

How much does one meter of 10 Gigabit power fiber optic cable cost



Overview

Active Optical Cable SFP+ 10Gbps, 1 meter, MSA They are electrically compliant with SFF-8431 and mechanically compliant with Ultra Spec Cables 10 Meter 10G.

Key Takeaways

The cost of 10 Gigabit-capable fiber optic cable ranges from approximately \$0.30 to \$6.50 per meter, depending on fiber type, strand count, and cable construction.

Price Ranges by Fiber Type and Construction Multimode fiber (OM3/OM4), commonly used for 10 Gigabit Ethernet in data centers and LAN backbones, typically costs \$1.50 to \$6.00 per foot, which converts to roughly \$4.

92 to \$19.68 per meter for retail pricing, though bulk purchases can be lower. Single-mode fiber (OS2), suitable for longer distances and future-proofing, generally costs \$0.

30 to \$2.80 per meter, depending on strand count and brand. Armored cables for outdoor or harsh environments add protection and increase cost, ranging from \$1.

15 to \$6.50 per meter.

Factors Affecting Cost



Fiber Count: Higher strand counts (e.g., 24-core, 96-core) increase the price proportionally compared to 1- or 2-core cables. **Cable Construction:** Indoor PVC or LSZH jackets are cheaper, while outdoor PE jackets, UV-resistant, or direct-burial-rated cables cost more. **Installation Considerations:** Pre-terminated cables, armored construction, and specialized connectors increase the per-meter cost.

Bulk vs Retail: Wholesale bulk purchases can reduce the cost significantly, sometimes to \$0.09–\$1.52 per foot for single-mode fiber.

Practical Example

For a typical 10 Gigabit LAN backbone using OM4 multimode fiber: Indoor, non-armored, 12-strand cable: ~\$1–\$3 per meter Outdoor, armored, 24-strand cable: ~\$4–\$6.50 per meter For single-mode OS2 fiber intended for longer runs: Indoor 12-strand cable: ~\$0.30–\$1.

50 per meter Outdoor armored 24-strand cable: ~\$2–\$2.80 per meter **Summary** The per-meter cost of 10 Gigabit fiber optic cable varies widely based on fiber type, strand count, and environmental rating. Multimode cables for short-range 10G applications are generally more expensive per meter than single-mode cables for long-range applications, especially when armored or pre-terminated.

Bulk purchases and indoor-rated cables can significantly reduce costs, while outdoor, armored, or high-strand-count cables represent the higher end of the price spectrum.

Article Content

Ultra Spec Cables 10 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.

How Much Does Fiber Optic Cable Cost? 2025 Factory Price Guide

Searching for how much does fiber optic cable costs? Stop guessing. We break down 2025 prices for OS2, OM3, and Armored cables directly from the Wolontek factory floor.

Cost of Fiber Optic Cable: Pricing Guide (2026)

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 Cable Cost Per Meter for U.S. Buyers 2026

Typical project ranges for fiber optic cable per meter span from a low of roughly \$0.65 to a high around \$5.00, depending on type, protection, and installation needs. The majority of projects

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 Optic Cable Cost Guide 2026 - LatestCost - Real-Time Price

Main cost drivers include cable grade (indoor vs outdoor, armoured), distance, and labor for trenching, splicing, and termination. This guide presents ranges in USD and practical price

6 Strand Outdoor OM3 Fiber Optic Cable, 10Gb, Black, 1000ft

This is a black bulk 1000 foot spool of indoor/outdoor rated fiber optic distribution cable intended for large installations of short range runs at 10 Gigabit speeds.

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.

How much does 10 Gigabit single-mode fiber optic cable cost per meter

The singlemode fibre cable price is surprisingly competitive, ranging from \$0.40 to \$1.00 AUD per metre, often making it cheaper than OM3 or OM4 in terms of raw

The FOA Reference For Fiber Optics

In the meantime, continue testing as usual. There are five ways listed in various international standards from the EIA/TIA and ISO/IEC to test installed fiber optic

Best Ethernet Cables 2026: Cat6, Cat6A & Shielded

We've pulled Cat6A, shielded, outdoor, and direct-burial cables across 50+ business installs. What we recommend — by use case and

Online Bulk Cable Company | CableWholesale

As a premier online bulk cable company, CableWholesale carries a large inventory of computer cables, USB, HDMI, fiber optic, VGA cables, and more. Shop now!

Fiber-optic communication

Modern fiber-optic communication systems generally include optical transmitters that convert electrical signals into optical signals, optical fiber cables to carry the signal, optical amplifiers, and optical

How Does Fiber Internet Work | Verizon Business

Learn how fiber internet works with Verizon Business. Enjoy faster and more reliable connectivity for your business operations.

Welcome to Channel Dive | Channel Dive

Welcome to Channel Dive. We're Informa TechTarget's new publication, focused on delivering daily news and analysis for executives at North

Gigabit Ethernet

Gigabit Ethernet was the next iteration, increasing the speed to 1000 Mbit/s. The initial standard for Gigabit Ethernet was produced by the IEEE in June 1998 as

The FOA Reference For Fiber Optics

Underground Cables Digging trenches to bury fiber optic duct and pulling cables into duct Underground cables are pulled in conduit that is buried underground, usually 3-4 feet (1-1.2 meters) deep to

How Long Can an Ethernet Cable Be? Speed, Signal Loss & 10GbE

Does cable length affect speed? Standard max is 100 m per channel. Cat6A runs 10GbE to 100 m; Cat6 is typically ~55 m for 10GbE. Learn attenuation basics, how to test, and when to

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

