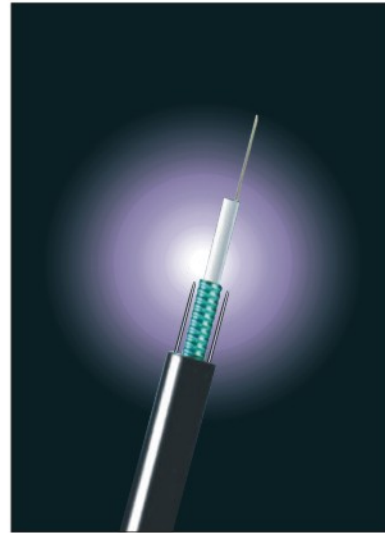


中心管式轻铠装光缆(GYXS / GYXTW) Unitube Light-armored Cable

产品描述 Description

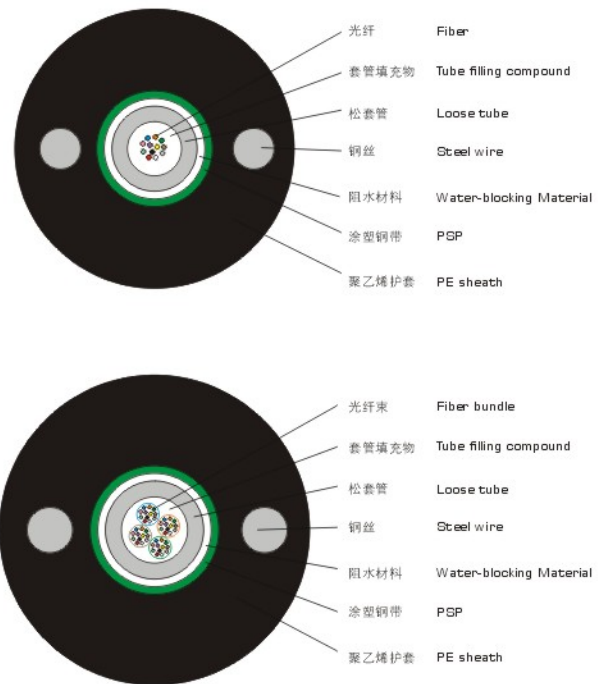
GYXS / GYXTW 光缆的结构是将 250 μ m 光纤套入高模量材料制成的松套管中, 松套管内填充防水化合物。松套管外用一层双面涂塑钢带 (PSP) 纵包, 钢带和松套管之间加阻水材料以保证光缆的紧凑和纵向阻水, 两侧放置两根平行钢丝后挤制聚乙烯护套成缆。

The fibers, 250 μ m, 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.



产品特点 Characteristics

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



光缆结构图
Cable Structure

产品标准 Standards

长飞上海公司 GYXS / GYXTW 光缆符合 YD / T 769-2003 标准。
YOFC(SH) GYXS / GYXTW cable complies with Standard YD/T 769-2003.

(GYXS/GYXTW)

适用: 管道、架空
Application: Duct / Aerial

■ 光学特性 Optical Characteristics

	G.652	G.655	50 / 125 μm	62.5 / 125 μm
衰减 Attenuation (+20°C)	@ 850 nm		≤ 3.0 dB / km	≤ 3.0 dB / km
	@1300 nm		≤ 1.0 dB / km	≤ 1.0 dB / km
	@1310 nm	≤ 0.36 dB / km	≤ 0.40 dB / km	
	@1550 nm	≤ 0.22 dB / km	≤ 0.23 dB / km	
带宽 (A级) Bandwidth (Class A)	@ 850 nm		≥ 600 MHz·km	≥ 200 MHz·km
	@1300 nm		≥ 1200 MHz·km	≥ 600 MHz·km
数值孔径 Numerical Aperture			0.200 ± 0.015 NA	0.275 ± 0.015 NA
光缆截止波长 Cable Cut-off Wavelength λ_{cc}	≤ 1260 nm	≤ 1450 nm		

■ 结构参数 Technical Parameters

光缆型号 Cable Type (以2纤递增) (Increased by 2 fibers)	光纤数 Fiber Count	光缆直径 Cable Diameter mm	光缆重量 Cable Weight kg / km	允许拉伸力 Tensile Strength 长期 / 短期 Long / Short Term N	允许压扁力 Crush Resistance 长期 / 短期 Long / Short Term N / 100mm	弯曲半径 Bending Radius 静态 / 动态 Static / Dynamic mm
GYXS / GYXTW-2~12Xn	2~12	10.0	105	600 / 1500	300 / 1000	100 / 200
GYXS / GYXTW-2~12Xn	2~12	10.6	124	1000 / 3000	1000 / 3000	100 / 200
GYXS / GYXTW-14~24Xn	14~24	12.5	149	1000 / 3000	1000 / 3000	100 / 200
GYXS / GYXTW-26~36Xn	26~36	14.0	190	1000 / 3000	1000 / 3000	100 / 200
GYXS / GYXTW-38~48Xn	38~48	15.0	216	1000 / 3000	1000 / 3000	100 / 200

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

注 Note:

- 型号的后缀 Xn 表示选用的光纤类型, 详见长飞上海光纤型号说明;
Suffix Xn denotes fiber type and see details in YOFC(SH)'s optical fiber illustration.
- 套管和光纤的颜色排列见色谱表;
The colour arrangements of fiber and tube are specified in the colour identification table.
- 加强件外侧聚乙烯护套的最小厚度标称值为 1.0mm;
The nominal value of the PE sheath minimum thickness outside of the strength member is 1.0mm.
- 12 芯以下光缆为钢带不扎纹结构; 若客户要求扎纹, 需在合同中特别说明。
The steel tape is not corrugated in the cable with 12 fibers below. If the corrugated steel tape is requested, it should be specified in contract.