

Stranded Loose Tube Non-armored Cable (GYTA/S)

(GYTA/S)松套层绞式非铠装光缆

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, sometimes sheathed with polyethylene (PE) for cable with high fibre 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) or PSP 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.

GYTA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，对于某些芯数的光缆来说，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，缆芯内的缝隙以防水填充物。涂塑铝带或钢带纵包后挤制聚乙烯护套成线。

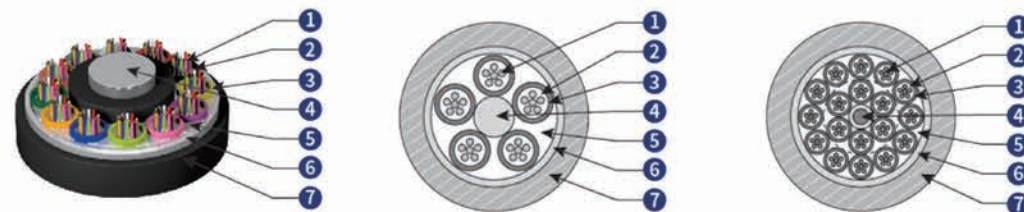
Characteristics 产品特点

- Good mechanical and temperature performance
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
- Specially designed compact structure is good at preventing loose tubes from shrinking
特别设计的紧密的光缆结构，有效防止套管回缩
- PE sheath protects cable from ultraviolet radiations
PE护套具有很好的抗紫外辐射性能
- 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 member
-单根钢丝中心加强芯
 - 100% cable core filling
-完全缆芯填充
 - Loose tube filling compound
-松套管内填充特种防水化合物
 - APL or PSP moisture barrier
-涂塑铝带或钢带防潮层

Standards 产品标准

GYTA/s cable complies with Standard YD/T 901 as well as IEC 60794-1.
GYTA/s 光缆符合YD/T 901和IEC 60794-1标准。

Structure Drawing 结构图



- | | | | |
|------------------------------------|-----------------------------------|-----------------------|-------------------------------------|
| 1. Fibre
光纤 | 2. Tube Filling Compound
套管填充物 | 3. Loose Tube
松套管 | 4. Central Strength Member
中心加强芯 |
| 5. Cable Filling Compound
缆芯填充物 | 6. APL psp
涂塑铝带或钢带 | 7. 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	Crush Resistance 允许压扁力	Bending Radius 弯曲半径
					Long/Short term 长期/短期 (N)	Long/Short term 长期/短期 (N/100mm)	Dynamic/Static 动态/静态 (mm)
GYTA/S-2~6Xn	2~6	1	4	76	600/1500	300/1000	10D/20D
GYTA/S-8~12Xn	8~12	2	3	76			
GYTA/S-14~18Xn	14~18	3	2	76			
GYTA/S-20~24Xn	20~24	4	1	76			
GYTA/S-26~30Xn	26~30	5	0	76			
GYTA/S-32~36Xn	32~36	6	0	85			
GYTA/S-38~48Xn	38~48	4	1	90			
GYTA/S-50~60Xn	50~60	5	0	90			
GYTA/S-62~72Xn	62~72	6	0	113			
GYTA/S-74~84Xn	74~84	7	1	136			
GYTA/S-86~96Xn	86~96	8	0	136			
GYTA/S-98~108Xn	98~108	9	1	163			
GYTA/S-110~120Xn	110~120	10	0	163			
GYTA/S-122~132Xn	122~132	11	1	190			
GYTA/S-134~144Xn	134~144	12	0	190			
GYTA/S-146~216Xn	146~216	13~18	5~0	190			
GYTA/S-288Xn	288	24	0	239			

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				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	≥200	0.275±0.015	—

Note:
注意

- Suffix Xn denotes fibre type
型号的后缀Xn表示选用的光纤类型
- 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
- 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: Duct/Aerial
适用: 管道、架空