

Non-Metallic Flat Central Loose Tube Optical Cable (GYFXTY)

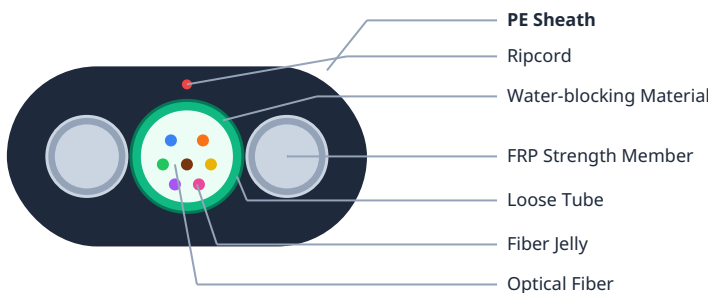
Technical Specification & Product Datasheet

Product Description

The structure of the flat optical cable **GYFXTY** consists of 250 μm optical fibers housed in a loose tube made of high-modulus material, which is filled with a waterproof compound. Two parallel non-metallic strength members (FRP) are placed on both sides of the loose tube, and a Polyethylene (PE) outer sheath is extruded to form the flat optical cable.

The flat telecom light outdoor optical cable features a compact outer diameter, enabling easy construction and installation. Its mechanical, electrical, and environmental performance comply with national and industry standards. It is suitable for non-self-supporting aerial, duct, tunnel, short-span self-supporting aerial, and high electromagnetic hazard installation scenarios.

Cable Structure Diagram



Product Features

All-Dielectric Structure: Entirely non-metallic construction offering strong immunity against lightning and high electromagnetic interference.

Parallel FRP Strength: Dual parallel FRP strength members ensure excellent tensile resistance.

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

Critical Fiber Protection: Tubes filled with special waterproof jelly provide vital protection for optical fibers.

Compact & Flexible Design: Smaller bending radius than conventional round cables, saving installation space.

Lightweight & Easy Deployment: Small diameter and light weight make laying and handling easy and efficient.

Technical Parameters

Cable Model	Fiber Count	Cable Dimensions (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
GYFXTY-2~12Xn	2 - 12	7.2 × 4.5	42	600	1500	300	1000	15D	30D
GYFXTY-14~24Xn	14 - 24	8.0 × 4.8	48	600	1500	300	1000	15D	30D

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

Product Standards

Standard Conformance: GYFXTY optical cables comply with the **YD/T 1460-2006** standard.