

400 meters of 4-core single-mode optical cable



AI Overview

A 400-meter 4-core single-mode optical fiber cable provides high-speed, long-distance data transmission with minimal signal loss, suitable for medium-scale networks and backbone connections.

Key Specifications

- Core Count:** 4 individual fibers, each capable of transmitting data independently, allowing redundancy and multiple simultaneous data streams.
- Fiber Type:** Single-mode (OS1/OS2), with a core diameter of approximately 9 microns, designed for long-distance transmission with low attenuation.
- Distance Capability:** Can transmit signals over distances exceeding 100 km with minimal signal loss, depending on the OS1 or OS2 specification.
- Bandwidth:** Supports high-speed applications up to 10 Gbps, suitable for video conferencing, data centers, and enterprise networks.
- Attenuation:** OS1 cables typically have 0.4 dB/km at 1310 nm and 0.3 dB/km at 1550 nm; OS2 cables have 0.3 dB/km at 1550 nm, ensuring efficient long-distance transmission.

Construction and Features

- Jacket Material:** Options include PVC, LSZH, OFNR, or OFNP, depending on indoor or outdoor installation requirements.
- Strength Members:** Often reinforced with aramid yarn for tensile strength; armored versions are available for rodent protection and outdoor durability.
- Pre-Terminated Options:** Some 400-meter cables come with SC, LC, or FC connectors, reducing on-site labor and splice losses.
- Installation Flexibility:** Suitable for duct, indoor, outdoor, aerial, or direct burial applications depending on the cable design.

Applications

- Medium-Scale Networks:** Campus networks, ISP backbones, and enterprise connections.
- Data Centers:** High-speed interconnects between servers and switches.
- Telecommunications:** Long-distance signal transmission with minimal interference.
- Industrial and Commercial Use:** Video surveillance, control systems, and high-bandwidth applications.

Considerations

Total...

Article Content

4 Core Optical Fiber Cable

Our 4 Core FTTH Single Mode Optical Fiber Cables are designed to meet the specific needs of telecom operators and ISPs. They provide high-performance

Fully Outdoor 4 Core Single Mode OS2 / FTTH Fiber

1310nm:0.296dB/km. Ensure high-speed, long-distance data transmission with this 4 Core Outdoor Single Mode Fiber Optic Cable (9/125). Designed for demanding

4 Core Singlemode Armored Fiber Optic Cable Per Meter

4 Core Singlemode Fiber Optic Cable locates in the centre of core as metallic strength member, tubes (fillers) are stranded around the strength member into compact and circular cable core, PSP is

OM4 Multi Mode Fiber Optic Cables |

Fiber4u offers OM4 Fiber Cable solutions designed for ultra-high-speed data transmission. With a core diameter of 50/125 μm , OM4 fiber cables support data transmission speeds of 10 Gbps over

Fiber Optic Cable

Offered dry or gel-filled these cables are ideal for indoor, outdoor and industrial applications, including conduit, direct burial, lashed aerial and more.

4-Core Outdoor Single Mode Fiber Optic Cable GYXTW

GYXTW is an outdoor use optical fiber cable suitable for duct and aerial applications. We supply GYXTW fiber optic cable from 2 fiber cores to 24 fiber

Single Mode Fiber Optic Cables |

Find premium single mode fiber optic cables for high-speed data transmission. 20 years of expertise and worldwide delivery.

5 Meters 4 Core Industrial TPU LC to LC Outdoor

About this item 4 Core Single Mode LC Industrial Armored TPU Fiber Optic Patch Cable: Industrial TPU Jacket features strong tensile strength, high abrasion

FLYPROFiber

Experience unmatched speed and performance with this advanced fiber optic cable. Easy Installation and Connectivity--- The OS2 LC 4-core outdoor armored fiber optic cable ensures hassle-free

OS2 Single Mode Fibre Optic Patch Leads, SMF Duplex

FS offers single mode duplex fibre patch leads & cables for 1G/10G/40G/100G/400G Ethernet fibre connections that can transport data up to 10km at 1310nm and

DRAKA optical cable 4 core

Optical networks must adapt to these requirements by increasing their dynamics, offering higher capacities and lower latency. At the same time, density is

4 Core Single Mode Fiber Optic Cable Price with

Known for its commitment to quality and innovation, OWIRE offers a comprehensive range of fiber optic products, including high-performance 4 core

4 Core Single Mode Fiber Optic Cable

HES 4 Core Single Tube Steel Armored Fiber Optic Cable, SM 9/125 μ Single Mode. Durable and high-performance fiber optic solution.

4 Strands Direct-Burial Fiber Optic Cable 400 Meters

Constructed with stronger materials and protective coatings, direct-burial fiber optic cables ensure efficient signal transfer and minimize signal loss or disruptions. Equipped with 4 fiber strands,

best 4 core ftth cable fiber optic Single mode outdoor

One of the key features of this fiber optic cable is its four-core design, which allows for higher data transmission capacity, supporting multiple services

4 Fiber Single-mode Custom Indoor/Outdoor Fiber

Save time splicing by making use of Fibertronics pre-terminated cable assemblies. This cable is a 4 Fiber Single-mode Custom Indoor/Outdoor Fiber Cable with Pre

4-Core Single mode Fiber Optic Cable

Fiber optic 4-core round drop cable consists of four parts, PE plastic cover, multi

4-Core Single mode Fiber Optic Cable

4-Core Single mode Fiber Optic Cable also called 4-core Optical fiber cable, is a type of communications optic cable which has the same transmission speed as

4 core singlemode fiber optic cable

Find high-quality 4 core singlemode fiber optic cables for various applications. Durable, reliable, and efficient for communications and data transfer.

4 core single mode fiber optic cable

Discover 4 core single mode fiber optic cable for reliable fiber-optic communication. Ideal for indoor/outdoor use with CE certification.

Single Mode Fiber

These fibers enable single mode transmission from 400 - 680 nm and feature an acrylate jacket. The S405-XP and SM400 fibers both consist of an undoped,

4 core multimode fiber optic cable price per meter

Discover 4 core multimode fiber optic cable price per meter with OM3/OM4, LSZH jacket & CE certification for reliable outdoor connectivity.

Pre-Terminated Fiber Optic Cable Assemblies

Single-mode cables, with their thin glass fiber cores transmitting single rays of light, are optimal for long-distance connections due to their resistance to attenuation.

Fiber Optic Cable 4 Core Single Mode

Overview: Rayoptic Communication Co., Ltd (Rayoptic) offers top-quality 4-core single mode fiber optic cables designed for high-performance and reliable data transmission in various networking

Loose Tube Outdoor Cable OS2, 4-Core, LC/UPC

High-quality LC-LC single-mode (mono-mode) Loose Tube installation outdoor cable for laying in a tube above- or underground. Black multi-purpose cable with four

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables, as well as the various

Cable Size Calculator — Free, Fast & IEC/NEC Compliant

Free cable size calculator for single-phase and 3-phase systems. Enter current, length & install method — get mm² size, voltage drop & derating in

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