

Article Overview

GYXTS is a steel-reinforced, polyethylene-sheathed outdoor fiber optic cable designed for duct and conduit installations, offering high tensile strength, moisture protection, and durability in harsh environments.

Structure and Design

GYXTS cables feature a central loose tube that houses single-mode or multi-mode optical fibers, typically filled with a water-resistant compound to protect the fibers from moisture and mechanical stress. Surrounding the central tube are steel wire reinforcements and corrugated steel tape armor, providing high tensile strength and resistance to crushing, rodents, and other environmental hazards. The entire assembly is encased in a polyethylene (PE) outer sheath, which ensures weather resistance and durability for outdoor applications.

Fiber and Performance

The cable supports a variety of fiber types, including G652D, G655C, G657A1, G657A2, and multimode options like OM3 and OM4, with fiber counts typically ranging from 1 to 12 fibers. The loose tube design allows for thermal expansion and contraction without stressing the fibers, maintaining signal integrity over long distances. The cable operates reliably in temperatures from -40° to +70° and is suitable for both storage and active deployment.

Applications

GYXTS cables are ideal for long-distance telecommunications, FTTH (Fiber to the Home), building interconnections, and service drops. They are designed for installation in ducts, conduits, and aerial setups, providing protection against mechanical damage, moisture ingress, and rodent attacks. The steel-reinforced structure makes them particularly suitable for areas with harsh environmental conditions or where additional mechanical protection is required.

Standards and Installation

These cables comply with standards such as YD/T 769-2010, ensuring quality and performance consistency. Before installation, ducts should be cleaned and tested, and the inner diameter of the conduit should be at least 1.5 times the cable diameter to facilitate smooth laying. The loose tube is filled with a special grease to provide additional protection for the optical fibers during installation and operation. GYXTS cables combine mechanical robustness, environmental resistance, and high fiber density, making them a reliable choice for outdoor fiber optic networks in both urban and rural deployments.

Product Description GYXTS Optical cable, metal strengthened components, the center beam tube filled type, steel-Polyethylene

SPECIFICATION GYXTS Uni-tube Directly Buried or Underwater Optical Cable Description Single jelly

3 minutes to learn about fiber optic cable types, and fiber optic cable uses, product experts james xu from zion

Products Uni-tube Anti-rodent Optical Cable (GYXTS) Single-mode/multimode fibres are housed in a loose tube that is made of high

GL FIBER supplies GYXTS uni-tube anti-rodent fiber optical cable that guarantees reliable communication while withstanding harsh

GYXTW is a fiber optic cable that can serve overhead, buried and through-tube scenarios according to line design

Outdoor Fiber Optic Cable DYS outdoor fiber optic cables are built for harsh-environment routes -- direct burial, aerial, duct and self

GYXTS is a steel-armored, PE-sheathed outdoor fiber optic cable for ducts and conduits. Ideal for long

Duct and Non Self-Supporting Optical Cable GYXTS is a steel-reinforced, polyethylene-sheathed outdoor fiber optic cable designed

Buy GYXTS Anti-Rodent Anti-Birds Steel Tape Uni-tube Fiber Optic Cable from Zion Communication. Ideal for outdoor use, this

Features Stainless steel or galvanized steel self-supporting. Small cable diameter, light cable weight, easily to install. Excellet

GYXTS cable structure is to insert a single or multimode fiber loose tube, made of high modulus plastic it external wire

Single Mode Fig-8 Armored Fiber Optic Cable Steel Wire Supported GYXTC8S Non-metal central loose tube outdoor

GYXTS type optical cable is an outdoor optical cable for communication with metal reinforced components, central tube filled type,

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