

Outdoor Metal Optical Cable Models



Overview

Explore ETK Kablo's metallic armored fiber optic cables for robust protection in harsh environments.

Key Takeaways

Outdoor metal optical cables are designed with steel or aluminum armoring for durability, supporting aerial, duct, and direct-burial installations. Common Types and Structures



1. **Central Tube Steel Armored Cables** These cables feature a central buffer tube containing the optical fibers, surrounded by corrugated steel tape or steel strength members. They are compact, flexible, and suitable for duct, direct burial, and riser applications. The central tube isolates fibers from environmental stress, ensuring stable transmission and easy fiber identification through color coding. Examples include Corning MPC central tube steel armor cables and GYXTW-type cables with steel-polyethylene bonded sheaths for pipeline and overhead laying .

2. **Loose Tube Layer Stranded Cables** In this design, fibers are housed in loose tubes that are stranded around a central strength member. The cable may include metallic reinforcement such as aluminum or steel tape for additional compressive strength and rodent protection. These cables are suitable for direct burial, duct, and aerial installations. Models include GYTA, GYTY53, and GYTA53, which differ in sheath material (aluminum or polyethylene) and armoring type .

3. **Self-Supporting Aerial Cables** Some outdoor metal optical cables are designed as self-supporting, often in an 8-shaped configuration with steel-polyethylene bonded sheaths. These cables, such as GYXTC8S, combine metal reinforcement and self-supporting structure, making them ideal for overhead aerial deployment without additional support .

Key Features

- **Metallic Armoring:** Provides mechanical protection, compressive strength, and rodent resistance.
- **Environmental Durability:** Resistant to wind, sun, cold, and moisture; some include water-swallowable elements for longitudinal water tightness .
- **Fiber Options:** Available in singlemode and multimode (OM1-OM4) fibers, with fiber counts ranging from 2 to 24 or more .
- **Sheath Materials:** PE (polyethylene), LSZH (low-smoke zero halogen), or aluminum-polyethylene bonded sheaths depending on installation requirements .
- **Applications:** Suitable for aerial, duct, direct burial, and interbuilding backbone networks, with some models flame-retardant for indoor/outdoor use .

Summary of Popular Models

Model	Structure	Armoring	Deployment
GYXTW	Central tube, metal reinforcing member	Steel-polyethylene bonded	Pipeline, overhead
GYXTW53	Central tube, metal reinforcing member	Corrugated steel tape	Direct buried
GYTA	Loose tube, metal strengthening member	Aluminum-polyethylene	Pipeline, overhead
GYTY53	Loose tube, metal strengthening member	Corrugated steel tape	Direct buried
GYTA53	Loose tube, metal strengthening member	Corrugated steel tape	Direct buried
GYXTC8S	Central tube, 8-shaped self-supporting	Steel-polyethylene bonded	Overhead aerial

These models provide a range of options for mechanical protection, environmental resilience, and installation flexibility, making them suitable for diverse outdoor network deployments .

Article Content

Common models and types of outdoor optical cables

Outdoor optical cable, simply speaking, an optical cable used outdoors, is a kind of optical

Outdoor Steel Armored Cable

Steel armored cable is offered in 2 to 24-Fiber with options of PE or LSZH jackets, fiber choices of

Outdoor Optical Cables for Duct, Aerial, Direct Burial, and Power Line ...

Choose the best outdoor fiber cable for each installation environment. From aerial self-supporting ADSS cables to

Outdoor | Corning

FlexNAP™ System Glossary of Terms Optical Fiber Resource Center OptiSnap® Connectors Resource Center Product

Metallic Armored Fiber Optic Cables | ETK Kablo

Explore ETK Kablo's metallic armored fiber optic cables for robust protection in harsh environments. Ideal for underground and

Outdoor Parallel Steel Wires & Steel Armored Uni-tube Fiber Optic Cable

Between the corrugated steel tape and the loose tube, water-blocking material is applied to keep the cable compact and watertight.

Outdoor Armored Fiber Optic Cable Types: A Guide

Decode GYTA, GYTS, GYTA53 and other outdoor armored fiber optic cable types: what each model code means,

Outdoor optical Fiber cable models and classifications

GYXTC8S - Outdoor optical cable for communication with metal reinforcing members, central pipe filling type, 8-shaped self

Outdoor Steel Armored Multi-tube Fiber Optic Cable

Install the fiber optic cable inside of existed conduits, this need excellent tensile strength also additional steel tape armored against

Ultimate Guide to Choosing the Best Outdoor Fiber

Discover the ultimate guide to selecting the best outdoor fiber optic cable for your needs.

Fiber Outside Plant Cables

Fiber Outside Plant Cables CommScope outside plant fiber optic cables are meticulously designed to withstand the rigors of outdoor

Fiber Optic Outdoor Cables

Fiber optic cables for outdoor applications are engineered to withstand the more demanding conditions seen outside, from

Fiber Optic Cables | Corning

With 2 billion kilometers of fiber optic cables installed around the globe, Corning continues to lead the industry in product quality and

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TP-Link WiFi Extender with Ethernet Port, Dual Band 5GHz/2

TP-Link WiFi Extender with Ethernet Port, Dual Band 5GHz/2.4GHz, Up to 44% More Bandwidth Than Single Band, Covers Up to

An Article to Help You Understand Outdoor Optical Cables

Typical Models and Comparison □□ Military Field Optical Cables Military field optical cables are designed for combat and field

Multi-Loose Tube Fiber Cable

Belden's Multi-Loose Tube (MLT) Cables support outdoor and indoor/outdoor use—including conduit,

FieldSmart Metal Outdoor Fiber Mount | Clearfield

The FieldSmart FDP 24 Port Outdoor Wall Box is ideal for both residential MDUs and business-class environments. Configurable for

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