

Stranded Loose Tube Armored Cable (GYTA53)

(GYTA53) 松套层绞式加强铠装光缆

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) is applied around the cable core, which is filled with the filling compound to protect it from water ingress. Then the cable core is covered with a thin PE inner sheath. After the PSP is longitudinally applied over the inner sheath, the cable is completed with a PE outer sheath.

GYTA53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，缆芯内的缝隙填充以防水填充物。缆芯外挤上一层聚乙烯内护套，双面涂塑钢带(PSP)纵包后挤制聚乙烯护套成缆。

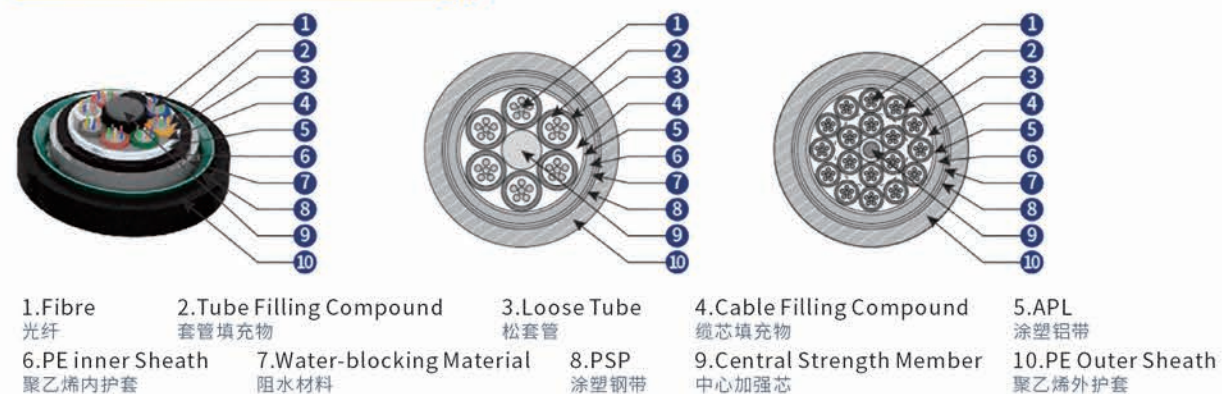
Characteristics 产品特点

- 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
 - PSP enhancing moisture-proof
-双面涂塑钢带(PSP)提高光缆的抗透潮能力
 - Loose tube filling compound
-松套管内填充特种防水化合物
 - APL moisture barrier
-涂塑铝带(APL)防潮层
 - Water-blocking material
-良好的防水材料防止光缆纵向渗水

Standards 产品标准

GYTA53 cable complies with Standard YD/T 901 as well as IEC 60794-1 GYTA53光缆符合YD/T 901和IEC 60794-1标准

Structure Drawing 结构图



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)
GYTA53-2~6Xn	2~6	1	5	177	1000/3000	1000/3000	12.5D/25D
GYTA53-8~12Xn	8~12	2	4	177			
GYTA53-14~18Xn	14~18	3	3	177			
GYTA53-20~24Xn	20~24	4	2	177			
GYTA53-26~30Xn	26~30	5	1	177			
GYTA53-32~36Xn	32~36	6	0	177			
GYTA53-38~48Xn	38~48	4	1	194			
GYTA53-50~60Xn	50~60	5	0	194			
GYTA53-62~72Xn	62~72	6	0	204			
GYTA53-74~84Xn	74~84	7	1	239			
GYTA53-86~96Xn	86~96	8	0	239			
GYTA53-98~108Xn	98~108	9	1	275			
GYTA53-110~120Xn	110~120	10	0	275			
GYTA53-122~132Xn	122~132	11	1	312			
GYTA53-134~144Xn	134~144	12	0	312			
GYTA53-146~216Xn	146~216	13~18	5~0	312			

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 _{cc} 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	≤3.0	≤1.0	—	—	≥500	≥500	0.200±0.015	—
62.5/125µm	≤3.3	≤1.0	—	—	≥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: Duct/Aerial/Direct Buried
适用: 管道、架空、直埋