

Unitube Light-armored Cable (GYXS/GYXTW)

(GYXS/GYXTW)中心管式轻铠装光缆

Description 产品描述

The fibres, 250µm, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. The tube is wrapped with a layer of PSP longitudinally. Between the PSP and the loose tube water-blocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the steel tape. The cable is completed with a polyethylene (PE) sheath.

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

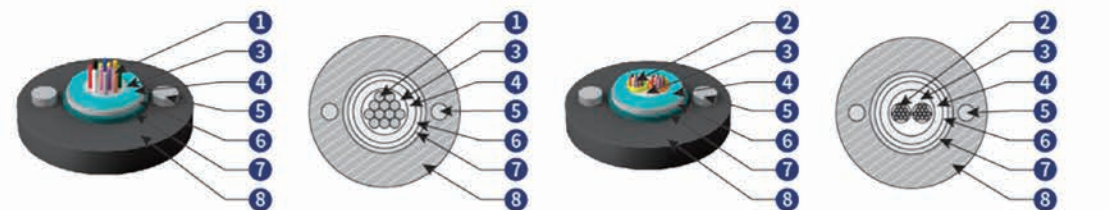
Characteristics 产品特点

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

Standards 产品标准

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

Structure Drawing 结构图



- | | | | |
|---------------------|------------------------------------|-----------------------------------|-----------------------|
| 1. Fibre
光纤 | 2. Tube Bundle
光纤束 | 3. Tube Filling Compound
套管填充物 | 4. Loose Tube
松套管 |
| 5. Steel Wire
钢丝 | 6. Water-blocking Material
阻水材料 | 7. PSP
涂塑钢带 | 8. PE Sheath
聚乙烯护套 |

Specifications 参数

Technical Parameters 结构参数

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

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

Optical Characteristics 光学特性

Fiber Type 光纤类型	Attenuation 衰减 (+20°C)				Bandwidth 带宽		Numerical Aperture 数值孔径	Cable Cut-off Wavelength λ _c 光缆截止波长
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
Unit	dB/km	dB/km	dB/km	dB/km	MHZ.km	MHZ.km	NA	nm
G.652			≤0.36	≤0.22	—	—	—	≤1260
G.655			≤0.40	≤0.23	—	—	—	≤1450
50/125µm	≤3.3	≤1.2	—	—	≥500	≥500	0.200±0.015	—
62.5/125µm	≤3.5	≤1.2	—	—	≥200	≥500	0.275±0.015	—

Note:
注意:

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

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

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

Application: Duct/Aerial
适用: 管道、架空