

RIVO MULTITRADE OPTICAL SYSTEMS

Single-mode four-core outdoor fiber optic model



Overview

FTTH Cable 4 Core Single Mode Bend Insensitive Outdoor Every operator can provide its services to the users with independent access fiber. It saves in signi.

Key Takeaways

A four-core single-mode outdoor fiber optic cable is designed for long-distance, high-speed data transmission with robust outdoor protection and can support multiple telecom operators simultaneously. Key Features and Construction

- Fiber Type: Single-mode optical fiber, typically made of high-purity silica with germanium doping, compliant with ITU-T G.657.A standards for bend insensitivity .
- Core Count: 4 cores, often arranged as 2x2 in Siamese models or in a loose tube configuration .
- Protective Layers: Includes UV-curable acrylate coating on fibers, PE (polyethylene) outer sheath, multi-strand aramid yarn for tensile strength, and FRP (fiber-reinforced plastic) rods for additional mechanical protection .
- Outdoor Suitability: Designed for direct burial, aerial installation with steel messenger wires, or duct installation. Features rodent protection, water-blocking jelly, and resistance to UV, moisture, and temperature variations .
- Diameter Options: Common diameters range from 5.5 mm to 7.0 mm depending on manufacturer and cable design .

- Performance: Supports high-speed data transmission for FTTH, GPON, or telecom networks. Tested for splice loss, length, and integrity using OTDR at wavelengths 1310, 1550, and 1625 nm .

Advantages

- Multi-Operator Support: Siamese models allow a single cable to serve two independent telecom operators, reducing installation and material costs .
- Durability: Designed to withstand mechanical stress, bending, and environmental factors, ensuring long-term reliability in outdoor deployments .
- Ease of Installation: Supplied on drums with pulling aids and rodent protection, suitable for aerial or underground installation .

Applications

- FTTH (Fiber to the Home) networks
- GPON (Gigabit Passive Optical Networks)
- Long-distance outdoor telecom links
- High-speed data transmission in urban and rural areas

Suppliers and Models

- Astel FTTH 4-Core Siamese Cable: Bend-insensitive, supports dual operators, includes FRP rods and steel messenger .
- GYXTW 4-Core Outdoor Cable: Loose tube design, suitable for aerial and duct installations, available in lengths up to 1000 meters .
- Jera Line 4-Core Drop Cable: Round drop cable with PE cover, aramid yarn, PBT loose tube, and jelly compound, tested with OTDR .
- Hanxin 4-Core Outdoor Cable: Multiple diameter options, high-quality production lines, widely used in telecom, high-speed rail, and industrial applications .
- Fiber24 Loose Tube 4-Core OS2 Cable: LC/UPC connectors, rodent protection, suitable for tube or underground installation . These cables are widely available from manufacturers and distributors, and selection depends on installation environment, mechanical protection needs, and network requirements.

Article Content

Amazon : ZHANGGH Outdoor Fiber Optic Cable, Single Mode, 4

Outdoor Fiber Optic Cable, Single Mode, 4 Core, Waterproof and Tensile, Armored Fiber, Wire Diameter 7mm, 30MM, 5m, 10m (LC

FTTH Cable 4 Core Single Mode Bend Insensitive Outdoor

Astel 4 Core Siamese model has 2 x 2 Fiber cables joined in the center by steel messenger. The cables has 2 x2 FRP Protection

2 / 4 Core Singlemode Outdoor Fiber Optic Drop Cable 30M 50M 80M

Singlemode Outdoor Fiber Optic Drop Cable designed for optimal data transmission. Engineered for reliability and efficiency, it offers

Outdoor Fiber Optic Cable | Outside Plant Fiber (OSP) Cable

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

2 4 Core Singlemode Outdoor Fiber Optic Drop Cable FTTH LAN

Singlemode 2/4 core outdoor fiber optic drop cable with LSZH jacket, high tensile strength, low insertion loss, and durable build. Ideal

4 Fiber Single-mode Custom Indoor/Outdoor Fiber Cable Assembly ...

Pre-terminated Fiber Optic Cable Assembly Save time splicing by making use of Fibertronics pre-terminated cable assemblies. This

FIBERHOME 4-Core Single-Mode Outdoor Fiber Optic Cable GYTS

This 4-core single-mode fiber optic cable offers exceptional signal integrity and durability, ideal for long-distance telecommunication

CTS CFC90D04LSBK 4 Core Fiber Outdoor Drop Cable

CTS Fiber solution offers small, lightweight and bend insensitive optical drop cables that are suitable for FTTx applications. The

04 Core, Single-Mode, FTTH Flat Outdoor Armoured, Fiber Optic Drop ...

- 04 Core Single-Mode Fiber Optic Drop Cable designed for outdoor FTTH (fiber-to-the-home) installations.
- Flat design allows for

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