

Figure 8 Cable (GYTC8A) (GYTC8A)8字型光缆

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. 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 wires as the supporting part are completed with a polyethylene (PE) sheath to be figure 8 structures.

GYTC8A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。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,和钢丝绞线集成为一个8字型的聚乙烯护套内。

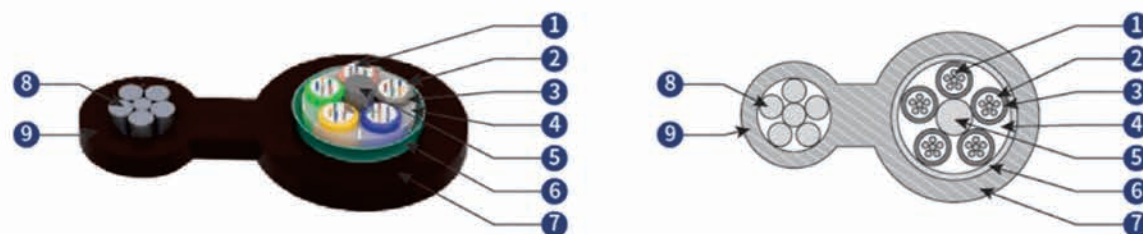
Characteristics 产品特点

- High tensile strength of stranded wires meet the requirement of self-supporting and reduce the installation cost
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
- Good mechanical and temperature performance
光缆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
- The following measures are taken to ensure the cable watertight:
采用下列措施来确保光缆的防水性能:
 - Steel wire used as the central strength membe
-单根钢丝中心加强芯
 - Loose tube filling compound
-松套管内填充特种防水化合物
 - 100% cable core filling
-完全缆芯填充
 - APL moisture barrier
-涂塑铝带(APL)防潮层

Standards 产品标准

GYTC8A cable complies with Standard YD/T 1155 as well as IEC 60794-1. GYTC8A光缆符合YD/T 1155和IEC 60794-1标准。

Structure Drawing 结构图



- 1.Stranded Wires
钢丝绞线
- 2.PE Sheath
聚乙烯护套
- 3.Fibre
光纤
- 6.Cable Filling Compound
缆芯填充物
- 7.Central Strength Member
中芯加强芯

- 4.Tube Filling Compound
套管填充物
- 5.Loose Tube
松套管
- 8.APL
涂塑铝带
- 9.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	Tubes 套管数	Fillers 填充绳数	Cable Weight (Ref) 参考光缆重量 (kg/km)	Tensile Strength 允许拉伸力 Long/Short term 长期/短期 (N)	Crush Resistance 允许压扁力 Long/Short term 长期/短期 (N/100mm)	Bending Radius 弯曲半径 Dynamic/Static 动态/静态 (mm)
GYTC8A-2~6Xn	2~12	1	4	158	According to the messenger wire steel wire diameter 根据吊线钢丝直径	300/1000	10D/20D
GYTC8A-8~12Xn	8~12	2	3	158			
GYTC8A-14~18Xn	14~18	3	2	158			
GYTC8A-20~24Xn	20~24	4	1	158			
GYTC8A-26~30Xn	26~30	5	0	158			
GYTC8A-32~36Xn	32~36	6	0	167			
GYTC8A-38~48Xn	38~48	4	1	172			
GYTC8A-50~60Xn	50~60	5	0	172			

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
光缆在露天环境中不要超过6个月,否则盘具可能会受损

Application: Self-supporting Aerial
适用: 自承式架空