One meter of optical fiber cable



Overview

1 m Fibre Optic Cables are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for 1 m Fibre Optic Cables.

Key Takeaways

A 1-meter optical fiber cable is a short-length fiber used for high-speed data transmission, available in single-mode or multimode types, suitable for patching, networking, and telecommunications applications.

Overview

A 1-meter optical fiber cable is a pre-terminated fiber cable designed to transmit digital data as light signals through glass or plastic fibers. These cables are commonly used for connecting networking devices such as switches, routers, media converters, and SFP/SFP+ transceivers in data centers, enterprise networks, and home labs. The short length makes them ideal for patching between devices or within racks without excess slack.

Types of FiberSingle-mode fiber (SMF): Has a small core (8–10 microns) and is suitable for long-distance transmission over 40–100 km. It is commonly used for cable TV, internet backbones, and telephone signals. Multimode fiber (MMF): Has a larger core (50–62.

5 microns) and supports multiple light paths, suitable for shorter distances up to 2 km, often used in local area networks. Construction and Features1-meter fiber cables are available in various constructions: Simplex or duplex: Single or dual fibers for one-way or simultaneous two-way data transmission. Jacket types: Indoor, outdoor, armored, or plenum-rated for fire safety and environmental protection.

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Connectors: Common types include LC, SC, ST, and MPO, often with dust caps to prevent contamination. These cables are engineered for low insertion loss and high return loss, ensuring stable, high-performance connections.

Cost

The price of a 1-meter fiber optic cable varies depending on type and quality: Single-mode patch cables: Typically $1–$6 per foot at retail, which translates to roughly $3–$20 per meter. Multimode patch cables: Slightly higher due to larger cores and multiple strands, generally within the same range for short lengths. Pre-terminated cables with connectors are more expensive than bulk fiber due to factory termination and testing.

Applications

Connecting network devices in data centers or server roomsShort-distance high-speed data transmissionTelecommunications and internet service provider setupsLaboratory or home networking experiments A 1-meter optical fiber cable provides a convenient, reliable, and high-speed solution for linking devices over short distances while maintaining the advantages of fiber optics, including high bandwidth, low signal loss, and immunity to electromagnetic interference.

Article Content

1 m Fibre Optic Cables – Mouser Europe

1 m Fibre Optic Cables are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for 1 m Fibre Optic Cables.

Ultra Spec Cables 1 Meter 10Gb OM3 Multimode Duplex Fiber

Ultra Spec Cables'' 10 Gigabit OM3 Fiber Optic Cables are pre-terminated with LC to LC Connectors, so they are ready for deployment in any Faster Ethernet Network environment.

Fibre Optic Cable

View Eland Cables'' range of singlemode and multimode fibre optic cables - loose tube and tight buffered. Technical support, fast quote, international logistics and fast delivery.

Fibre Optic Cable | Fibre Cable | RS

Lightweight and Space-Efficient: Fibre optic cables are smaller and lighter than traditional copper cables, making them easier to install and manage. They are also less bulky and do not suffer from issues like

Cost of Fiber Optic Cable: Pricing Guide (2026)

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Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation factors, and what impacts total project costs overall.

Fiber Optic Cables | Cable Assemblies | DigiKey

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Fiber Optic Cable: Single & Multimode Cables By The

These fiber optic cables by the foot are perfect for custom installations in a wide range of environments. Use them for telecommunications networks, local area

Fiber Optic Cables | Fiber Patch Cables | Patch Cords, Duplex

FCD offers TAA Compliant and Made in the USA fiber optic cables. We can custom build any length and type of fiber you need and we''ll ship the order typically within 1-2 days.

Fiber Optic Cable Pricing Guide: Factors That Affect Cost ...

This guide outlines the major factors that influence fiber optic cable costs and provides practical tips for estimating pricing in bulk or project-based scenarios.

Fiber Optical Cable Single Mode

Six Fiber Core 20 Meter Long Cable Single Mode Compatibility Specially designed for reliable, long-distance, Ethernet connectivity between switches, servers,

AUA-9 1Mw Power FTTH Fiber Optic Optical Power Meter Cable Tester

Summary This type of Handheld optical power meter is a compact and an easy-to-use testing instrument for optical fiber networks, which can be used for absolute optical power measurements as well as for

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.

Handheld Optical Power Meter Suppliers and Manufacturers China ...

Product Overview This handheld optical power meter is designed for fiber optic network installation, maintenance, inspection, and troubleshooting. It helps technicians quickly measure optical signal

NassauNationalCable 9 Meter 2 Fiber Opti-Core Optic Patch Cord

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[/pdf] About: The "9 Meter 2 Fiber Opti-Core Fiber Optic Patch Cord Pigtail OS1/OS2 LC Duplex F92ELLNLNSNM009" is a specialized fiber optic cable designed for high-performance networking

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Guidelines On What Loss To Expect When Testing Fiber Optic Cables

Short fiber optic premises cabling networks are generally tested in three ways, connector inspection/cleaning with a microscope, insertion loss testing with a light source and power meter or

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Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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