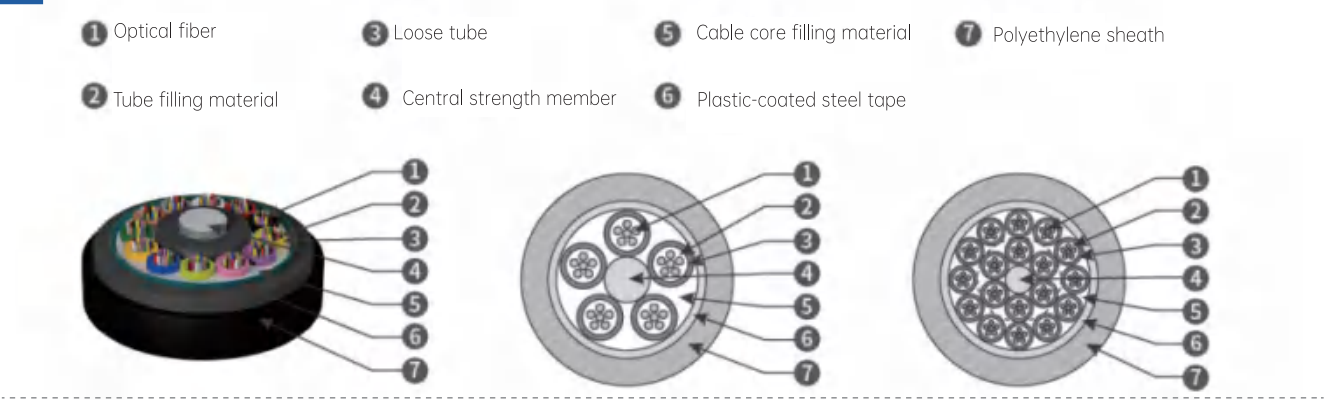


GYTA53

Loose Tube Layer Stranded Single Steel Wire Armored Optical Cable



Product Description

Colored optical fibers are placed into a loose tube made of high modulus material, which is then filled with thixotropic water-blocking gel. The center of the cable core contains a metal strength member. The loose tube(and filling rope)is twisted around the central strength member to form a circular cable core, with gaps in the cable core and between the cable core and steel strip filled with water-blocking gel. After being longitudinally wrapped with plastic-coated aluminum tape and then extruded with a polyethylene inner sheath, the cable is longitudinally wrapped with plastic-coated steel tape and then extruded with a polyethylene outer sheath. Finally, after being armored with a single round steel wire, the cable is extruded with a polyethylene outer sheath.

Product Features

The material of the loose tube itself has good resistance to hydrolysis and high strength. The single round steel wire armor enhances the cable's tensile strength.

- ◆Filled with thixotropic gel inside the tube, providing crucial sealing protection to the optical fibers.
- ◆PE sheath has excellent resistance to ultraviolet radiation.
- ◆A single steel wire central strength member contributes to the parallelism and tensile strength of the optical cable.
- ◆Possesses good mechanical performance and temperature characteristics.

Coated aluminum tape moisture-proof layer.

- ◆Double-sided Corrugated Steel Tape(PSP)enhances the cable 's resistance to moisture penetration, while the corrugated part can better bond with PE, making the structure more robust.
- High-quality water-blocking materials prevent longitudinal water ingress into the optical cable.



Optical Characteristics

Fiber Type	Attenuation (+20℃)				Bandwidth		Numerical Aperture	Cable Cut-off Wavelength
	@850mm	@1300mm	@1310mm	@1550mm	@850mm	@1300mm		
G.652	-	-	≤0.36db/km	≤0.22db/km	-	-	-	≤1260nm
G.655	-	-	≤0.40db/km	≤0.23db/km	-	-	-	≤1450nm
50/125μm	≤3.0db/km	≤1.0db/km	-	-	≥500MHz·km	≥500MHz·km	0.200±0.015NA	-
62.5/125μm	≤3.3db/km	≤1.0db/km	-	-	≥200MHz·km	≥500MHz·km	0.275±0.015NS	-

Structural Parameters

Cable Model (increments by 2 fibers)	Number of Fibers	Number of Loose Tubes	Number of Filling Ropes	Reference Cable Weight (kg/km)	Allowable Tensile Force Long-term/Short-term (N)	Allowable Crush Force Long-term/Short-term (N)	Bending Radius Static/Dynamic (mm)
GYTA53-2~6Xn	2~6	1	5	177	600/1500	300/1000	10D/20D
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 and Operating Temperature: -40℃ to +70℃.

Application: Ducts, Aerial, Direct Burial

Note:

- The suffix Xn in the model indicates the selected fiber type, see Yangtze Fiber Model Explanation for details.
- The color arrangement of the loose tube and fibers can be found in the chromatogram.
- The minimum thickness of the polyethylene sheath is 1.5mm.

- The cable should not be stored in open-air environments for more than 6 months, otherwise the spool may be damaged.
- This document is for reference only and cannot be used as an attachment to the contract. For detailed product information, please contact our sales staff.