

Outdoor Loose Tube Armored Optical Cable (GYXTY)

Technical Specification & Product Datasheet

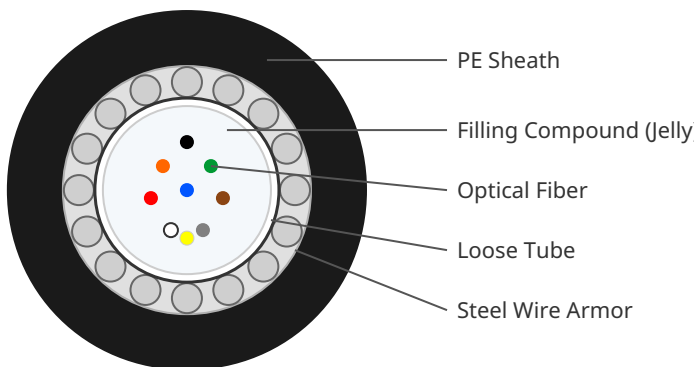
Product Description



The structure of the outdoor central loose tube armored optical cable **GYXTY** consists of 250 μm single-mode or multimode optical fibers housed inside a high-modulus loose tube filled with a waterproof jelly compound.

The loose tube is longitudinally armored with a layer of fine steel wires providing robust tensile strength and mechanical protection, surrounded by a durable Polyethylene (PE) outer sheath to form the complete cable assembly.

Cable Structure Diagram



Product Features

■ **Mechanical & Thermal Performance:** Excellent mechanical properties and temperature characteristics.

■ **Tensile Strength:** Fine steel wire armor guarantees high tensile strength for robust outdoor installation.

■ **Hydrolysis Resistance:** High-strength loose tube material exhibits superior hydrolysis resistance and protective durability.

■ **Critical Fiber Protection:** Specially formulated tube filling jelly ensures key protection and waterproofing for optical fibers.

■ **Compact & Lightweight:** Small outer diameter, light weight, and easy-to-lay design for streamlined deployment.

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
GYXTY-4Xn	4	6.6	60	1000	2000	500	1500	15D	30D
GYXTY-12Xn	12	6.6	60	1000	2000	500	1500	15D	30D
GYXTY-24Xn	24	6.6	60	1000	2000	500	1500	15D	30D

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

Product Compliance & Standards

Standard Conformance: Guangdong JuXian Fiber Communication Co., Ltd. **GYXTY** optical cable fully complies with the **YD/T 769** industry standard.