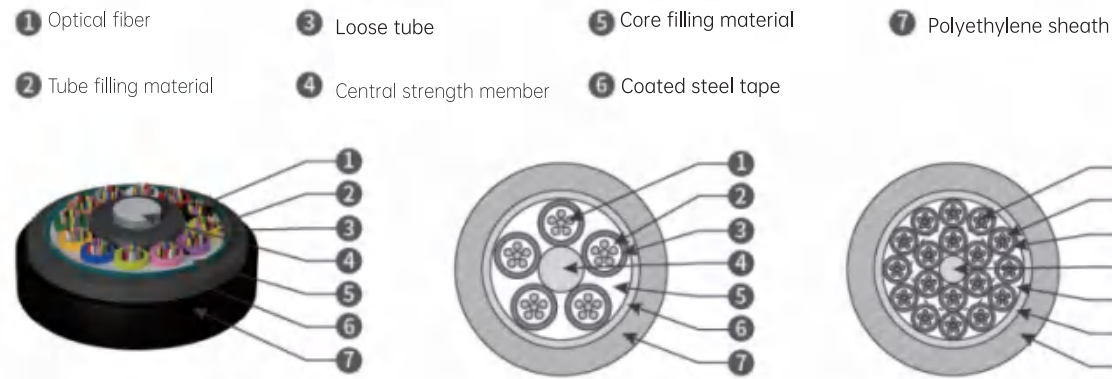


GYFTA53

Loose Tube Layer Stranded Non-metallic Reinforced Core Armored Flame-retardant Optical Cable



Product Description

Colored optical fibers are placed in a loose tube made of high-modulus material, filled with thixotropic gel. The center of the cable core is a non-metallic strength member (FRP). The loose tube (and filling rope) is twisted around the central strength member to form a circular cable core, with the interstices of the cable core filled with water-blocking gel. After longitudinally wrapping with coated aluminum tape, the cable is sheathed with polyethylene to form an inner protective layer, and then longitudinally wrapped with double-sided coated steel tape to form a flame-retardant outer protective layer.

Product Features

The material of the loose tube itself has good resistance to hydrolysis and high strength.

- ◆ Filled with thixotropic gel inside the tube, providing crucial sealing protection to the optical fibers.
- ◆ Special sheath material has excellent flame retardancy.
- ◆ Single non-metallic central reinforcing core.
- ◆ Possesses good mechanical performance and temperature characteristics.

Coating with coated aluminum tape provides moisture resistance.

- ◆ Coating with double-sided corrugated steel tape (PSP) enhances the cable's resistance to moisture ingress.



Optical Characteristics

Fiber Type	Attenuation (+20°C)				Bandwidth		Numerical Aperture	Cable Cut-off Wavelength
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
G.652	-	-	≤0.36db/km	≤0.22db/km	-	-	-	≤1260nm
G.655	-	-	≤0.40db/km	≤0.23db/km	-	-	-	≤1450nm
50/125μm	≤3.3db/km	≤1.2db/km	-	-	≥500MHz·km	≥500MHz·km	0.200±0.015NA	-
62.5/125μm	≤3.5db/km	≤1.2db/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)
GYFTA53-2~6Xn	2~6	1	7	275	1000/3000	1000/3000	12.5D/25D
GYFTA53-8~12Xn	8~12	2	6	275			
GYFTA53-14~18Xn	14~18	3	5	275			
GYFTA53-20~24Xn	20~24	4	4	275			
GYFTA53-26~30Xn	26~30	5	3	275			
GYFTA53-32~36Xn	32~36	6	2	275			
GYFTA53-38~42Xn	38~42	7	1	275			
GYFTA53-44~48Xn	44~48	8	0	275			
GYFTA53-50~60Xn	50~60	5	3	290			
GYFTA53-62~72Xn	62~72	6	2	290			
GYFTA53-74~84Xn	74~84	7	1	290			
GYFTA53-86~96Xn	86~96	8	0	290			
GYFTA53-98~108Xn	98~108	9	1	327			
GYFTA53-110~120Xn	110~120	10	0	327			
GYFTA53-122~132Xn	122~132	11	1	384			
GYFTA53-134~144Xn	134~144	12	0	384			

Storage and Operating Temperature: -40°C to +70°C.

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.