Price Differences in 10 Gigabit Multimode Fiber Optic Cables



Overview

How Do Multimode Fiber Optic Cable Prices.This guide compares multimode cable prices across OM1–OM5 and explains what really moves the number: fiber grade.

Key Takeaways

10 Gigabit multimode fiber optic cable prices vary significantly by fiber type, construction, and application, ranging from around $2. 50 per foot for OM1 to over $13 per foot for specialized OM4 cables. Price Ranges by Fiber TypeOM1 Multimode: Typically the most affordable option, suitable for short-distance 10 Gigabit Ethernet runs up to 33 meters.

Prices range from $2. 50 to $4. 00 per foot, depending on indoor/outdoor, plenum, or riser ratings.

OM2 Multimode: Slightly higher performance than OM1, supporting 10 Gigabit Ethernet up to 82 meters. Pricing is generally similar to OM1 but can be slightly higher due to improved bandwidth. OM3 Multimode: Optimized for laser-based equipment, supporting 10 Gigabit Ethernet up to 300 meters.

Prices range from $3. 28 to $4. 50 per foot, with riser and plenum-rated options affecting cost.

OM4 Multimode: Offers superior performance for 10 Gigabit Ethernet up to 550 meters and supports higher-speed 40G/100G links over shorter distances. Standard OM4 cables cost $4. 50 to $5.

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50 per foot, while armored or specialized versions can reach $13. 50 per foot. OM5 Multimode: Similar to OM4 in bandwidth but optimized for multiple wavelength transmission, generally priced slightly higher than OM4 due to advanced performance features.

Factors Affecting Pricing

Cable Construction: Plenum-rated cables for air-handling spaces cost more than riser-rated indoor cables. Armored cables for harsh environments or direct burial applications are significantly more expensive. Fiber Count: Higher strand counts increase cost proportionally.

For example, a 12-strand cable is cheaper than a 24-strand cable.

Pre-

Terminated Assemblies: Factory-terminated cables and patch cords with connectors (LC, MPO, etc.) add to the per-foot cost. Application and Distance: Longer runs or higher-speed requirements may necessitate OM3/OM4/OM5 fibers, increasing cost. Shorter campus or data center runs can often use OM1 or OM2 economically.

Bulk vs Retail: Purchasing in bulk from manufacturers or distributors can reduce per-foot costs by 20–40% compared to retail quantities.

Summary

For 10 Gigabit Ethernet applications, OM3 and OM4 are the most common choices due to their balance of performance and distance coverage. OM1 and OM2 remain cost-effective for very short runs, while OM5 is emerging for advanced multi-wavelength systems. Understanding the interplay of fiber type, cable construction, and installation requirements is essential for accurate budgeting and cost-effective deployment.

Article Content

How Do Multimode Fiber Optic Cable Prices.

This guide compares multimode cable prices across OM1–OM5 and explains what really moves the number: fiber grade, fiber count, jacket rating,

What Is Multimode Fiber? OM Grades, Distance, and Cost

The fiber cable itself is only slightly less expensive for multimode than single-mode. But when you multiply the transceiver savings across hundreds or thousands of switch ports in a data

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.

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

Identified by ISO 11801 standard, multimode fiber optic cables can be classified into OM1 fiber, OM2 fiber, OM3 fiber, OM4 fiber and newly released OM5 fiber. The next part will compare

Single Mode vs. Multimode Fiber: Core Differences and Selection Guide

For a clearer comparison, the following sections examine the main differences between single mode and multimode fiber in terms of jacket color, core diameter, light source and wavelength,

10-Gigabit Multimode Cables (OM3) for Sale | Cables on Demand

LC to SC Duplex 10Gb Multimode OM3 Fiber Optic Patch Cables by Amphenol offer unparalleled optical network performance at data-rates up to 10-Gigabits per second.

Fiber Optic Cable OM3 vs. OM4: Speed, Distance, and Differences

Compare OM3 vs OM4 multimode fiber: modal bandwidth, real-world distances for 10G/40G/100G, cost tradeoffs, compatibility tips, and engineer feedback from Reddit & field tests.

Ultra Spec Cables 10 Meter 10Gb OM3 Multimode Duplex Fiber

Upgrade your network with our high-quality fiber patch cables, designed for lightning-fast speeds, reliability, and long-term performance. Perfect for home labs, enterprise networking, and high-speed

50M LC-LC Multimode Duplex 10 Gigabit 10gb Fiber Optic Cable

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OM1 vs OM2 vs OM3 vs OM4 vs OM5 Multimode Fiber Guide

Compare OM1, OM2, OM3, OM4, and OM5 multimode fiber specs, distances, bandwidth, and applications. Essential guide for data center fiber selection.

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

OFNP OM4 Tight Buffer Fiber Cable | Corning Glass | Indoor & Outdoor

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OM4 Multimode 50/125 Indoor/Outdoor Plenum OFNP Distribution Fiber Optic Cable with Corning Glass This OM4 plenum distribution fiber cable is composed of 2-24 colored tight buffers, aramid yarn, and

Singlemode vs Multimode Fiber Optic Cable

We breakdown the differences between single mode and multimode fiber optic cable, covering aspects like physical structure, bandwidth over

Complete Guide to Fiber Optic Cables for Data Centers

Why Fiber Optic Cabling Is the Foundation of Modern Data Centers Copper cabling served data centers well for decades, but the physics of electrical signaling limit copper to approximately 100 meters at 10

Small Form-factor Pluggable

Small Form-factor Pluggable Small Form-factor Pluggable connected to a pair of fiber-optic cables Small Form-factor Pluggable (SFP) is a compact, hot-pluggable network interface module format used for

10 Gigabit Ethernet

A Foundry Networks router with 10 Gigabit Ethernet optical interfaces (XFP transceiver). The yellow cables are single-mode duplex fiber optic connections. There are two basic types of optical fiber used

How Do Multimode Fiber Optic Cable Prices.

How Do Multimode Fiber Optic Cable Prices Compare Across Different Types? This guide Learn more from AIMIFIBER — fiber optic

StarTech 450FBLCLC10 Duplex Fiber Optic Patch Cable 10 m

This LC to LC Multimode Duplex Fiber Optic Patch cable offers reliable connections for 40GBase-SR4, 100GBase-SR10, SFP+ and QSFP+ transceivers in your 40 and 100 Gigabit networks. Built for

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