

GYDTA

Loose Tube Layer Stranded Non-armored Fiber Ribbon Optical Cable

- 1 Optical fiber

2 Tube filling material

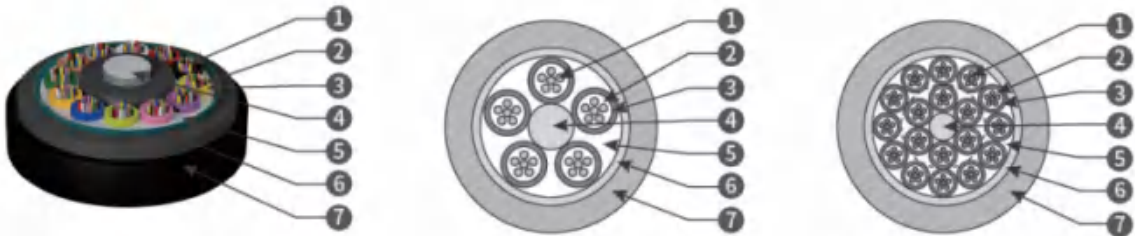
3 Loose tube

4 Central strength member

5 Cable core filling material

6 Coated steel tape

7 Polyethylene sheath



Product Description

4, 6, 8, 12-core fiber ribbon is placed into a loose tube made of high-modulus material, which is filled with thixotropic water-blocking gel. The center of the cable core is a metal strength member. 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 longitudinal wrapping with a coated aluminum tape, the cable is extruded with a polyethylene sheath.

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 center strength member.

Flexible application with 2, 6, 8, 12-core fiber ribbon.

- ◆Possesses good mechanical performance and temperature characteristics.
- Coating with coated aluminum tape provides



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 Tube	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)
GYDTA48Xn	4X12	1	3	265	600/1500	300/1000	10D/20D
GYDTA-96Xn	8X12	2	2	265			
GYDTA-144Xn	12X12	3	1	265			
GYDTA-216Xn	18X12	3	1	295			
GYDTA-288Xn	24X12	4	0	295			
GYDTA-360Xn	30X12	5	0	295			
GYDTA-432Xn	36X12	6	0	395			

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

Application: Ducts, Aerial

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.