

8字型光缆(GYTC8A) Figure 8 Cable

产品描述 Description

GYTC8A 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。缆芯的中心是一根金属加强芯,松套管(和填充绳)围绕中心加强芯绞合成紧凑和圆形的缆芯。缆芯用一层涂塑铝带(APL)纵包后,和钢丝绞线集成到一个8字型的聚乙烯护套内。

长飞光纤光缆(上海)有限公司还可提供Y护套或S护套的8字型光缆GYTC8Y、GYTC8S等,此类产品多应用于自承式架空敷设。

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. A steel wire locates in the center of core as a metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular cable core. After an Aluminum Polyethylene Laminate (APL) moisture barrier is applied around the cable core, this part of cable accompanied with the stranded part are completed with a polyethylene (PE) sheath to be figure 8 structure.

YOFC (SH) figure 8 cable GYTC8Y, GYTC8S are also available on request. This type of cable is specifically applied for self-supporting aerial installation.

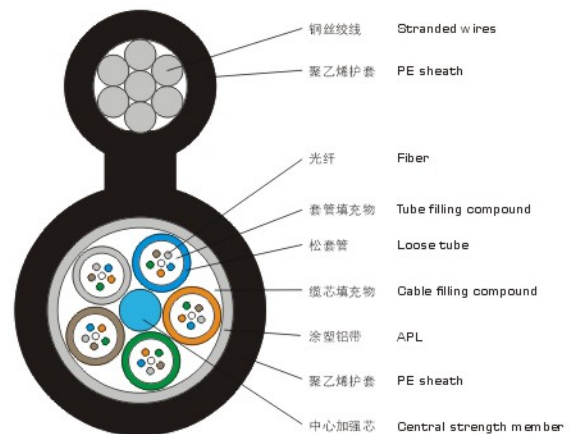
产品特点 Characteristics

- 钢丝绞线具有极高的抗拉强度,便于自承式架空敷设,降低安装成本
High tensile strength of stranded wires meet the requirement of self-supporting and reduce the installation cost.
- 光缆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
- 管内充以特种油脂,对光纤进行了关键性保护
Special tube filling compound ensure a critical protection of fiber
- 采用下列措施来确保光缆的防水性能:
The following measures are taken to ensure the cable watertight:
 - 单根钢丝中心加强芯
Steel wire used as the central strength member
 - 松套管内填充特种防水化合物
Loose tube filling compound
 - 完全缆芯填充
100% cable core filling
 - 涂塑铝带(APL)防潮层
APL moisture barrier

产品标准 Standards

长飞上海公司 GYTC8A 光缆符合 YD/T 1155-2001 和 IEC 60794-1 标准。

YOFC(SH) GYTC8A cable complies with Standard YD/T 1155-2001 as well as IEC 60794-1.



光缆结构图
Cable Structure

(GYTC8A)

适用: 自承式架空

Application: Self-supporting 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	套管数 Tubes	填充绳数 Fillers	光缆直径 Cable Diameter mm	光缆重量 Cable Weight kg / km	允许拉伸力 (不含吊线) Tensile Strength (Without Suspension) 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
GYTC8A-2~6Xn	2~6	1	4	9.5×18.3	218	600 / 1500	300 / 1000	10D / 20D
GYTC8A-8~12Xn	8~12	2	3	9.5×18.3	218	600 / 1500	300 / 1000	10D / 20D
GYTC8A-14~18Xn	14~18	3	2	9.5×18.3	218	600 / 1500	300 / 1000	10D / 20D
GYTC8A-20~24Xn	20~24	4	1	9.5×18.3	218	600 / 1500	300 / 1000	10D / 20D
GYTC8A-26~30Xn	26~30	5	0	9.5×18.3	218	600 / 1500	300 / 1000	10D / 20D

储存、使用温度: -40°C至+70°C

Storage / Operating Temperature: -40°C to +70°C

注 Note:

a. 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.

b. 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.

c. 缆芯聚乙烯护套厚度标称值 1.5mm, 吊线聚乙烯护套厚度标称值 1.0mm;

The nominal value of PE sheath thickness: the cable core - 1.5mm, the suspension - 1.0mm.

d. 吊线钢丝有 1.2mm 和 1.6mm 两种。

The suspension steel wires have two different dimensions with diameters of 1.2mm and 1.6mm.