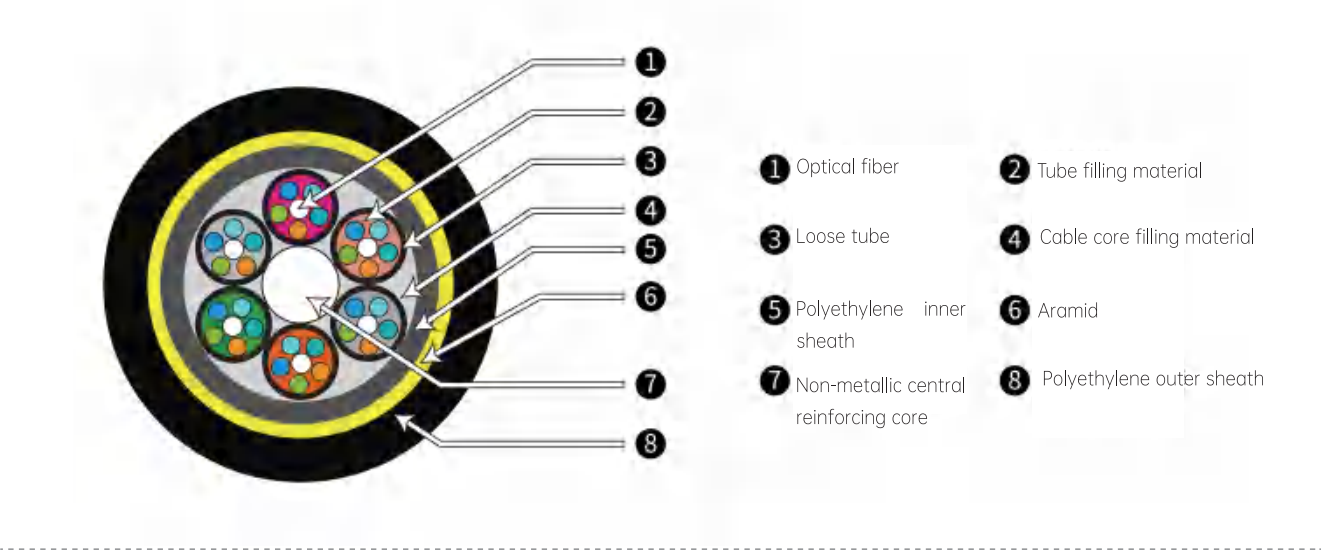


GYHTY

Loose Tube Layer Stranded Non-metallic Reinforced Core 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 glass fiber reinforced plastic(FRP). The loose tube(and filling rope)is twisted around the central reinforcing core to form a circular cable core. Gaps in the cable core are filled with water-blocking gel, and then extruded with a polyethylene inner sheath. This is followed by an outer sheath made of aramid yarn, extruded with polyethylene to complete 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.
- ◆Aramid reinforcing elements enhance 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.
- ◆Single non-metallic central reinforcing core.



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	≤3.3db/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)
GYHTY-4~6Xn	4~6	1	5	84	600/1500	300/1000	10D/20D
GYHTY-8~12Xn	8~12	2	4	84			
GYHTY-14~18Xn	14~18	3	3	84			
GYHTY-20~24Xn	20~24	4	2	84			
GYHTY-26~30Xn	26~30	5	1	84			
GYHTY-32~36Xn	32~36	6	0	84			

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

Application: Ducts, 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.