

(GYFTA)

适用: 管道、架空

Application: Duct / Aerial

■ 光学特性 Optical Characteristics

	G.652	G.655	50 / 125 μ m	62.5 / 125 μ m
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 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
GYFTA-2~6Xn	2~6	1	5	11.4	108	400 / 1000	300 / 1000	10D / 20D
GYFTA-8~12Xn	8~12	2	4	11.4	108	400 / 1000	300 / 1000	10D / 20D
GYFTA-14~18Xn	14~18	3	3	11.4	108	400 / 1000	300 / 1000	10D / 20D
GYFTA-20~24Xn	20~24	4	2	11.4	108	400 / 1000	300 / 1000	10D / 20D
GYFTA-26~30Xn	26~30	5	1	11.4	108	400 / 1000	300 / 1000	10D / 20D
GYFTA-32~36Xn	32~36	6	0	11.4	108	400 / 1000	300 / 1000	10D / 20D
GYFTA-2~12Xn	2~12	1	5	12.8	134	600 / 1500	300 / 1000	10D / 20D
GYFTA-14~24Xn	14~24	2	4	12.8	134	600 / 1500	300 / 1000	10D / 20D
GYFTA-26~36Xn	26~36	3	3	12.8	134	600 / 1500	300 / 1000	10D / 20D
GYFTA-38~48Xn	38~48	4	2	12.8	134	600 / 1500	300 / 1000	10D / 20D
GYFTA-50~60Xn	50~60	5	1	12.8	134	600 / 1500	300 / 1000	10D / 20D
GYFTA-62~72Xn	62~72	6	0	12.8	134	600 / 1500	300 / 1000	10D / 20D
GYFTA-2~6Xn	2~6	1	7	12.8	140	1000 / 3000	300 / 1000	10D / 20D
GYFTA-8~12Xn	8~12	2	6	12.8	140	1000 / 3000	300 / 1000	10D / 20D
GYFTA-14~18Xn	14~18	3	5	12.8	140	1000 / 3000	300 / 1000	10D / 20D
GYFTA-20~24Xn	20~24	4	4	12.8	140	1000 / 3000	300 / 1000	10D / 20D
GYFTA-26~30Xn	26~30	5	3	12.8	140	1000 / 3000	300 / 1000	10D / 20D
GYFTA-32~36Xn	32~36	6	2	12.8	140	1000 / 3000	300 / 1000	10D / 20D
GYFTA-38~42Xn	38~42	7	1	12.8	140	1000 / 3000	300 / 1000	10D / 20D
GYFTA-44~48Xn	44~48	8	0	12.8	140	1000 / 3000	300 / 1000	10D / 20D
GYFTA-50~60Xn	50~60	5	3	14.8	176	1000 / 3000	300 / 1000	10D / 20D
GYFTA-62~72Xn	62~72	6	2	14.8	176	1000 / 3000	300 / 1000	10D / 20D
GYFTA-74~84Xn	74~84	7	1	14.8	176	1000 / 3000	300 / 1000	10D / 20D
GYFTA-86~96Xn	86~96	8	0	14.8	176	1000 / 3000	300 / 1000	10D / 20D
GYFTA-98~108Xn	98~108	9	1	17.1	226	1000 / 3000	300 / 1000	10D / 20D
GYFTA-110~120Xn	110~120	10	0	17.1	226	1000 / 3000	300 / 1000	10D / 20D
GYFTA-122~132Xn	122~132	11	1	19.2	279	1000 / 3000	300 / 1000	10D / 20D
GYFTA-134~144Xn	134~144	12	0	19.2	279	1000 / 3000	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:

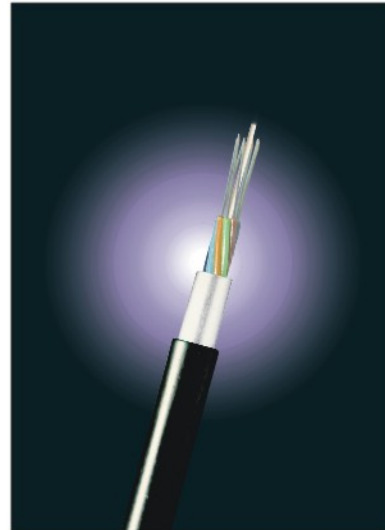
- 型号的后缀 Xn 表示选用的光纤类型, 详见长飞上海光纤型号说明;
Suffix Xn denotes fiber type and see details in YOFC(SH)'s optical fiber illustration.
- 套管和光纤的颜色排列见色谱表;
The colour arrangements of fiber and tubes are specified in the colour identification table.
- 聚乙烯护套厚度标称值 1.8mm.
The nominal value of the PE sheath thickness is 1.8mm.

松套管绞式非金属加强芯非铠装光缆(GYFTA) Stranded Loose Tube Non-metallic Strength Member Non-armored Cable

产品描述 Description

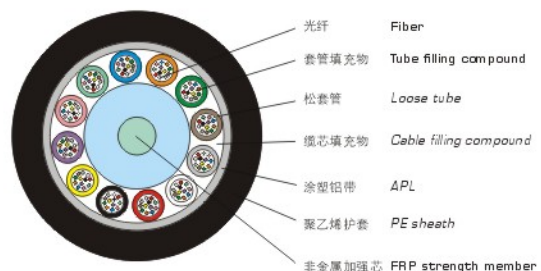
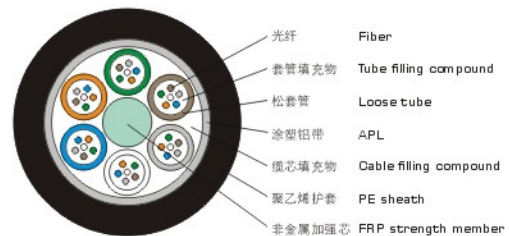
GYFTA 光缆的结构是将 250 μ m 光纤套入高模量材料制成的松套管中, 松套管内填充防水化合物。缆芯的中心是一根非金属加强芯 (FRP), 对于某些芯数的光缆来说, 非金属加强芯外还需挤上一层聚乙烯 (PE)。松套管 (和填充绳) 围绕中心加强芯绞合成紧凑和圆形的缆芯, 缆芯内的缝隙充以阻水填充物。涂塑铝带 (APL) 纵包后挤制聚乙烯护套成缆。

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 Fiber Reinforced Plastic (FRP) locates in the center of core as a non-metallic strength member. The tubes (and fillers) are stranded around the strength member into a compact and circular core. After an Aluminum Polyethylene Laminate (APL) moisture barrier is applied around the cable core, the cable is completed with a 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
- 特别设计的紧密的光缆结构, 有效防止套管回缩
Specially designed compact structure is good at preventing loose tubes from shrinking
- PE 护套具有很好的抗紫外辐射性能
PE sheath protects cable from ultraviolet radiation
- 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:
 - 单根非金属中心加强芯
Single Fiber Reinforced Plastic 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



光缆结构图
Cable Structure

产品标准 Standards

长飞上海公司 GYFTA 光缆符合 YD/T 901-2001 和 IEC 60794-1 标准。

YOFC(SH) GYFTA cable complies with Standard YD/T 901-2001 as well as IEC 60794-1.