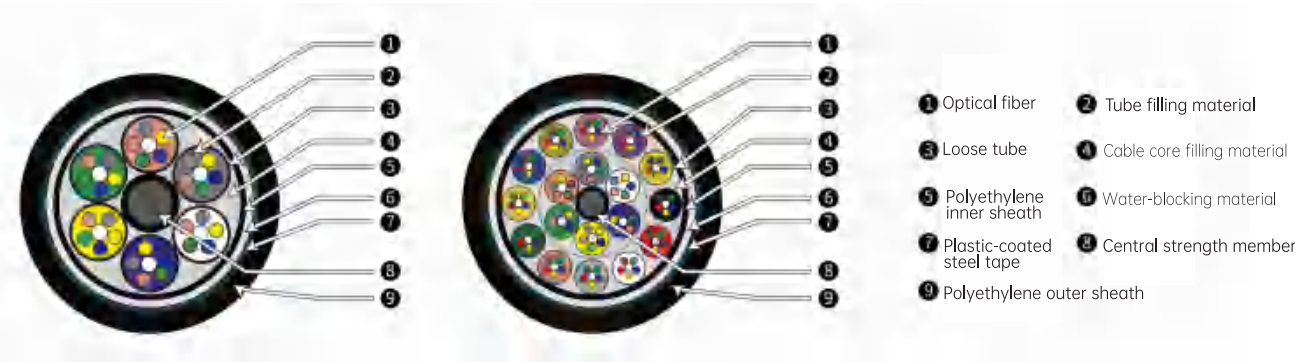


GYTY53

Loose Tube Layer Stranded Ordinary 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. A layer of polyethylene inner sheath is extruded onto the cable core, and then the cable is longitudinally wrapped with plastic-coated steel tape before being extruded with a polyethylene outer sheath.

Product Features

- The material of the loose tube itself has good resistance to hydrolysis and high strength.
 - ◆Filling the tube with thixotropic gel provides critical sealing protection for 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.
 - ◆Double-sided plastic-coated 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)
GYTY53-2~6Xn	2~6	1	4	160	1000/3000	1000/3000	12.5D/25D
GYTY53-8~12Xn	8~12	2	3	160			
GYTY53-14~18Xn	14~18	3	2	160			
GYTY53-20~24Xn	20~24	4	1	160			
GYTY53-26~30Xn	26~30	5	0	160			
GYTY53-32~36Xn	32~36	6	0	160			
GYTY53-38~48Xn	38~48	4	1	174			
GYTY53-50~60Xn	50~60	5	0	174			
GYTY53-62~72Xn	62~72	6	0	185			
GYTY53-74~84Xn	74~84	7	1	214			
GYTY53-86~96Xn	86~96	8	0	214			
GYTY53-98~108Xn	98~108	9	1	245			
GYTY53-110~120Xn	110~120	10	0	245			
GYTY53-122~132Xn	122~132	11	1	281			
GYTY53-134~144Xn	134~144	12	0	281			
GYTY53-146~216Xn	146~216	13-18	5-0	281			

Storage and Operating Temperature: -40℃ to +70℃.

Application: Duct, Aerial, Direct Burial

- Note:
- a.The suffix Xn in the model indicates the selected fiber type, see Yangtze Fiber Model Explanation for details.
 - b.The color arrangement of the loose tube and fibers can be found in the chromatogram.
 - c.The minimum thickness of the polyethylene sheath is 1.5mm.
 - d.The cable should not be stored in open-air environments for more than 6 months, otherwise the spool may be damaged.
 - e.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.