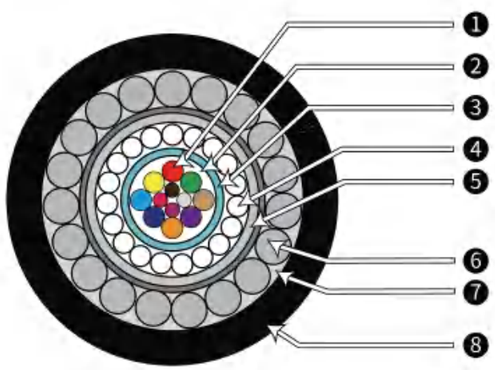
GYXTA33

Loose Tube Central Tube Type Single Steel Wire Armored Optical Cable



1 Optical fiber
2 Coated aluminum tape
3 Cable filling compound
4 Outer steel wire
5 Loose tube
6 Cable core filling material
7 Inner steel wire
8 Polyethylene outer sheath

Product Description

Colored optical fibers are placed into a loose tube made of high-modulus and water-resistant material. The loose tube is filled with thixotropic water-blocking gel. Around the loose tube, there is a layer of fine circular steel wires twisted to form a compact and round cable core. The interstices inside the cable core are filled with water-blocking material. After longitudinal wrapping with coated aluminum tape, it is extruded with a layer of polyethylene inner sheath, then armored with a single fine circular steel wire, and finally extruded with a polyethylene outer sheath to form the cable.

Product Features

◆Exhibits good mechanical performance and temperature characteristics.
◆Double-layer single fine circular steel wire armor enhances the cable's tensile strength.
◆The material of the loose tube has good hydrolysis resistance and excellent pressure resistance.
◆Filled with special grease inside the tube, providing crucial protection for the optical fibers.
◆Features a moisture-resistant layer of coated aluminum tape.
◆Small size, lightweight, and easy to install.

◉ 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	⩽3.0db/km	⩽1.0db/km	-	-	⩾500MHz·km	⩾500MHz·km	0.200±0.015NA	-
62.5/125μm	⩽3.3db/km	⩽1.0db/km	-	-	⩾200MHz·km	⩾500MHz·km	0.275±0.015NS	-

◉ Structural Parameters

Cable Model (increments by 2 fibers)	Number of Fibers	Reference Cable Weight (kg/km)	Allowable Tensile Force Long-term/Short-term (N)	Allowable Crush Force Long-term/Short-term (N)	Bending Rodius Static/Dynamic (mm)
GYXTA33-2~12Xn	2~12	448	4000/10000	3000/5000	12.5D/25D
GYXTA33-14~24Xn	14~24	478			
GYXTA33-26~36Xn	26~36	510			
Storage and Operating Temperature: -40°C to +70°C.					

◉ Application: direct burial, climbing slopes, underwater

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.