

GYFTA

Loose Tube Layer Stranded Non-metallic Reinforced
Core Non-armored Optical Cable



Product Description

Colored optical fibers are placed in a loose tube made of high -modulus material, which is filled with thixotropic gel. The center of the cable core is a glass fiber reinforced plastic(FRP) . The loose tube(and filler rope)is twisted around the central reinforcing core to form a circular cable core, which is filled with thixotropic gel in the interstices of the cable core and between the cable core and the aluminum tape. After the aluminum strip is longitudinally coated, it is extruded with polyethylene sheath to form the cable.

Product Features

- The material of the loose tube itself has good resistance to hydrolysis and high strength.
- ◆Possesses good mechanical performance and temperature characteristics.
 - ◆Filled with thixotropic gel inside the tube, providing crucial sealing protection to the optical fibers.
 - ◆PE sheath has excellent resistance to ultraviolet radiation.
 - ◆Single non-metallic central reinforcing core.
- Coated aluminum tape moisture-proof layer.



Optical Characteristics

Fiber Type	Attenuation (+20°C)				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	≤3.3db/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)
GYFTA-2~6Xn	2~6	1	5	99	400/1000	300/1000	10D/20D
GYFTA-8~12Xn	8~12	2	4	99			
GYFTA-14~18Xn	14~18	3	3	99			
GYFTA-20~24Xn	20~24	4	2	99			
GYFTA-26~30Xn	26-30	5	1	99			
GYFTA-32~36Xn	32~36	6	0	99			
GYFTA-2~6Xn	2~6	1	6	111	600/1500		
YFTA-8~12Xn	8~12	2	5	111			
GYFTA-14~18Xn	14~18	3	4	111			
GYFTA-20~24Xn	20~24	4	3	111			
GYFTA-26~30Xn	26-30	5	2	111			
GYFTA-32~36Xn	32~36	6	1	111			
GYFTA-38~42Xn	38~42	7	0	111			
GYFTA-44~48Xn	44~48	4	2	122			
GYFTA-50~60Xn	50~60	5	1	122			
GYFTA-62~72Xn	62~72	6	0	122			
GYFTA-2~6Xn	2~6	1	7	127			
YFTA-8~12Xn	8~12	2	6	127			
GYFTA-14~18Xn	14~18	3	5	127			
GYFTA-20~24Xn	20~24	4	4	127			
GYFTA-26~30Xn	26-30	5	3	127			
GYFTA-32~36Xn	32~36	6	2	127			
GYFTA-38~42Xn	38~42	7	1	127			
GYFTA-44~48Xn	44~48	8	0	127			
GYFTA-50~60Xn	50~60	5	3	136			
GYFTA-62~72Xn	62~72	6	2	136			
GYFTA-74~84Xn	74~84	7	1	136			
GYFTA-86~96Xn	86~96	8	0	136			
GYFTA-98~108Xn	98~108	9	1	161			
GYFTA-110~120Xn	110~120	10	0	161			
GYFTA-122~132Xn	122~132	11	1	195			
GYFTA-134~144Xn	134~144	12	0	195			

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

Application: Ducts, Aerial

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.