

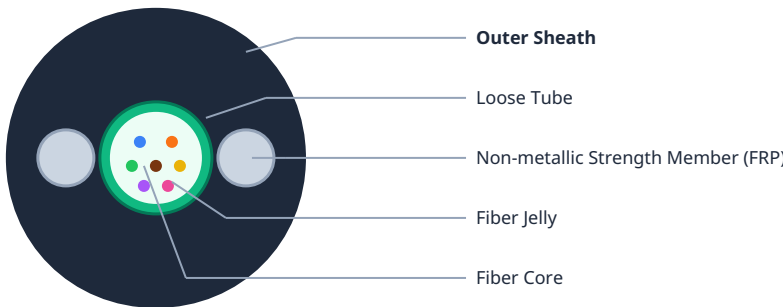
Non-Metallic Central Loose Tube Optical Cable (GYFXY)

Technical Specification & Product Datasheet

Product Description

The structure of the non-metallic central loose tube optical cable **GYFXY** consists of 250 μm optical fibers encased in 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, and a Polyethylene (PE) outer sheath is extruded to complete the cable assembly.

Cable Structure Diagram



Product Features

Mechanical & Temperature Performance: Excellent mechanical strength and stable temperature performance.

Parallel FRP Strength Members: Two parallel FRP strength members guarantee high tensile resistance.

Hydrolysis Resistance & High Strength: High-modulus loose tube material with superior hydrolysis resistance.

Critical Fiber Protection: Tubes filled with special waterproof compound ensure essential protection for optical fibers.

Electromagnetic & RF Immunity: All-dielectric design effectively prevents radio frequency (RF) and electromagnetic interference.

Compact & Lightweight: Small outer diameter, lightweight construction, and easy installation layout.

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 above data is for reference only. Storage and Operating Temperature Range: -40°C to +70°C. ("D" represents cable diameter).

Product Standards

Standard Conformance: GYFXY optical cables comply with the **YD/T 769-2010** standard.