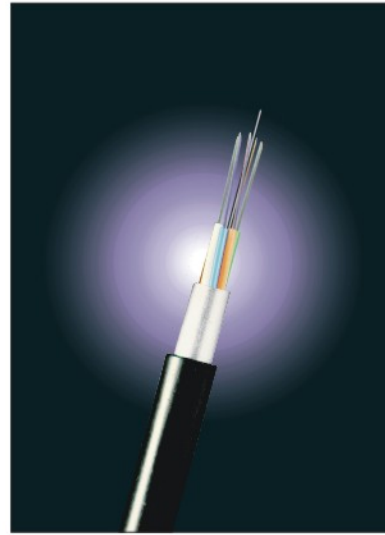


松套管绞式非铠装光缆(GYTA) Stranded Loose Tube Non-armored Cable

产品描述 Description

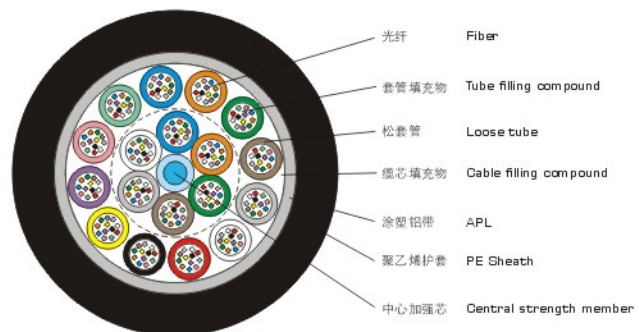
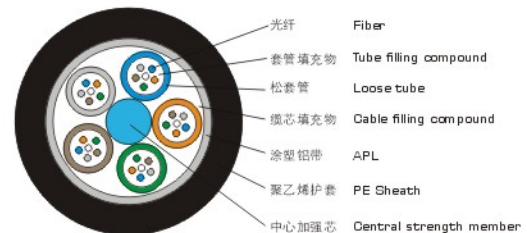
GYTA 光缆的结构是将 250 μ m 光纤套入高模量材料制成的松套管中, 松套管内填充防水化合物。缆芯的中心是一根金属加强芯, 对于某些芯教的光缆来说, 金属加强芯外还需挤上一层聚乙烯 (PE)。松套管 (和填充绳) 围绕中心加强芯绞合成紧凑和圆形的缆芯, 缆芯内的缝隙充以阻水填充物。涂塑铝带 (APL) 纵包后挤制聚乙烯护套成缆。

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 steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. An Aluminum Polyethylene Laminate (APL) is applied around the cable core, which is filled with the filling compound to protect it from water ingress. Then, 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



光缆结构图
Cable Structure

产品标准 Standards

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

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

(GYTA)

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
GYTA-2~6Xn	2~6	1	4	9.5	87	600 / 1500	300 / 1000	100 / 200
GYTA-8~12Xn	8~12	2	3	9.5	87	600 / 1500	300 / 1000	100 / 200
GYTA-14~18Xn	14~18	3	2	9.5	87	600 / 1500	300 / 1000	100 / 200
GYTA-20~24Xn	20~24	4	1	9.5	87	600 / 1500	300 / 1000	100 / 200
GYTA-26~30Xn	26~30	5	0	9.5	87	600 / 1500	300 / 1000	100 / 200
GYTA-32~36Xn	32~36	6	0	9.9	100	1000 / 3000	300 / 1000	100 / 200
GYTA-38~48Xn	38~48	4	1	10.5	111	1000 / 3000	300 / 1000	100 / 200
GYTA-50~60Xn	50~60	5	0	10.5	111	1000 / 3000	300 / 1000	100 / 200
GYTA-62~72Xn	62~72	6	0	11.5	126	1000 / 3000	300 / 1000	100 / 200
GYTA-74~84Xn	74~84	7	1	13.2	154	1000 / 3000	300 / 1000	100 / 200
GYTA-86~96Xn	86~96	8	0	13.2	154	1000 / 3000	300 / 1000	100 / 200
GYTA-98~108Xn	98~108	9	1	14.6	185	1000 / 3000	300 / 1000	100 / 200
GYTA-110~120Xn	110~120	10	0	14.6	185	1000 / 3000	300 / 1000	100 / 200
GYTA-122~132Xn	122~132	11	1	16.5	228	1000 / 3000	300 / 1000	100 / 200
GYTA-134~144Xn	134~144	12	0	16.5	228	1000 / 3000	300 / 1000	100 / 200
GYTA-146~216Xn	146~216			16.5	233	1000 / 3000	300 / 1000	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.
- 聚乙烯护套厚度标称值 1.8mm。
The nominal value of the PE sheath thickness is 1.8mm.