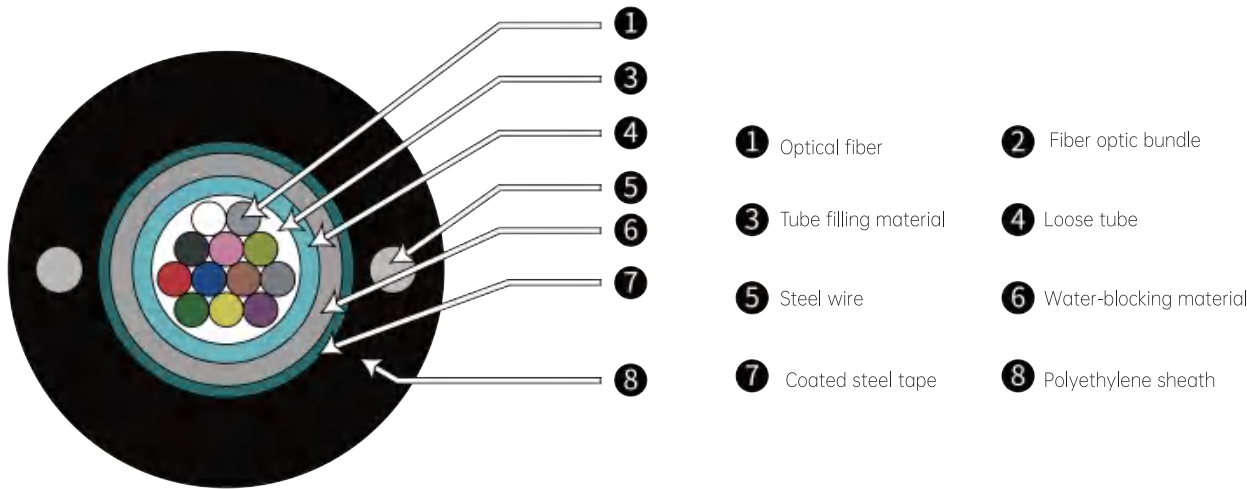


GYXS/GYXTW

Center Tube Type Lightweight Armored Optical Cable



Product Description

Colored optical fibers are placed into a loose tube made of high-modulus, hydrolysis-resistant material, which is filled with thixotropic water-blocking gel. The loose tube is longitudinally wrapped with a layer of double-sided coated steel tape, and water-blocking gel is filled between the steel tape and the loose tube to ensure the cable's compactness and longitudinal water-blocking. Two parallel steel wires are placed on both sides and then extruded with a polyethylene sheath to form the cable.

Product Features

- ◆Exhibits good mechanical performance and temperature characteristics.
- ◆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.
- ◆Double-sided coated steel tape enhances the cable's resistance to moisture penetration.
- ◆Two parallel steel wires ensure the stability and tensile performance of the cable.
- ◆Small diameter, lightweight, and easy to install.



Optical Characteristics

Fiber Type	Attenuation (+20°C)				Bandwidth		Numerical Aperture	Cable Cut-off Wavelength
	@850nm	@1300nm	@1310nm	@1550nm	@850nm	@1300nm		
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	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)
GYXS/GYXTW-2~12Xn	2~12	82	600/1500	300/1000	10D/20D
GYXS/GYXTW-14~24Xn	14~24	127			
GYXS/GYXTW-2~12Xn	2~12	124	600/1500		
GYXS/GYXTW-14~24Xn	14~24	147			

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.