

Single-mode fiber optic cable 200 meters



AI Overview

A 200-meter single-mode fiber optic cable is designed for long-distance, high-speed data transmission, typically using 9/125 micron OS2 fiber with LC, ST, or LC-LC connectors. Key Specifications

Fiber Type: Single-mode (9/125 micron core/cladding), OS2 standard for long-distance transmission.

Length: 200 meters, suitable for medium-range network connections.

Connectors: Common configurations include LC to ST, LC to LC, or LC duplex, allowing flexible connectivity between devices.

Bandwidth & Speed: Supports high-speed data transfer, including 10Gbps over distances up to 10 km at 1310 nm and up to 40 km at 1550 nm.

Attenuation: Typically around 0.4 dB/km, ensuring minimal signal loss over 200 meters.

Duplex Capability: Many cables are duplex, allowing simultaneous bidirectional communication.

Construction and Durability

Jacket Material: Options include PVC, LSZH (low-smoke zero halogen), or TPU for outdoor and harsh environments.

Armored Options: Some cables feature aramid yarn reinforcement and armored sheaths for field deployment, military, or temporary setups, providing high tensile strength and resistance to mechanical stress.

Indoor/Outdoor Use: Many 200-meter single-mode cables are rated for both indoor and outdoor applications, with UV-resistant and waterproof jackets for outdoor deployment.

Applications

Telecommunications and Networking: Ideal for connecting switches, routers, and SFP modules in enterprise or data center environments.

FTTH and CCTV: LSZH or G657A1 fiber variants are suitable for fiber-to-the-home networks and surveillance systems.

Field and Harsh Environments: Armored or ruggedized cables are used in military, temporary, or outdoor installations where repeated handling or environmental stress occurs.

Installation Considerations

Ensure proper connector compatibility with network devices (LC, ST, SC). Maintain minimum bend radius to prevent signal loss or fiber damage. For outdoor deployment, consider UV resistance...

Article Content

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25M SC-SC Simplex Singlemode Fiber Optic Cable 9/125

RiteAV - Uniboot LC to LC Outdoor Armored Fiber Patch Cable, Low Friction Single Mode Duplex Fiber Optic Cable Jumper Optical Patch Cord, 9/125um RiteAV HDMI Wall Plate 1 Port - 2 Gang

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Equipped with 4 fiber strands, enabling multiple data streams to be transmitted simultaneously. Transmit signals more efficiently over longer distances, with

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Typically both transmitters and receivers have receptacles for fiber optic connectors, so measuring the power of a transmitter is done by attaching a test cable to the source and measuring the power at the

Fiber Optic Cable Buying Guide | Eaton

Fiber Optic Cable Buying Guide Choosing single-mode or multimode fiber for high-performance data networking and telecommunications Fast data transmission,

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Help guide the cable into place and protect the fibers from being damaged during installation. 100% factory-terminated, tested and certified for quality assurance,

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Compare OM1-OM5 and singlemode fiber for 2025 data centers and AI networks. Expert guide to choosing the right fiber type for high-speed applications.

Haile 4-Core Single-Mode Armored Fiber Optic Cable 200m | Outdoor ...

Buy Haile 4-core single-mode 5.0mm armored fiber optic cable, 200 meters with optional cable car for outdoor emergency pulling and field communication. Supports SC/FC/LC connectors.

Fiber Optic Pigtail: The Complete Guide to Types,

Confused about fiber optic pigtails—which connector type, which polish, fusion or mechanical splice? Our guide covers LC vs SC, APC vs UPC,

Reference Guide to Fiber Optic Testing

Prior to installation, fiber inspections are performed to ensure that the fiber cables received from the manufacturer conform to the required specifications (length, attenuation, etc.) and have not been

The FOA Reference For Fiber Optics

All fiber optic applications are not the same. At the FOA, we're mainly concerned with communications fiber optics - telco, CATV, LAN, industrial, etc., but fiber

RiteAV RiteAV

Brand: RiteAV Color: Yellow/Blue Features: LC/UPC to Raw Fiber Eliminates troublesome field terminations Supports Both Fusion and Mechanical Splicing for Fiber Cabling Systems 1 Meter

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200 Meter LC/ST Singlemode Duplex Fiber Optic Cable,

Product Description This 200 Meter fiber optic cable is terminated with an LC (Lucent Connector) on one end and an ST (Straight Tip/Bayonet Connector) on

Haile Single Mode 4 Core Outdoor Armored Fiber Optic Cable 200m

With a compact 5.0mm diameter and armored construction, this 200-meter cable offers reliable single-mode transmission across four cores. Equipped with SC, FC, and LC connectors, it ensures versatile

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Fiber Optic Cable Types Fiber optic cable is designed to transmit data using light signals instead of electricity, making it faster, more secure, and immune to

LC-LC 200M Singlemode 4-Strand Armored Fiber Cable

200M LC-LC Singlemode 4-Strand Armored Fiber Optic Patch Cable with Waterproof TPU Connector. Durable and reliable for long-distance outdoor

Fiber Optic Cable Assemblies

Corning offers the most complete line of connectors and factory-terminated cables, from single-fiber patch cords to high-fiber-count assemblies.

Contact Us

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