Dielectric Self-Supporting Aerial FOC Central Tube Optic Fiber Ribbon Cable Loose Tube Stranded Optic Fiber Ribbon Cable Soft Indoor (Local) FOC for Telecommunication Symmetry pair-twisted class 5 cable for digital communication use Adapter **Optic Fiber Coupler** FOC Repeater & Terminal Box **Optic Fiber Connector** Water-proof Cable Pigtail

产品型号编制方法 光缆运输、敷设及安装注意事项。

Type Naming Description Cautions in Transportation & Mounting of FOC

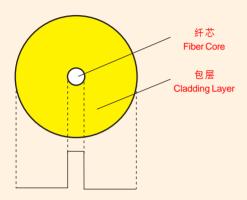
 (V表及成套、电缆、光缆、石油管材、新能源、中西药品、医疗用品、人造板、树脂

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 sales@tiankang.com

二氧化硅系匹配型普通单模光纤(G652即 B1 类光纤) SiO, Matched-cladding Single Mode Optic Fiber (G.652/B1 Optic Fiber)



光纤几何尺寸_____

模场直径 (1310nm): (8.6~9.5) ± 0.5µm
包层直径: 125 ± 1.0µm
包层不圆度: ≤ 2%
纤芯/包层同心度误差: ≤ 0.8µm
涂覆层直径: 245 ± 10µm (未着色)
包层/涂覆层同心度误差: ≤ 12.5µm
光纤翘曲度: R ≥ 4m

Geological Sizes

Mode field Diameter (1310nm): $(8.6 \sim 9.5) \pm 0.5 \mu m$ Cladding Layer Diameter: $125 \pm 1.0 \mu m$ Cladding Layer Non-circularity: $\leq 2\%$ Core/Cladding Layer Concentricity Tolerance: $\leq 0.8 \mu m$ Coating Layer Diameter: $245 \pm 10 \mu m$ (uncolored) Cladding/Coating Layer Concentricity Tolerance: $\leq 12.5 \mu m$ Bending Radius: $R \geq 4m$

光纤光学及传输特性

Optic & Transmission Performance

群折射率: 1.466	
衰减常数:	
1310nm	1550

£X: 1310nm 1550nm ≼0.35dB/km ≼0.21dB/km Group Refraction Index: 1.466 Attenuation Constant: 1310nm 1550nm ≤ 0.35dB/km ≤ 0.21dB/km

宏弯衰减:

Φ 75mm	100 圈	1310nm	≤ 0.05dB
		1550nm	≤ 0.10dB
Macro be	nd Atte	enuation:	

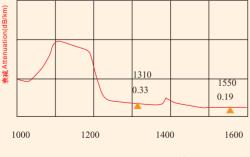
 Φ 75mm 100 rings 1310nm ≤ 0.05dB
 1550nm ≤ 0.10dB

波长附加衰减:

1285~1330nm 波长附加衰减系数: ≤ 0.05dB/km 1525~1575nm 波长附加衰减系数: ≤ 0.05dB/km

衰减不均匀性:

在光纤后向散射曲线上,任意 500m 长度上的实测衰 减值与全长上平均 500m 的衰减值之差的最坏值不大于 0.05dB。



波长 Wavelength

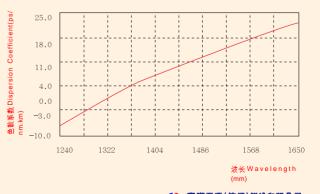
Wavelength Additional Attenuation:

1285~1330nm Wavelength Additional Attenuation Constant \leqslant 0.05dB/km

1525~1575nmWavelength Additional Attenuation Constant \leqslant 0.05dB/km

Attenuation Non-conformity

Attenuation Difference Tolerance: no more than 0.05dB .







截止波长

光缆截止波长: λ cc < 1260nm 光纤截止波长: 对于最坏情形下光缆长度和弯曲的使 用场合, λ c < 1250nm

色散

零色散波长范围(λ0): 1300~1324nm 零色散斜率(s0): ≤ 0.093ps/nm²·km 色散系数绝对值: 1288~1339nm ≤ 3.5ps/(nm·km) 1271~1360nm ≤ 5.3ps/(nm·

km)

的

1550nm 波长范围

色散系数绝对值: ≤ 18.0ps/nm · km

从 **1200nm** 到 **1600nm** 波长范围内任何波长(λ) 处 色散都可用下式计算:

色散=D(λ)= $\frac{S^{\circ}}{4}$ [$\lambda - \lambda^{\circ} \lambda^{\circ}$]ps/nm·km

Zero Dispersion Wavelength Range: 1300~1324nm

Dispersion:

Cutoff Wavelength

Zero Dispersion Slope: $\leq 0.093 \text{ps/nm}^2 \cdot \text{km}$ Dispersion Coefficient Absolute Value:

Cutoff Wavelength of FOC: λ cc ≤ 1260nm

Cutoff Wavelength of Optic Fiber: $\lambda c \leq 1250$ nm

1288~1339nm ≤ 3.5ps/(nm · km)

1271~1360nm ≤ 5.3ps/(nm · km)

1550nm Wavelength Range:

99.9

Dispersion Coefficient Absolute Value: ≤ 18.0ps/nm · km 1200nm~1600nm Dispersion Calculation Formula:

3 4 5 6

Dispersion = D(
$$\lambda$$
) = $\frac{S_{\circ}}{4} [\lambda - \frac{\lambda_{\circ}^{4}}{\lambda^{3}}]$ ps/nm · km

机械特性 Mechanical Performance

筛选试验: 1% (0.7GPa,8.6N,100KPSI)
动态疲劳系数: nd ≥ 20
涂层剥离力: 1.3~8.9N
涂层外观: 双涂层内无空隙和夹杂的气泡

Selection Test: 1% (0.7GPa,8.6N,100KPSI) Dynamic Fatigue Coefficient: nd \geq 20 Coating Splitting Force:1.3~8.9N Coating Appearance: No gap and air bubble should be found within double coating layers.

环境特性 Environment & Performance

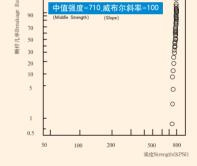
使用温度范围: -60℃~+85℃

衰减的温度关系:

在 1310nm、1550nm 波长下 -60℃~+85℃ 产生的附加 衰减 ≤ 0.05dB/km

温度湿度循环:

光纤试样在 23℃ ± 2℃温度下浸泡在水中 30 天后,在 1310nm 和 1550nm 波长允许附加衰减 < 0.05dB/km。 光纤在温度为 85℃ ± 2℃和相对湿度 ≥ 85% 条件下放 置 30 天后,在 1310nm 和 1550 波长允许附加衰减 < 0.05dB/km。



Temperature Range:-60 °C ~+85 °C

Temperature & Attenuation Relation:

The additional attenuation should be no more than 0.05dB/ km at 1310nm, 1550nm under temperature of -60 $^{\rm C}\text{-+85}$

С

Temperature and Humidity Cycle:

The additional attenuation allowed of tested fiber at wavelength 1310nm & 1550nm should be no more than 0.05dB/km after it is immersed in water under temperature of 23°C \pm 2 °C for 30 days.

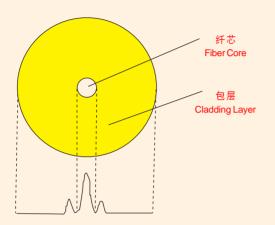
The additional attenuation allowed of tested fiber at 1310nm & 1550nm should be no more than 0.05dB/km after it is laid in the environment with temperature of 85 $^\circ\!C$ \pm 2 $^\circ\!C$ and relative humidity no less than 85% for 30 days.





二氧化硅系非零色散单模光纤(G655 即 B4 类光纤)

SiO₂ Non-zero Dispersion Single Mode Optic Fiber (G.655/B4 Fiber)



光纤几何尺寸 ——

模场直径(1550nm) (8.0~11.0)±0.7µm
包层直径: 125±1.0µm
包层不圆度: ≤2.0%
纤芯/包层同心度误差: ≤2µm
涂覆层直径: 245±10µm(未着色)
包层/涂覆层同心度误差: ≤12.5µm
光纤翘曲度: R≥4m

Geological Sizes

Mode field Diameter (1550nm): $(8.0 \sim 11.0) \pm 0.7 \mu m$ Cladding Layer Diameter: $125 \pm 1.0 \mu m$ Cladding Layer Non-circularity: $\leq 2.0\%$ Core/Cladding Layer Concentricity Tolerance: $\leq 2 \mu m$ Coating Layer Diameter: $245 \pm 10 \mu m$ (uncolored) Cladding/Coating Layer Concentricity Tolerance: $\leq 12.5 \mu m$ Bending Radius: $R \geq 4m$

光纤光学及传输特性 Optic & Transmission Performance

衰减常数:	Atter	nuation Constant	:
1550n	m	16xxnm	
0.20 ~ 0.25d	B/km	≤ 0.27dB/km	

波长附加衰减:

1525~1575nm 相对 1550nm 波长附加衰减系数 ≤ 0.05dB/km

1625nm 相对 1550nm 波长附加衰减系数 ≤ 0.05dB/ km

截止波长

未成缆光纤截止波长 (λ c): ≤ 1470 nm (2米光纤 试样上测试) 光缆截止波长 (λ c c): ≤ 1480 nm

色散

C 波段色散区 非零色散区(nm)1530 ≤ λ min ≤ λ man ≤ 1565 非零色散区色散绝对值, PS/(nm · km)1.0 ≤ Dmin ≤ Dman ≤ 6.0 偏振模色散系数 (PMD): ≤ 0.3ps √km **宏弯衰减:** Macro bend Attenuation: Ф 75mm 100 圈 rings 1550nm ≤ 0.2dB

Wavelength Additional Attenuation:

Wavelength Additional Attenuation Coefficient at 1525~1575nm in comparison with 1550nm: $\leqslant~0.05 dB/km$

Wavelength Additional Attenuation Coefficient at 1625nm in comparison with 1550nm: \leqslant 0.05dB/km

Cutoff Wavelength:

Cutoff Wavelength of Optic Fiber before Cabling: < 1470 nm(2meter sample test) Cutoff Wavelength of FOC: < 1480 nm

Dispersion:

Dispersion Zone at Waveband C Non-zero Dispersion Zone(nm)1530: $\leq \lambda \min \leq \lambda \max \leq 1565$

Dispersion Absolute Value of Non-zero Dispersion Zone:PS/(nm ⋅ km)1.0 ≤ Dmin ≤ Dman ≤ 6.0 PMD Value: ≤ 0.3ps √km

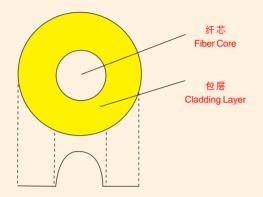
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Si

二氧化硅系 50/125µm 多模光纤(G651 即 A1a 类光纤) SiO, 50/125µm Multi-mode Optic Fiber (G.651/A1a Optic Fiber)



光纤几何尺寸 _____

纤芯直径: 50 ± 3.0µm
包层直径: 125 ± 3.0µm
包层不圆度: ≤ 2.0%
纤芯/包层同心度误差: ≤ 6.0%
涂覆层直径: 245 ± 10µm
包层/涂覆层同心度误差: ≤ 12.5µm
光纤翘曲度: R ≥ 5m

Geological Sizes

Fiber Core Diameter:50 \pm 3.0µm Cladding Layer Diameter:125 \pm 3.0µm Cladding Layer Non-circularity: \leq 2.0% Core/Cladding Layer Concentricity Tolerance: \leq 6.0% Coating Layer Diameter: 245 \pm 10µm Cladding/Coating Layer Concentricity Tolerance: \leq 12.5µm Bending Radius:R \geq 5m

光纤光学及传输特性 Optic & Transmission Performance

 衰减常数:
 Attenuation Constant:
 数值孔径: 0.20 ~ 0.22 ± 0.02

 850nm
 1330nm
 850nm
 1330nm

 < 3.0dB/km</td>
 < 0.6dB/km</td>
 < 0.6dB/km</td>
 Nominal Aperture:0.20 ~ 0.22 ± 0.02

 State
 State
 State

 < 3.0dB/km</td>
 < 0.6dB/km</td>
 State

 < 3.0dB/km</td>
 < 0.6dB/km</td>

 \geq 500MHz \cdot km

≥ 1000MHz · km

Bandwidth:

@850nm

@1300nm

Φ 75mm 100 🕅 850nm ≤ 0.5dB 1300nm ≤ 0.5dB Macro bend Attenuation: Φ 75mm 100 rings 850nm ≤ 0.5dB 1300nm ≤ 0.5dB

机械特性 Mechanical Performance =

≥ 500MHz · km

 \geq 1000MHz · km

带宽:

@850nm

@1300nm

筛选试验: 1% (0.7GPa,8.6N,100KPSI) 动态疲劳系数: nd ≥ 20 涂层剥离力: 1.3~8.9N

Select Test: 1% (0.7GPa,8.6N,100KPSI) Dynamic Fatigue Coefficient: nd ≥ 20 Coating Splitting Force:1.3~8.9N

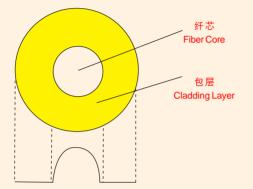
在1310nm、1550nm 波长下 -60℃~+85℃产生的 附加衰减<0.05dB/km

The additional attenuation at wavelength of 1310nm, 1550nm under temperature of -60 $^\circ\!C$ ~+85 $^\circ\!C$ should be less than 0.05dB/km.



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二氧化硅系 62.5/125µm 多模光纤(G651 即 A1b 类光纤) SiO₂ 62.5/125µmMulti-mode Optic Fiber (G.651/A1b Optic Fiber)



光纤几何尺寸 =

纤芯直径: 62.5 ± 2.5µm 包层直径: 125 ± 1.0µm 包层不圆度: ≤ 1.0% 纤芯/包层同心度误差: ≤ 1.5µm 涂覆层直径: 245 ± 10µm 包层/涂覆层同心度误差: ≤ 12.0µm 光纤翘曲度: R ≥ 5m

天康集团

Geological Sizes

Fiber Core Diameter:62.5 ± 2.5µm Cladding Layer Diameter:125 ± 1.0µm Cladding Layer Non-circularity: ≤ 1.0% Core/Cladding Layer Concentricity Tolerance: ≤ 1.5µm Coating Layer Diameter: 245 ± 10µm Cladding/Coating Layer Concentricity Tolerance: ≤ 12.0µm Bending Radius:R ≥ 5m

光纤光学及传输特性 Optic & Transmission Performance

衰减常数 : 850nm ≼ 3.0dB/km	1300nm ≼ 0.8dB/km	Attenuation Con 850nm ≼ 3.0dB/km	stant: 1300nm ≼ 0.8dB/km	数值孔径: 0.29 ± 0.03 Nominal Aperture:0.29 ± 0.03 宏弯衰减: Ф 75mm 100 圈 850nm ≤ 0.5dB
带宽		Bandwidth:		1300nm ≤ 0.5dB

@850nm ≥ 200MHz · km @1300nm ≥ 600MHz · km

@850nm @1300nm

≥ 200MHz · km ≥ 600MHz · km

衰减<0.05dB/km

05dB/km.

Φ 75mm	100 圈	850nm	≤ 0.5dB
		1300nm	≼ 0.5dB
Macro be	nd Atte	enuation	
Φ 75mm 1	00 rings	850nm	≼ 0.5dB
		1300nm	≤ 0.5dB

机械特性 Mechanical Performance

筛选试验: 1% (0.7GPa,8.6N,100KPSI) 动态疲劳系数: nd ≥ 20 涂层剥离力: 1.3~8.9N

Select Test: 1% (0.7GPa.8.6N.100KPSI) Dynamic Fatigue Coefficient: nd ≥ 20 Coating Splitting Force:1.3~8.9N

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联系人: 姚经理: 13685509377 Emal: 115192082@qq.com

环境特性 Environment & Attenuation =

在1310nm、1550nm 波长下-60℃~+85℃产生的附加

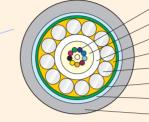
The additional attenuation at wavelength of 1310nm, 1550nm

under temperature of -60°C~+85°C should be less than 0.





2-12 芯中心束管式光缆(钢丝铠装) 2~12 Cores Central Tube Fiber Optic Cable (Steel Wire Armored)



UV 固化光纤 Optic Fiber 纤膏: Filling Compound for Fiber PBT松套管: PBT Loose Tube 缆膏: Cable Filling Compound 磷化钢丝: Phosphorated Steel Wire 包带: Wrapping Tape 钢塑复合带: Steel-plastics Compound Tape PE 外护套: PE Outer Sheath

产品型号:GYXTS

• 中心松套管光纤

ERFR (AM) SUMABLE

- 缆芯填充油膏
- 12 根钢丝均匀绞合于松套管周围
- 双面涂塑钢带粘结 PE 护套

应用范围:适用于长途通信和局间通信 **敷设方式**:管道、架空和直埋 适用温度:-40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长,使
 光缆具有优良的机械性能和环境性能;
- 重量轻, 敷设方便;
- 光缆柔韧性和抗弯曲能力优良;
- ◆ 钢丝铠装抗压力优良。
- 钢带纵包缆芯使光缆挡潮效果更为优良,具有防弹 能力。

Type: GYXTS

- Optic fiber in central loose tube
- Cable core filled with filling compound
- 12 pieces of steel wire evenly stranded around loose tube
- Plastics-coated steel tape bound with PE sheath

Application Range: for long distance & local communications Mounting Ways: in pipe, aerial or direct burial Application Temperature:-40 $^{\circ}$ C~+60 $^{\circ}$ C

Features:

- with low transmission loss and dispersion
- The reasonable design and precision control on fiber

leng- th in loose tube ensures better mechanical performance

- and adaptability to environment of FOC.
- with light weight and easy for laying
- with better pliability
- Steel wire armor ensures better crush-resistant performance.
- Cable core wound with corrugated steel tape ensures better moisture & shooting-proof performance.

技术参数 Technical Parameters

光缆芯数	(mm) (kg/km)		最小弯曲半径 (mm) Min. Bending Radius		允许拉伸力最小值 (N) Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
FOC Core(s)	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 知 Short Term	^{ved} 长期 Long Term
2~12	10.6	165	120	240	1500	600	1000	300



2-12 芯中心束管式光缆(钢丝铠装) 2~12 Cores Central Tube Fiber Optic Cable (Steel Wire Armored)



UV 固化光纤 Optic Fiber 纤膏: Filling Compound for Fiber PBT 松套管: PBT Loose Tube 览膏: Cable Filling Compound 磷化钢丝: Phosphorated Steel Wire 包带: Wrapping Tape 铝塑复合带: Al-plastics Compound Tape PE 外护套: PE Outer Sheath

产品型号: GYXTA

- 中心松套管光纤
- 缆芯填充油膏
- 12 根钢丝均匀绞合于松套管周围
- 双面涂塑铝带粘结 PE 护套

应用范围:适用于长途通信和局间通信 **敷设方式**:管道、架空 适用温度: -40℃~+60℃

Type: GYXTA

- Optic fiber in central loose tube
- · Cable core filled with filling compound
- 12 pieces of steel wire evenly stranded around loose tube
- · Plastics-coated steel tape bound with PE sheath

Application Range: for long distance & local communications Mounting Ways: in pipe or aerial or mounting Application Temperature:-40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长,使 光缆具有优良的机械性能和环境性能;
- 重量轻, 敷设方便;
- 光缆柔韧性和抗弯曲能力优良;
- 钢丝铠装抗压力能力优良。
- 铝带纵包缆芯使光缆挡潮效果更为优良。

Features:

- with low transmission loss and dispersion
- · The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- with light weight and convenient for laying
- with better pliability
- · Steel wire armor ensures better crush-resistant performance.
- · Cable core wound with corrugated Al tape ensures better moisture-proof performance.

技术参数 **Technical Parameters**

光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	(kg/km) (mm) Min. Bending Radius		允许拉伸力最小值 (N) Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
FOC Core(s)	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term
2~12	10.4	150	120	240	1500	600	1000	300

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2-12 芯中心束管式光缆(钢丝铠装) 2~12 Cores Central Tube Fiber Optic Cable (Steel Wire Armored)



UV 固化光纤 Optic Fiber

纤膏: Filling Compound for Fiber

- PBT 松套管: PBT Loose Tube
- 缆膏: Cable Filling Compound
- 磷化钢丝: Phosphorated Steel Wire
- 包带: Wrapping Tape
- PE 外护套: PE Outer Sheath

产品型号: GYXTY

- 中心松套管光纤
- 缆芯填充油膏
- 12 根钢丝均匀绞合于松套管周围
- PE 护套

应用范围:适用于局间通信 **敷设方式**:管道、架空 **适用温度:**-40℃~+60℃

产品特点

- ◆ 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长,使 光缆具有优良的机械性能和环境性能;
- 重量轻, 敷设方便;
- 光缆柔韧性和抗弯曲能力优良;
- 钢丝铠装抗拉能力优良。
- ◆ 具有防弹能力。

Type: GYXTY

- Optic fiber in central loose tube
- · Cable core filled with filling compound
- 12 pieces of steel wire evenly stranded around loose tube
- PE sheath

Application Range: for local communications Mounting Ways: in pipe, aerial Application Temperature:-40°C~+60°C

Features:

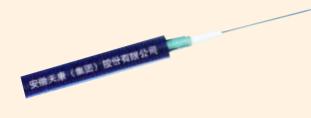
- with low transmission loss and dispersion
- The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- with light weight and convenient for laying
- with better pliability
- Steel wire armor ensures better tension-resistant performance.
- with shooting-proof performance

技术参数 Technical Parameters

光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	最小弯 (m Min. Bendi	m)	٩) (١	允许拉伸力最小值 (N) Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
FOC Core(s	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 Short Term	^{ved} 长期 Long Term	
2~12	9.6	134	100	200	1500	600	1000	300	



2-12 芯中心東管式光缆(钢带铠装) 2~12 Cores Central Tube Fiber Optic Cable (Steel Tape Armored)



UV 固化光纤 Optic Fiber

· 纤膏: Filling Compound for Fiber

- PBT松套管: PBT Loose Tube

PE 外护套: PE Outer Sheath

- —— 磷化钢丝: Phosphorated Steel Wire
 - 阻水环(热熔胶) Water-proofRing(Heat-∽ melting Glue)
 - ~ 钢塑复合带: Steel-plastics Compound Tape

产品型号:GYXTW

- 中心松套管光纤
- 皱纹钢带粘结 PE 护套
- 钢带与松套管之间热熔胶粘结
- PE 护套内加入双平行钢丝

应用范围: 适用于长途通信和局间通信 **敷设方式**: 管道、架空 **适用温度:** -40℃~+60℃

产品特点

- ◆光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长,使 光缆具有优良的机械性能和环境性能;
- 光缆结构紧凑,钢带与松套管之间热熔胶粘为一体, 不仅确保了光缆防潮、阻水效果,而且保证了光缆 敷设后,松套管无回缩;
- ◆重量轻,敷设方便;
- ◆光缆柔韧性和抗弯曲能力优良;
- ◆钢带铠装抗压力强。

Type: GYXTW

- Optic fiber in central loose tube
- Corrugated steel tape bound PE sheath
- Steel tape & loose tube bound together with heat-melting glue
- 2 pieces of paralleled steel wire within PE sheath

Application Range: for long distance & local communications Mounting Ways: in pipe, or aerial mounting Application Temperature:-40°C~+60°C

Features:

- with low transmission loss and dispersion
- The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- The close structure with steel tape & loose tube bound together with heat-resistant glue ensures moisture & water resistant performance of FOC.
- · with light weight and easy for laying
- with better pliability
- Steel tape armor ensures better crush-resistant performance.

光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	最小弯曲半径 (mm) Min. Bending Radius		(kg/km) (mm) (N) Min. Bending Radius Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
FOC Core(s)	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term
2~12	10.5	110	110	220	1500	600	1000	300

技术参数 Technical Parameters





天康集团 sales@tiankang.com

2-144 芯直埋松套层绞式光缆 2~144 Cores Loose Tubes Stranded FOC for Direct Burial



UV 固化光纤 Optic Fiber </

金属中心加强件: Metallic Central Strength Member

仪表及成套、电缆、光缆、石油管材、新能源、中西药品、医疗用品、人造板、树脂 www.tiankang.com
省信执线・4∩∩_880_77∩∩

销售热线: 400-889-7700

- PBT 松套管: PBT Loose Tube
- PE 垫层: PE Laver
- 扎纱: Wrapping Yarn
- 阻水缆膏: Water-proof Filling Compound
- 铝塑复合带: Al-plastics Compound Tape
- PE 内护层: PE Inner Layer
- 阻水层(阻水带或阻水环): Water-proof Layer (Water-proof Tape or Water-proof Ring)
- 皱纹钢塑复合带: Corrugated Steel-plastics Compound Tape PE 护套: PE Sheath

Type: GYTA53

- Optic fiber in loose tube
- Metallic central strength member
- Filling compound for SZ stranded cable cores
- · Al-plastics compound tape & PE inner sheath bound together
- Corrugated steel-plastics compound tape & PE outer sheath bound together

Application Range: for long distance & local communications Mounting Ways: for direct burial, in cable furrow, etc. Application Temperature:-40°C~+60°C

Features:

- · with low transmission loss and dispersion
- The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- It could ensure moisture & water resistant performance of FOC with filling compound filled outside strength member and inside cable core.
- with better pliability
- · It could ensure high tensile strength, better performance of resisting side press and animal biting with double corrugated metallic layers wrapping & double sheaths.

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产品型号: GYTA53

- 光纤松套管
- 金属中心加强件
- SZ 层绞缆芯内填充油膏
- 铝塑复合带粘结 PE 内护套
- 皱纹钢塑复合带粘结 PE 外护套

应用范围:适用于长途通信和局间通信 **數设方式**: 首埋、电缆沟、槽道、进局 适用温度: -40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及 成缆方式,使光缆具有优良的机械性能和环境性能
- 光缆结构紧凑,采用SZ 层绞结构,确保光缆在恶 劣的环境下,光纤不受到应力;
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果。
- 光缆柔韧性和抗弯曲能力优良;
- 双层金属带纵包,双层护套抗拉、抗侧压能力强, 具有防啮齿类动物破坏的能力。

	光缆芯数	光缆外径	光缆重量	最小弯曲半径 (mm) Min. Bending Radius		允许拉伸力最小值 (N) Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
	FOC Core(s)	(mm)	(kg/km)						
FOC Core(s)	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term	
	2~36	16.3	250	170	340	3000	1000	3000	1000
	38~72	17.5	290	180	360	3000	1000	3000	1000
	74~144	22.7	475	230	460	3000	1000	3000	1000

技术参数 Technical Parameters

<> 安徽天康(集团)股份有限公司 10

UV 固化光纤 Optic Fiber

2-144 芯松套层绞式光缆(钢带铠装) 2~144 Cores Loose Tubes Stranded FOC (Steel Tape Armored)



纤膏: Filling Compound for Fiber
PE 垫层: PE Layer
PBT松套管: PBT Loose Tube
金属中心加强件: Metallic Central Strength Member
扎纱 + 聚酯带: Wrapping Yarn+ Polyester Tape
阻水缆膏: Water-proof Filling Compound
PE 内护层: PE Inner Layer
阻水层(阻水带或阻水环): Water-proof Layer (Water-proof Tape or Water-proof Ring)
皱纹钢塑复合带: Corrugated Steel-plastics
CompoundTape
PE 护套: PE Sheath

产品型号:GYTY53

- 光纤松套管
- 金属中心加强件
- SZ 层绞缆芯内填充油膏
- PE 内护层
- 皱纹钢塑复合带粘结 PE 外护套

应用范围:适用于长途通信和局间通信 **敷设方式**:管道、架空、直埋、进局、槽道、电缆沟 适用温度:-40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及成 缆方式,使光缆具有优良的机械性能和环境性能;
- 光缆结构紧凑,采用SZ层绞结构,确保光缆在恶劣的环境下,光纤不受到应力;
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果。
- 光缆柔韧性和抗弯曲能力优良;
- 双护套结构抗侧压能力强,具有防啮齿类动物破坏 的能力。

Type: GYTY53

- Optic fiber in loose tube
- Metallic central strength member
- Filling compound for SZ stranded cable cores
- PE Inner Sheath
- Corrugated steel-plastics compound tape & PE outer sheath bound together

Application Range: for long distance & local communications Mounting Ways: in pipe, for aerial mounting or direct burial, in cable furrow, etc.

Application Temperature:-40°C~+60°C

Features:

• with low transmission loss and dispersion

- The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- It could ensure moisture & water resistant performance of FOC with filling compound filled outside strength member and inside cable core.
- with better pliability
- It could ensure high tensile strength, better performance of resisting side press and animal biting with double corrugated metallic layers wrapping & double sheaths.

光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	最小弯 (m Min. Bendi	m)	允许拉伸 (N Min. Tensio	1)	允许压扁 (N/100 Min. Flatter)mm) ning Force
FOC Core(s)	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term
2~36	15.3	211	150	300	3000	1000	3000	1000
38~72	16.5	251	170	340	3000	1000	3000	1000
74~144	21.7	427	220	440	3000	1000	3000	1000

技术参数 Technical Parameters



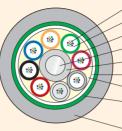
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2-144 芯松套层绞式光缆(钢带铠装) 2~144 Cores Loose Tubes Stranded FOC (Steel Tape Armored)





UV 固化光纤 Optic Fiber
纤膏: Filling Compound for Fiber
PBT 松套管: PBT Loose Tube
金属中心加强件: Metallic Central Strength Member
PE 垫层: PE Layer
扎纱: Wrapping Yarn
阻水缆膏: Water-proof Filling Compound
皱纹钢塑复合带: Corrugated Steel-plastics Compound Tape
PE 外护套: PE Outer Sheath

产品型号:GYTS

- 光纤松套管
- 金属中心加强件
- SZ 层绞缆芯内填充油膏
- 双面涂塑钢带粘结 PE 护套

应用范围:适用于长途通信和局间通信 **敷设方式**:管道、架空、槽道、电缆沟、直埋 适用温度:-40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及 成缆方式,使光缆具有优良的机械性能和环境性能
- 光缆结构紧凑,采用SZ层绞结构,确保光缆在恶劣的环境下,光纤不受到应力;
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果。
- 光缆柔韧性和抗弯曲能力优良;
- 钢带纵包缆芯使光缆挡潮效果更为优良。

Type: GYTS

- Optic fiber in loose tube
- Metallic central strength member
- Filling compound for SZ stranded cable cores
- Plastics -coated steel tape & PE sheath bound together

Application Range: for long distance & local communications Mounting Ways: in pipe, for aerial mounting or direct burial, in cable furrow, etc.

Application Temperature:-40°C~+60°C

Features:

- with low transmission loss and dispersion
- The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- It could ensure moisture & water resistant performance of FOC with filling compound filled outside strength member and inside cable core.
- with better pliability
- It could ensure much better moisture-proof performance FOC with corrugated steel tape wrapping.

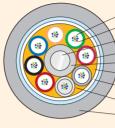
-	光缆芯数	光缆外径 (mm)	nm) (kg/km) (mm) (N) Min. Bending Radius Min. Tension Allowed		(mm)		允许压扁力最小值 (N/100mm) Min. Flattening Force		
F	FOC Core(s)	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term
	2~36	12.9	158	120	240	1500	600	1000	300
	38~72	14.1	194	140	280	1500	600	1000	300
_	74~144	19.3	359	190	380	1500	600	1000	300

of

技术参数 Technical Parameters

2-144 芯松套层绞式光缆(铝带纵包) 2~144 Cores Loose Tubes Stranded FOC (with Corrugated AI Tape)





UV 固化光纤 Optic Fiber 纤膏: Filling Compound for Fiber 金属中心加强件: Metallic Central Strength Member PBT 松套管: PBT Loose Tube PE 垫层: PE Laver 阻水缆膏: Water-proof Filling Compound 扎纱: Wrapping Yarn 铝塑复合带: Al-plastics Compound Tape PE 外护套: PE Outer Sheath

产品型号: GYTA

- 光纤松套管
- 金属中心加强件
- SZ 层绞缆芯内填充油膏
- 双面涂塑铝带粘结 PE 外护套

应用范围:适用于长途通信和局间通信 **敷设方式**:管道、架空、进局、槽道、电缆沟 适用温度: -40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及 成缆方式,使光缆具有优良的机械性能和环境性能,
- 光缆结构紧凑,采用SZ层绞结构,确保光缆在恶劣 的环境下,光纤不受到应力;
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果。
- 光缆柔韧性和抗弯曲能力优良;
- 涂塑铝带纵包缆芯使光缆挡潮效果更为优良。

Type: GYTA

Optic fiber in loose tube

天康集闭

- Metallic central strength member
- · Filling compound for SZ stranded cable cores
- Plastics coated Al tape & PE sheath bound together

Application Range: for long distance & local communications Mounting Ways: in pipe, for aerial mounting or in cable furrow, etc.

Application Temperature:-40℃~+60℃

Features:

- with low transmission loss and dispersion
- The reasonable design and precision control on fiber
- th in loose tube ensures better mechanical performance lenaand adaptability to environment of FOC.
 - The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- It could ensure moisture & water resistant performance of FOC with filling compound filled outside strength member and inside cable core.
 - with better pliability
 - It could ensure much better moisture-proof performance with corrugated plastics-coated AI tape wrapping.

光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	(m Min. Bendi	,	允许拉伸 (N Min. Tensio	1)	允许压扁; (N/100 Min. Flatter)mm) hing Force
FOC Core(s)	FOC Outer FOC Diameter	FOC Weight 静态 Static	静态	动态 Dynamic	短期 Short Term	长期 Long Term	短期 Short Term	^{ved} 长期 Long Term
2~36	12.3	138	120	240	1500	600	1000	300
38~72	13.5	167	140	280	1500	600	1000	300
74~144	18.6	310	190	380	1500	600	1000	300

技术参数 **Technical Parameters**



HTTP://WWW.TIANKANG.COM



2-144 芯阻燃松套层绞式光缆(钢带铠装)

2~144 Cores Flame-retardant Loose Tubes Stranded FOC (Steel Tape Armored)



UV 固化光纤 Optic Fiber
纤育: Filling Compound for Fiber
金属中心加强件: Metallic Central Strength Member
PBT 松套管: PBT Loose Tub e
PE 垫层: PE Layer
扎纱: Wrapping Yarn
皱纹钢塑复合带: Corrugated Steel-plastics Compound Tape
阻水缆育: Water-proof Filling Compound
无卤阻燃护套: Flame-retardant & Halogen-free Sheath

产品型号:GYTZS

- 光纤松套管
- 金属中心加强件
- SZ 层绞缆芯内填充油膏
- 双面涂塑钢带粘结 PE 外护套

应用范围:适用于长途通信和局间通信 **敷设方式**:进局、隧道、架空 适用温度:-40℃~+60℃

产品特点

技术参数

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及成缆 方式,使光缆具有优良的机械性能和环境性能;
- 光缆结构紧凑,采用SZ层绞结构,确保光缆在恶劣的环境下,光纤不受到应力;
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果;
- 光缆柔韧性和抗弯曲能力优良;
- 钢带纵包缆芯使光缆挡潮效果更为优良。

Technical Parameters

Type: GYTZS

- Optic fiber in loose tube
- Metallic central strength member
- Filling compound for SZ stranded cable cores
- Plastics -coated steel tape & PE sheath bound together

Application Range: for long distance & local communications Mounting Ways: in tunnel, for aerial mounting, etc. Application Temperature:-40 $^\circ\!C$ ~+60 $^\circ\!C$

Features:

• with low transmission loss and dispersion

• The reasonable design and precision control on fiber leng- th in loose tube ensures better mechanical performance and adaptability to environment of FOC.

- The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- It could ensure moisture & water resistant performance of FOC with filling compound filled outside strength member and inside cable core.
- with better pliability
- It could ensure much better moisture-proof performance

FOC with corrugated steel tape wrapping

of

			galeu sieer ia	pe wiapping.				
光缆芯数	光缆外径 (mm)	光缆重量 (kg/km) FOC Weight	最小弯曲半径 (mm) Min. Bending Radius		允许拉伸力最小值 (N) Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
FOC Core(s)	FOC Outer Diameter	100 Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term
2~36	12.9	158	120	240	1500	600	1000	300
38~72	14.1	194	140	280	1500	600	1000	300
74~144	19.3	359	190	380	1500	600	1000	300



金属中心加强件: Metallic Central Strength Member

阻水层 (阻水带或阻水环): Water-proof Layer (Water-proof

2-144 花防蚁直埋松套层绞式光缆

2~144 Cores Anti-termite Loose Tubes Stranded FOC for Direct Burial



产品型号:GYTA54

- 光纤松套管
- 金属中心加强件
- SZ 层绞缆芯内填充油膏
- 铝塑复合带粘结 PE 内护套
- 皱纹钢塑复合带粘结 PE 防蚊外护套

应用范围: 适用于长途通信和局间通信 **敷设方式**: 直理 适用温度: -40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及成缆 方式,使光缆具有优良的机械性能和环境性能;
- 光缆结构紧凑,采用SZ层绞结构,确保光缆在恶劣的环境下,光纤不受到应力;
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果。
- 光缆柔韧性和抗弯曲能力优良;
- 双层金属带纵包,三层护套抗拉、抗侧压能力强。
- 最外层护套采用尼龙, 防白蚁破坏能力优良。

w纹钢塑复合带: Corrugated Steel-plastics Compound Tape PE 护套: PE Sheath

防蚁外护套: Anti-termite Outer Sheath

阻水缆膏: Water-proof Filling Compound 铝塑复合带: Al-plastics Compound Tape

Type: GYTA54

- Optic fiber in loose tube
- Metallic central strength member

UV 固化光纤 Optic Fiber 纤膏: Filling Compound for Fiber

PBT松套管: PBT Loose Tube PE 垫层: PE Layer 扎纱: Wrapping Yarn

PE 内护层: PE Inner Sheath

Tape or Water-proof Ring)

- Filling compound for SZ stranded cable cores
- Plastics- coated steel tape & PE sheath bound together
- Corrugated steel-plastics compound tape & anti-termite PE outer sheath bound together

Application Range: for long distance & local communications Mounting Ways: for direct burial Application Temperature:-40°C~+60°C

Features:

- with low transmission loss and dispersion
- The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance

and adaptability to environment of FOC.

- The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- It could ensure moisture & water resistant performance of FOC with filling compound filled outside strength member and inside cable core.
- with better pliability
- It could ensure better performance of FOC of resisting tension & side press, and termite with double layers of corrugated metallic tape wrapping & 3 layers of sheath, and nylon outer sheath respectively.

_	光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	最小弯曲半径 (mm) Min. Bending Radius		允许拉伸力最小值 (N) Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
F	OC Core(s)	FOC Outer FOC Weight Diameter	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term	
	2~36	17.1	260	170	340	3000	1000	3000	1000
	38~72	18.3	300	190	380	3000	1000	3000	1000
_	74~144	23.5	495	240	480	3000	1000	3000	1000

技术参数 Technical Parameters

15 **安徽天康(集团)股份有限公司**



2-144 芯松套层绞式水线光缆

2~144 Cores Loose Tubes Stranded FOC underwater



产品型号: GYSTA53+33

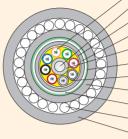
- 光纤松套管
- 金属中心加强件
- SZ 层绞缆芯内填充油膏
- 铝塑复合带粘结 PE 内护层
- 皱纹钢塑复合带粘结 PE 外护套
- 镀锌钢丝铠装
- 聚乙烯外护套

应用范围:适用于长途通信和局间通信 **敷设方式**:水下 适用温度: -40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及成缆 方式, 使光缆具有优良的机械性能和环境性能;
- 光缆结构紧凑,采用 SZ 层绞结构,确保光缆在恶劣 的环境下,光纤不受到应力;
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果;
- 光缆柔韧性和抗弯曲能力优良;
- 钢带纵包缆芯使光缆挡潮效果更为优,且有防弹能力;
- 钢丝铠装抗高强度的侧压和拉伸。

技术参数 **Technical Parameters**



- 光纤松套管 Optic Fiber in PBT Tube
- 磷化钢丝 Phosphorated Steel Wire
- 铝塑复合带 Al-plastics Compound Tape

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-次PE 护层 1st PE Layer

天康集团

- PE 垫层: PE Matting Layer
- 皱纹钢塑复合带 Corrugated Steel-plastics Compound Tape ⁻ 阻水缆膏 Water-proof Filling Compound
 - C次 PE 护层(厚度 2.0mm) 2nd PE Layer (Thickness 2.0mm)
 - 阻水带 Water-proof Tape
- 磷化钢丝 Phosphorated Steel Wire
- MDPE 外护套 (厚度2.0mm) MDPE Outer Sheath (Thickness 2 (mm)

Type: GYSTA53+33

- Optic fiber in loose tube
- · Metallic central strength member
- · Filling compound for SZ stranded cable cores
- · Al-plastics compound tape & PE inner layer bound together
 - Corrugated Steel-plastics compound tape & PE outer sheath bound together
 - · Galvanized steel armor

• PE outer sheath Application Range: for long distance & local communications Mounting Ways: underwater

Application Temperature:-40℃~+60℃

Features:

- · with low transmission loss and dispersion
- The reasonable design and precision control on fiber е n g
- th in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- It could ensure moisture & water resistant performance 0
 - FOC with filling compound filled outside strength member and inside cable core.
 - with better pliability
 - It could ensure much better moisture & shooting-proof performance of FOC with corrugated steel tape wrapping.
 - It could ensure better performance of resisting strong d

					press a	and tension.			
光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	铠装钢丝 规格	(mm)		允许拉伸力最小值 (N) Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
FOC Core(s)	FOC Outer Diameter	FOC Weight		静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term
2~36	24.9	1005	Ф2.0	500	750	5000	3000	20000	10000
38~72	26.4	1154	Ф2.0	540	810	5000	3000	20000	10000
74~144	31.3	1605	Ф2.0	640	960	5000	3000	20000	10000

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8 字型自承式光缆 8-shape Self Supporting FOC



钢绞线 Stranded Steel Wire PE 护套 PE Sheath

天康集闭

UV 固化光纤 Optic Fiber 纤膏: Filling Compound for Fiber 金属中心加强件: Metallic Central Strength Member PBT 松套管: PBT Loose Tube PE 垫层: PE Layer 扎纱: Wrapping Yarn 阻水缆膏: Water-proof Filling Compound 皱纹钢塑复合带: Corrugated Steel-plastics **Compound Tape**

产品型号: GYSTCS

- 光纤松套管
- 金属中心加强件
- SZ 层绞缆芯内填充油膏
- 双面涂塑钢带粘结 PE 护套
- 钢绞线作自承

应用范围: 适用于长途通信和局间通信 **敷设方式**: 架空 适用温度: -40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及成缆 方式, 使光缆具有优良的机械性能和环境性能;
- 光缆结构紧凑,采用SZ 层绞结构,确保光缆在恶劣 的环境下,光纤不受到应力;
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果;
- 钢带纵包缆芯使光缆挡潮效果更为优良, 且有防弹 能力;
- 钢绞线作自承件满足极高的抗拉强度。

Type: GYSTCS

- Optic fiber in loose tube
- · Metallic central strength member
- · Filling compound for SZ stranded cable cores
- · Plastics- coated steel tape & PE sheath bound together
- · Stranded steel wire for self supporting unit

Application Range: for long distance & local communications Mounting Ways: aerial Application Temperature:-40℃~+60℃

Features:

- · with low transmission loss and dispersion
- · The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- · It could ensure moisture & water resistant performance of FOC with filling compound filled outside strength member and inside cable core.
- · It could ensure much better moisture & shooting-resistant performance of FOC with corrugated steel tape wrapping.
- It could ensure high tensile strength with stranded steel wire as self-supporting unit.

技术参数 **Technical Parameters**

光缆芯数	光缆外径 (mm)	光缆重量 最小弯 (kg/km) Min. Bendii EOC Weight		m)	(N)		允许压扁力最小值 (N/100mm) Min. Flattening Force	
FOC Core(s)	FOC Outer FOC Weight Diameter	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term	
2~36	11.8	275	120	240	8000	6000	3000	1000
38~72	13.4	311	140	280	8000	6000	3000	1000

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2-144 芯非金属松套层绞式光缆 2~144 Cores Non-metallic Loose Tube Stranded FOC



UV 固化光纤 Optic Fiber
纤膏: Filling Compound for Fiber
非金属加强件: Non-metallic FRP
PBT松套管 PBT Loose Tube
阻水缆膏 Water-proof Filling Compound
包带层 Wrapping Layer
芳纶纱 Kevlar
MDPE 外护套 MDPE Outer Sheath

产品型号: GYFTY

- 光纤松套管
- 非金属中心加强件(FRP)
- SZ 层绞缆芯内填充油膏
- PE 外护套
- 纺纶纱加强

应用范围: 适用于长途通信和局间通信和强电磁场所 **敷设方式**: 架空、管道、进局、槽道、电缆沟 适用温度: -40℃~+60℃

产品特点

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及成缆 方式,使光缆具有优良的机械性能和环境性能;
- 光缆结构紧凑,采用SZ层绞结构,确保光缆在恶劣的环境下,光纤不受到应力;
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果。
- 光缆柔韧性和抗弯曲能力优良;
- 光缆全为非金属结构,重量轻,敷设方便,抗电磁能力优良。

Type: GYFTY

- Optic fiber in loose tube
- Non-metallic FRP
- Filling compound for SZ stranded cable cores
- PE outer sheath
- Kevlar reinforcement

Application Range: for long distance & local communications with strong electromagnetic field effect Mounting Ways: for aerial mounting, or in pipe, tunnel, cable furrow, etc. Application Temperature:-40°C~+60°C

Features:

- with low transmission loss and dispersion
- The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- It could ensure moisture & water resistant performance of FOC with filling compound filled outside strength member and inside cable core.
- with better pliability
- The cable is of non-metallic structure, light and convenient for mounting, with better performance against electromagnetic effect.

技术参数 Technical Parameters

光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	最小弯曲半径 (mm) Min. Bending Radius		允许拉伸力最小值 (N) Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
FOC Core(s)	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} Short Term	^{ved} 长期 Long Term
2~36	11.0	98	110	220	1500	600	1000	300
38~72	12.5	130	130	260	1500	600	1000	300
74~144	15.0	260	160	320	1500	600	1000	300

<u>
安徽天康(集团)股份有限公司</u> Anhui Tiankang (Group) Shares Co., Ltd.

UV 固化光纤 Optic Fiber 纤膏: Filling Compound for Fiber 非金属加强件: Non-metallic FRP

包带层 Wrapping Layer 芳纶纱 Kevlar

PBT松套管 PBT Loose Tube 阻水缆膏 Water-proof Filling Compound

无卤阻燃护套 Flame-retardant & Halogen-

2-144 芯阻燃非金属松套层绞式光缆

2~144 Cores Flame-retardant, Non-metallic Loose Tube Stranded FOC



产品型号:GYFTZY

- 光纤松套管
- 非金属中心加强件(FRP)
- SZ 层绞缆芯内填充油膏
- 低烟无卤阻燃护套

应用范围:适用于长途通信和局间通信和强电磁场所 **敷设方式**:架空、进局、隧道 **适用温度:**-40℃~+60℃

产品特点

- 光纤传输损耗小、色散低。
- 合理的设计及精确的控制松套管中光纤的余长及成缆 方式,使光缆具有优良的机械性能和环境性能。
- 光缆结构紧凑,采用SZ层绞结构,确保光缆在恶劣的环境下,光纤不受到应力。
- 加强件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果。
- 光缆柔韧性和抗弯曲能力优良;
- 光缆全为非金属结构,重量轻,敷设方便,抗电磁能力优良。
- 阻燃效果好。

Type: GYFTZY

- Optic fiber in loose tube
- Non-metallic FRP
- Filling compound for SZ stranded cable cores
- Flame-retardant, low smoke & halogen-free sheath

free Sheath

Application Range: for long distance & local communications with strong electromagnetic field effect.

Mounting Ways: for direct mounting, or in tunnel, etc. Application Temperature:-40°C~+60°C

Features:

- with low transmission loss and dispersion
- The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of FOC.
- The close structure of SZ layer stranding prevents optic fiber from stress under bad environment.
- It could ensure moisture & water resistant performance of FOC with filling compound filled outside strength member and inside cable core.
- with better pliability
- The cable is of non-metallic structure, light and convenient for mounting, with better performance against electrmagnetic effect.
- with better flame-retardant performance.

技术参数 Technical Parameters

-	光缆芯数	光缆外径 (mm) (kg/km)		最小弯曲半径 (mm) Min. Bending Radius		允许拉伸力最小值 (N) Min. Tension Allowed		允许压扁力最小值 (N/100mm) Min. Flattening Force	
	OC Core(s)	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 知 Short Term	ved _{长期} Long Term
	2~36	11.0	126	110	220	1500	600	1000	300
	38~72	12.5	160	130	260	1500	600	1000	300
_	74~144	15.0	300	160	320	1500	600	1000	300







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无金属自承式光缆 | (ADSS) All Dielectric Self-Supporting FOC I (ADSS)



产品型号: GYFTCY

- 非金属加强件
- PE 内护套
- 松套层绞填充式
- 芳纶纤维加强
- 高强度、耐电痕护套

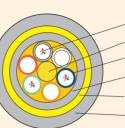
应用范围:可与高压电力线路同塔架设,也可用于电信系统 跨大江大河、崇山峻岭等地形复杂地带。

敷设方式:架空

适用温度: -40℃~+70℃

产品特点:

- 抗拉强度大,最大跨距可达1000米以上;
- •无金属材料,绝缘性能好;
- ◆ 特种外护套, 抗电腐蚀性强, 能与 200kV 及以上高 压线路同塔架设,
- 芳纶纤维加强, 抗冲击性能好, 可防弹;
- ◆ 重量轻;
- 施工维护方便(一般不需停电)。



光纤 Optic Fiber FRP(GRP) 松套管 Loose Tube 内护套 Inner Sheath 芳纶纤维 Aramid Yarn PE 外护套 PE Outer Sheath

Type: GYFTCY

- Non-metallic FRP
- PE inner sheath
- Loose tube stranded filled with jelly
- Aramid yarn reinforcement
- High strength, electric tracking-resistant sheath

Application Range: It could be installed on the same tower for high voltage power line, or used for telecom system lines spanning rivers and mountains.

Mounting Ways: for aerial mounting Application Temperature: -40°C~ +70°C

Features:

- With high tensile strength, installation span reaches more than 1000 meters to the maximum.
- Free from metallic material, with good insulation performance.
- Special outer sheath with strong resistance against electric corrosion. It could be laid on the same tower for high voltage line of 200KV or higher.
- Aramid yarn reinforcement with strong resistance against shock and bullet.
- With light weight
- Convenient for installation and maintenace (unnecessary for power supply stop)

跨距(m)	最小破断力(kN)	最大安全运行张(kN)	光缆模量 (10⁴N/mm²)	光缆标称外径(mm) Nominal Cable Outer	缆重(kg/m) Cable Weight	
Span	Min. Breaking Force	Max. Operation Tension	Cable Module	Diameter		
100	14.1	6.6	0.4			
200	22.3	10.5	0.6	14	0.17	
300	28.2	13.2	0.8			
400	44.7	17.6	1.2			
500	50.2	19.8	1.4	15	0.19	
600	55.9	22.0	1.5		0.19	
700	61.4	24.2	1.7			
800	67.0	26.4	2.1	16	0.22	
900	72.6	28.6	2.2	10	0.22	
<u> </u>	· /±					

参考气象条件

Weather Conditions for Reference

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10m/s风wind, 5mm冰ice; 25m/s风wind, 0mm冰ice

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项目 Items	实验条件 Test Conditions	指标 Indices	附加衰减 Additional Attenuation	光纤应变 Optic Fiber Strain
 拉伸张力 (N)	短期 Short-term	W	≼ 0.05dB	≤ 1.5‰
Tension	长期 Long-term	т	≼ 0.02dB	≤ 0.05%
压 扁 (N)	短期 Short-term	≥ 4000	≼ 0.05dB	
Crush	长期 Long-term	≥ 2000	≼ 0.02dB	
温度循环 Temperatuer Cycle	-40 ℃ ~ + 65 ℃	2 个循环 2cycles	≼ 0.10dB	
抗风力振动 Vibration Resistance	低频,小振幅 Low frequency, small amplictude	> 1 亿次 > one hundred million times	≼ 1.0dB	
渗水 Water Penetration	1m 缆 1m 水柱 24h 全截面 1m cable, 1m water depth, 24h, full cross section	无水渗出 No		
耐电痕 Electric Corrosion Resistance	4kV,3000SNaCL 溶液 + 0. 1% 活性剂>100 次喷射 More than 100 times spray of 3000S NaCL solution plus 0.1% activator under 4kV	护套无腐蚀痕迹 No		
小社家曲地名		20 倍缆径		
允许弯曲半径 Allowed Bending		20 times of cable diameter		
Radius	For installation 运行时	10 倍缆径 10 times of cable diameter		
允许侧压力	For operation 短期	≥ 4000		
(N/100mm) Allowed Side	Short-term 长期	≥ 2000		
Pressure	Long-term			·

注: W - 光缆使用地最恶劣气候条件下(覆冰、风力、高低温等) 并考虑实际使用环境(弧垂、跨距、高差等)时的理论值; T- 光 缆使用地年常见气候条件下(常见的覆冰、风力、高低温等)并 考虑实际使用环境(弧垂、跨距、高差等)时的理论值; W、T 值也可通过与用户协商后确定力值。

适用温度: -40℃~+70℃

在此温度范围内, 1310nm 和 1550nm 衰减系数变化不大于 0.05dB/km

电气及环境性能

光缆渗水性能:全截面阻水(可接受 L型水槽测试)

Remarks: W- ideal value for cable used under worst wether condition (covering ice, wind, extreme temperature, etc.) considering actual circumstances (drop, span,height difference, etc.); T- ideal value for cable used under common weather conditions (common covering ice, wind, extreme temperature, etc.) considering actual circumstances (drop, span, height difference, etc.)

W,T value could be confirmed through discussion with customers.

Application Temperature: -40°C+70°C; Attenuation coefficient change at 1310nm and 1550nm remains no more than 0.05dB/km within the range.

Electric & Environmental Performance Water Penetration Performance: water block for whole cross section(tested in L-shaped water rough)

联系人: 姚经理: 13685509377 E-mal: 115192082@qq.com



无金属自承式光缆 || (ADSS) All Dielectric Self-Supporting FOC || (ADSS)



产品型号: GYFXTCY

- 中心束管式
- PE 内护套
- 芳纶纤维加强
- 高强度、耐电痕护套

应用范围: 可与高压电力线路同塔架设,也可用于电信系统

跨大江大河、山峰等地形复杂地带。建议用于 300m 以下跨距。

- **敷设方式**: 架空
- 适用温度: -40℃~+70℃

产品特点:

- 抗拉强度大,最大跨距可达300米以上;
- •无金属材料,绝缘性能好;
- 特种外护套,抗电腐蚀性强,能与500KV及以上高 压线路同塔架设;
- 芳纶纤维加强, 抗冲击性能好, 可防弹;
- 外径小重量轻,对旧杆塔无太过份要求;
- 施工维护方便。

纤膏 FiberJelly 内护套 Inner sheath 芳纶纤维 Aramid yarn 松套 Loose tube 光纤 Fiber PE 外护套 PE sheath

Type: GYFXTCY

- Central tube type
- PE inner sheath
- Aramid yarn reinforcement
- High strength, electric tracking-resistant sheath

Application Range:

It could be installed on the same tower for high voltage power line, or used for telecom system lines spanning rivers and mountains. Span recommended is less than 300 meters.

Mounting Ways: for aerial mounting

Application Temperature: -40°C~+70°C

Features:

• With high tensile strength, installation span reaches more than 300 meters to the maximum.

• Free from metallic material, with good insulation performance.

• Special outer sheath with strong resistance against electric corrosion. It could be laid on the same tower for high voltage line of 500kV or higher.

• Aramid yarn reinforcement with strong resistance against shock and bullet.

• With small outer diameter and light weight ,without special demands on tower.

Convenient for installation and maintenace

跨距(m)	最小破断力(kN)	最大安全运行张(kN)	光缆标称外径 (mm)	缆重(kg/km)					
span	Min-Breaking Force	Max.operation Tension	Nominal CableOuter diameter	Cable weight					
50	6.3	2.8	11	105					
100	12.6	5.6	11	105 105					
150	18.9	8.4	11						
200	21.0	9.4	11	105					
250	24.2	10.8	11	105					
300	25.2	11.3	11	105					
参考气象条 Weather Co	⊱件 anditions for Reference	10m/s 风,5mm 冰;25m/s	s 风,0mm 冰10m/s wind,5mm	ice; 25m/s wind, 0mm ic					

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项目 Items	实验条件 Test Conditions	指标 Indices	附加衰减 Additional Attenuation	光纤应变
拉伸张力	短期 Short-term	W	≤ 0.05dB	Optic Fiber Strain ≤ 1.5‰
(N) Tension	长期 Long-term	Т	≼ 0.02dB	≤ 0.05‰
压 扁 (N)	短期 Short-term	≥ 4000	≼ 0.05dB	
Crush	长期 Long-term	≥ 2000	≼ 0.02dB	
温度循环 Temperatuer Cycle	-40 °C ~ + 65 °C	2 个循环 2cycles	≼ 0.10dB	
抗风力振动 Vibration Resistance	低频,小振幅 Low frequency, small amplictude	> 1 亿次 > one hundred million times	≤ 1.0dB	
渗水 Water Penetration	1m 缆 1m 水柱 24h 全截面 1m cable, 1m water depth, 24h, full cross section	无水渗出 No		
耐电痕 Electric Corrosion Resistance	4kV,3000SNaCL 溶液 + 0. 1% 活性剂>100 次喷射 More than 100 times spray of 3000S NaCL solution plus 0.1% activator under 4kV	护套无腐蚀痕迹 No		
	4KV	20 倍缆径		
允许弯曲半径		20 times of cable diameter		
Allowed Bending Radius	For installation 运行时	10 倍缆径		
	运门内 For operation 短期	10 times of cable diameter ≥ 4000		
(N/100mm) Allowed Side	Short-term 长期	≥ 2000		
Pressure	Long-term			

注: W - 光缆使用地最恶劣气候条件下(覆冰、风力、高低温等) 并考虑实际使用环境(弧垂、跨距、高差等)时的理论值; T- 光 缆使用地年常见气候条件下(常见的覆冰、风力、高低温等)并 考虑实际使用环境(弧垂、跨距、高差等)时的理论值; W、T值也可通过与用户协商后确定力值。

适用温度: -40℃~+70℃ 本地温度#田中 4240mm 取4550mm

在此温度范围内,1310nm 和1550nm 衰减系数变化不大于 0.05dB/ km

电气及环境性能

光缆渗水性能:全截面阻水(可接受L型水槽测试)

Remarks: W- ideal value for cable used under worst wether condition (covering ice, wind, extreme temperature, etc.) considering actual circumstances (drop, span,height difference, etc.); T- ideal value for cable used under common weather conditions (common covering ice, wind, extreme temperature, etc.) considering actual circumstances (drop, span, height difference,etc.)

W,T value could be confirmed through discussion with customers.

Application Temperature: -40°C+70°C; Attenuation coefficient change at 1310nm and 1550nm remains no more than 0.05dB/km within the range.

Electric & Environmental Performance Water Penetration Performance: water block for whole cross section(tested in L-shaped water rough)

联系人: 姚经理: 13685509377 E-mal: 115192082@qq.com





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8-144 芯中心管式光纤带光缆 8~144 Cores Central Tube Optic Fiber Ribbon Cable



光纤带 Optic Fiber Ribbon 纤膏: Filling Compound for Fiber PBT松套管: PBT Loose Tube 磷化钢丝: Phosphrated Steel Wire 阻水环 (热熔胶): Water-proof Ring (Heat-melting Glue) 钢塑复全带: Steel-plastics Compound Tape PE 外护套:PE Outer Sheath

产品型号: GYDXTW

- 中心松套管光纤带
- 皱纹纲带粘结 PE 护套
- 钢带与松套管之间热熔胶粘结
- PE 护套内加入双平行钢丝

应用范围:适用于长途通信和局间通信 **敷设方式**:架空、管道 适用温度:-40℃~+60℃

产品特点:

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及成缆 方式,使光缆具有优良的机械性能和环境性能;
- 光缆结构紧凑,钢带与松套管之间热熔胶粘为一体, 不仅确保了光缆防潮、阻水效果,而且保证了光缆 敷设后,松套管无回缩;
- 光纤带结构芯数高,钢带铠装抗压能力优良。

Type:GYDXTW

- Optic fiber ribon in central loose tube
- Corrugated steel tape bound PE sheath
- Steel tape & loose tube bound together with heatmelting glue
- 2 Pieces of paralleled steel wire within PE sheath

Application Range: for long distanc & local communications Mounting Ways: for aerial mounting or in pipe Application Temperature: $-40^{\circ}C \sim +60^{\circ}C$

Features:

- With low transmission loss and dispersion
- The reasonable design and precision control on fiber length in loose tube ensures better mechanical performance and adaptability to environment of the cable.
- The close structure woth steel tape & water resistant performance of the cable ,and prevent loose tube from contraction after mounting.
- It could ensure better performance of resisting press with steel tape armor.

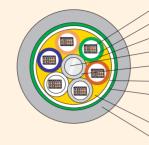
光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	最小弯 (m Min. Bendi	m)	允许拉伸 (N Min. Tensio	1)	允许压扁; (N/100 Min. Flatter	0mm) nina Force
FOC Core(s)	FOC Outer Diameter	FOC Weight	静 态 Static	动态 Dynamic	短期 Short Term	长期 Long Term	短期 ^{Allov} 短期 Short Term	^{ved} 长期 Long Term
2~36	14.8	243	300	450	3000	1000	3000	1000
48~72	15.8	289	320	480	3000	1000	3000	1000
84~96	16.3	298	350	525	3000	1000	3000	1000
108~144	18.3	377	400	600	3000	1000	3000	1000

技术参数 Technical Parameters

12-720 芯松套式光纤带光缆

12~720 Cores Loose Tube Stranded Optic Fiber Ribbon Cable





光纤带 Optic Fiber Ribbon 纤膏: Filling Compound for Fiber PBT 松套管: PBT Loose Tube 金属中心加强件: Metallic Central Strength Member PE 垫层: PE Layer 扎纱+无纺布: Wrapping Yarn+ Non-weaving Cloth 皱纹钢塑复合带: Corrugated Steel-plastics Compound Tape PE 阻水缆膏 Water-proof Cable Filling Compound PE 护套:PE Sheath

销售热线: 400-889-7700

sales@tiankang.com

产品型号: GYDTS

- 光纤带松套管
- 金属中心加强件
- SZ 层绞缆芯内填充油膏
- 双面涂塑钢带粘结 PE 护套

应用范围:适用于长途通信和局间通信

敷设方式:架空、管道、进局、槽道、电缆沟、直埋 适用温度: -40℃~+60℃

产品特点:

- 光纤传输损耗小、色散低;
- 合理的设计及精确的控制松套管中光纤的余长及成缆 方式, 使光缆具有优良的机械性能和环境性能;
- 光缆结构紧凑,采用SZ 层绞结构,确保光缆在恶劣 的环境下光纤不受到应力;
- 加使件外和缆芯内充满阻水缆膏,确保了光缆防潮、 阻水效果;
- 光纤带结构芯数高,钢带铠装抗压能力优良。

技术参数 **Technical Parameters**

Type:GYDTS

- Optic fiber ribbon in central loose tube
- Metallic central strength member
- · Filling compound for SZ stranded cable cores

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• Plastics-coated steel tape & PE sheath bound together

Application Range: for long distance & local communications Mounting Ways: for aerial mounting, direct burial, or in pipe, tunnell,cable furrow, etc.

Application Temperature:-40°C ~+60°C

Features:

- · With low transmission loss and dispersion
- The reasonable design and precision control on fiber I ength in loose tube ensures better mechanical performance and adaptability to environment of the cable.

• The close structure of SZ layer stranding prevents optic fiber

from stress under bad environment.

- It could ensure moisture & water resistant performance of the cable with filling compound filled outside strength member and inside cable core.
- It could ensure better performance of resisting press with steel tape armor.

光缆芯数	光缆外径 (mm)	光缆重量 (kg/km)	光纤带规格	绞合方式	允许拉伸 (N Min. Tensio	l)	允许压扁; (N/100 Min. Flatter)mm) Ding Force
FOC Core(s)	FOC Outer Diameter	FOC Weight	Staic	Dynamic	短期 Short Term	长期 Long Term	Allov 短期 Short Term	ved 长期 Long Term
12~144	18.5	6 芯带	六根绞	400	3000	1000	1000	300
144~192	20.6	12 芯带	四根绞	400	3000	1000	1000	300
216~288	22.0	12 芯带	四根绞	460	3000	1000	1000	300
288~432	25.9	12 芯带	六根绞	600	3000	1000	1000	300
480~576	29.1	12 芯带	六根绞	810	3000	1000	1000	300
600~720	32.1	12 芯带	六根绞	960	3000	1000	1000	300

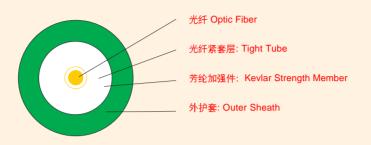


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通信用室(局)内软光缆

Soft Indoor FOC



产品型号: GJFJV

Type:GJFJV

应用范围:适用于尾纤及跳线,也可作为通信系统的光传输 线。 Application Range: It is suitable with pigtail and connector, or used as

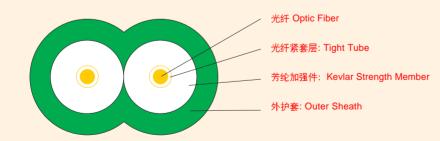
optic rtansmission media of communication system.

技术参数 Technical Parameters

光缆芯数 Cable Core (s)	光缆外径 (mm) Outer Diameter	短暂拉伸 (N) Short timeTension	长期拉伸 (N) Long-term Tension	短暂压扁 (N/10cm) Short-time Flattening Press	长期压扁 (N/10cm) Long-term Flattening Press	动态弯曲 半径 Dynamic Bending Radius	静态弯曲 半径 Static Bending Radius
1	2.0~2.8	150	80	500	100	20D	10D

注: D 表示光缆外径

Remarks: D refers to outer diameter of FOC.



产品型号: GJFVV

应用范围:

适用于尾纤及跳线,也可作为通信系统的光传输线。

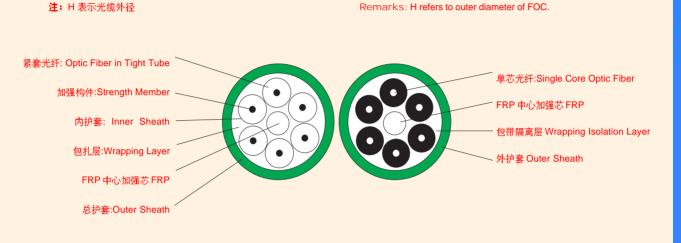
Type:GJFVV

Application Range:

It is suitable with pigtail and connector, or used as optic rtansmission media of communication system.

技术参数 Technical Parameters

光缆芯数 Cable Core (s)	光缆外径 (mm) Outer Diameter	短暂拉伸 (N) Short timeTension	长期拉伸 (N) Long-term Tension	短暂压扁 (N/10cm) Short-time Flattening Press	长期压扁 (N/10cm) Long-term Flattening Press	动态弯曲 半径 Dynamic Bending Radius	静态弯曲 半径 Static Bending Radius
2	6.6~3.7	300	160	1000	200	20H	10H



产品型号: GJFJVV

应用范围:

适用于尾纤及跳线,也可作为通信系统的光传输线。

Type:FJFJVV

Application Range:

It is suitable with pigtail and connector, or used as optic rtansmission media of communication system.

技术参数 Technical Parameters

光缆芯数 Cable Core (s)	光缆外径 (mm) Outer Diameter	短暂拉伸 (N) Short timeTension	长期拉伸 (N) Long-term Tension	短暂压扁 (N/10cm) Short-time Flattening Press	长期压扁 (N/10cm) Long-term Flattening Press	动态弯曲 半径 Dynamic Bending Radius	静态弯曲 半径 Static Bending Radius
2~72	用户协定	600	300	1000	200	20D	10D

注: D 表示光缆外径

Remarks: D refers to outer diameter of FOC.

联系人: 姚经理: 13685509377 E-mal: 115192082@qq.com



数字通信用对称对绞五类电缆

Symmetric Pair-twisted Category 5 Cable for **Digital Communication**

技术指标 (Technical Indices)

频率	衰减	近端串音	信噪比	特性阻抗	
Frequency	Attenuation	NEXT	ACR	Characteristic	
				Impedance	
MH ₂	dB/100m	dB	dB	Ω	
	<	>	>	-	
1	2.0	62	60.3		
4	4.1	53	49.2		
10	6.5	47	40.8		
16	8.2	44	36.1	100 ± 15	
20	9.2	43	33.5	-	
31.25	11.7	40	28.2		
62.5	17.0	35	18.4		
100	22.0	32	10.3		

特点

结构

适宜室内外架空和管道使用,可以防止潮气浸入; 标准阻燃聚乙烯或低烟无卤电缆结构; 支持10 Base T、100 Base、ATM、快速因特网、令 牌环、TP-PMD 语音、电话、多媒体各类网络应用; 保证近端串音(NEXT)和信噪比(ACR)性能。

0.511mm(24AWG-美国线规) 裸铜线, 聚乙烯(PE)绝

缘,两根绝缘导线扭绞成对,共四对,阻燃氯乙烯或

低烟无卤护套,根据性能及环境要求,可能加有聚酯

Features

It is installed aerially or in pipe indoor or outdoor resisting moisturel.

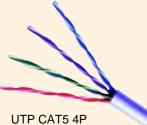
With standard flame-retardant PE or low smoke & halogenfree cable construction

To support network appliction including 10 Base T,100 Base T, ATM, Internet, Token-ring, TP-PMD Audio, telepone, multimedia, etc.

To ensure NEXT & ACR performance

Construction

0.511mm (24AWG) bare Cu wire, PE insulation, 4 pairs of 2 pieces insulated wire twisted, flame-retardant PVC or low smoke & halogen-free sheath. It is possible to add general shielding of polyester-Al foil or water-proof tape according to demands on performance and environment.



产品材料及编号 Material & Type

铝箔总屏或阻水带。

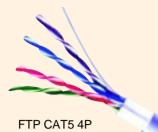
拉杏Shooth	产品编号Type					
护套 Sheath	灰Grey	桔 Orange	蓝 Blue	紫Violet		
 阻燃低烟无卤 Low smoke, halogen-free & flame-retardant	9054PL-1	9054PL-2	9054PL-3	9054PL-4		
阻燃 PVC Flame-retardant PVC	9054PZ-1	9054PZ-2	9054PZ-3	9054PZ-4		

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护套Sheath	产品编号Type					
护法Sheath	灰 Grey	桔Orange	蓝 Blue	紫 Violet		
阻燃低烟无卤 Low smoke, halogen free & flame-retardant	9154PL-1	9154PL-2	9154PL-3	9154PL-4		
阻燃 PVC Flame-retardant PVC	9154PZ-1	9154PZ-2	9154PZ-3	9154PZ-4		



拉在Shooth	产品编号Type					
护套 Sheath	灰Grey	桔 Orange	蓝 Blue	紫 Violet		
阻燃低烟无卤 Low smoke, halogen free & flame-retardant	9454PL-1	9454PL-2	9454PL-3	9454PL-4		
阻燃 PVC Flame-retardant PVC	9454PZ-1	9454PZ-2	9454PZ-3	9454PZ-4		



UTP CAT5 PATCH 4P(Undercarpet)

护套 Sheath	产品编号Type
阻燃 PVC Flame-resistant PVC	7054PZ

护套Sheath	产品编号Type
阻燃低烟无卤 Low smoke, halogen-free & flame-retardant	90525PL
阻燃 PVC Flame-retardant PVC	90525PZ



UTP CAT5 25P

护套 Sheath	产品编号Type
阻燃 PVC Flame-retardant PVC	8054PZ











颜色: PC 为蓝色, APC 为绿色。

可以在插座体上为客户制作标记。





FC

ST

SC Adapter

Color:blue for PC,green for APC We may add mark designated by customer onto socket body. Insert Loss < 0.3dB

FC 适配器

SC 适配器

可供圆形插座体。 原装日本瓷套管。 插入损耗<0.3dB.

插入损耗 < 0.3dB.

ST 适配器

防尘帽以蓝色为基本色。 插入损耗 < 0.3dB.

FC Adapter

That with circular socket is also available. Imported Japanese Ceramic Tube Insert Loss < 0.3dB

ST Adapter

Blue for Ditt-proof Cap Insert Length < 0.3dB



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光缆接续盒、终端盒 Junction Box & Terminal Box for FOC



光缆接续盒适用于各种结构光缆的架空、管道、直埋等 敷设方式之直通和分支连接。盒体采用进口增强塑料,强度 高, 耐腐蚀, 终端合适用于各种结构光缆的终端机房内的接 续,结构成熟,密封可靠,施工方便。

特 性

- 材料紧固耐用,可抵御各种恶劣环境。
- 适用于架空、管道、直埋的各类光缆工程。
- 可供12芯、24芯、48芯及144芯以上的光缆接续 工程。
- ・ 光纤曲率半径: ≥ 50mm
- ◆ 环境温度: -40℃~+55℃
- 大气压力: 70kPa~106kPa
- 使用寿命: 20 年
- ◆ 终端盒型号: GP05- 芯数

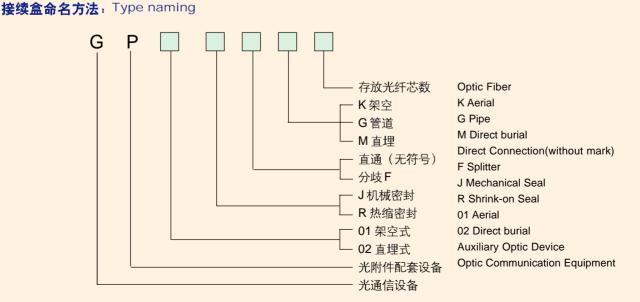


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The junction box is suitable for connection of FOCof various structure mounted aerially, in pipe or for direct burial. The box is made of imported reinforced plastics of high strength with corrosion-resistant performance. The terminal box closely sealed with sound structure, is suitable for connection of various FOC inside terminal machine room, and convenient for mounting.

Performance:

- The material of the boxes is durable for usage with strong adaptability to various bad environmental conditions.
- It is suitable for various rojects of FOC mounted aperially, in
 - pipe or for direct burial.
- The boxes for FOC with 12 cores,24cores,48cores or 144 cores more are also available.
- Optic Fiber Bending Radius:
- Environment Temperaature:
- Air perssure:
- · Life Expectancy:20 years
- Terminal Box Type:GP05-core number



联系人: 姚经理: 13685509377 E-mal: 115192082@gg.com

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光纤连接器 Optic Fiber Connector

特 性

- ◆ PC 球面研磨 /UPC 球面研磨 /APC 斜面研磨
- 插入损耗低
- 反射衰减高
- 标准金属件, 二氧化锆陶瓷插芯
- 光缆外径: 3.0mm,2.0mm,0.9mm

Characters

- PC Spherical Surface Polish/UPC Spherical Surface Polish/APC Spherical Surface Polish
- Low insert loss
- High reflection attenuation
- Standard metallic part,ZO2 ceramic insert core
- FOC Outer diameter

特 性

- 在 ODF 配线架实现分线
- 插入损耗低
- 反射衰减高
- 互换性好

Characters

- Splitting on ODF
- Low insert loss
- High reflection attenuation
- Better exchangeability

性 特

- ●插入损耗小
- ◆高回波损耗
- ◆高可靠性与稳定性

用 途

- 通信网络
 - 数据传输网
- 仪器仪表
- 计算机网络
- 室内布线



Application

- Communication network
- Data transmission network
- Optic instruments
- Computer network
- Wiring indoor



- ◆ 通信网络
- 数据传输网
- 仪器仪表
- 计算机网络

Application



用 途

- •光纤通信系统
- •光纤数据传输
- ◆光纤接入网
- ◆ 局域网
- ◆光纤 CATV
- ◆测试设备
- 光纤传感

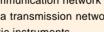


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- 用

- Communication network
- Data transmission network
- Optic instruments
- · Computer network





途

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Characters

- Low insert loss
- High return wave loss
- •High rebiability and satbility

Application

•Optic fiber communication system

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- •Optic fiber data transmission
- •Optic fiber connection network
- +LAN
- Optic fiber CATV
- Testing devices
- •Optic fiber sensor

产品类型	Туре	FC		SC	
)叩天宝		PC	APC	PC	APC
典型插入损耗(dB)	Typical insert loss	0.1	0.15	0.1	0.15
最大插入损耗(dB)	Max.Insert loss	0.25	0.3	0.25	0.3
典型插入损耗(dB)	Typical insert loss	53	67	53	67
最小回波损耗(dB)	Min.Return wave loss	48	63	48	63
工作温度(℃)	Working Temperature	-40~+75			
存储温度(℃)	Storage Temperature	-40~+85			

ST——弹性插口	FC ——螺纹	SC——插拔式
ST —— Spring Insert	FC —— Screw	SC — Plug

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特 性

可连接各种型号的连接器 采用耐用的防水接头,安装方便,可靠。 可根据需要选择不同的芯数。

技术指标

光纤连接器类型:FC、SC 插入损耗<0.2dB.</p>
回波损耗 PC>40dB UPC>50dB APC>60dB
工作温度: -40℃ ~ +80℃
光缆芯数: 2、4、6、8芯
光缆外径: Φ12mm
光缆长度:5米

应用

有线电视光纤网络 电信光纤用户网 计算机局域网

Characters

It is suitable for various connectors. The waterproof joint is stable and durable and convenient for installation The pigtail of different cores is available ad demands.

Technical Indices

Connector Type:FC,SC Insert loss:<0.2dB Return Wave Loss: PC>40dB UPC>50dB APC>60dB. Working Temperature:-40°C ~ + 80°C Cable Cores:2,4,6,8 cores FOC Outer Diameter:12mm FOC Length:5 meters

Application

CATV Network Telecommunication Network Local Area Network

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光缆型号的编制方法 Type Naming Method of FOC

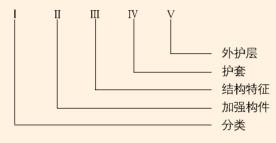
型号的构成

光缆型号由光缆型式的代号和规格的代号构成,用一空格分隔开。

型 式

型式的构成

光缆型式由5个部分构成,如下所示,其中结构特征 指缆芯结构和光缆派生特征。各部分均用代号表示。



分类的代号

GY 通信用室(野)外光缆

GJ 通信用室内光缆

加强构件的代号

(无符号)	金属加强构件
F	非金属加强构件
G	金属重型加强构件
Н	非金属重型加强构件

注:加强构件指护套以内用于增强光缆抗拉能力的构件。如果同时 有金属和非金属的加强构件,则只表示为金属构件特征。

结构特征的代号

光纤紧套被覆结构
光纤带结构
光纤松套被覆结构,可省略
层绞式
中心束管式结构
骨架式结构
油膏填充式结构
自承式结构
阻燃结构
护套椭圆截面(无符号为圆截面)

注: 当光缆形式有几个特征需要注明时,其组合代号为相应的各代 号依上列顺序排列。

Type Code Composition

FOC code consists of code of cable type and that of specification with space mark for separation.

Туре

Type Composition

FOC type code consists of five parts as follows among which structural character refers to cable core structure and derived characters.

Outer Sheath
Sheath
Structural Character
Strength Member
Category

Category Code

GY Communication Field FOC GJ Indoor FOC

Strength Member Code

(without mark) Metallic Strength Member

- F Non-metallic Strength Member
- G Heavy Type Metallic Strength Member
- H Heavy Type Non-etallic Strength Member

Remarks:Strength member refers to that for improvement of tensile strength of FOC underneath sheath,Only metallic strength member is indicated with code if FOChas both metallic and non-metallic strength members.

Strength Character Code

J T	Fight Tube	Structure
-----	------------	-----------

- D Optic Fiber Ribbon Structure
- S Loose Tube Structure, omissible
- (Without mark) Tubes Stranded Structure
- X Central Tube Structure
- G Framework Structure
- T Filling Compound Filling Structrue
- C Self-supporting Structure
- Z Flame-retardant Structure
- E Sheath with Oval Cross Section(without E for that of circular cross section)

RemarksWhen certain codes are added to indicate characters of FOC, they should be arranged in code order above.



纤光 缆 Optic Fiber & Fiber Optic Cab

光



A Car

护套的代号

Υ	聚乙烯护套
W	夹带钢丝钢聚乙烯粘结护层
А	铝聚乙烯粘结护套(简称 A 护套)
S	钢聚乙烯粘结护套(简称 S 护套)
G	钢护套
Q	铅护套
V	聚氯乙烯护套
L	日本 · · · · · · · · · · · · · · · · · · ·
U	聚氨酯护套

外护层的代号

参照 GB T2952.1 中表 1 的规定,用数字表示。光缆 常用代号 表 1 光缆常用外护层代号

Type Code Composition

PE Sheath
PE & Steel Wire Binding Layer
PE & AI Tape Binding Layer(abbreviated as Sheath A))
PE & Steel Tape Binding Layer(abbreviated as Sheath S)
Steel Sheath
Lead Sheath
PVC Sheath
AL Sheath
Polyurethane Sheath

Outer Sheath Code

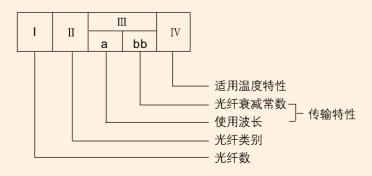
We adopt digits for outer sheath code in Form 1 with reference to GB T2952.1 standard. Form 1 FOC Outer Sheath Codes

代号铠装层外被层或外套codeArmor LayerOuter Layer/Sheath0无铠装层 (有外被层或外套) No Armor(with Outer Layer/Sheath)1纤维外被 Fiber Layer2绕包双钢带 Double wrapping Steel TapePVC Sheath3単细圆钢丝 Single Thin Circular Steel WirePE Sheath3双细圆钢丝 Double Thin Circular Steel WirePE Sheath4単粗圆钢丝 Single Thick Circular Steel WirePE Sheath4如粗圆钢丝 Single Thick Circular Steel WirePE Sheath4並粗圆钢丝 Single Thick Circular Steel WirePE Sheath4近如图钢丝 Single Thick Circular Steel WirePE Sheath44双粗圆钢丝 Double Thick Circular Steel WirePE Sheath & Nylon Sheath5皱纹钢带 Corrugated steel TapePE Sheath			
0 无铠装层 (有外被层或外套) No Armor(with Outer Layer/Sheath) 1 纤维外被 Fiber Layer 2 绕包双钢带 Double wrapping Steel Tape 3 単细圆钢丝 Single Thin Circular Steel Wire 33 双细圆钢丝 Double Thin Circular Steel Wire 4 単相圆钢丝 ExcM套 4 算相圆钢丝 Double Think Circular Steel Wire 4 算相圆钢丝 ExcM套加聚尼龙套 5 皱纹钢带	代号	铠装层	外被层或外套
0 No Armor(with Outer Layer/Sheath) 1 纤维外被 Fiber Layer 2 绕包双钢带 Double wrapping Steel Tape 2 印金包双钢带 Double wrapping Steel Tape 3 单细圆钢丝 3 算細圆钢丝 33 双细圆钢丝 33 Double Thin Circular Steel Wire 4 单粗圆钢丝 9 聖紅鳳钢丝 9 聖紅鳳钢丝 9 聖紅鳳钢丝 9 聖祖鳳钢丝 9 聖祖鳳钢丝 9 聖紅鳳钢丝 9 聖乙烯套加聚尼龙套 1 双相圆钢丝 9 聖乙烯套加聚尼龙套 9 Double Thick Circular Steel Wire 9 PE Sheath & Nylon Sheath 4 双相圆钢丝 9 聚乙烯套加聚尼龙套 9 Double Thick Circular Steel Wire 9 PE Sheath & Nylon Sheath 9 聚乙烯套加聚尼龙套 9 医heath & Nylon Sheath 9 聚乙烯套加聚尼龙套 9 夏 9 聖公/網索	code	Armor Layer	Outer Layer/Sheath
No Armor(with Outer Layer/Sheath) 纤维外被 1 纤维外被 2 绕包双钢带 2 狼包双钢带 3 單細圆钢丝 3 單細圆钢丝 33 又细圆钢丝 33 双细圆钢丝 4 單相圆钢丝 9 聖紅鳳钢丝 9 聖紅鳳钢丝 9 聖紅鳳钢丝 9 聖和圓钢丝 9 聖和圓钢丝 1 聖和圖钢丝 1 聖和圖钢丝 1 聖和圖钢丝 1 聖和圖钢丝 1 聖和圖钢丝 1 聖和圖钢丝 <td></td> <td>无铠装层(有外被层或外套)</td> <td></td>		无铠装层(有外被层或外套)	
1 Fiber Layer 2 绕包双钢带 聚氯乙烯套 Double wrapping Steel Tape PVC Sheath 3 单细圆钢丝 聚乙烯套 3 X細圆钢丝 聚乙烯套 33 双细圆钢丝 聚乙烯套 33 双细圆钢丝 聚乙烯套 34 双细圆钢丝 聚乙烯套 35 Double Thin Circular Steel Wire PE Sheath 4 单粗圆钢丝 聚乙烯套加聚尼龙套 4 X粗圆钢丝 聚乙烯套加聚尼龙套 44 双粗圆钢丝 聚乙烯套加聚尼龙套 5 皱纹钢带 聚乙烯保护套	0	No Armor(with Outer Layer/Sheath)	
Provide Fiber Layer 2 绕包双钢带 聚氯乙烯套 Double wrapping Steel Tape PVC Sheath 3 单细圆钢丝 聚乙烯套 3 Single Thin Circular Steel Wire PE Sheath 33 双细圆钢丝 聚乙烯套 Double Thin Circular Steel Wire PE Sheath 4 单相圆钢丝 聚乙烯套加聚尼龙套 5 皱纹钢带 聚乙烯保护套	4		纤维外被
2 Double wrapping Steel Tape PVC Sheath 3 单细圆钢丝 聚乙烯套 3 Single Thin Circular Steel Wire PE Sheath 33 双细圆钢丝 聚乙烯套 33 Double Thin Circular Steel Wire PE Sheath 4 单相圆钢丝 聚乙烯套加聚尼龙套 4 算相圆钢丝 聚乙烯套加聚尼龙套 4 双相圆钢丝 聚乙烯套加聚尼龙套 44 双相圆钢丝 聚乙烯套加聚尼龙套 5 皱纹钢带 聚乙烯保护套	1		Fiber Layer
Double wrapping Steel Tape PVC Sheath 3 单细圆钢丝 聚乙烯套 3 Single Thin Circular Steel Wire PE Sheath 33 双细圆钢丝 聚乙烯套 33 Double Thin Circular Steel Wire PE Sheath 4 单粗圆钢丝 聚乙烯套 4 单粗圆钢丝 聚乙烯套加聚尼龙套 5 氢纹钢带 聚乙烯套加聚尼龙套	0	绕包双钢带	聚氯乙烯套
3 Single Thin Circular Steel Wire PE Sheath 33 双细圆钢丝 聚乙烯套 33 Double Thin Circular Steel Wire PE Sheath 4 单粗圆钢丝 聚乙烯套加聚尼龙套 4 Single Thick Circular Steel Wire PE Sheath & Nylon Sheath 44 双粗圆钢丝 聚乙烯套加聚尼龙套 5 皱纹钢带 聚乙烯保护套	2	Double wrapping Steel Tape	PVC Sheath
Single Thin Circular Steel Wire PE Sheath 33 双细圆钢丝 聚乙烯套 Double Thin Circular Steel Wire PE Sheath 4 单粗圆钢丝 聚乙烯套加聚尼龙套 4 Single Thick Circular Steel Wire PE Sheath 44 双粗圆钢丝 聚乙烯套加聚尼龙套 43 双粗圆钢丝 聚乙烯套加聚尼龙套 44 双粗圆钢丝 聚乙烯套加聚尼龙套 5 皱纹钢带 聚乙烯保护套	3	单细圆钢丝	聚乙烯套
33 Double Thin Circular Steel Wire PE Sheath 4 单粗圆钢丝 聚乙烯套加聚尼龙套 4 Single Thick Circular Steel Wire PE Sheath & Nylon Sheath 44 双粗圆钢丝 聚乙烯套加聚尼龙套 5 皱纹钢带 聚乙烯保护套		Single Thin Circular Steel Wire	PE Sheath
Double Thin Circular Steel Wire PE Sheath 4 单粗圆钢丝 聚乙烯套加聚尼龙套 4 Single Thick Circular Steel Wire PE Sheath & Nylon Sheath 44 双粗圆钢丝 聚乙烯套加聚尼龙套 5 皱纹钢带 聚乙烯保护套	22	双细圆钢丝	聚乙烯套
4 Single Thick Circular Steel Wire PE Sheath & Nylon Sheath 44 双粗圆钢丝 聚乙烯套加聚尼龙套 44 Double Thick Circular Steel Wire PE Sheath & Nylon Sheath 5 皱纹钢带 聚乙烯保护套	33	Double Thin Circular Steel Wire	PE Sheath
Single Thick Circular Steel Wire PE Sheath & Nylon Sheath 44 双粗圆钢丝 聚乙烯套加聚尼龙套 Double Thick Circular Steel Wire PE Sheath & Nylon Sheath 5 皱纹钢带 聚乙烯保护套	4	单粗圆钢丝	聚乙烯套加聚尼龙套
44 Double Thick Circular Steel Wire PE Sheath & Nylon Sheath 5 皱纹钢带 聚乙烯保护套		Single Thick Circular Steel Wire	PE Sheath & Nylon Sheath
Double Thick Circular Steel Wire PE Sheath & Nylon Sheath 5 皱纹钢带 聚乙烯保护套	44	双粗圆钢丝	聚乙烯套加聚尼龙套
5		Double Thick Circular Steel Wire	PE Sheath & Nylon Sheath
Corrugated steel Tape PE Sheath	5	皱纹钢带	聚乙烯保护套
		Corrugated steel Tape	PE Sheath

规格

规格的构成

光缆规格由四大部分构成,如下所示。各部分均用 代号表示,相邻的各大部分的代号都是数字时,用 规定符号把它们隔开



Specification

Composition

The specification code consists of fours maior parts as the following. If the digits of the code are neighboring,the stipulated symbol should be adopted for their separation

Application Temperature Character Attenuation Constant Application Wavelength - Transmission Character Optic Fiber Category Optic Fiber Number

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光纤数的代号

用光缆中类别光纤的实际有效数目的数字表示。必 要时,也可用以松套管数和每管光纤数为基础的计 算式并加圆括号来表示。

例如: 18可用(3×6)或(2×8+1×2)等表示。

光纤类别的代号

光纤类别的代号

单模光纤类别就采用它的产品分类代号 B 表示,多 模光纤采用产品分类号 A 表示,再以数字表示不同 种类的光纤。

常用代号如下:

- B1.1 二氧化硅(普通)单模光纤(B1.1可简称为 B1)
- B1.2 二氧化硅系1550nm低损耗单模光纤
- B2 二氧化硅系色散位移单模光纤
- B4 二氧化硅系非零色散位移光纤
- A1a 二氧化硅系50/125μm多模光行
- A1b 二氧化硅系62..5/125μm多模光纤

必要时在光纤类别代号后,可注明单模光纤模场直 径标称值 (μm),并用"/"与类别代号划开。

光纤传输特性的代号

单模光纤传输特性的代号由 a 及 bb 两组数字代号 构成,放在圆括号内。其中: a 表示使用波长的代号,是一位数。其数字代号规

а 农小使用波区的代生,是一位数。英数于代生》 定如下:

- 2 使用波长在1310nm区域
- 3 使用波长在1550nm区域

bb 表示衰减系数的代号,是两位数。其数字依次 为光缆中单模光纤的衰减系数(dB/km)分类数值 的十分位和百分位数字。

例如:使用波长在1310nm区域,光缆中光纤衰 减常数不大于0.36dB/km的单模光纤,传输特性 代号为:(236)。同一光缆适用于两种及以上波 长,并具有不同传输特性时,应同时列出各波长上 的规格代号,并用"/"划开。例如:(236/322)

A3.5 适用温度特性的代号

适用温度特性的代号由表1所列温度范围代号 (A、B、C)和一个数字代号组成,该数字代号为 在此温度范围内光缆允许附加衰减值的分级号为0,可省略。

例1:在 - 20℃-+60℃温度范围内, 光缆最大允许 附加衰减值为1级(0.10dB/2km),则代号为C1 例2:在 - 40℃-+60℃温度范围内, 光缆无明显附 加衰减, 则代号为A0,可省略为A。

Optic Fiber Number Code

It is indicated with the actual figured of optic fiber in FOC. It is also indicated with the calculation formula in circular brackets as the example if neccessary.

for example,(3 \times 6) of (2 \times 8+1 \times 2) for18.

Optic Fiber Category Code

Code B means single-mode optic fiber, and code Ameans multi-mode optic fiber.

The digits as the following should be attached to the code to further indicate different category of optic fiber.

Common Code

SiO2(Common)Single-mode Optic Fiber(or abbreviated as B1)

SiO21550nm Low Loss Single-mode Optic Fiber

SiO2 Dispersion Shift Single-mode Optic Fiber

SiO2 Non-zero Dispersion Shift Single-mode Optic Fiber SiO2 50,125µm Multi-mode Optic Fiber

Transmission Characters Code

The code of single-mode optic fiber consists of "a",onedigit figure and "bb",a twodigit figure in circular brackets. "a" represents wavelength in application as follows:

- 2 at wavelength 1310nm
- 3 at wavelength 1550nm

"bb" represents attenuation coefficient,and is 100 times of the actual attenuation coefficient value(dB/km).

for example: If the attenuation constant of optic fiber in FOC is no more than 0.36dB/km at wavelength 1310nm, the code" (236)" should be adopted. If the same FOC has different transmission characters at two or more kinds of wavelength, all codes at different wavelengths should be indicated and marked with "/" for their separation.

A3.5 Application Temperature

Characcters Code

The code consists of a code of temperature range listed in Form 1(A,B,C)and a digit code. The digit code is omissible if the allowed additional attenuation grade within the temperature range is "0".

Example 1:If the allowed additional attenuation grade within temperature range of -20° C ~+60 $^{\circ}$ C is "1",the code "C1" should be adopted.

Example 2:If the FOC has no obvious additional attenuation within temperature range of -20 °C ~+60 °C, the code" A0" may be adopted or omitted as" A"



光

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光缆运输、敷设及安装注意事项 Cautions in Transportation & Mounting of FOC

- 1、装有光缆的光缆盘应按盘侧板面所标示的方向进行 滚动,滚动距离不宜过长,一般不宜超过20米,滚 动时应注意防止障碍物损坏包装板。
- 2、装卸光缆时应使用铲车等起重设备或特别台阶,严 禁光缆盘从车上直接滚下或抛下。
- 3、严禁装有光缆的光缆盘平放或叠放,在车厢内的光 缆盘均需设防滑木块。
- 4、光缆不宜多次倒盘,以免影响光缆内部结构的完好 性、光缆敷设前应进行外观检查、核对规格型号、 数量、测试长度和衰减等单盘检验和验收、每盘光 缆在护板上附有产品出厂检验合格证书(应妥善保 管,以便日后查询),拆卸光缆护板时谨防损坏光缆。
- 5、在施工过程中应注意光缆的弯曲半径不得小于施工 规定,光缆不允许出现过度弯曲。
- 6、布放架空光缆应通过滑轮牵引,架空光缆应避免与 建筑物、树木及其它设施磨擦,避免拖地或与其他 擦而损伤光缆外皮,必要时应安装保锐硬磨护措施。 严禁光缆跳出滑轮后强行牵引,以防光缆被压扁损 坏。
- 7、在光缆线路设计时应尽量避开易燃建筑物如无法避 免,光缆应采取防火保护措施。
- 8、在段长比较长的光缆布放施工中,如需倒盘,光缆 必须遵循"8"字盘放。使其光缆完全处于无扭状态。
- 9、光缆接头终结盒的选用必须符合 YD/T814-1996 和 YD/T925-1997标准要求的合格接头终结盒,确保 光纤在盒内的曲率半径不小于 37.5mm,光纤在盒内 余留长度不小于1.6m,光缆的加强件牢固的固定在 盒上,光缆与盒之间不会发生扭动,盒体密封性能 优良,能够阻止水气的进入。
- 10、在光缆连续时, 接头衰减应以 OTDR 双向测试平 均值为准。
- 11、光缆敷设完成,如不能及时连续处理,应将光缆 两端头密封,以防止水气侵害光纤。
- 12、在光缆连续时,若多次连续不下来,建议剪掉一 段后再接续(因施工时光缆端头有可能受到机械 损伤)。
- 13、光缆连接完成, 宜在光缆接头盒两端预留适量的 光缆,并且牢固的盘在余缆架上。

1. The user should roll cable frum with FOCin the direction indicated on drum flange board within short distance of nomore than 20 meterson alert against damate of barriers on more than 20 meters on alert against damage of barriers on package wooden board.

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2. The user should adopt Ifting machines such as pork lift of special steps for loadin and unloading cable drum with FOC. Direct rolling or throwing of cable drum with FOC from the truck should be strictly forbidden.

3. It should be strictly forbidden to lay down or pile up cable drum with FOC. The woodboard should be put under drum wheels to revent drum from sliding in truck carriage.

4. The user should avoid repeatedly reeling out FOC in order to keep cable inner structure intact. The user should check outer appearance,type & specification,quantity,length,and attenuation of FOC drum flange board, (The certificate should be kept well for further check later.)The user should keep alert against damage on FOC in dismantling protection package board.

5. The user should avoid over bending FOC in mounting with paying attention to the bending radius of FOC, which should be no smaller than that stipulated for mounting,

6. In mounting aerial FOC, the user should draw cable on pulley and avoid friction with building, tree, and other facilities and drawing cable on the ground or friction with sharpedged objects to keep cable from damage on its outer sheath. The pretection measures should be taken if necessary. It is strictly forbidden to roughly

draw cable after FOC slide out from pulley in order to keep cable from damage.

7. The user should keep it from inflammable buildings as possible as you can in FOC line design. If it is unavoudable, the measures should be taken to keep FOC from fire.

8. The user should lay down the cable in "8" shape to keep it from twisting for pieces of long FOC in installation.

9. The user should adopt qualified connection and terminal boxes stipulated in YD/T814-1996 & YD/T925-1997 to ensure that bending radius of optic fiber in the boxes be no smaller than 37. 5mm, remaining fiber length no smaller than 1.6m, and strength member of FOCstrongly fixed to the box. The boxes should be moisture-proof withbetter sealing performance.

10. The average tested value with OTDR in double direction should be adopted as connection attenuation value in FOC connection. 11.After completion of laying FOC, if the user could not timely connect the cable,both ends of FOCshould be sealed to keep cable from moisture.

12.If the user fails many times in FOC connection, it is suggested to cut off a section of FOC for connection again, (There is possibility that FOC heads suffered mechanical damage during installation.) 13.After connection completion, the user had better reserve suitably long FOC at both ends of connectionbox and fixed it strongly to the rack.