TIANKE CABLE

光缆类

Fiber optic cable

单模 G.652 光纤产品主要性能指标
Main Performance Index of Single Mode G.652 Optical Fiber

B1.1 类和 B1.3 类单模光纤的技术指标
B1.1 and B1.3 single-mode fiber type of technical indicators

二氧化硅系 G.652 单模光纤的技术指标符合 GB/T 9771-2008 标准的规定，测试方法符合 GB/T15972-2008 标准规定。
The specifications of the G.652 single-mode silica fiber are in accordance with GB / T 9771-2008. The test method complies with GB / T15972-2008 standard.

项目 Item		条件 Condition	指标 Index	单位 Unit
几何尺寸 Geometric dimensions	包层直径 Cladding diameter		125.0 ± 1.0	μm
	包层不圆度 Cladding is not roundness		≤ 1.0	%
	涂层直径 Coating diameter		242.0 ± 7.0	μm
	涂层 / 包层同芯度误差 Coating / cladding with the core of the error		≤ 12.0	μm
	涂层不圆度 Coating is not roundness		≤ 6.0	%
	芯 / 包同芯度误差 Core / package core with the degree of error		≤ 0.6	μm
光学特性 Optical properties	模场直径 Mode Field Diameter (MFD)	@ 1310 nm	9.2 ± 0.4	μm
		@ 1550 nm	10.4 ± 0.8	μm
	光缆截止波长 λcc Cutoff wavelength of cable λcc		≤ 1260	nm
	衰减 Attenuation	@ 1310 nm	≤ 0.36	dB / km
		@ 1550 nm	≤ 0.22	dB / km
	波长范围内的色散 Dispersion in the wavelength range	@ 1285 ~ 1340 nm	≥ -3.0 ≤ 3.0	ps / (nm • km)
		@ 1550 nm	≤ 18	ps / (nm • km)
	零色散波长 Zero – dispersion wavelength		≥ 1302 ≤ 1322	nm
	零色散斜率 S0max Zero dispersion slope S0max		≤ 0.091	Ps / (nm^2 • km)
	偏振模色散系数 (PMD) Polarization Mode Dispersion Coefficient			
		单根光纤最大值 Single fiber maximum	≤ 0.2	ps /√km
		光纤链路值 Fiber link value	≤ 0.08	ps /√km
机械特性 Mechanical properties	筛选张力 Screening tension	离线 Offline	≥ 9.0	N
	翘曲度 (半径) Warpage (radius)		≥ 4	m
	宏弯附加衰减 Macro bend additional attenuation	@ 1550nm		
		1 圈 (Lap)，ϕ32mm	≤ 0.50	dB
		100 圈 (Lap)，ϕ60mm	≤ 0.05	dB
	涂层剥离力 Coating peeling force	典型平均值 Typical average	1.7	N
		峰值 Peak	≥ 1.3 ≤ 8.9	N
	动态疲劳参数 Dynamic fatigue parameter (nd)	典型值 Typical values	≥ 27	
环境特性 Environmental characteristics	温度附加衰减 Temperature additional attenuation	-60℃ ~ +85℃	≤ 0.05	dB
	浸水附加衰减 Additional attenuation of flooding	20℃，30 天	≤ 0.05	dB

TIANKE CABLE

单模 G.655 光纤产品主要性能指标
Main Performance Index of Single Mode G.652 Optical Fiber

B4 单模光纤的技术指标
B4 single-mode optical fiber technical indicators

二氧化硅系 G.655 单模光纤的技术指标符合 GB/T 9771-2008 标准的规定，测试方法符合 GB/T15972-2008 标准规定。
The specifications of the G.655 single-mode silica fiber are in accordance with GB / T 9771-2008. The test method complies with GB / T15972-2008 standard.

项目 Item		条件 Condition	指标 Index	单位 Unit
几何尺寸 Geometric dimensions	包层直径 Cladding diameter		125.0 ± 1.0	μm
	包层不圆度 Cladding is not roundness		≤ 1.0	%
	涂层直径 Coating diameter		245 ± 10	μm
	涂层 / 包层同芯度误差 Coating / cladding with the core of the error		≤ 12.0	μm
	涂层不圆度 Coating is not roundness		≤ 6.0	%
	芯 / 包同芯度误差 Core / package core with the degree of error		≤ 0.8	μm
光学特性 Optical properties	模场直径 Mode Field Diameter (MFD)	@1550nm	9.6 ± 0.5	μm
	光缆截止波长 λcc Cutoff wavelength of cable λcc		≤ 1480	nm
	衰减 Attenuation	@1550nm	≤ 0.22	dB / km
		@1625nm	≤ 0.25	dB / km
	波长范围内的色散 Dispersion in the wavelength range	@1530 ~ 1565nm	≤ 1.8 ~ 6.0	ps / (nm・km)
		@1565 ~ 1625nm	≤ 4.5 ~ 11.2	Ps / (nm・km)
	零色散波长 Zero – dispersion wavelength		≤ 1520	nm
	零色散斜率 S0max Zero dispersion slope S0max		≤ 0.092	Ps / (n ㎡ .km)
	偏振模色散系数 (PMD) Polarization Mode Dispersion Coefficient		≤ 0.2	ps /√ikm
	有效群折射率 Effective group refractive index (Neff)	@1550nm	1.469	ps /√ikm
机械特性 Mechanical properties	筛选张力 Screening tension	离线 Offline	≥ 9.0	N
	宏弯附加衰减 Macro bend additional attenuation	@1550nm&1625nm		
		1 圈 (Lap)，φ32mm	≤ 0.50	dB
		100 圈 (Lap)，φ75mm	≤ 0.05	dB
	涂层剥离力 Coating peeling force	典型值 Typical values	1.4	N
	动态疲劳参数 Dynamic fatigue parameter (nd)	典型值 Typical values	≥ 20	
环境特性 Environmental characteristics	温度附加衰减 Temperature additional attenuation (△ α)	-60℃ ~ +85℃	≤ 0.05	dB
	浸水附加衰减 Additional attenuation of flooding	20℃ .30 天	≤ 0.05	dB

光纤系列型号说明
Optical Fiber Series Model Description

GJ	B	F	J	H	—	2	A1a
分类 Classification	光缆子分类 Cable sub – classification	加强件 Reinforcement	结构 Structure	护套 Jacket		光纤芯数 Number of fiber cores	光纤类型 Fiber type

分类 Classification
- GY——室外光缆 Outdoor cable
- GJ——室内光缆 Indoor cable
- GYC——气吹微缆 Air–blown micro–cable
- GYL——路面微槽敷设光缆 Pavement micro–trough laying optical cable
- GYP——防鼠啮排水管道缆 Rodent – proof drain pipe
- GD——光电混合缆 Optical hybrid cable
- GJX——蝶形引入缆 Butterfly – shaped lead – in cable

光缆子分类 Cable sub – classification
- B——分支 Branch
- P——束状 Beam

加强件 Reinforcement
- 无符号——金属 Unsigned – metal
- F——非金属 Non–metallic

结构 Structure
- J——紧套结构 Tightening structure
- X——中心管结构 Central tube structure
- C——自承式 Self–supporting
- Z——阻燃 Retardant
- D——光纤带 Fiber optic ribbon
- B——扁平 Flat
- G——骨架槽结构 Skeleton groove structure

护套 Jacket
- V——聚氯乙烯护套 PVC sheathed
- U——聚氨酯护套 Polyurethane sheathing
- H——低烟无卤阻燃护套 Low smoke zero halogen flame retardant jacket
- Y——聚乙烯护套 Polyethylene sheath

光纤芯数 Number of fiber cores
- 光纤数量 Number of fibers

光纤类型 Fiber type
- A1a——50/125um 多模光纤 Multimode fiber
- A1b——62.5/125um 多模光纤 Multimode fiber
- OM3 系列——万兆多模光纤 OM3 Series – 10 Gigabit Multimode Fiber
- B1——G.652B 单模光纤 Single–mode fiber
- B1.3——G.652D 单模光纤 Single–mode fiber
- B4——G.655 单模光纤 Single–mode fiber
- B6a1——G.657.A1 单模光纤 Single–mode fiber
- B6a2——G.657.A2 单模光纤 Single–mode fiber

光纤色谱说明
Description of Optical Fiber Chromatography

瑞威光缆中光纤色谱采用全色谱，其颜色符合 IEC 60304 国际标准，规定色谱颜色排列顺序如下：

Ruiwei fiber optic cable in full–color chromatography, its color in line with IEC60304 international standards, the provisions of chromatography color order is as follows:

颜色 Colour	蓝	橙	绿	棕	灰	白	红	黑	黄	紫	粉红	青绿
代号 Code	B	OR	G	BR	GR	W	R	BL	Y	V	P	AQ

各型式光缆适用敷设方式和条件

The Type of Cable for Laying Methods and Conditions

主要形式 Main form	派生形式 Derived form		适用敷设方式和条件 Applicable laying methods and conditions										
	阻燃 Retardant	防蚁 Anti-ants	进局 Into the Council	管道 Pipeline	槽道 Channel	隧道 Tunnel	电缆沟 Cable trench	架空 Over-head	直埋 Buried	竖井 Shaft	水下 Under-water	深水下 Deep under-water	强电磁危害 Strong electromagnetic hazard
GYXTW53			√				√		△				
		GYXTW54							△				
GYXTS			√	△			√	△	√				
	GYXTZS		△	√		△	√	√					
		GYXTS04		△				△	√				
GYTA			√	△	√		√	△					
		GYTA04		△				△					
	GYTZA		△			△		△					
GYTA53			√				√		△				
		GYTA54							△				
GYTA33			√						△	√	△		
		GYTA34							△				
	GYTZA33									△			
GYTA333											△		
GYTS			√	√	√		√	√	△				
		GYTS04		√				√	△				
	GYTZS		△			△		△					
GYTS333											△	√	
GYTS43											△	√	
GYTY53			√	√	√		√	△	△				
		GYTY54		√				△	△				
	GYTZY53		△			√		△					
GYFTY			√	△	√		√	△					△
		GYFTY04		△				△					△
	GYFTZY		△			△		△					△
GYDXTW			√	△			√	△	△				
		GYXTW04		△				△	△				
GYDXTW													
				△	√								
		GYDXTW04		△									
	GYDXTZW		△			△		△					
GYDTA			√	△	√		√	△					
		GYDTA04		△				△					
	GYDTZA		△			△		△					
GYXTY			√	△			√	△					
		GYXTY04		△				△					
GYXTA			√	△			√	√					
	GYXTZA		△	√		△	√	√					
		GYXTA04		△									
GYFXTF			√	√			√	√	√				△
	GYFXTZF		△	√			√	√					△

光缆中松套管的色谱排列
Chromatographic Arrangement of Loose Tube in Optical Cable

瑞威光缆中松套管的色谱分为领示色谱和全色谱，符合 YD/T 901–2009 标准的规定。

Ruiwei cable loose tube chromatography is divided into chromatography and full chromatogram, in line with YD/T 901–2009 standards.

领示色谱 Lead the chromatogram

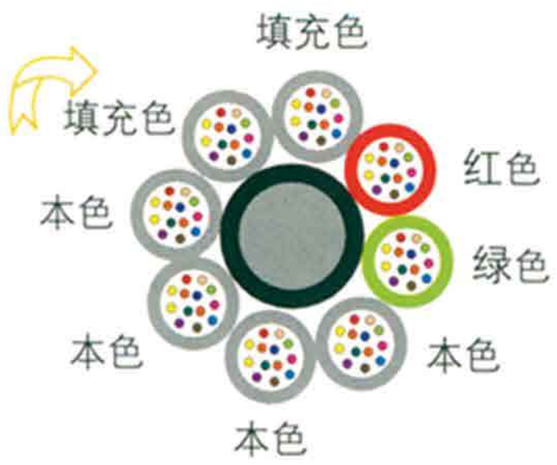
光纤序号 Fiber serial number	1	2	3	4	5	6	7	8	9	10	11	12
颜色 Colour	红 Red	绿 Green	本色 Natural color	本色 Natural color	本色 Natural color	本色 Natural color	本色 Natural color	本色 Natural color	本色 Natural color	本色 Natural color	本色 Natural color	本色 Natural color

注：a、领示色谱缆芯里含有填充绳时，填充绳一般紧靠红管排列，合同有特殊要求的除外；

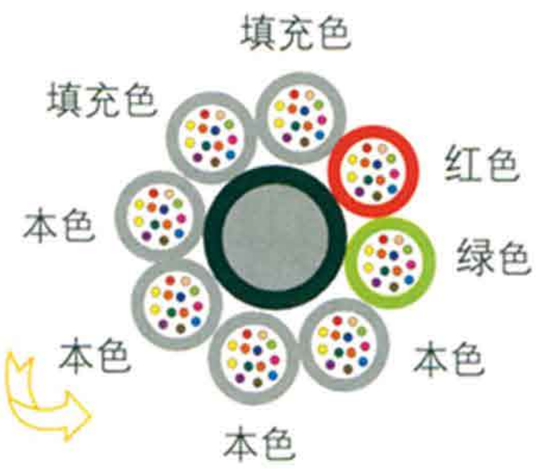
b、领示色谱缆芯里只有一根松套管时．该松套管一般为红色，合同有特殊要求的除外。

Note: a, leading to show the core of the chromatographic cable containing the filling rope, the filling rope is generally close to the red tube arrangement, except for special requirements of the contract;

b, leading to the core of the chromatogram cable is only a loose tube. The loose tube is generally red, except for special requirements of the contract.



A端（红色封头）



B端（绿色封头）

全色谱 Full chromatogram

光纤序号 Fiber serial number	1	2	3	4	5	6	7	8	9	10	11	12
颜色 Colour	蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	青绿 Viridity

A端（红色封头）

B端（绿色封头）

光缆中光纤带的色谱排列

Chromatographic Arrangement of Optical Fiber Ribbons in Optical Fiber Cables

瑞威光纤带中光纤色谱为全色谱，其颜色符合 GB 6995.2 标准的规定。

Ruiwei fiber optic fiber in the full spectrum chromatography, the color in line with GB 6995.2 standard requirements.

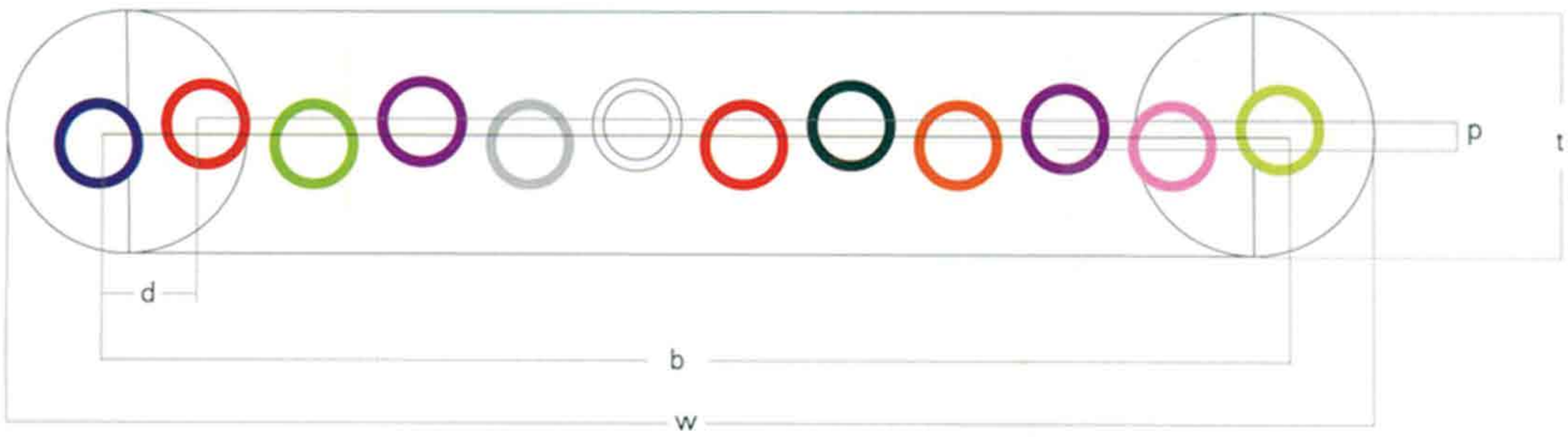
光纤序号 Fiber serial number	1	2	3	4	5	6	7	8	9	10	11	12
颜色 Colour	蓝 Blue	橙 Orange	绿 Green	棕 Brown	灰 Gray	白 White	红 Red	黑 Black	黄 Yellow	紫 Purple	粉红 Pink	青绿 Viridity

光纤带的结构说明

Description of The Structure of The Optical Fiber Ribbon

一根光纤带中，一般有 2、4、6、8、12、24 等不同芯数的单根光纤。把不同数量的单根光纤平行地排列在同一个平面内，其外部用 UV 固化树脂粘接保护。

A fiber optic cable, generally have 2,4,6,8,12,24 different number of single-core fiber. A different number of single optical fibers are arranged in parallel in the same plane, and the outside is protected by UV-curing resin bonding.



光纤带的几何尺寸

Geometric Dimensions of Optical Fiber Ribbons

光纤芯数	光纤带宽度 W（μm）	光纤带厚度 t（μm）	光纤排列水平间距 相邻光纤 d（μm）	光纤排列水平间距 两端光纤 b(μm)	平整度 p(μm)
4	1220	400	280	835	35
6	1770	400	280	1385	35
8	2300	400	300	1920	35
12	3400	400	300	2980	50
24	6800	400	300	每单元	75

光纤带叠层中光纤带的识别

Identification of Fiber Bands in Optical Fiber Ribbon Stacking

光纤带叠层中每一光纤带通过印字来加以识别。印字间隔不大于 20cm，印字的颜色为黑色，字迹明显清晰并且牢固。叠带中光纤带印字格式：第一层：NO.1，第二层：NO.2，第三层：NO.3，第四层：NO.4，以此类推。

Each fiber ribbon in the ribbon stack is identified by printing. Printing interval of not more than 20cm, printing color is black, clear and firm writing. Ribbon in the ribbon with printing format: the first layer: NO.1, the second layer: NO.2, the third layer: NO.3, the fourth layer: NO.4, and so on.

GYTA 型 层绞式 A 护套光缆
GYTA Type Stranded A Sheathed Cable

产品描述
Product description

GYTA 光缆的结构是将单模或多模光纤套入由高模量的聚脂材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯 (PE)。松套管 (和填充绳) 围绕中心加强芯绞合成紧凑的圆形缆芯，缆芯内的缝隙充以阻水填充物。涂塑铝带 (APL) 纵包后挤制聚乙烯护套成缆。

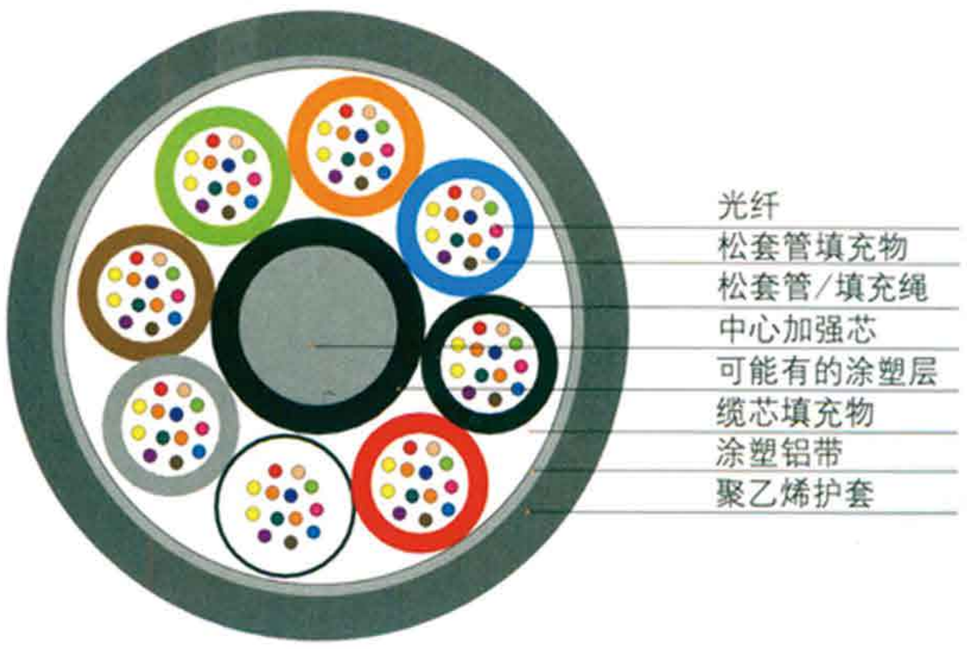
GYTA fiber optic cable is the structure of single-mode or multi-mode fiber into a high modulus of polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a metal reinforcement core, for some core number of cable, the metal reinforcement core need to squeeze a layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the center reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. Coated aluminum tape (APL) longitudinal package after extrusion of polyethylene sheath into a cable.

产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 聚乙烯 (PE) 护套具备良好的抗紫外辐射性能
◎ 外径小、重量轻、结构严密、弯曲性能良好
◎ 采用下列措施来确保光缆的防水性能：
—单根钢丝中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
—涂塑铝带 (APL) 防潮层
◎ 最大芯数：288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
◎ loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ Polyethylene (PE) sheath has good anti-ultraviolet radiation performance
◎ small diameter, light weight, tight structure, bending performance is good
◎ Take the following measures to ensure the waterproof performance of the cable:
– Single wire center reinforcement
– Loose tube filled with special water-resistant compounds
– Complete cable core filled with special ointment
– coated aluminum strip (APL) moisture-proof layer
◎ maximum number of cores: 288 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数 (不含加强芯) Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 30	5	6	9.0	≤ 85	600/1500	300/1000
32 ~ 36	6	6	9.4	≤ 95	600/1500	300/1000
38 ~ 60	5	12	9.8	≤ 100	600/1500	300/1000
62 ~ 72	6	12	10.5	≤ 125	600/1500	300/1000
74 ~ 84	7	12	11.1	≤ 130	600/1500	300/1000
86 ~ 96	8	12	11.8	≤ 140	600/1500	300/1000
98 ~ 108	9	12	12.5	≤ 155	600/1500	300/1000
110 ~ 120	10	12	13.2	≤ 170	600/1500	300/1000
122 ~ 132	11	12	13.9	≤ 185	600/1500	300/1000
134 ~ 144	12	12	14.6	≤ 205	600/1500	300/1000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYTS 型 层绞式 S 护套光缆

GYTS Type Stranded S Sheathed Cable

产品描述
Product description

GYTS 光缆的结构是将单模或多模光纤套入由高模量的聚脂材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯 (PE)。松套管 (和填充绳) 围绕中心加强芯绞合成紧凑的圆形缆芯，缆芯内的缝隙充以阻水填充物。涂塑钢带 (PSP) 纵包后挤制聚乙烯护套成缆。

GYTS fiber optic cable is the structure of single-mode or multi-mode fiber into a high modulus of polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a metal reinforcement core, for some core number of cable, the metal reinforcement core need to squeeze a layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the center reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. Coated steel tape (PSP) longitudinal package after the extrusion of polyethylene sheath into a cable.

产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 聚乙烯 (PE) 护套具备良好的抗紫外辐射性能
◎ 外径小、重量轻、结构严密、弯曲性能良好
◎ 采用下列措施来确保光缆的防水性能：
—单根钢丝中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
—涂塑铝带 (APL) 防潮层
◎ 最大芯数：288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
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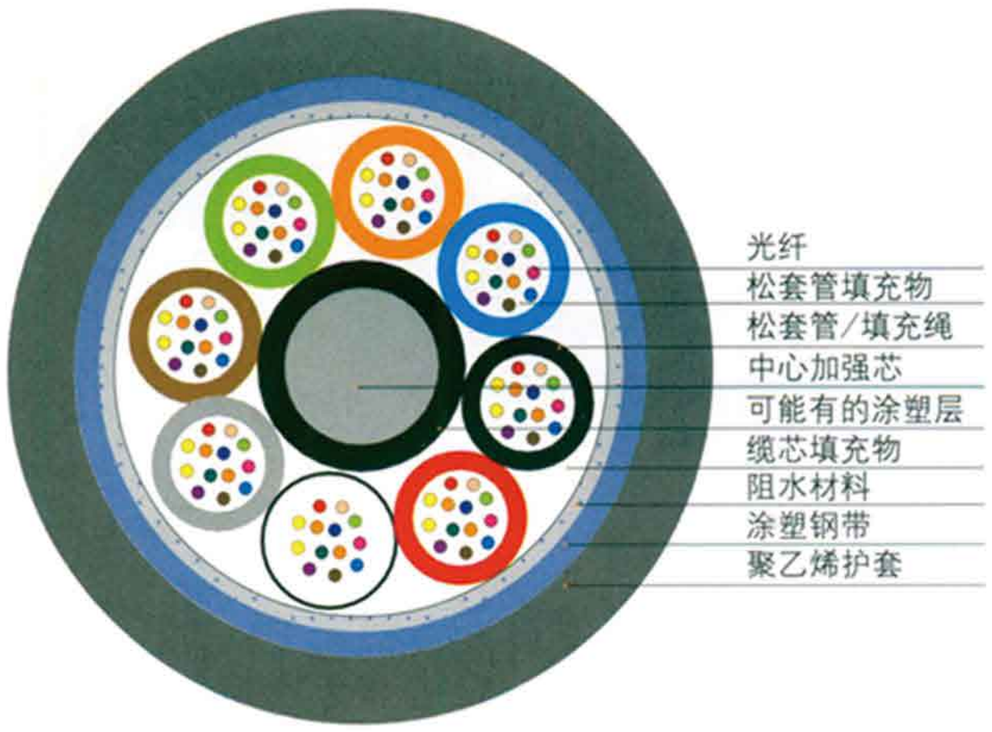
◎ maximum number of cores: 288 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数 (不含加强芯) Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 30	5	6	9.2	≤ 105	600/1500	300/1000
32 ~ 36	6	6	9.6	≤ 120	600/1500	300/1000
38 ~ 60	5	12	10.0	≤ 125	600/1500	300/1000
62 ~ 72	6	12	10.7	≤ 155	600/1500	300/1000
74 ~ 84	7	12	11.3	≤ 165	600/1500	300/1000
86 ~ 96	8	12	12	≤ 180	600/1500	300/1000
98 ~ 108	9	12	12.7	≤ 195	600/1500	300/1000
110 ~ 120	10	12	13.6	≤ 215	600/1500	300/1000
122 ~ 132	11	12	14.3	≤ 235	600/1500	300/1000
134 ~ 144	12	12	15	≤ 250	600/1500	300/1000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYTY53 型 层绞式 Y 护套钢带单铠装光缆

GYTY53 Type Stranded Y Sheath Steel Tape Single Armored Cable

产品描述
Product description

GYTY53 光缆的结构是将单模或多模光纤套入由高模量的聚脂材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯 (PE)。松套管（和填充绳）围绕中心加强芯绞合成紧凑的圆形缆芯，缆芯内的缝隙充以阻水填充物。缆芯外挤一层聚乙烯内护套，涂塑钢带（PSP）纵包后挤制聚乙烯外护层成缆。

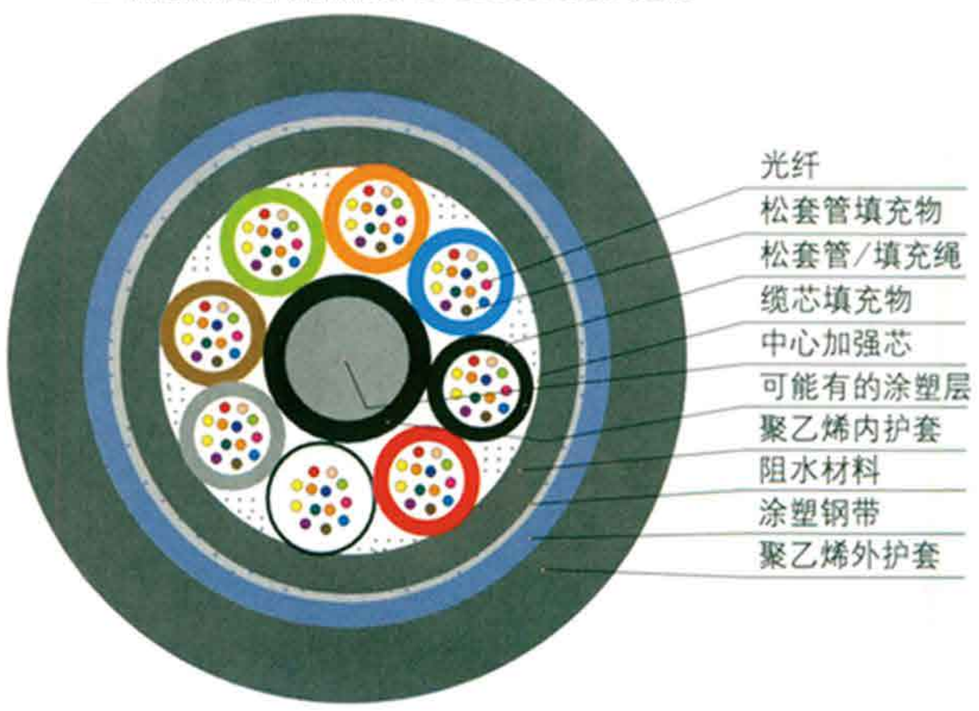
GYTY53 fiber optic cable is the structure of single-mode or multi-mode fiber into the high modulus of the polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a metal reinforcement core, for some core number of cable, the metal reinforcement core need to squeeze a layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the center reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. The cable core is extruded with polyethylene inner sheath and the plastic coated steel strip (PSP) is extruded into a polyethylene outer sheath to form a cable.

产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 双层护套结构，具备良好的抗压性能和柔软性
◎ 采用下列措施来确保光缆的防水性能：
—单根钢丝中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
—涂塑钢带（PSP）提高光缆的抗透潮能力
—良好的阻水材料防止光缆纵向渗水
◎ 最大芯数：288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
◎ loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ double-layer sheath structure, with good compression properties and flexibility
◎ Take the following measures to ensure the waterproof performance of the cable:
– Single wire center reinforcement
– Loose tube filled with special water-resistant compounds
– Complete cable core filled with special ointment
– Plastic coated steel (PSP) to improve the ability of anti-moisture transmission cable
– Good water blocking material to prevent vertical seepage of cable
◎ maximum number of cores: 288 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数（不含加强芯） Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 30	5	6	11.5	≤ 165	1000/3000	1000/3000
32 ~ 36	6	6	12	≤ 185	1000/3000	1000/3000
38 ~ 72	5	12	12.9	≤ 215	1000/3000	1000/3000
74 ~ 84	7	12	13.6	≤ 225	1000/3000	1000/3000
86 ~ 96	8	12	14.4	≤ 245	1000/3000	1000/3000
98 ~ 108	9	12	15.1	≤ 265	1000/3000	1000/3000
110 ~ 120	10	12	15.8	≤ 285	1000/3000	1000/3000
122 ~ 132	11	12	16.5	≤ 305	1000/3000	1000/3000
134 ~ 144	12	12	17.3	≤ 330	1000/3000	1000/3000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYTA53 型 层绞式 A 护套钢带双铠装光缆

GYTA53 Type Stranded A Sheath Steel Tape Double Armored Cable

产品描述
Product description

GYFTA53 光缆的结构是将单模或多模光纤套入由高模量的聚酯材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯 (PE)。松套管（和填充绳）围绕中心加强芯绞合成紧凑的圆形缆芯。缆芯内的缝隙充以阻水填充物。涂塑铝带（APL）纵包后挤一层聚乙烯内护套，涂塑钢带（PSP）纵包后挤制聚乙烯护套成缆。

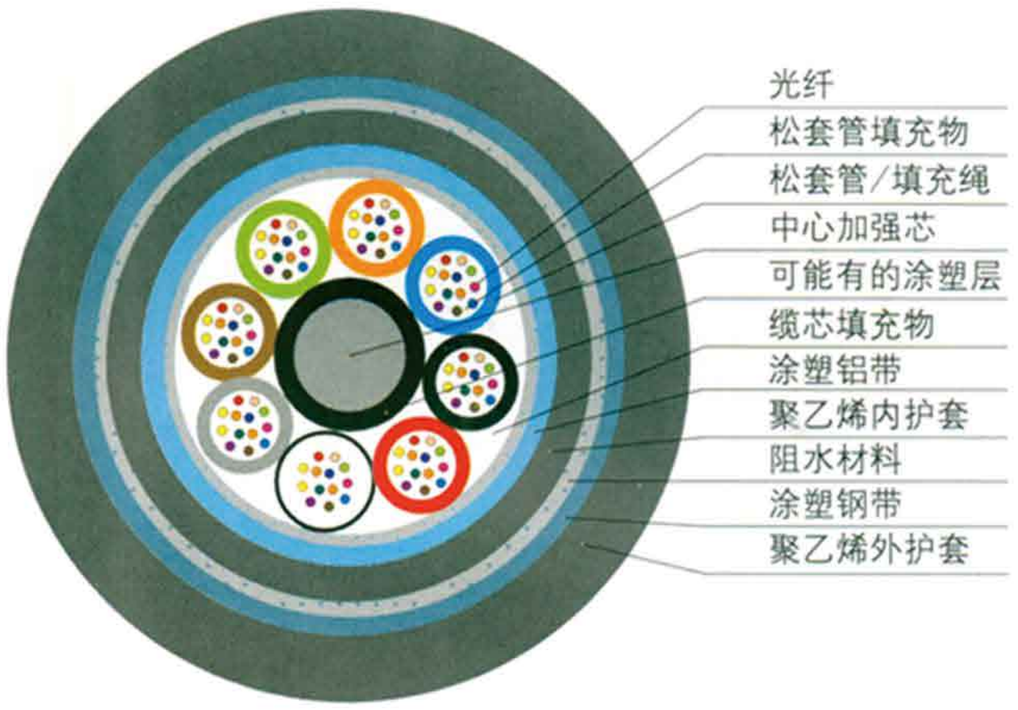
GYFTA53 fiber optic cable is the structure of single-mode or multi-mode fiber into the high modulus of the polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a metal reinforcement core, for some core number of cable, the metal reinforcement core need to squeeze a layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the central reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. The plastic coated aluminum strip (APL) is extruded into polyethylene sheathing, and the plastic coated steel strip (PSP) is extruded into polyethylene sheathing.

产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 双层铠装 + 双层护套结构，增加光缆抗压、防弹、防潮性能，有效防止啮齿类动物啃伤
◎ 采用下列措施来确保光缆的防水性能：
—单根钢丝中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
—涂塑铝带（APL）防潮层
—双面涂塑钢带（PSP）提高光缆的抗透潮能力
—良好的阻水材料防止光缆纵向渗水
◎ 最大芯数：288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
◎ loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ double armor + double sheath structure, increase the cable compression, bulletproof, moisture-proof performance, effectively prevent rodents bite injury
◎ Take the following measures to ensure the waterproof performance of the cable:
– Single wire center reinforcement
– Loose tube filled with special water-resistant compounds
– Complete cable core filled with special ointment
– coated aluminum strip (APL) moisture-proof layer
– Double coated steel strip (PSP) to improve the ability of anti-moisture transmission cable
– Good water blocking material to prevent vertical seepage of cable
◎ maximum number of cores: 288 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数（不含加强芯） Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 30	5	6	12.5	≤ 200	1000/3000	1000/3000
32 ~ 36	6	6	13.0	≤ 225	1000/3000	1000/3000
38 ~ 72	5	12	13.9	≤ 255	1000/3000	1000/3000
74 ~ 84	7	12	14.6	≤ 270	1000/3000	1000/3000
86 ~ 96	8	12	15.4	≤ 290	1000/3000	1000/3000
98 ~ 108	9	12	16.1	≤ 315	1000/3000	1000/3000
110 ~ 120	10	12	16.8	≤ 335	1000/3000	1000/3000
122 ~ 132	11	12	17.5	≤ 360	1000/3000	1000/3000
134 ~ 144	12	12	18.3	≤ 385	1000/3000	1000/3000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYTA33 型 层绞式 A 护套单层钢丝铠装光缆

GYTA33 Type Stranded A Sheath Single Layer Steel Wire Armored Cable

产品描述
Product description

GYTA33 光缆的结构是将单模或多模光纤套入由高模量的聚酯材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数待定光缆来说，金属加强芯外还需挤上一层聚乙烯（PE）。松套管（和填充绳）围绕中心加强芯绞合成紧凑的圆形缆芯。缆芯内的缝隙充以阻水填充物。涂塑铝带（APL）纵包后挤一层聚乙烯内护套，再经单层细圆钢丝铠装后，最终挤制聚乙烯外护层成缆。

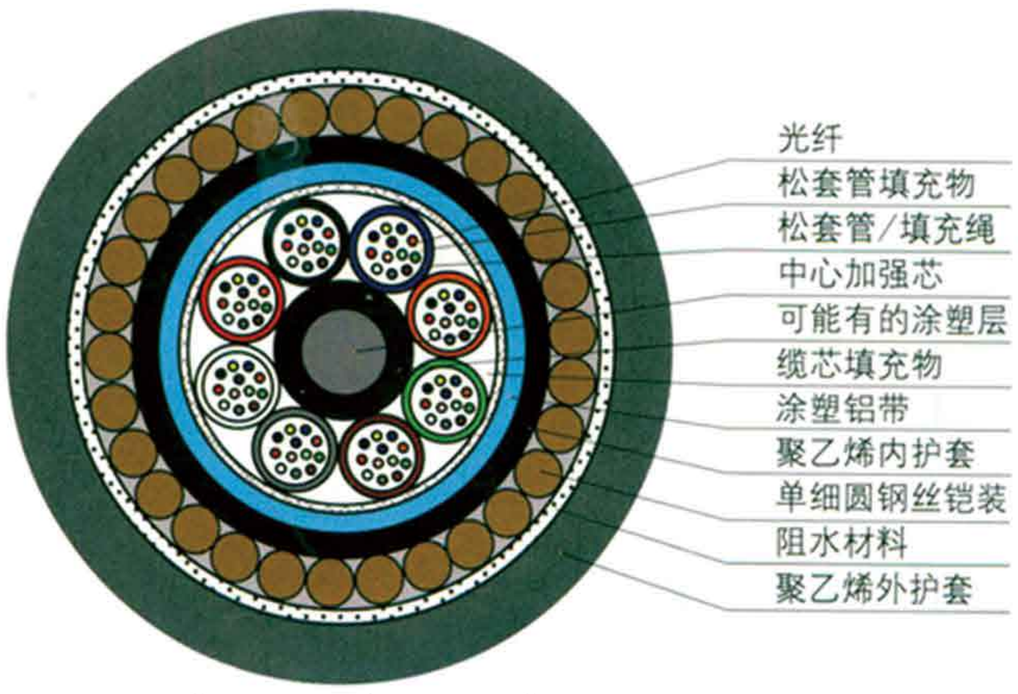
GYTA33 fiber optic cable is the structure of single-mode or multi-mode fiber into the high modulus of the polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a metal reinforcement core, for some cores to be determined for the cable, the metal reinforcement core need to squeeze on a layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the central reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. Coated aluminum tape (APL) longitudinal package after squeezing a layer of polyethylene inner sheath, and then by a single layer of fine round steel wire armored, the final extruded polyethylene sheath into a cable.

产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 单细圆钢丝铠装结构，增加光缆抗压、防弹、防潮性能，有效防止啮齿类动物啃伤
◎ 采用下列措施来确保光缆的防水性能：
—单根钢丝中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
—涂塑铝带（APL）防潮层
◎ 最大芯数：288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
◎ loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ single round steel wire armored structure, increase the cable compression, bulletproof, moisture-proof performance, effectively prevent rodents bite injury
◎ Take the following measures to ensure the waterproof performance of the cable:
– Single wire center reinforcement
– Loose tube filled with special water-resistant compounds
– Complete cable core filled with special ointment
– coated aluminum strip (APL) moisture-proof layer
◎ maximum number of cores: 288 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数（不含加强芯） Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	钢丝（直径 × 根数） Wire (diameter × root number) (mm)	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 30	6	5	1.0×27±1	14.3	330	6000 / 15000	3000 / 5000
32 ~ 36	6	6	1.0×29±1	14.8	360	6000 / 15000	3000 / 5000
38 ~ 72	6	12	1.2×27±1	16.1	450	6000 / 15000	3000 / 5000
74 ~ 84	7	12	1.2×28±1	16.8	470	6000 / 15000	3000 / 5000
86 ~ 96	8	12	1.4×26±1	18	560	10000 / 20000	3000 / 5000
98 ~ 108	9	12	1.4×28±1	18.7	600	10000 / 20000	3000 / 5000
110 ~ 120	10	12	1.5×28±1	19.6	670	10000 / 20000	3000 / 5000
122 ~ 132	11	12	1.6×27±1	20.5	730	10000 / 20000	3000 / 5000
134 ~ 144	12	12	1.6×29±1	21.3	780	10000 / 20000	3000 / 5000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYTA333 型 层绞式 A 护套双层钢丝铠装光缆

GYTA333 Type Stranded A Sheath Double Layer Steel Wire Armored Cable

产品描述
Product description

GYTA333 光缆的结构是将单模或多模光纤套入由高模量的聚脂材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯 (PE)。松套管 (和填充绳) 围绕中心加强芯绞合成紧凑的圆形缆芯，缆芯内的缝隙充以阻水填充物。涂塑铝带 (APL) 纵包后挤一层聚乙烯内护套，再经双层细圆钢丝铠装后，最终挤制聚乙烯外护层成缆。

GYTA333 fiber optic cable is the structure of single-mode or multi-mode fiber into the high modulus of polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a metal reinforcement core, for some core number of cable, the metal reinforcement core need to squeeze a layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the center reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. Coated aluminum tape (APL) longitudinal package after squeezing a layer of polyethylene inner sheath, and then by double-layer thin round steel wire armored, the final extruded polyethylene sheath into a cable.

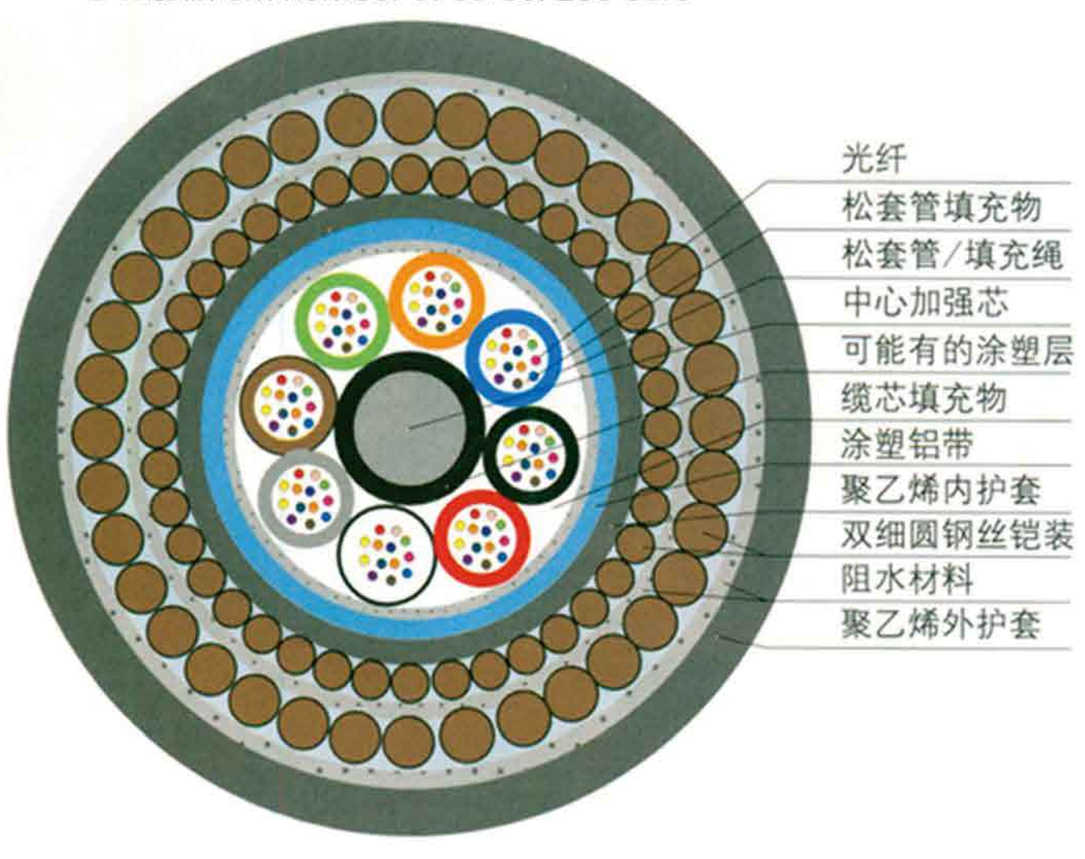
产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 双细圆钢丝铠装结构，增加光缆抗压、防弹、防潮性能，有效防止啮齿类动物啃伤
◎ 采用下列措施来确保光缆的防水性能：
—单根钢丝中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
—涂塑铝带 (APL) 防潮层
◎ 最大芯数：288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
◎ loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ double-thin round steel wire armored structure, increased fiber compression, bulletproof, moisture-proof performance, effectively prevent rodents bite injury
◎ Take the following measures to ensure the waterproof performance of the cable:
- Single wire center reinforcement
- Loose tube filled with special water-resistant compounds
- Complete cable core filled with special ointment
- coated aluminum strip (APL) moisture-proof layer

◎ maximum number of cores: 288 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数 (不含加强芯) Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	钢丝 (直径 × 根数) Wire (diameter × root number) (mm)		光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
			第一层 First layer	第二层 Second layer				
2 ~ 36	6	6	1.5×23	1.8×25	21.2	≤ 1100	20000 / 40000	4000 / 6000
38 ~ 48	6	8	1.5×26	1.8×27	22.7	≤ 1200	20000 / 40000	4000 / 6000
50 ~ 72	6	12	1.5×26	2.0×25	23.5	≤ 1300	20000 / 40000	4000 / 6000
74 ~ 84	7	12	1.5×27	2.0×26	23.8	≤ 1350	20000 / 40000	4000 / 6000
86 ~ 96	8	12	1.5×29	2.0×27	24.7	≤ 1400	20000 / 40000	4000 / 6000
98 ~ 108	9	12	2.0×25	2.0×30	26.5	≤ 1650	20000 / 40000	4000 / 6000
110 ~ 120	10	12	2.0×25	2.5×25	28.3	≤ 1970	20000 / 40000	4000 / 6000
122 ~ 132	11	12	2.0×26	2.5×26	29.1	≤ 2060	20000 / 40000	4000 / 6000
134 ~ 144	12	12	2.0×27	2.5×27	29.9	≤ 2150	20000 / 40000	4000 / 6000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYFTY 型 层绞式非金属 Y 护套光缆
GYFTY Type Stranded Non-metallic Y Sheath Cable

产品描述
Product description

GYFTY 光缆的结构是将单模或多模光纤套入由高模量的聚脂材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根非金属加强芯（FRP），对于某些芯数的光缆来说，加强芯外还需挤上一层聚乙烯 (PE)。松套管（和填充绳）围绕中心加强芯绞合成紧凑的圆形缆芯，缆芯内的缝隙充以阻水填充物。缆芯外挤制聚乙烯护套成缆。

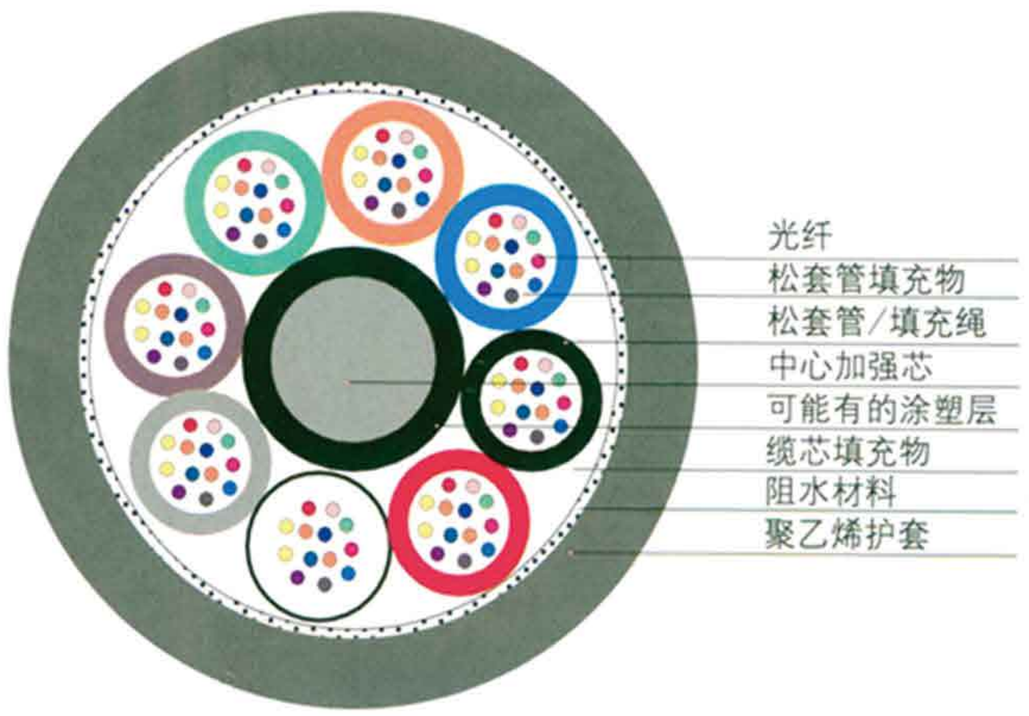
GYFTY fiber optic cable is the structure of single-mode or multi-mode fiber into the high modulus of polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a non-metallic reinforcement core (FRP), for some core number of cable, the need to strengthen the core layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the center reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. Outside the cable core extruded polyethylene sheath into a cable.

产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 聚乙烯（PE）护套具有良好的抗紫外辐射性能
◎ 采用全非金属结构，重量轻，敷设方便，抗电磁能力优良，适用于电力系统及多雷地区
◎ 采用下列措施来确保光缆的防水性能：
—单根非金属中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
◎ 最大芯数：288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
◎ loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ polyethylene (PE) jacket with good UV radiation resistance
◎ All non-metallic structure, light weight, convenient laying, excellent anti-electromagnetic ability, suitable for power system and multi-mine areas
◎ Take the following measures to ensure the waterproof performance of the cable:
– Single non-metallic center reinforcement
– Loose tube filled with special water-resistant compounds
– Complete cable core filled with special ointment
◎ maximum number of cores: 288 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数（不含加强芯）Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 36	6	6	10.2	≤ 85	600 / 1500	300 / 1000
38 ~ 72	6	12	10.4	≤ 105	600 / 1500	300 / 1000
74 ~ 84	7	12	10.9	≤ 120	600 / 1500	300 / 1000
86 ~ 96	8	12	11.5	≤ 140	600 / 1500	300 / 1000
98 ~ 108	9	12	12.2	≤ 155	600 / 1500	300 / 1000
110 ~ 120	10	12	12.9	≤ 175	600 / 1500	300 / 1000
122 ~ 132	11	12	13.6	≤ 195	600 / 1500	300 / 1000
134 ~ 144	12	12	14.3	≤ 215	1000 / 3000	1000 / 3000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYXTW 型 中心管式 W 护套光缆

GYXTW Type Center Tube Type W Sheathed Cable

产品描述
Product description

GYXTW 光缆的结构是将单模或多模光纤套入由高模量的聚酯材料做成的松套管中，套管内填充防水化合物。松套管外用一层双面涂塑钢带 (PSP) 纵包，钢带和松套管之间加阻水材料以保证光缆的紧凑和纵向阻水，两侧放置两根平行钢丝后聚乙烯 (PE) 护套成缆。

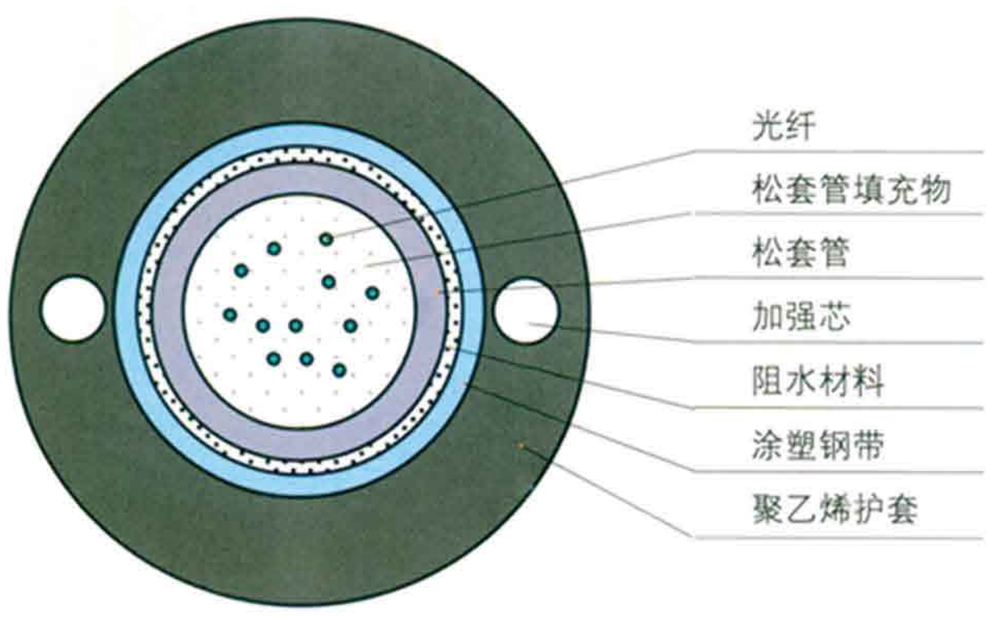
GYXTW fiber optic cable is the structure of single-mode or multi-mode fiber into a high modulus of polyester material made of loose tube, the casing filled with water-resistant compounds. Loose casing with a layer of double-sided plastic coated steel strip (PSP) longitudinal package, steel and loose tube between the water-blocking material to ensure the cable compact and longitudinal water blocking, placed on both sides after the two parallel wire polyethylene PE) sheath into a cable.

产品特点
Product features

◎ 精确的光纤余长控制，保证了光缆具备优良的机械特性及环境特性
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 双面涂塑钢带 (PSP) 提高光缆的抗透潮性能
◎ 两根平行钢丝保证光缆的抗拉强度
◎ 聚乙烯 (PE) 护套具有良好的抗紫外辐射性能
◎ 良好的抗压性和柔软性
◎ 外径小、重量轻、结构紧凑严密，弯曲性能优异，容易敷设
◎ 最大芯数：144 芯

◎ Accurate fiber length control to ensure that the cable has excellent mechanical properties and environmental characteristics
◎ Loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ Double coated plastic strip (PSP) to improve the anti-moisture transmission properties of the cable
◎ two parallel wire to ensure the tensile strength of cable
◎ Polyethylene (PE) sheath has good anti-ultraviolet radiation performance
◎ good resistance to compression and flexibility
◎ Small diameter, light weight, compact structure, bending performance, easy to lay
◎ Maximum number of cores: 144 cores

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	加强芯（根数 × 尺寸）Reinforced core (Number of roots × size) (mm)	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 6	2×1.2	8.9	≤ 125	600 / 1500	300 / 1000
8 ~ 12	3×1.2	9.2	≤ 130	600 / 1500	300 / 1000
14 ~ 18	2×1.2	9.8	≤ 135	600 / 1500	300 / 1000
20 ~ 24	2×1.4	11.4	≤ 145	1000 / 3000	1000 / 3000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。

Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYDTA 型 层绞式 A 护套光纤带光缆

GYDTA Type Stranding Type A Sheathed Optical Fiber Ribbon Cable

产品描述
Product description

GYDTA 光缆的结构是将光纤带套入由高模量的聚酯材料做成的松套管中，套管内填充防水化合物。缆芯中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯 (PE)。松套管（和填充绳）围绕中心加强芯绞合成紧凑的圆形缆芯，缆芯内的缝隙充以阻水填充物。涂塑铝带 (APL) 纵包后挤制聚乙烯套成缆。

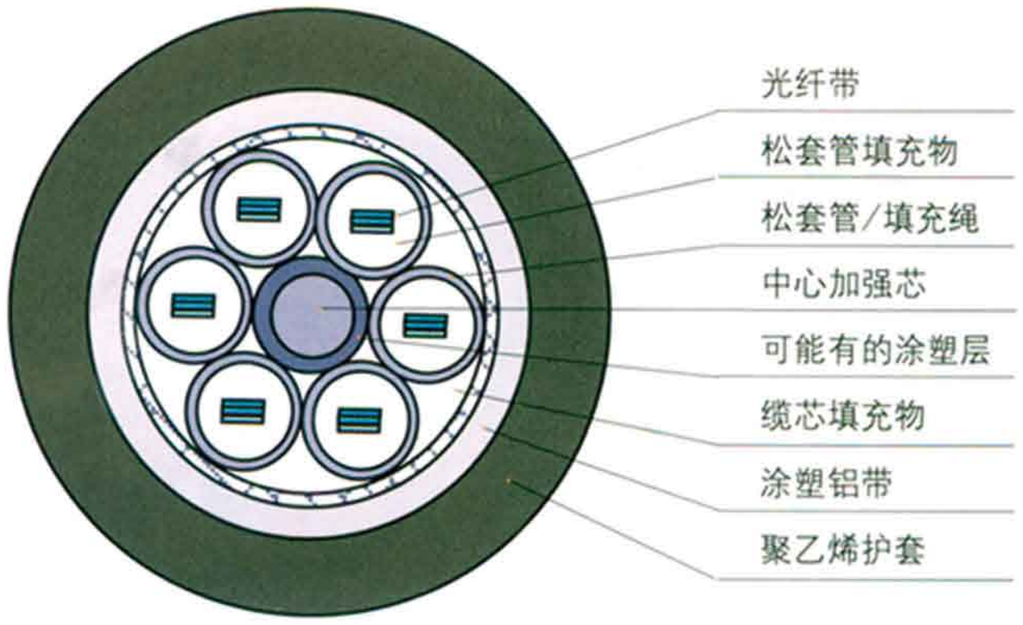
GYDTA cable structure is the fiber optic cable into the high modulus of the polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a metal reinforcement core, for some core number of cable, the metal reinforcement core need to squeeze on a layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the center reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. Coated with aluminum (APL) longitudinal package after the extrusion of polyethylene sets into a cable.

产品特点
Product features

◎ 采用优质的 4、6、12、24 芯带，使用灵活
◎ 精确的光纤余长控制工艺和稳定的成缆工艺，保证了光缆具备卓越的机械及环境性能
◎ 套管具有良好的柔韧性和抗弯曲能力
◎ 聚乙烯 (PE) 护套具有良好的抗紫外辐射性能
◎ 采用涂塑铝带 (APL) 防潮层及全截面阻水结构，确保良好的阻水防潮性能
◎ 最大芯数：1152 芯

◎ The use of high-quality 4,6,12,24 core with flexible use
◎ Precise fiber length control process and stable cable-making process ensure the excellent mechanical and environmental performance of optical cable
◎ casing has good flexibility and resistance to bending ability
◎ Polyethylene (PE) sheath has good anti-ultraviolet radiation performance
◎ Adopt plastic-coated aluminum strip (APL) moisture-proof layer and full-section water-blocking structure to ensure good water-blocking and moisture-proof performance.
◎ The maximum number of cores: 1152 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数（不含加强芯）Number of cable core units (without reinforcement core)	组成（芯带 × 层）Composition (ribbon x layer)	外径 Outside diameter (mm)	重量 Weight (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
24 ~ 120	5	6×4	15.8	≤ 210	600 / 1500	300 / 1000
122 ~ 144	6	6×4	17.2	≤ 220	600 / 1500	300 / 1000
146 ~ 288	6	6×8	20.2	≤ 280	600 / 1500	300 / 1000
24 ~ 72	4+4	12×3	17.1	≤ 240	600 / 1500	300 / 1000
74 ~ 144	4+4	12×4	17.3	≤ 250	600 / 1500	300 / 1000
146 ~ 288	4+4	12×6	18.3	≤ 250	600 / 1500	300 / 1000
290 ~ 384	4+4	12×8	19.7	≤ 270	600 / 1500	300 / 1000
386 ~ 432	4+4	12×9	20.3	≤ 330	600 / 1500	300 / 1000
434 ~ 576	4+4	12×12	22.2	≤ 360	600 / 1500	300 / 1000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYDXTW 型 中心管式 W 护套光纤带光缆

GYDXTW Type Center Tube Type W Sheath Optical Fiber Ribbon Cable

产品描述
Product description

GYDXTW 光缆的结构是将光纤带套入由高模量的聚酯材料做成的松套管中，套管内填充防水化合物。松套管外用一层涂塑钢带 (PSP) 纵包．钢带和松套管之间加阻水材料以保证光缆的紧凑和纵向阻水，两侧放置两根 (或四根) 平行钢丝后聚乙烯 (PE) 护套成缆。

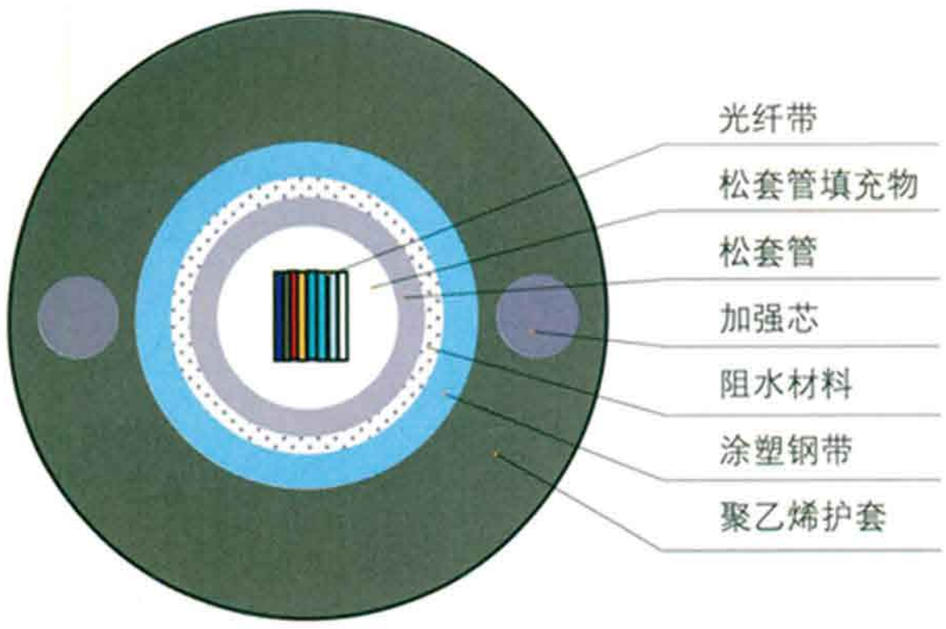
GYDXTW fiber optic cable is the structure of the fiber into the high modulus of the polyester material made of loose tube, the casing filled with water-resistant compounds. Loose tube with a layer of plastic coated steel strip (PSP) longitudinal package. Between the steel strip and loose tube to add water-blocking material to ensure the cable's compact and longitudinal water blocking, placed on two sides (or four) parallel to the wire after the polyethylene (PE) jacket into the cable.

产品特点
Product features

◎ 精确的光纤余长控制，保证了光缆具备优良的机械特性及环境特性
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 涂塑钢带 (PSP) 提高光缆的抗透潮性能
◎ 两根 (或四根) 平行钢丝保证光缆的抗拉强度
◎ 聚乙烯 (PE) 护套具有良好的抗紫外辐射性能
◎ 良好的抗压性和柔软性
◎ 外径小、重量轻、结构紧凑严密，弯曲性能优异，容易敷设
◎ 最大芯数：576 芯

◎ Accurate fiber length control to ensure that the cable has excellent mechanical properties and environmental characteristics
◎ Loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ Coated steel strip (PSP) to improve the anti-moisture transmission properties of the cable
◎ Two (or four) parallel steel wire to ensure the tensile strength of the cable
◎ Polyethylene (PE) sheath has good anti-ultraviolet radiation performance
◎ Good resistance to compression and flexibility
◎ Small diameter, light weight, compact structure, bending performance, easy to lay
◎ The maximum number of cores: 576 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	组成 (芯带 × 层) Composition (ribbon x layer)	外径 Outside diameter (mm)	重量 Weight (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
8	8 × 1	12.4	≤ 145	600 / 1500	300 / 1000
16	8 × 2	12.4	≤ 145	600 / 1500	300 / 1000
24	8 × 3	12.4	≤ 145	600 / 1500	300 / 1000
48	8 × 6	13.0	≤ 155	600 / 1500	300 / 1000
36	12 × 3	12.8	≤ 160	600 / 1500	300 / 1000
48	12 × 4	13.2	≤ 170	600 / 1500	300 / 1000
60	12 × 5	13.4	≤ 175	600 / 1500	300 / 1000
72	12 × 6	13.4	≤ 175	600 / 1500	300 / 1000
96	12 × 8	13.9	≤ 185	600 / 1500	300 / 1000
144	12 × 12	14.9	≤ 210	600 / 1500	300 / 1000
216	12 × 18	17.3	≤ 270	600 / 1500	300 / 1000
288	24 × 12	17.3	≤ 270	600 / 1500	300 / 1000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYFTY53 型 非金属层绞式 Y 双护套钢带单铠装光缆

GYFTY53 Non - metallic Stranded Y Double Sheathed Steel Tape Single Armored Cable

产品描述
Product description

GYFTY53 光缆的结构是将单模或多模光纤套入由高模量的聚脂材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根非金属加强芯 (FRP)，对于某些芯数的光缆来说，加强芯外还需挤上一层聚乙烯 (PE)。松套管 (和填充绳) 围绕中心加强芯绞合成紧凑的圆形缆芯，缆芯内的缝隙充以阻水填充物。缆芯外挤上一层聚乙烯内护套，涂塑钢带 (PSP) 纵包后挤制聚乙烯外护套成缆。

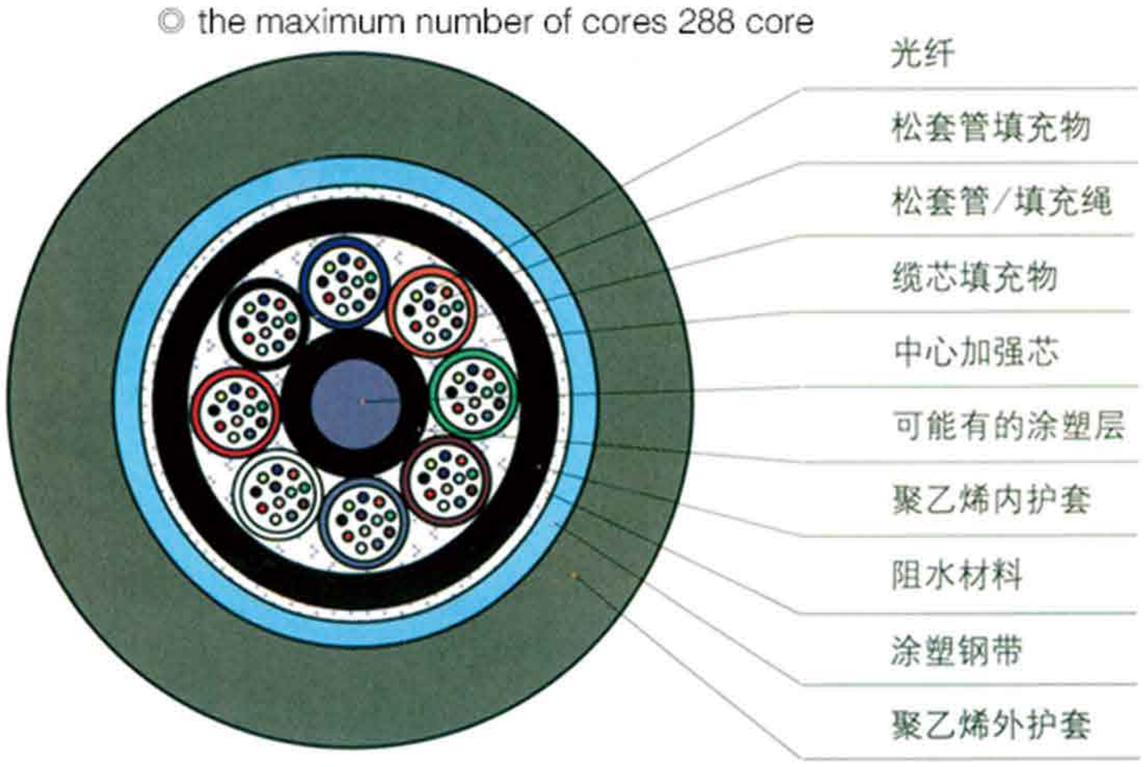
GYFTY53 fiber optic cable is the structure of single-mode or multi-mode fiber into the high modulus of the polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a non-metallic reinforcement core (FRP), for some core number of cable, the need to strengthen the core layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the center reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. The cable core is extruded with polyethylene inner sheathed, and the plastic coated steel strip (PSP) is longitudinally wrapped to extrude the polyethylene outer sheath into a cable.

产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 双层护套结构，具备良好的抗压性能和柔软性
◎ 采用下列措施来确保光缆的防水性能：
—单根 FRP 中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
—涂塑钢带 (PSP) 提高光缆的抗透潮能力
—良好的阻水材料防止光缆纵向渗水
◎ 最大芯数 288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
◎ loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ double-layer sheath structure, with good compression properties and flexibility
◎ Take the following measures to ensure the waterproof performance of the cable:
– Single FRP center reinforcement
– Loose tube filled with special water-resistant compounds
– Complete cable core filled with special ointment
– Plastic coated steel (PSP) to improve the ability of anti-moisture transmission cable
– Good water blocking material to prevent vertical seepage of cable
◎ the maximum number of cores 288 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数 (不含加强芯) Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 36	7	6	13.4	≤ 200	1000 / 3000	1000 / 3000
38 ~ 84	7	12	14	≤ 205	1000 / 3000	1000 / 3000
86 ~ 96	8	12	14.8	≤ 250	1000 / 3000	1000 / 3000
98 ~ 108	9	12	15.5	≤ 270	1000 / 3000	1000 / 3000
110 ~ 120	10	12	16.2	≤ 310	1000 / 3000	1000 / 3000
122 ~ 132	11	12	16.9	≤ 330	1000 / 3000	1000 / 3000
134 ~ 144	12	12	17.7	≤ 350	1000 / 3000	1000 / 3000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

TIANKE CABLE

GYFTZY 型 层绞式非金属阻燃光缆

GYFTZY Type Stranding Non-metallic Flame Retardant Cable

产品描述
Product description

GYFTZY 光缆的结构是将单模或多模光纤套入由高模量的聚酯材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根非金属加强芯 (FRP)，对于某些芯数的光缆来说，加强芯外还需挤上一层聚乙烯 (PE)。松套管 (和填充绳) 围绕中心加强芯绞合成紧凑的圆形缆芯。缆芯内的缝隙充以阻水填充物。缆芯外挤制阻燃聚烯烃护套成缆。

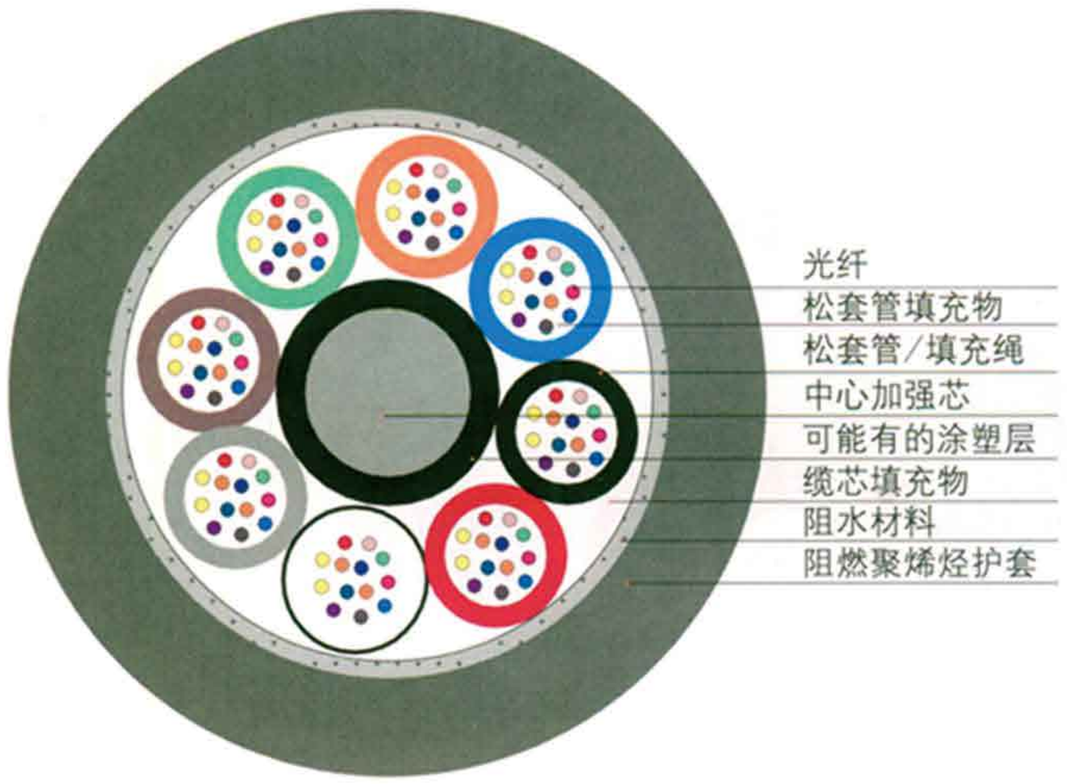
GYFTZY fiber optic cable is the structure of single-mode or multi-mode fiber into a high modulus of polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a non-metallic reinforcement core (FRP), for some core number of cable, the need to strengthen the core layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the central reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. Outside the cable core extruded flame-retardant polyolefin sheath into a cable.

产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 阻燃聚乙烯 (ZRPO) 护套具有良好的阻燃 (不延燃) 性能
◎ 采用全非金属结构，重量轻，敷设方便，抗电磁能力优良
◎ 采用下列措施来确保光缆的防水性能：
—单根非金属中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
◎ 最大芯数：288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
◎ Loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ Flame-retardant polyethylene (ZRPO) jacket has a good flame retardant (not flame retardant) performance
◎ All non-metallic structure, light weight, easy laying, anti-electromagnetic ability
◎ Take the following measures to ensure the waterproof performance of the cable:
– Single non-metallic center reinforcement
– Loose tube filled with special water-resistant compounds
– Complete cable core filled with special ointment
◎ maximum number of cores: 288 core

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数 (不含加强芯) Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 36	6	6	10.9	≤ 120	600 / 1500	300 / 1000
38 ~ 72	6	12	11.1	≤ 130	600 / 1500	300 / 1000
74 ~ 84	7	12	11.6	≤ 140	600 / 1500	300 / 1000
86 ~ 96	8	12	12.2	≤ 140	600 / 1500	300 / 1000
98 ~ 108	9	12	12.9	≤ 150	600 / 1500	300 / 1000
110 ~ 120	10	12	13.6	≤ 165	600 / 1500	300 / 1000
122 ~ 132	11	12	14.3	≤ 175	600 / 1500	300 / 1000
134 ~ 144	12	12	15	≤ 190	600 / 1500	300 / 1000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

GYTZA 型 层绞式 A 护套阻燃光缆

GYFTY53 Non - metallic Stranded Y Double Sheathed Steel Tape Single Armored Cable

产品描述
Product description

GYTZA光缆的结构是将单模或多模光纤套入由高模量的聚脂材料做成的松套管中，套管内填充防水化合物。缆芯的中心是一根金属加强芯，对于某些芯数的光缆来说，金属加强芯外还需挤上一层聚乙烯 (PE)。松套管 (和填充绳) 围绕中心加强芯绞合成紧凑的圆形缆芯，缆芯内的缝隙充以阻水填充物。涂塑铝带 (APL) 纵包后挤制聚乙烯阻燃护套成缆。

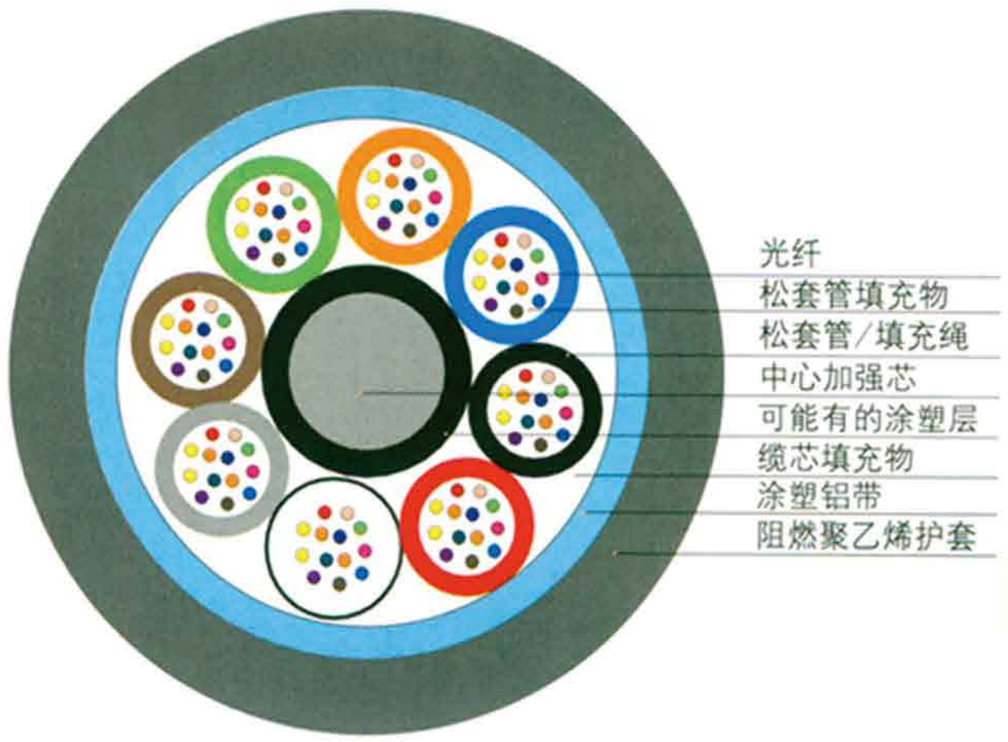
GYTZA cable structure is to single-mode or multi-mode fiber into a high modulus of polyester material made of loose tube, the casing filled with water-resistant compounds. The core of the cable core is a metal reinforcement core, for some core number of cable, the metal reinforcement core need to squeeze a layer of polyethylene (PE). The loose tube (and the filling wire) is twisted around the center reinforcing core to form a compact round cable core. The gap in the cable core is filled with a water blocking filler. Coated aluminum tape (APL) longitudinal package after the extrusion of polyethylene flame-retardant jacket into a cable.

产品特点
Product features

◎ 精确的光纤余长控制和 SZ 绞合成缆方式，保证了光缆具备卓越的机械及环境性能
◎ 松套管材料本身具有良好的耐水解性能和较高的强度，管内充以特种油膏，对光纤进行了关键性保护
◎ 阻燃聚乙烯护套具有良好的阻燃性能
◎ 外径小、重量轻、结构严密、弯曲性能良好
◎ 采用下列措施来确保光缆的防水性能：
—单根钢丝中心加强
—松套管内填充特种防水化合物
—完全缆芯填充特种油膏
—涂塑铝带 (APL) 防潮层
◎ 最大芯数：288 芯

◎ Accurate fiber length control and SZ twisted cable way to ensure that the cable has excellent mechanical and environmental performance
◎ Loose tube material itself has a good resistance to hydrolysis and high strength, tube filled with special ointment, the fiber of the key protection
◎ Flame-retardant polyethylene jacket has a good flame retardant properties
◎ Small diameter, light weight, tight structure, bending performance is good
◎ Take the following measures to ensure the waterproof performance of the cable:
– Single wire center reinforcement
– Loose tube filled with special water-resistant compounds
– Complete cable core filled with special ointment
– Coated aluminum strip (APL) moisture-proof layer

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	缆芯单元数 (不含加强芯) Number of cable core units (without reinforcement core)	松套管内最大光纤数 The maximum number of fibers in a loose tube	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 30	5	6	9.4	≤ 125	600 / 1500	300 / 1000
32 ~ 36	6	6	9.8	≤ 140	600 / 1500	300 / 1000
38 ~ 60	5	12	10.4	≤ 170	600 / 1500	300 / 1000
62 ~ 72	6	12	11.1	≤ 190	600 / 1500	300 / 1000
74 ~ 84	7	12	11.7	≤ 215	600 / 1500	300 / 1000
86 ~ 96	8	12	12.4	≤ 235	600 / 1500	300 / 1000
98 ~ 108	9	12	13.1	≤ 255	600 / 1500	300 / 1000
110 ~ 120	10	12	13.8	≤ 275	600 / 1500	300 / 1000
122 ~ 132	11	12	14.5	≤ 290	600 / 1500	300 / 1000
134 ~ 144	12	12	15.2	≤ 300	600 / 1500	300 / 1000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

TIANKE CABLE

光电复合光缆

GYFTZY Type Stranding Non-metallic Flame Retardant Cable

产品描述
Product description

光电复合光缆的结构是将单模或多模光纤套入由高模量的聚脂材料做成的松套管中，套管内填充防水化合物。同时加入一根或多根铜导线与松套管一起绞合在中心的加强芯上形成缆芯，对于某些型号光缆来说，金属加强芯外还需挤上一层聚乙烯 (PE)。缆芯内的缝隙充以阻水填充物。涂塑铝带或钢带纵包后挤制聚乙烯 (或阻燃) 护套。

The structure of the optical-fiber composite cable is that the single-mode or multi-mode optical fiber is put into a loose tube made of high-modulus polyester material, and the casing is filled with waterproof compound. At the same time add one or more copper wire and loose tube with the core stranded in the core to form the core, for some types of fiber optic cable, the metal reinforcement core need to squeeze a layer of polyethylene (PE). The gap in the cable core is filled with a water blocking filler. Coated with aluminum or strip after the vertical extrusion of polyethylene (or flame retardant) jacket.

产品特点
Product features

◎ 使用光电复合缆远供系统线路设备容量比较灵活，既可用于用户密集地区，又可用于用户较分散的地区。

◎ 使用光电混合缆后由于近端电源模块采用了 -48 伏供电技术，在停电的情况下，依然能通过蓄电池变频升压后将电力经混合缆传输至远端接入点，使设备维持正常工作状态。

◎ 光电一体，解决另外再敷设电源线的问题，节省材料成本，同时避免给原有路线附加额外线路负荷带来的隐患。光电可以同时施工，建设周期短，减少施工费用。

◎ 传统电缆重量重、施工不方便。光电混合缆外径细、重量轻，光缆部分与电缆部分保持相对独立，便于安装时的引入、引出和连接，方便施工。

◎ 传统的接入网需要配备专用机房和专门的运维人员。光电复合缆远端为室外机型，可以免机房，免维护。

◎ The use of optical composite cable for the system line equipment capacity is more flexible, can be used for user-intensive areas, but also for the user more dispersed areas.

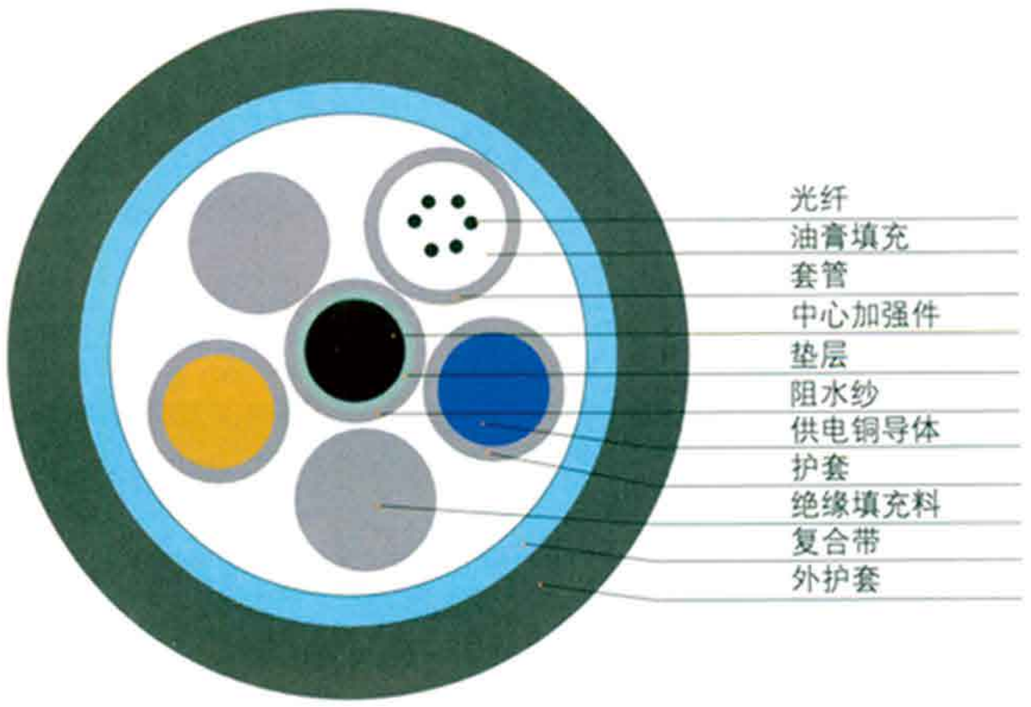
◎ use of optical hybrid cable after the use of near-end power supply module -48-volt power supply technology, in the case of power outages, the battery can still be boosted by the frequency of power transmission through the hybrid cable to the remote access point, the equipment to maintain normal Working condition.

◎ optoelectronic integration, to solve the problem of laying another power line, saving material costs, while avoiding the additional routes to the original line load to bring hidden dangers. The photoelectricity can simultaneously construct, the construction period is short, reduces the construction expense

◎ heavy traditional cable, construction is not convenient. Optic hybrid cable with small outer diameter, light weight, part of the cable and cable parts remain relatively independent, easy to install when the introduction, leads and connections to facilitate construction.

◎ The traditional access network needs to be equipped with special computer room and special operation and maintenance personnel. Optical composite cable for the remote end of the model, you can free room, maintenance-free.

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数 Number of fiber cores	套管规格 Casing specifications (mm)	导体规格 Conductor specification (mm^2)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
4 ~ 48	2.2	1.0	600 / 1500	300 / 1000
4 ~ 48	2.4	1.5	600 / 1500	300 / 1000
4 ~ 48	2.7	2.0	600 / 1500	300 / 1000
4 ~ 48	3	2.5	600 / 1500	300 / 1000
4 ~ 48	3.4	3.0	600 / 1500	300 / 1000

注：1) 导体规格为铜线的截面积；
2) 典型值可以根据实际情况作相应调整；
3) 可根据用户需要可设计生产满足要求的产品；
4) 型号描述 GDTA(S)—光纤数量及类别 + 导体数量 × 导体 × 截面积。

Note: 1) Conductor specifications for the copper cross-sectional area:
2) The typical value can be adjusted according to the actual situation;
3) according to user needs can be designed to meet the requirements of the production of products;
4) Model Description GDTA (S) – Number and type of fiber + number of conductors × conductor × cross-sectional area.

GYXTS 中心管式 S 护套光缆
GYXTS Center Tube S-sheath Cable

产品描述
Product description

GYXTS（金属加强构件，钢 — 聚乙烯粘结护套中心束管式全填充型通信用室外光缆）光缆的结构是将单模或多模光纤套入由高模量的塑料做成的，内填充防水化合物松套管中并置于缆的中心，增强钢丝围绕中心套管绞合成圆形紧凑的缆芯，缆芯内的缝隙充以阻水化合物，涂塑钢带纵包后聚乙烯护套。

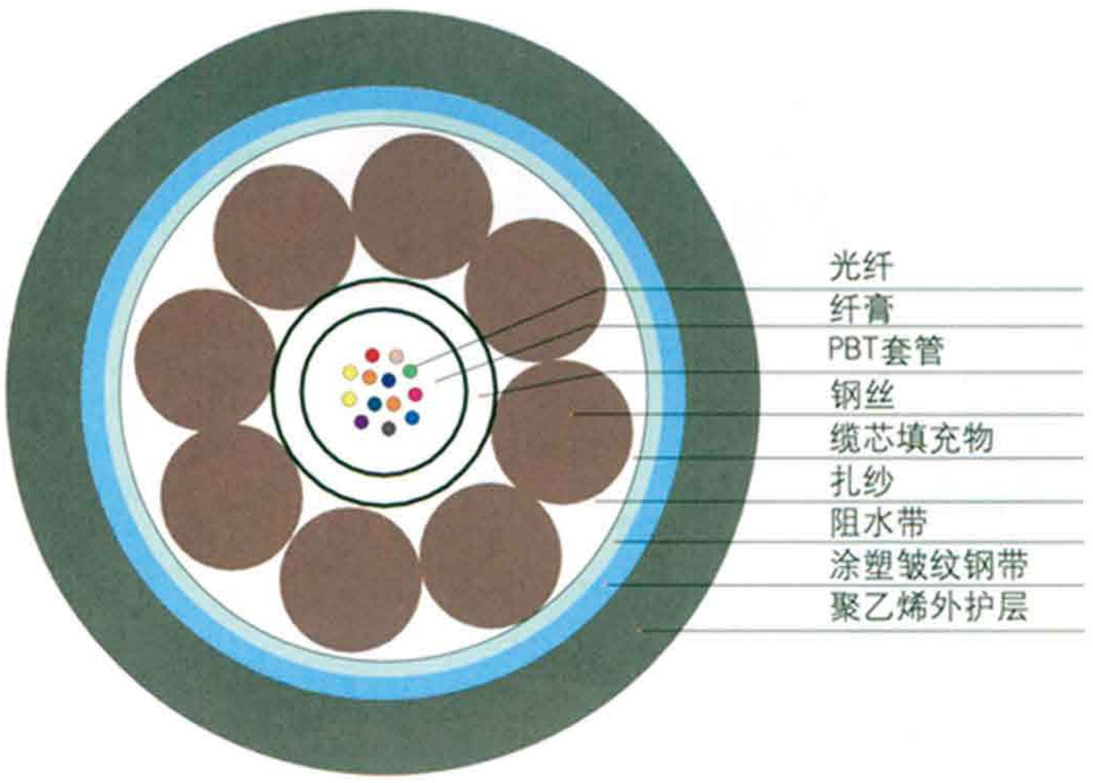
GYXTS (metal reinforced, steel–polyethylene bonded jacket center beam tube full–filled outdoor communication cable) The structure of the cable is single–mode or multi–mode fiber into the high modulus of plastic into, Filled waterproof compound loose tube and placed in the center of the cable, reinforced steel wire around the central casing stranded into a compact compact cable core, the core of the gap filled with water blocking compounds, coated steel tape after the vertical package of polyethylene sheath .

产品特点
Product features

◎ 精确控制光纤的余长保证了光缆具有很好的抗拉性能和温度特性
◎ PBT 松套管材料具有良好的耐水性能，管内充以特种油膏，对光纤进行保护
◎ 光滑的外护套使光缆在安装中可以有更小的摩擦系数
◎ PE 护套具有良好的抗太阳辐射性能
◎ 采用下列措施来确保光缆的防水性能：
—松套管内填充特种防水化合物
—完全缆芯填充
—涂塑钢带防潮层

◎ Precise control of the length of fiber to ensure that the cable has a good tensile properties and temperature characteristics
◎ PBT loose tube material has good water resistance, the tube filled with special ointment, the optical fiber protection
◎ Smooth outer jacket to the cable in the installation can have a smaller coefficient of friction
◎ PE sheath has good resistance to solar radiation
◎ Take the following measures to ensure the waterproof performance of the cable:
– Loose tube filled with special water–resistant compounds
– Full cable core filling
– Damp proof layer of coated steel strip

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

光纤芯数（以 2 芯替增）Fiber core number (with 2–core replacement)	钢丝（直径 mm× 根数）Wire (diameter × root number) (mm)	光缆直径 Cable diameter (mm)	光缆重量 Weight of cable (kg/km)	允许拉伸力 长期 / 短期 Allowable tensile force Long / short term (N)	允许压扁力 长期 / 短期 Allows the flattening force Long / short term (N/100mm)
2 ~ 6	0.85 × 12	9.4	≤ 150	600 / 1500	300 / 1000
8 ~ 12	0.9 × 12	9.8	≤ 160	600 / 1500	300 / 1000

注：以上表格仅供参考，公司保留对上述参数做修改的权利。
Note: The above table is for reference only, the company reserves the right to modify the parameters.

TIANKE CABLE

单芯光缆
Single Core Optical Cable

产品描述
Product description

单芯光缆是由一根紧套光纤，外包高强度芳纶纱后，再挤上一层护套材料构成。

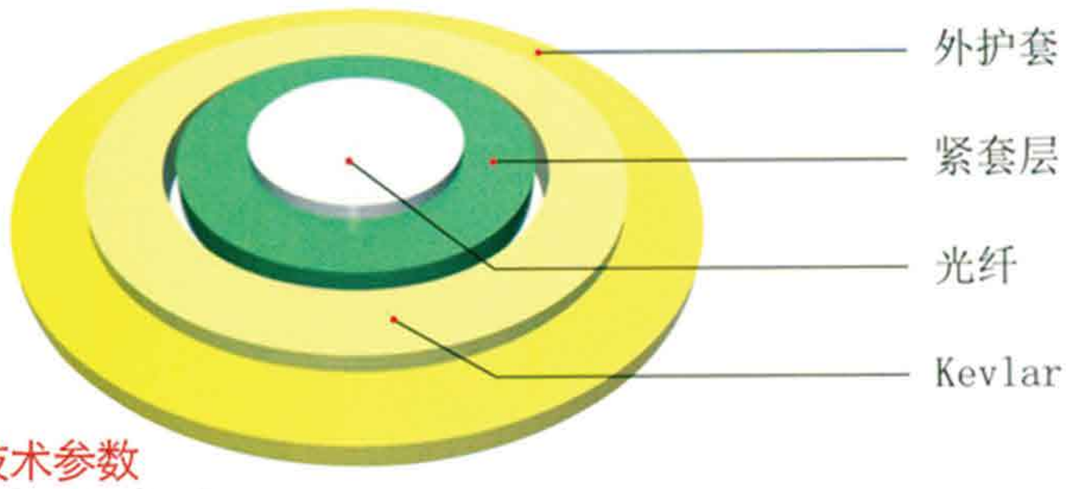
Single-core fiber optic cable is a tight set of fiber, high-strength aramid yarn after outsourcing, and then squeezed on a layer of sheath material composition.

产品特点及应用
Product features

◎ 采用紧套设计，芳纶纤维加强，强度高，重量轻，易于施工和接续；
◎ 柔软级阻燃护套，具有防延燃性和自熄性；
◎ 适合组装成跳线或尾纤；
◎ 适合用于光端设备之间以及主干光缆的连接；
◎ 楼内局域网 (LAN) 或机舱内设备、仪表间的理想连线。

◎ Adopt the tight sleeve design, the aramid fiber strengthens, the intensity is high, the weight is light, easy to construct and continue;
◎ soft-grade flame-retardant jacket, with anti-flame retardant and self-extinguishing;
◎ suitable for assembly into a jumper or pigtail;
◎ suitable for optical equipment and trunk cable between the connection;
◎ In-building local area network (LAN) or cabin equipment, the ideal connection between the instrument.

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJFJV-1	2	4.5	100	60	500	100	60	30
GJFJV-1	2.4	6	100	60	500	100	60	30
GJFJV-1	3	7	100	60	500	500	60	30
工作温度 Operating temperature (℃)	-20 ~ +60							
工作波长 Working wavelength	850 / 1300nm						1310 / 1550nm	
光纤类别 Fiber type	多模光纤 Multimode fiber						G.652	G.655
芯 / 包层直径 Core / cladding diameter	50 / 125um		62.5 / 125um				\	\
衰减 (dB / km)	≤ 3.0 / 1.0		≤ 3.5 / 1.5				≤ 0.36 / 0.22	≤ - / 0.4
带宽 (MHz.km)	≥ 200 / 400		≥ 160 / 200				\	\

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：
光纤种类：单模 G.652B/D、G.657 或 G.655A/B/C 光纤，多模 Ala、Alb/OM3 光纤，或其它型号及种类的光纤。
材料的选定：根据用户的需求此结构光缆护套材料可以选用 PVC，PU，LSZH，PLENUM 等材料。
交货长度：根据用户要求生产。

Ordering requirements:
Fiber types: single-mode G.652B / D, G.657 or G.655A / B / C fiber, multimode Ala, Alb / OM3 fiber, or other types and types of fiber.
Material selection: According to the needs of users of this structure can be used PVC sheath material, PU, LSZH, PLENUM and other materials.
Delivery length: according to user requirements.

双芯光缆
Double Core Optical Cable

产品描述
Product description

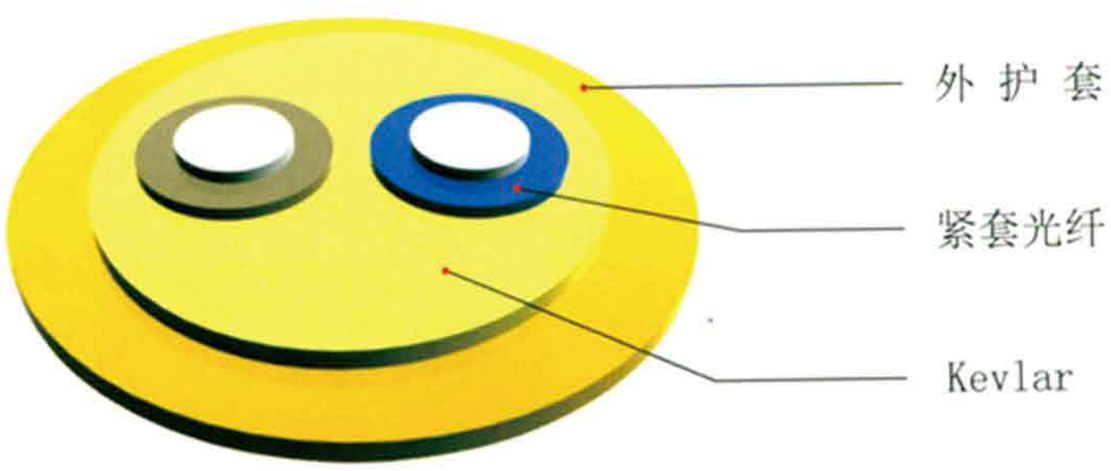
圆形双芯室内光缆是由两根单芯紧套光纤外包芳纶再挤一层护套构成。
Round dual-core indoor fiber optic cable is composed of two single-core tight set of optical fiber outsourcing aramid and then squeeze a layer of sheath composition.

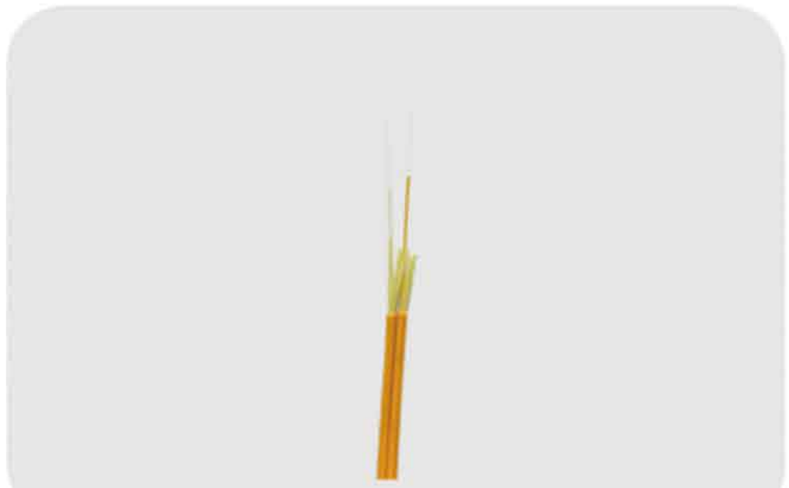
产品特点及应用
Product features

◎ 强度高、重量轻，易于施工和接续；
◎ 柔韧性能好，适合组装跳线；
◎ 适合用于光缆设备之间以及主干光缆的连接；
◎ 采用特种材料，可用于机舱内、设备、仪表间相连。

◎ high strength, light weight, easy construction and continuation:
◎ Flexible performance, suitable for assembly jumper;
◎ suitable for fiber optic cable between the equipment and the backbone of the connection;
◎ using special materials, can be used in the cabin, equipment, instrumentation connected.

结构示意图
Structure diagram





典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJFJV-2	3.2	8	100	60	500	100	60	30
工作温度 Operating temperature (℃)	-20 ~ +60							
工作波长 Working wavelength	850 / 1300nm						1310 / 1550nm	
光纤类别 Fiber type	多模光纤 Multimode fiber						G.652	G.655
芯 / 包层直径 Core / cladding diameter	50 / 125um		62.5 / 125um				\	\
衰减 (dB / km)	≤ 3.0 / 1.0		≤ 3.5 / 1.5				≤ 0.36 / 0.22	≤ - / 0.4
带宽 (MHz.km)	≥ 200 / 400		≥ 160 / 200				\	\

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：
光纤种类：单模G.652B/D、G.657或G.655A/B/C光纤，多模Ala、Alb/OM3光纤，或其它型号及种类的光纤。
材料的选定：根据用户的需求此结构光缆护套材料可以选用PVC，PU，LSZH，PLENUM等材料。
交货长度：根据用户要求生产。

Ordering requirements:
Fiber types: single-mode G.652B / D, G.657 or G.655A / B / C fiber, multimode Ala, Alb / OM3 fiber, or other types and types of fiber.
Material selection: According to the needs of users of this structure can be used PVC sheath material, PU, LSZH, PLENUM and other materials.
Delivery length: according to user requirements.

TIANKE CABLE

束状光缆
Bundle Fiber Optic Cable

产品描述
Product description

多芯室内束状光缆是由若干根紧套光纤或紧套光纤单元绞合成缆后，再挤上一层外护套材料构成。

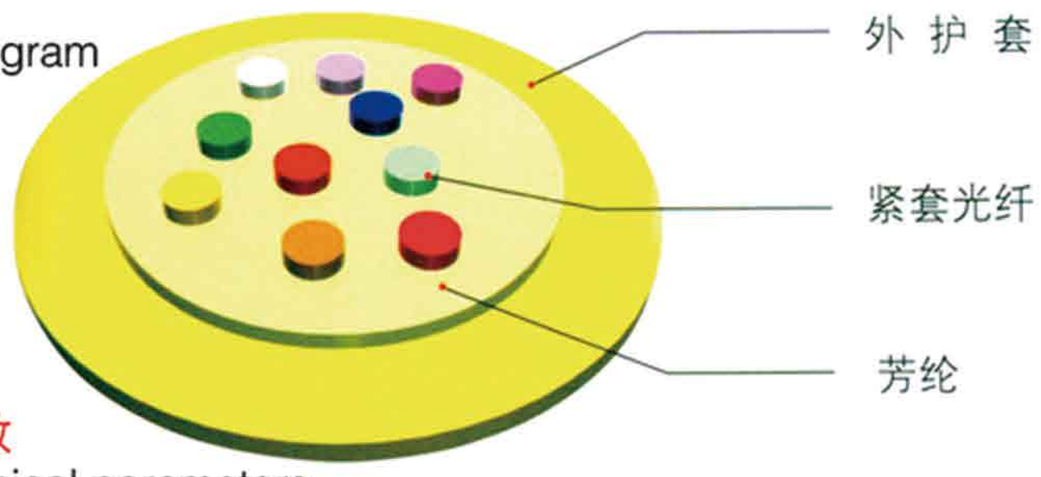
Multi-core indoor bundle fiber optic cable is a number of tight sets of optical fiber or tight sets of optical fiber unit twisted into a cable, and then squeezed on a layer of outer sheath material composition.

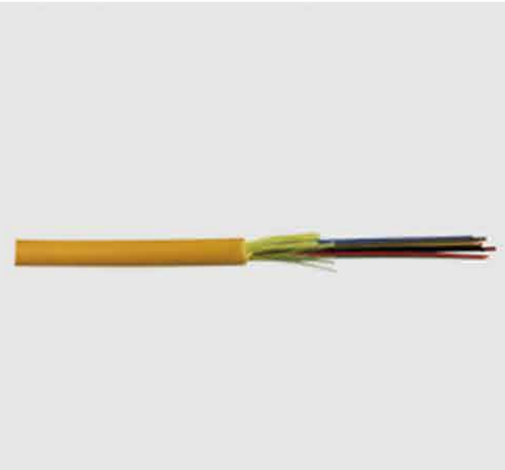
产品特点及应用
Product features

◎ 纤芯数多（最多可达 144 芯），结构紧凑，直径小，重量轻，柔软性好；
◎ 全介质结构设计，性能优异，满足室内不同安装需求；
◎ 尤其适合高层建筑、办公大楼多信息点的布线场合；
◎ 既适合加工成连接头，与设备、仪表直接连接，又能与户外光缆对接。

◎ core number (up to 144 core), compact, small diameter, light weight, good softness;
◎ All dielectric structure design, excellent performance, to meet different indoor installation needs;
◎ especially for high-rise buildings, office buildings and more information point of the wiring occasions;
◎ not only suitable for processing into a connector, and equipment, instrumentation directly connected, but also with the outdoor cable docking.

结构示意图
Structure diagram





典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJPFJV-6	5	22.5	660	200	1000	300	120	60
GJPFJV-8	5.5	24	660	200	1000	300	120	60
GJPFJV-12	6	29	660	200	1000	300	120	60
GJPFJV-24	7.8	60	1320	400	1000	300	160	80
GJPFJV-36	15.8	300	1320	400	1000	300	680	340
GJPFJV-48	17.4	330	1320	400	1000	300	680	340
GJPFJV-72	23	580	1320	400	1000	300	680	340
GJPFJV-96	26	660	1320	400	1000	300	680	340
工作温度 Operating temperature (℃)	-20 ~ +60							
传输特性 Transmission characteristics	单模 Single mode(dB/km)				多模 Multi-mode(dB/km)			
	1310mm		1550mm		850nm		1300nm	
	0.36		0.22		3.5		1.5	

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：
光纤种类：单模 G.652B/D、G.657 或 G.655A/B/C 光纤，多模 Ala、Alb/OM3 光纤，或其它型号及种类的光纤。
材料的选定：根据用户的需求此结构光缆护套材料可以选用 PVC，PU，LSZH，PLENUM 等材料。
交货长度：根据用户要求生产。

Ordering requirements:
Fiber types: single-mode G.652B / D, G.657 or G.655A / B / C fiber, multimode Ala, Alb / OM3 fiber, or other types and types of fiber.
Material selection: According to the needs of users of this structure can be used PVC sheath material, PU, LSZH, PLENUM and other materials.
Delivery length: according to user requirements.

分支光缆
Branch Cable

产品描述
Product description

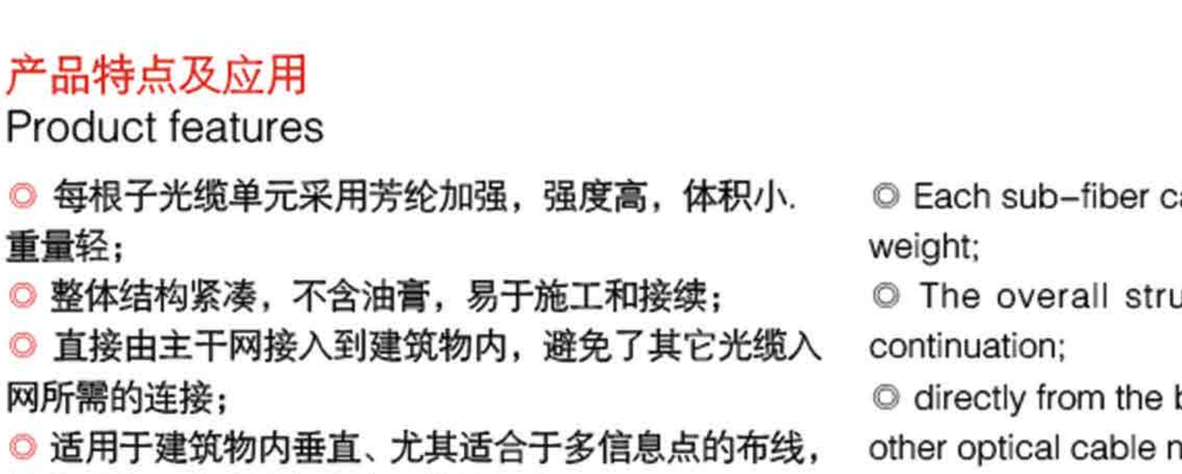
多芯室内分支光缆是由若干根单芯紧套光缆绞合成缆后，再挤上一层外护套构成。
Multi-core indoor branch cable is composed of a number of single-core tight sets of optical cable stranded cable, and then squeezed on a layer of outer sheath.

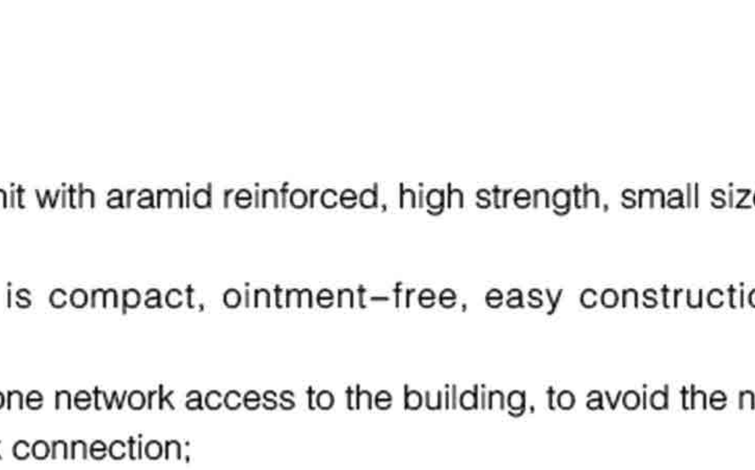
产品特点及应用
Product features

◎ 每根子光缆单元采用芳纶加强，强度高，体积小.重量轻；
◎ 整体结构紧凑，不含油膏，易于施工和接续；
◎ 直接由主干网接入到建筑物内，避免了其它光缆入网所需的连接；
◎ 适用于建筑物内垂直、尤其适合于多信息点的布线，推荐用在与终端用户直接连接的场合。

◎ Each sub-fiber cable unit with aramid reinforced, high strength, small size. Light weight;
◎ The overall structure is compact, ointment-free, easy construction and continuation;
◎ directly from the backbone network access to the building, to avoid the need for other optical cable network connection;
◎ Suitable for vertical in building, especially for multi-information point of the wiring, recommended for use in direct connection with the end-user occasions.

结构示意图
Structure diagram





典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJBFJV-4	8	65	660	200	1000	300	20D	10D
GJBFJV-6	9.5	82	660	200	1000	300	20D	10D
GJBFJV-8	11.5	110	660	200	1000	300	20D	10D
GJBFJV-12	12.5	150	1320	400	1000	300	20D	10D
GJBFJV-24	15	195	1320	400	1000	300	20D	10D
GJBFJV-36	17.5	250	1320	400	1000	300	20D	10D
GJBFJV-48	19.8	375	1320	400	1000	300	20D	10D
GJBFJV-60	24.5	520	1320	400	1000	300	20D	10D
工作温度 Operating temperature (℃)	-20 ~ +60							
传输特性 Transmission characteristics	单模 Single mode(dB/km)				多模 Multi-mode(dB/km)			
	1310mm		1550mm		850nm		1300nm	
	0.36		0.22		3.5		1.5	

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

TIANKE CABLE

蝶形引入管道光缆
Bundle Fiber Optic Cable

产品描述
Product description

蝶形引入管道光缆是在单根皮线光缆两边设置加强元件，再挤上一层护套构成。

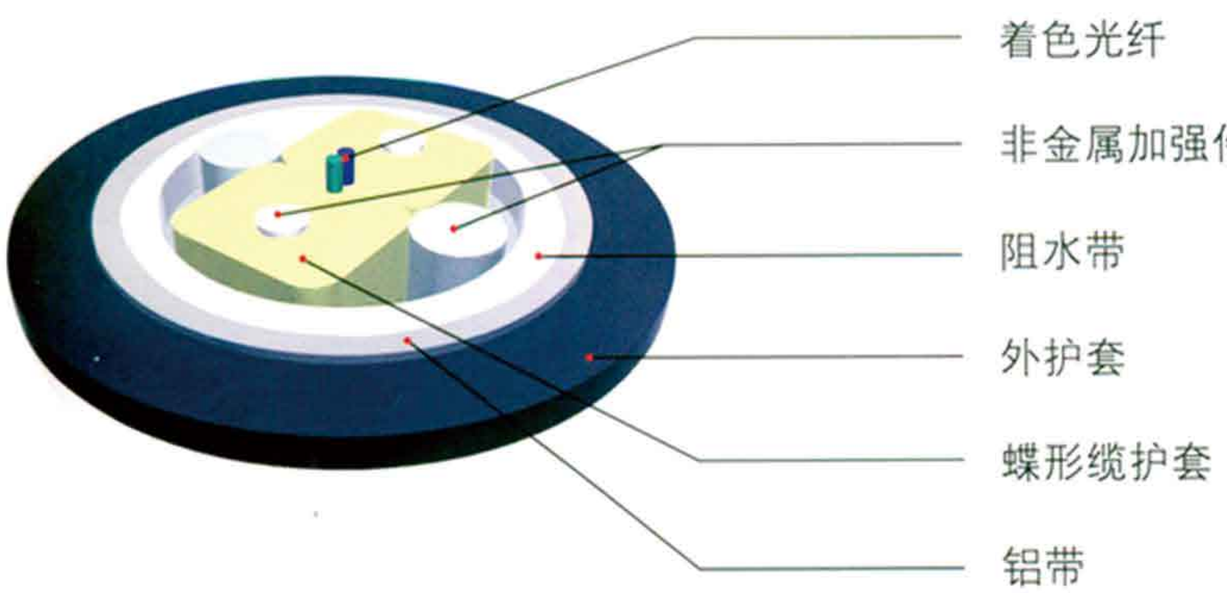
Butterfly-shaped lead-in optical fiber cable is set on both sides of a single fiber cable to strengthen components, and then squeeze on a layer of sheath composition.

产品特点及应用
Product features

◎ 全干式结构设计，施工方便、快捷、清洁；
◎ 采用 G.657 类光纤，具有优良的抗弯性能；
◎ 室内外两用，可与多种连接器匹配，光缆可现场成端。

◎ All dry structure design, construction convenient, fast, clean;
◎ Using G.657 type fiber, with excellent bending resistance;
◎ Indoor and outdoor use, can be matched with a variety of connectors, fiber optic cable can be field-side.

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJYXHA-2	7	70	700	250	1500	600	140	70
GJYXHA-2	7.4	70	700	250	1500	600	140	70
GJYXHA-4	8	78	700	250	1500	600	140	70
工作温度 Operating temperature (℃)	-20 ~ +60							
传输特性 Transmission characteristics	单模 Single mode(dB/km)				多模 Multi-mode(dB/km)			
	1310mm		1550mm		850nm		1300nm	
	0.36		0.22		3.5		1.5	

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：
光纤种类：单模 G.652B/D、G.657 或 G.655A/B/C 光纤，多模 Ala、Alb/OM3 光纤，或其它型号及种类的光纤。
交货长度：根据用户要求生产。

Ordering requirements:
Fiber types: single-mode G.652B / D, G.657 or G.655A / B / C fiber, multimode Ala, Alb / OM3 fiber, or other types and types of fiber.
Delivery length: according to user requirements.

皮线光缆
Paper Cable

产品描述
Product description

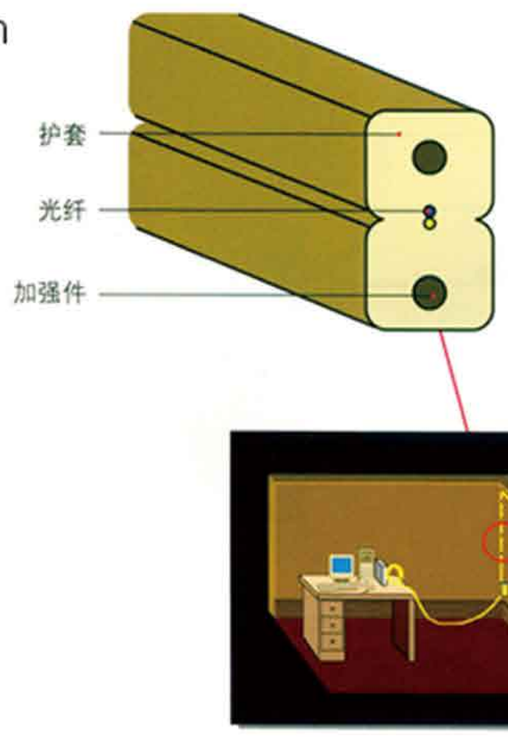
皮线光缆是由具有 UV 光涂层的单模或多模光纤、高强度加强件平行加强，再挤制护套材料构成。
The wire cable is composed of a single-mode or multimode fiber with UV-light coating, high-strength reinforcement parallel to strengthen, and then extruded sheath material composition.

产品特点及应用
Product features

◎ 与专用接插件配合适用于楼内布线；
◎ 采用平行加强结构，提供足够的拉伸力；
◎ 独特的凹槽设计，提供优异的剥离性和足够的压扁力。

◎ With special connectors for wiring in the building;
◎ Parallel to strengthen the structure, to provide adequate tensile force;
◎ Unique groove design, providing excellent peelability and sufficient flattening force.

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJXFH-1	2.0×3.0	14	100	60	1000	500	40	20
GJXFH-2	2.0×3.0	17	100	60	1000	500	40	20
GJXFH-4	2.0×3.0	19	100	60	1000	500	40	20
工作温度 Operating temperature (℃)	−20 ~ +60							
传输特性 Transmission characteristics	单模 Single mode(dB/km)							
	1310mm				1550mm			
	≤ 0.35				≤ 0.25			

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：
光纤种类：G.657 或 G.655A/B/C 光纤。
交货长度：根据用户要求生产。

Ordering requirements:
Fiber types: G.657 or G.655A / B / C fiber.
Delivery length: according to user requirements.

TIANKE CABLE

“8”字形引下入户光缆

Paper Cable

产品描述

Product description

“8”字形引下入户光缆是由具有 UV 光涂层的单模或多模光纤，高强度平行加强件加强，上部带有支持线，再挤制护套材料构成。

The "8" –shaped cable is made of single–mode or multimode fiber with UV–light coating, reinforced with high–strength parallel reinforcement, with a support line at the top and a jacket material.

产品特点及应用

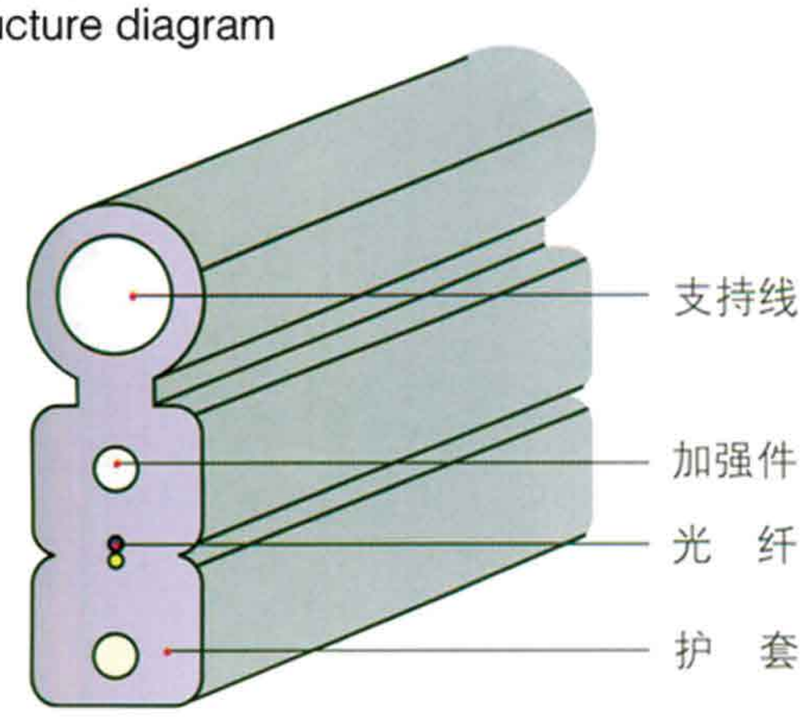
Product features

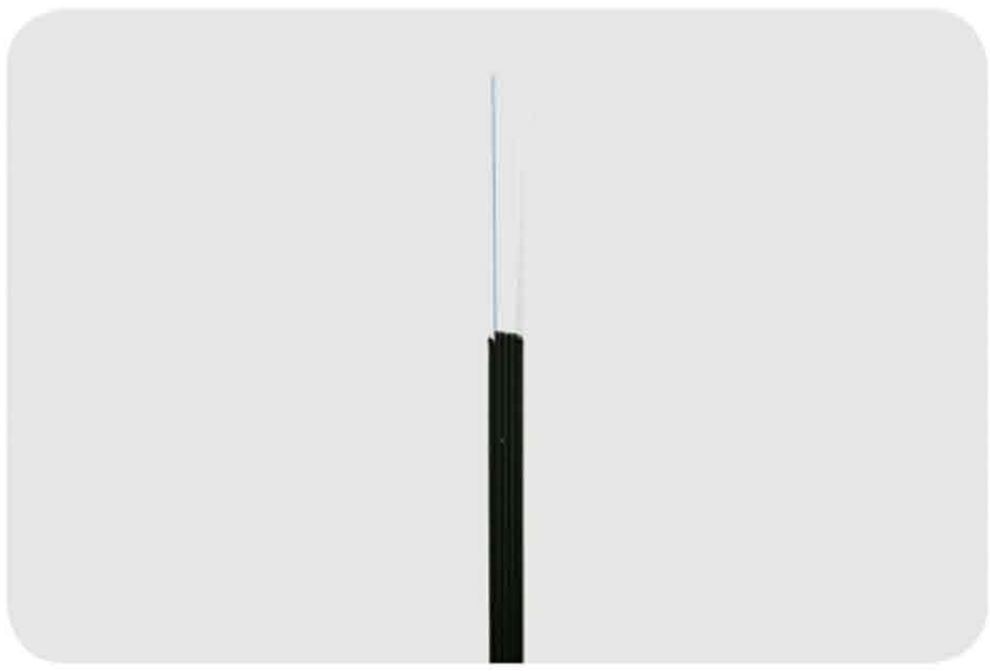
◎ 直接连接室外光缆与住宅楼之间，并与设备相连；
◎ 结构尺寸小、重量轻、适用于小区内布线；
◎ “8”字形结构和独特的凹槽设计提供优异的剥离性能；
◎ 全干式结构，施工方便、快捷。

◎ Direct connection between outdoor cable and residential buildings, and connected with the equipment;
◎ Small size, light weight, suitable for residential wiring;
◎ "8" shaped structure and unique groove design provides excellent peel performance;
◎ All dry structure, construction convenient and fast.

结构示意图

Structure diagram





典型技术参数

Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJYXCH–1	2.0×5.2	40	600	300	2200	1000	20D	10D
GJYXCH–2	2.0×5.2	46	600	300	2200	1000	20D	10D
GJYXCH–4	2.0×6.0	52	600	300	2200	1000	20D	10D
工作温度 Operating temperature (℃)	–20 ~ +60							
传输特性 Transmission characteristics	单模 Single mode(dB/km)							
	1310mm				1550mm			
	≤ 0.35				≤ 0.25			

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：
光纤种类：G.657 或 G.655A/B/C 光纤。
交货长度：根据用户要求生产。

Ordering requirements:
Fiber types: G.657 or G.655A / B / C fiber.
Delivery length: according to user requirements.

防水尾缆
Waterproof Tail Cable

产品描述
Product description

由多根单芯光缆围绕中心加强件绞合后纵包铝塑复合带再挤一层护套构成。

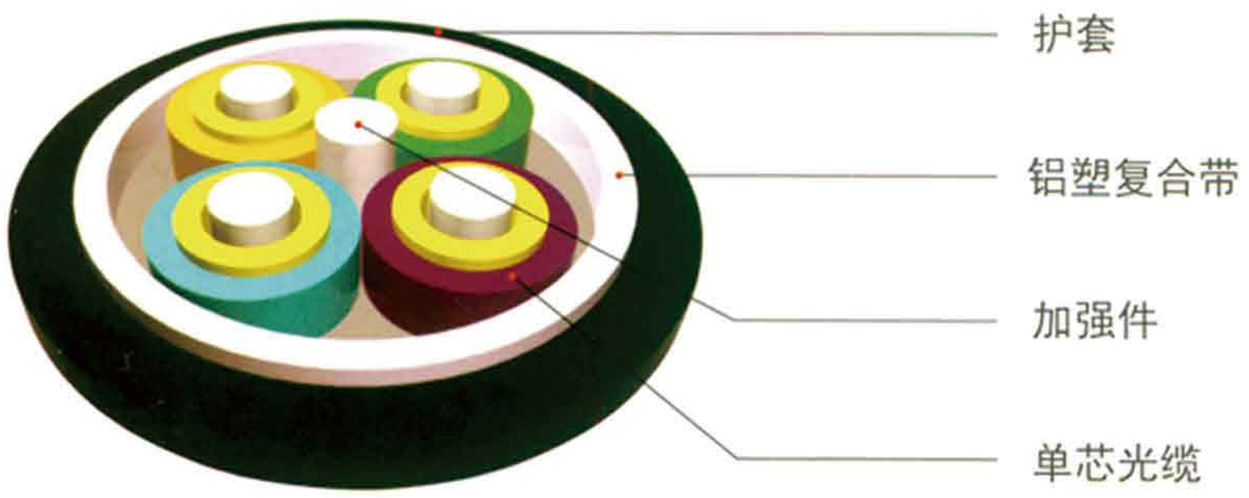
By a number of single-core cable around the central reinforcement stranded after the vertical package of aluminum-plastic composite belt and then squeeze a layer of sheath composition.

产品特点及应用
Product features

- ◎ 体积小、重量轻，应力、应变性能优良；
- ◎ 抗侧压性能高，防潮性能优良；
- ◎ 弯曲半径小，弯曲成型性能优良；
- ◎ 方便室外主干光缆与 CATV 终端设备之间连线；
- ◎ 用于光通信设备机房、光配线架的光连接。

- ◎ Small size, light weight, stress, strain excellent performance:
- ◎ High resistance to lateral pressure, excellent moisture resistance;
- ◎ Bending radius is small, bending forming performance;
- ◎ Convenient outdoor trunk cable and CATV terminal equipment connection;
- ◎ For optical communication equipment room, optical distribution frame optical.

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GTJA-1	11.6	120	1000	300	1000	300	240	120
GTJA-2	11.6	120	1500	600	1000	300	240	120
GTJA-4	11.6	120	1500	600	1000	300	240	120
GTJA-6	11.6	120	1500	600	1000	300	240	120
工作温度 Operating temperature (℃)	-20 ~ +60							
工作波长 Working wavelength	850 / 1300nm						1310 / 1550nm	
光纤类别 Fiber type	多模光纤 Multimode fiber						G.652	G.655
芯 / 包层直径 Core / cladding diameter	50 / 125um		62.5 / 125um				\	\
衰减 (dB / km)	≤ 3.0 / 1.0		≤ 3.5 / 1.5				≤ 0.36 / 0.22	≤ - / 0.4
带宽 (MHz.km)	≥ 200 / 400		≥ 160 / 200				\	\

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：

光纤种类：单模 G.652B/D、G.657 或 G.655A/B/C 光纤，多模 Ala、Alb/OM3 光纤，或其它型号及种类的光纤。

交货长度：根据用户要求生产。

Ordering requirements:

Fiber types: single-mode G.652B / D, G.657 or G.655A / B / C fiber, multimode Ala, Alb / OM3 fiber, or other types and types of fiber.

Delivery length: according to user requirements.

光电复合缆
Optical Composite Cable

产品描述
Product description

光电复合缆由单芯光缆与信号线或电源线围绕中心加强件绞合后芳纶加强，再挤上一层护套材料构成。

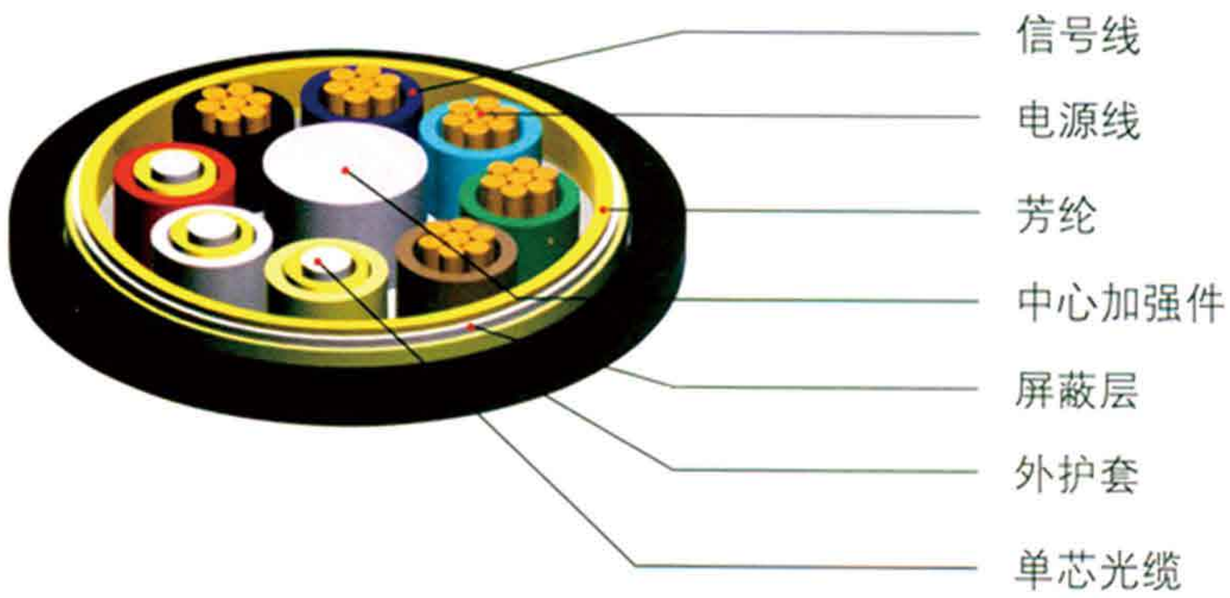
Optical composite cable from the single-core cable and signal line or power cord around the central reinforcement after the strengthening of aramid twisted, and then squeezed on a layer of sheath material composition.

产品特点及应用
Product features

◎ 能同时传送光信号、电信号；
◎ 全干式结构，施工方便快捷，同时也能直接在两端加工特种连接器；
◎ 可应用在飞机、船舱内各设备仪表的连接；
◎ 外护套可采用多种特种材料，满足不同的使用场合。

◎ Can simultaneously transmit optical signals, electrical signals;
◎ All-dry structure, construction convenient and quick, but also directly at both ends of processing special connector;
◎ Can be used in aircraft, cabin equipment within the instrument connection;
◎ Outer jacket can be used a variety of special materials to meet different use occasions.

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	拉伸 Max. tension (N)		弯曲半径 Bending radius (mm)		压扁力 Collapse force (N)
			短期 Short term	长期 Long term	动态 Dynamic	静态 Static	
GJBFJZY	10	160	1500	600	200	100	20D
工作温度 Operating temperature (℃)	−20 ~ +60						
传输特性 Transmission characteristics	单模 Single mode (dB/km)			多模 Multi-mode (dB/km)			
	1310mm	1550nm		850nm			
	≤ 0.36	≤ 0.22		≤ 3.5		≤ 1.5	

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：
光纤种类：单模 G.652B/D、G.657 或 G.655A/B/C 光纤，多模 Ala、Alb/OM3 光纤，或其它型号及种类的光纤。
材料的选定：根据用户的需求此结构光缆护套材料可以选用 PVC，PU，LSZH，PLENUM 等材料。
交货长度：根据用户要求生产。

Ordering requirements:
Fiber types: single-mode G.652B / D, G.657 or G.655A / B / C fiber, multimode Ala, Alb / OM3 fiber, or other types and types of fiber.
Material selection: According to the needs of users of this structure can be used PVC sheath material, PU, LSZH, PLENUM and other materials.
Delivery length: according to user requirements.

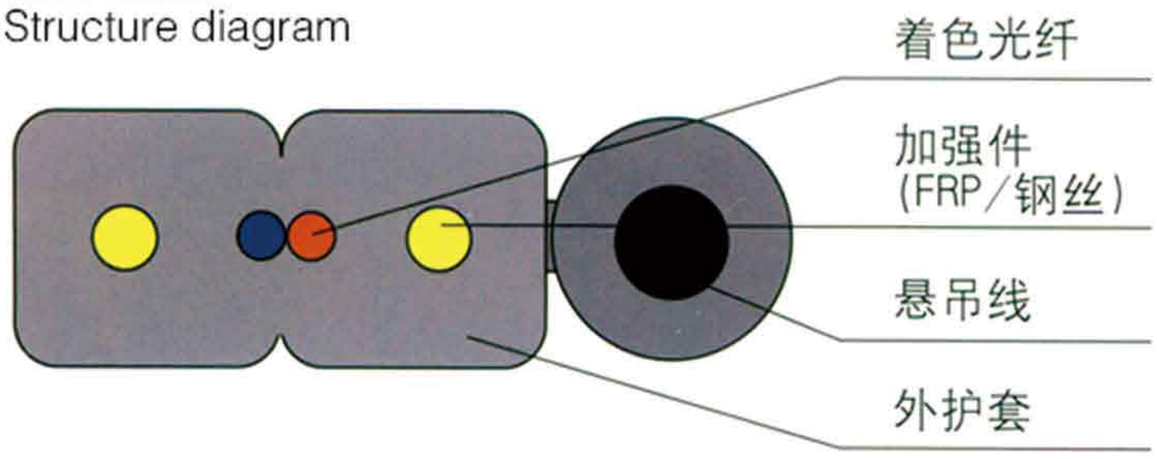
蝶形引入光缆
Butterfly-shaped Introduction of Fiber Optic Cable

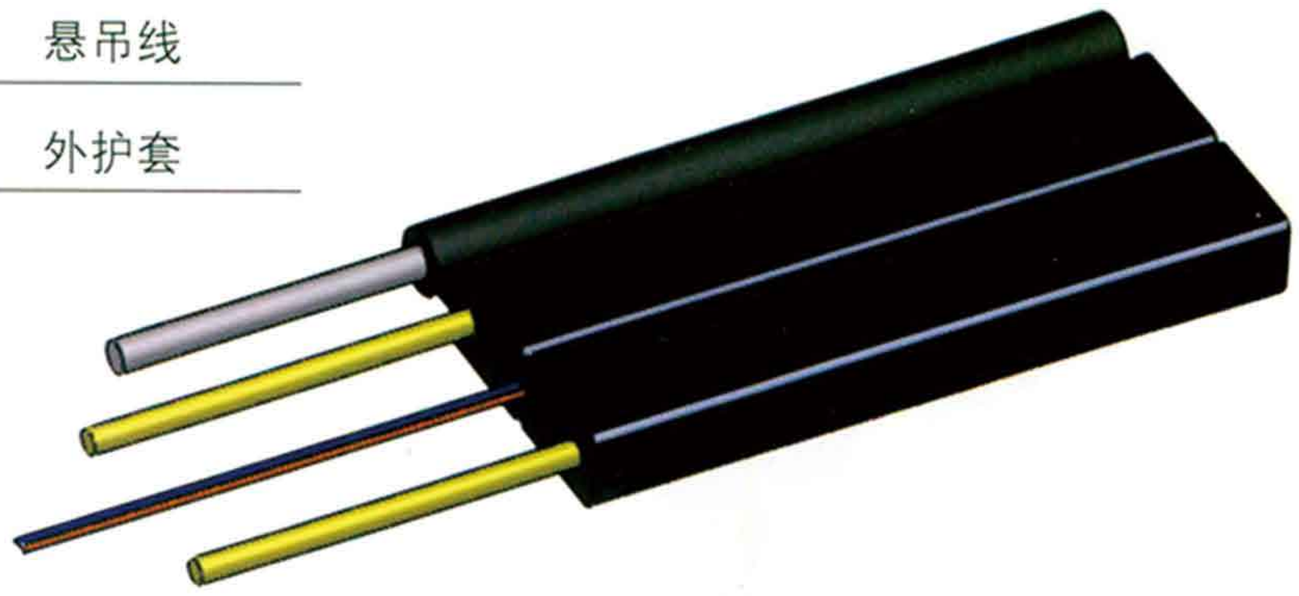
产品特点及应用
Product features

- ◎ 独特凹槽设计，提供优异剥离和足够压扁；
- ◎ 阻燃性具有防延燃和自熄性；
- ◎ 采用平行加强结构，提供足够拉伸力；
- ◎ 与快速连接器配合适用于楼内布线；
- ◎ 终端用户直接用缆。

- ◎ Nnique groove design, providing excellent peel and enough squash;
- ◎ Flame retardant with anti-flame and self-extinguishing;
- ◎ Parallel to strengthen the structure, to provide adequate tensile strength;
- ◎ With the fast connector for wiring in the building;
- ◎ End-user direct cable.

结构示意图
Structure diagram





典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJX(F)H-1	2.0×3.0	12	100 / 200	60 / 100	1000	500	40	20
GJX(F)H-2	2.0×3.0	13	100 / 200	60 / 100	1000	500	40	20
GJX(F)H-4	2.0×4.0	14	100 / 200	60 / 100	1000	500	40	20
GJX(F)CH-1	2.0×5.2	40	600	300	2200	1000	60	30
GJX(F)CH-2	2.0×5.2	46	600	300	2200	1000	60	30
GJX(F)CH-4	2.0×6.0	52	600	300	2200	1000	60	30
工作温度 Operating temperature (℃)	-20 ~ +60							
工作波长 Working wavelength	多模光纤 Multimode fiber							
光纤类别 Fiber type	1310nm				1550nm			
芯 / 包层直径 Core / cladding diameter	⩽ 0.35				⩽ 0.25			

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：

光纤种类：单模弯曲不敏感 G657A2 光纤；护套材料：PVC 料、LSZH 低烟无卤、阻燃 PE 料、低摩擦护套料；
护套颜色：按照标准规定颜色，也可是其它商定颜色；光缆尺寸，标准光缆尺寸；
交货长度：1Km 或者 2Km，也可是其它商定长度。

Ordering requirements:

Fiber type: Single-mode bending is not sensitive to G657A2 fiber; sheath material: PVC material, LSZH low smoke zero halogen, flame retardant PE material, low friction sheathing material;
Jacket color: According to the standard color, but also other agreed colors; cable size, standard cable size; Delivery length: 1Km or 2Km, but also other agreed length.

TIANKE CABLE

多芯柔性钢丝铠装光缆

Multi - core Flexible Steel Wire Armored Cable

产品特点及应用

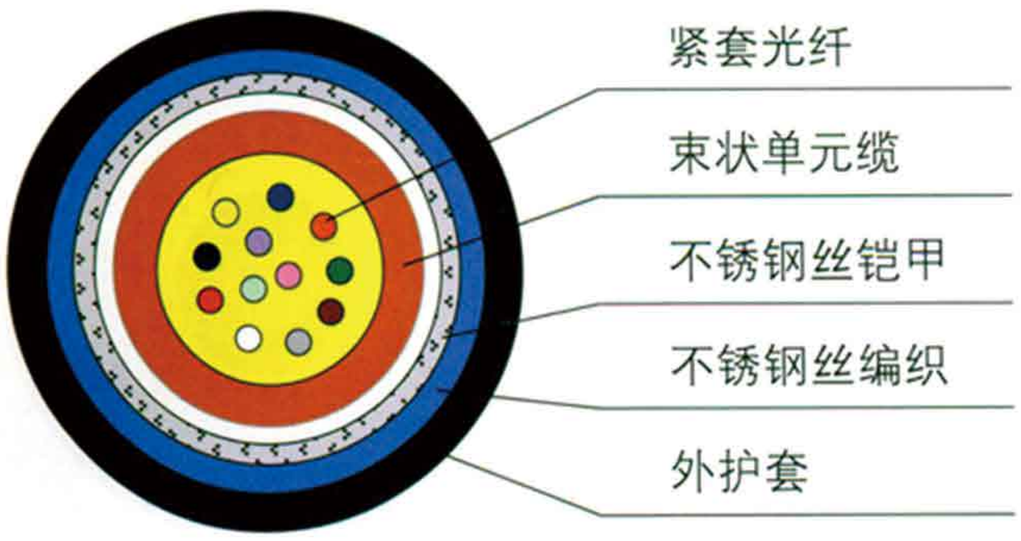
Product features

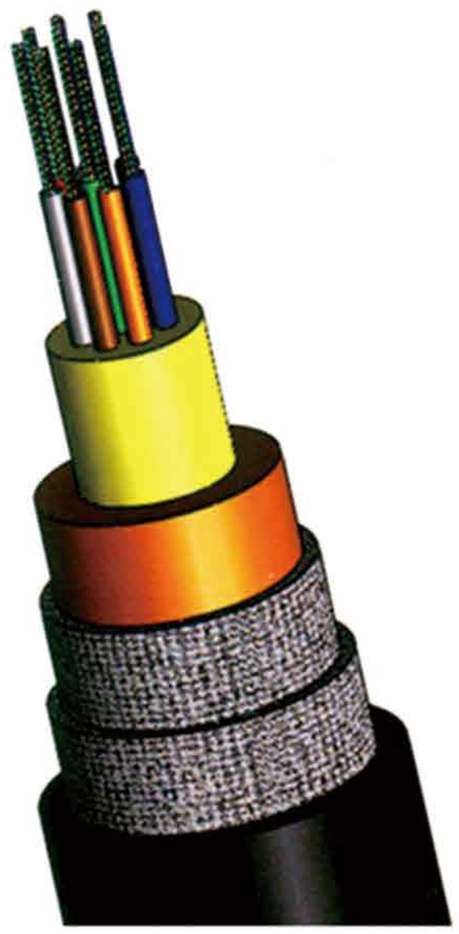
- ◎ 直径小、柔软易弯曲；
- ◎ 具有较高的抗压强度；
- ◎ 以金属软管作保护，防臼齿类动物破坏；
- ◎ 应用于室内布线；
- ◎ 应用于光通信设备机房；
- ◎ 应用于光仪器、设备连接。

- ◎ Small diameter, soft and easy to bend;
- ◎ Has a high compressive strength;
- ◎ To protect the metal hose, anti-molars damage;
- ◎ Used in indoor wiring;
- ◎ Used in optical communication equipment room;
- ◎ Used in optical instruments, equipment connections.

结构示意图

Structure diagram





典型技术参数

Typical technical parameters

产品型号 Model	铠甲外径 Outer diameter of armor (mm)	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
				短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJJS-4	4.8	6.8	70	600	300	3000	1500	20D	10D
GJJS-6	4.8	6.8	72	600	300	3000	1500	20D	10D
GJJS-8	5.2	7.5	76	600	300	3000	1500	20D	10D
GJJS-12	5.8	8	82	600	300	3000	1500	20D	10D
工作温度 Operating temperature (℃)		-20 ~ +60							
传输特性 Transmission characteristics		单模 Single mode (dB/km)				多模 Multi-mode (dB/km)			
		1310nm	1550nm			850nm	1300nm		
		≤ 0.4	≤ 0.3			≤ 3.5	≤ 1.5		
备注：表中所有数值均为参考值，以客户实际需要尺寸为准。 Note: All values in the table are reference values, subject to the actual needs of customers.									

订购要求：

光纤种类：单模 G.652、G.655、或 G.657，多模 Ala 或 Alb 光纤，OM3 或 OM4 或其它种类；

护套材料：PVC 料、LSZH 低烟无卤、TPU 或其它商定材料；

护套颜色：按照标准规定颜色，也可是其它商定颜色；

光缆尺寸：标准光缆尺寸，也可是其它商定尺寸；

交货长度：0.5Km，也可是其它商定长度。

Ordering requirements:

Fiber types: single-mode G.652, G.655, or G.657, multimode Ala or Alb fiber, OM3 or OM4 or other types;

Sheath material: PVC material, LSZH low smoke zero halogen, TPU or other agreed materials;

Sheath color: in accordance with the provisions of the standard color, but also other agreed color;

Cable size: standard cable size, but also other agreed size;

Delivery length: 0.5Km, but also other agreed length.

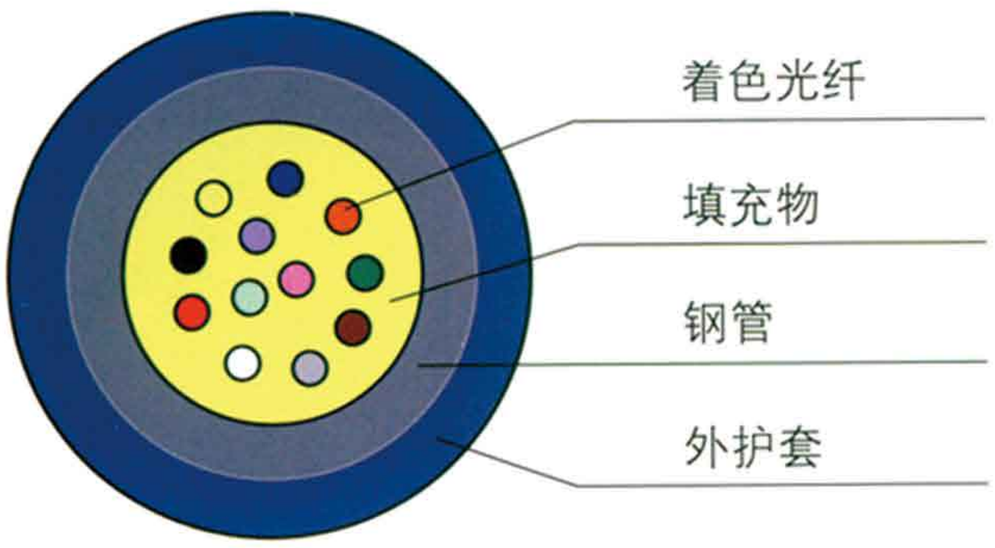
路面微槽光缆
Roadway Micro - slot Optical Cable

产品特点及应用
Product features

- ◎ 直径小、重量轻、易弯曲；
- ◎ 中心不锈钢管结构，温度性能优良；
- ◎ 以金属软管作保护，防臼齿类动物破坏；
- ◎ 适用于缺乏管道资源的场合；
- ◎ 光配线架的光连接；
- ◎ 室外主干缆与 CATV 终端设备间连线。

- ◎ Small diameter, light weight, easy to bend;
- ◎ Central stainless steel pipe structure, excellent temperature performance;
- ◎ To protect the metal hose, anti-molars damage;
- ◎ Apply to the lack of pipeline resources of the occasion;
- ◎ Optical distribution frame optical connection;
- ◎ Connection between outdoor trunk cable and CATV terminal equipment.

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

产品型号 Model	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
			短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GL-(2-48)	6.8	50	500	220	1000	300	140	70
GL-(50-140)	7.2	52	700	260	1000	300	140	70
工作温度 Operating temperature (℃)	-20 ~ +60							
传输特性 Transmission characteristics	单模 Single mode (dB/km)				多模 Multi-mode (dB/km)			
	1310nm		1550nm		850nm		1300nm	
	≤ 0.4		≤ 0.3		≤ 3.5		≤ 1.5	
备注：表中所有数值均为参考值，以客户实际需要尺寸为准。 Note: All values in the table are reference values, subject to the actual needs of customers.								

订购要求：

光纤种类：单模 G.652、G.655、或 G.657，多模 Ala 或 Alb 光纤，OM3 或 OM4 或其它种类；

护套材料：PVC 料、LSZH 低烟无卤或其它商定材料；

护套颜色：按照标准规定颜色，也可是其它商定颜色；

光缆尺寸：标准光缆尺寸，也可是其它商定尺寸；

交货长度：1Km，也可是其它商定长度。

Ordering requirements:

Fiber types: single-mode G.652, G.655, or G.657, multimode Ala or Alb fiber, OM3 or OM4 or other types;

Sheath material: PVC material, LSZH low smoke zero halogen or other agreed materials;

Sheath color: in accordance with the provisions of the standard color, but also other agreed color;

Cable size: standard cable size, but also other agreed size;

Delivery length: 1Km, but also other agreed length.

TIANKE CABLE

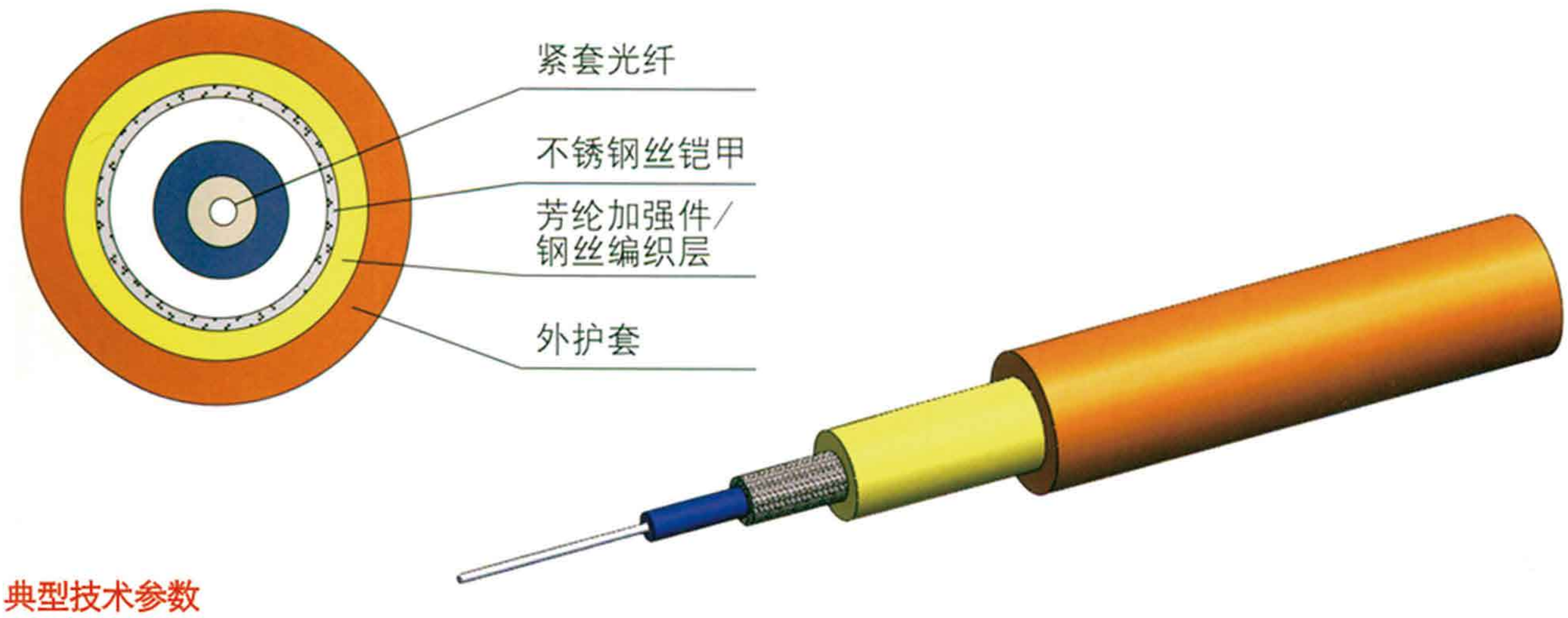
单芯柔性钢丝铠装光缆
Single Core Flexible Steel Wire Armored Cable

产品特点及应用
Product features

- ◎ 直径小、柔软易弯曲；
- ◎ 具有较高的抗压强度；
- ◎ 以金属软管作保护，防臼齿类动物破坏；
- ◎ 应用于室内布线；
- ◎ 应用于尾纤、跳线；
- ◎ 用于测温、传感等场合。

- ◎ Small diameter, soft and easy to bend;
- ◎ Has a high compressive strength;
- ◎ To protect the metal hose, anti-molars damage;
- ◎ Used in indoor wiring;
- ◎ Used in pigtail, jumper;
- ◎ For temperature, sensing and other occasions.

结构示意图
Structure diagram



典型技术参数
Typical technical parameters

产品型号 Model	铠甲外径 Outer diameter of armor (mm)	外径 Outside diameter (mm)	重量 Weight (kg/km)	最大张力 Max. tension (N)		最大压扁力 Max. collapse force (N/10cm)		最小弯曲半径 Min. bending radius (mm)	
				短期 Short term	长期 Long term	短期 Short term	长期 Long term	安装时 Installation	工作时 Work
GJJS-1	0.9	2.0	15	200	100	3000	1500	20D	10D
GJJS-1	1.2	2.0	18	200	100	3000	1500	20D	10D
GJJS-1	1.7	3.0	22	200	100	3000	1500	20D	10D
GJJS-1	2.2	3.0	27	200	100	3000	1500	20D	10D
工作温度 Operating temperature (℃)		–20 ~ +60							
传输特性 Transmission characteristics		单模 Single mode (dB/km)				多模 Multi-mode (dB/km)			
		1310nm		1550nm		850nm		1300nm	
		≤ 0.4		≤ 0.3		≤ 3.5		≤ 1.5	

备注：表中所有数值均为参考值，以客户实际需要尺寸为准。
Note: All values in the table are reference values, subject to the actual needs of customers.

订购要求：

光纤种类：单模 G.652、G.655、或 G.657，多模 Ala 或 Alb 光纤，OM3 或 OM4 或其它种类；
护套材料：PVC 料、LSZH 低烟无卤或其它商定材料；
护套颜色：按照标准规定颜色，也可是其它商定颜色；
光缆尺寸：标准光缆尺寸，也可是其它商定尺寸；
交货长度：1Km，也可是其它商定长度。

Ordering requirements:

Fiber types: single-mode G.652, G.655, or G.657, multimode Ala or Alb fiber, OM3 or OM4 or other types;
Sheath material: PVC material, LSZH low smoke zero halogen or other agreed materials;
Sheath color: in accordance with the provisions of the standard color, but also other agreed color;
Cable size: standard cable size, but also other agreed size;
Delivery length: 1Km, but also other agreed length.