

GYTA

Tube Layer Stranded Non-armored Optical Cable

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Optical fiber
- 2

Tube filling material
- 3

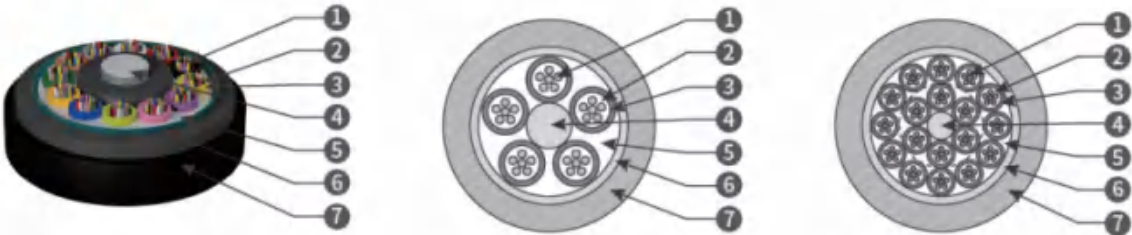
Loose tube
- 4

Central strength member
- 5

Cable core filling material
- 6

Plastic-coated steel tape
- 7

Polyethylene sheath



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 tape filled with water-blocking gel. After being longitudinally wrapped with 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.
- ◆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.
 - ◆Moisture-resistant layer of plastic-coated aluminum tape.



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)
GYTA-2~6Xn	2~6	1	4	76	600/1500	300/1000	10D/20D
GYTA-8~12Xn	8~12	2	3	76			
GYTA-14~18Xn	14~18	3	2	76			
GYTA-20~24Xn	20~24	4	1	76			
GYTA-26~30Xn	26~30	5	0	76			
GYTA-32~36Xn	32~36	6	0	85			
GYTA-38~48Xn	38~48	4	1	90			
GYTA-50~60Xn	50~60	5	0	90			
GYTA-62~72Xn	62~72	6	0	113			
GYTA-74~84Xn	74~84	7	1	136			
GYTA-86~96Xn	86~96	8	0	136			
GYTA-98~108Xn	98~108	9	1	163			
GYTA-110~120Xn	110~120	10	0	163			
GYTA-122~132Xn	122~132	11	1	190			
GYTA-134~144Xn	134~144	12	0	190			
GYTA-146~216Xn	146~216	13-18	5-0	190			
GYTA-288Xn	288	24	0	239			

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.