

OM5 Multimode Fiber Optic Price



AI Overview

OM5 multimode fiber is currently more expensive than OM4 due to its wideband design and SWDM support, though the exact price varies by vendor and project scale. OM5, also known as Wideband Multimode Fiber (WBMMF), is designed to support multiple wavelengths (850–953 nm) simultaneously using Short Wavelength Division Multiplexing (SWDM), enabling higher bandwidth density over fewer fiber strands. This makes it ideal for 100G, 400G, and even 1TbE deployments in high-density data centers, particularly when fiber count is limited.

Cost Factors

Raw Fiber Material: OM5 requires a more complex refractive index profile to maintain wideband performance, making the raw glass more expensive than OM4.

Transceivers: To fully utilize OM5, SWDM or BiDi transceivers are needed, which are costlier than standard 850 nm VCSEL modules used with OM4.

Backward Compatibility: OM5 is fully compatible with OM4 patch panels and transceivers, but if mixed, the link defaults to OM4 performance, meaning the wideband benefits are not realized.

Total Cost of Ownership (TCO): While OM5 has a higher per-meter cost, it can reduce the number of fibers and transceivers needed for high-speed links, potentially lowering long-term expansion costs in large-scale deployments.

Pricing Overview

Per-Meter Cost: OM5 fiber is generally higher than OM4, though specific prices vary by manufacturer, quantity, and custom features like pre-terminated MPO assemblies or branded jackets.

Comparison with OM4: For standard 10G/40G/100G links without SWDM, OM4 remains the most cost-effective option, as OM5 offers no performance gain at 850 nm alone.

Use Cases Justifying OM5: OM5 is worth the premium if you need SWDM4 or BiDi transceivers, are constrained by fiber count, or require distinct color coding for network segmentation. In practice, for most budget-conscious projects, OM4 remains the preferred choice, while OM5 is reserved for future-proof, high-density, or SWDM-specific deployments. For an accurate quote, contacting fiber vendors with your pro...

Article Content

OM5 50/125 Multimode | FiberMall

OM5 is a new standard for optical fiber cables defined by TIA and IEC. It is a broadband multimode fiber (WBMMF) and can support 200/400G Ethernet applications.

Fiber Optic Color Code: The Ultimate TIA-598-C Guide (2026)

Master the TIA-598-C fiber optic color code standard. Read our complete guide and use our free interactive calculator to easily identify 1-144 core cables.

MPO/MTP-8 Female to Female OM5 Fiber Patch Cable | Type B

Premium MPO/MTP-8 UPC (Female) to MPO/MTP-8 UPC (Female) multi-mode OM5 fiber optic patch cord. 8-fiber, Type B cross polarity, 0.35dB Max IL. Optimized for SWDM and high-speed

Single Mode vs. Multimode Fiber Optic Cables

There are two main types of fiber optic cables: single mode and multimode. Although they can do the same job in some instances, the different construction methods make each of them better

Fiber Optical Duplex Cable InLine 83515Q | AiO.lv

The InLine Fiber Optical Duplex Cable SC/SC 50/125µm OM5 15m is a multimode duplex fiber patch cable designed for high-bandwidth network links. It uses a 50/125 µm core/cladding structure with

Fiber Optic Pigtails | Fibertronics, Inc.

Fiber Optic Pigtails Fibertronics, Inc. offers a range of competitively priced fiber optic pigtails. Our selection includes three main fiber variants: 9/125um single mode, 62.5/125 multimode, and 50um

100 Meter 100Gb OM5 Multimode Duplex Fiber Optic Cable (50/125

Cost-Effective & Reliable – Get premium-quality fiber at an unbeatable price. Our Fiber Optic Cables are engineered for universal compatibility with a wide range of networking devices.

Alantec OM5 LC Duplex Multimode Fiber Adapter | AiO.lv

Reviews Questions Fiber Optic Adapter Alantec OM5 LC Duplex Multimode (no flange) FOA-LC-MMDS-5 4.49 € Add to cart Proceed to checkout Keep track of price changes You keep track of price

Multimode Kabel OM1/OM2/OM3/OM4/OM5 bei

Multimode Kabel in verschiedenen Ausführungen – ideal für die Einrichtung Ihrer lokalen Netzwerke. Hohe Qualität, schnell verfügbar | ShopFiber24

OM5 50/125 Multimode Fiber Optic Cable by the Foot

Our bulk multimode OM5 50/125 bulk unterminated fiber includes all jacket types, is in stock, cut to your custom length, and usually ships within 24 hours.

LC-LC 100G OM5 Duplex Fiber Patch Cable (LSZH)

Buy LC to LC 100G OM5 Multimode Duplex Fiber Patch Cable (50/125µm, 2.0mm, UPC, LSZH, Green) online, Affordable Factory Price & 5-Year Warranty.

MPO MTP OM5 Multimode 12F Fiber Optic Patchcord for Data Center

High-performance MPO MTP OM5 multimode 12F fiber optic patchcord with customizable options, precision ferrules, and rigorous testing for data center & telecom applications.

OM5 Fiber Cables

The multimode OM5 fiber cables from ShowMeCables are used for telecom, Datacom (data centers), transceiver connectivity, enterprise networking, 100 gigabit Ethernet, SWDM and VCSEL

Pre-Terminated Fiber Cable Assemblies: Complete Buyer's Guide

Pre-terminated fiber cable assemblies save 30-50% on install costs vs field splicing. Learn types, connectors, pricing, and how to order custom fiber optic cable assemblies from BWNFiber.

Multimode Fiber: OM1 vs OM2 vs OM3 vs OM4 vs OM5 Comparison

Explore differences between OM1, OM2, OM3, OM4, OM5 multimode fiber, including core size, bandwidth, transmission distance & applications. Choose premium Weunion multimode

Fiber Optic Cable: Single & Multimode Cables By The

We offer fiber optic cable by the foot in a variety of fiber types and strand counts to meet your network installation needs. Whether you're building a new system or

OM5 Multimode Fiber Optic Cables

The L-com OM5 50/125 Multimode Fiber Optic Cables are available in a variety of lengths and connector combinations. It is a perfect choice for high-bandwidth applications such as 100 Gigabit Ethernet, 400

Fibre optic cable EFB Elektronik Duplex LC-LC 50/125µ OM5 15m

Short description The EFB Elektronik Duplex LC-LC fibre optic cable is designed for high-speed data transmission. With a length of 15 meters, it features OM5 multimode fibre with a core

Contact Us

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