

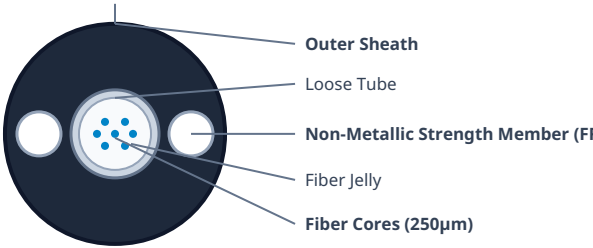
Non-Metallic Central Loose Tube Optical Cable (GYFXY)

Outdoor Central Tube Optical Fiber Cable Technical Datasheet

Product Description

The structure of the **GYFXY optical cable** is formed by housing 250µm optical fibers inside a loose tube made of high-modulus material, which is filled with a waterproof compound. Two parallel non-metallic FRP strength members are placed on both sides of the central loose tube, followed by an extruded Polyethylene (PE) outer sheath to complete the cable design.

Cable Cross-Section & Component Breakdown



Product Features

Excellent Mechanical & Temperature Performance

Robust physical structural stability with reliable operating capability across wide environmental temperature variations.

High Tensile Strength FRP Members

Two parallel FRP non-metallic strength members provide outstanding tensile resistance and structural integrity.

Hydrolysis-Resistant Tube Material

The high-modulus loose tube material offers superior hydrolysis resistance and high mechanical protection.

Special Water-Blocking Filling Jelly

Filled with dedicated waterproof compound to deliver critical water-blocking protection for the optical fibers.

All-Dielectric Anti-Interference Design

Non-metallic structure design effectively prevents radio frequency interference (RFI) and electromagnetic wave interference (EMI).

Compact, Lightweight & Easy Deployment

Small outer diameter and lightweight construction make handling, cable pulling, and installation effortless.

Technical Parameters

Cable Model	Fiber Count	Cable Diameter (mm)	Cable Weight (kg/km)	Allowable Tensile Force (N)		Allowable Crush Resistance (N/100mm)		Bending Radius (mm)	
				Long-Term	Short-Term	Long-Term	Short-Term	Static	Dynamic
GYFXY-2~12Xn	2 - 12	8.0	85	400	1000	300	1000	10D	20D
GYFXY-14~24Xn	14 - 24	8.4	93	400	1000	300	1000	10D	20D

Note: The parameters listed above are for reference only. Operating & Storage Temperature Range: -40°C to +70°C. (D = Cable Outer Diameter)

Product Standards

Standard Compliance: GYFXY optical cable complies with the **YD/T 769-2010** telecom industry standard.