

Price of 10 Gigabit Single-Mode Fiber Optic



AI Overview

The cost of 10 Gigabit single-mode (OS2) fiber optic cable typically ranges from \$0.30 to \$2.80 per meter, depending on cable type, fiber count, and brand. Price Range and Factors For standard single-mode fiber (OS2) suitable for 10G networks, the base cost per meter is generally \$0.30 to \$2.80. This range depends on several factors:

- Fiber Count:** Cables with more cores (e.g., 12-core vs 96-core) are more expensive due to increased material and manufacturing complexity.
- Cable Construction:** Armored cables for outdoor or harsh environments can increase the price by 20-50%, while indoor PVC or LSZH jackets are cheaper.
- Brand and Quality:** Premium glass fibers, such as Corning SMF-28e+, offer lower attenuation and better long-distance performance, which increases cost compared to generic glass.
- Pre-Terminated vs Bulk:** Pre-terminated cables cost more upfront (20-30% higher) but reduce installation labor costs.
- Conversion to Feet:** For reference, \$0.30-\$2.80 per meter translates roughly to \$0.09-\$0.85 per foot, which aligns with wholesale pricing for bulk single-mode fiber.

Summary

- Standard single-mode OS2 cable: \$0.30-\$2.80 per meter
- Armored or specialized outdoor cable: \$1.15-\$6.50 per meter

Factors affecting cost: fiber count, jacket type, brand, pre-termination, and environmental rating. This pricing provides a reliable estimate for budgeting 10G network deployments, whether for indoor, outdoor, or long-haul applications.

Article Content

Tripp Lite Gigabit SMF Fiber to Ethernet Media Converter 10/100/1000

Media converter lets you extend your copper Gigabit Ethernet network connection up to 20 km (12.4 mi.) over fiber optic cable. Features Extend Your Gigabit Ethernet Signal up to 12.4 Miles via SC

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Multi Scenario Application: OS2 LC to LC Single Mode Fiber Patch Cable can provide 10G/40G ethernet connections for high density application in gigabit ethernet, fiber channel, local

Cisco 10GBASE SFP+ Modules Data Sheet

It supports link lengths of up to 70 kilometers on standard Single-Mode Fiber (SMF, G.652), assuming a fiber chromatic dispersion of 20 *ps/(nm km). This interface is not specified as part of the 10 Gigabit

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Cisco 40GBASE QSFP Modules Data Sheet

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Fiber Optic Connectivity Market Share & Forecast, 2026-2033

The single-mode fiber segment is expected to account for 46.0% of the global fiber optic connectivity market share in 2026. The single-mode fiber is the most popular because it can carry

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What Is Fiber Optics? Definition from SearchNetworking

Types of fiber optic cables Multimode fiber and single-mode fiber are the two primary types of fiber optic cable. Single-mode fiber Single-mode fiber is

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Switches, Transceivers, Media Converters Full line of media conversion products for your copper-to-fiber network including 10/100 standalone converters, Industrial

10 Gigabit Fiber SFP+ Optical Transceiver Module

The Intellinet Network Solutions 10 Gigabit Fiber SFP+ Optical Transceiver Module (model 507479) is fully hot-pluggable, and that allows you to install the module

10Gtek 10GBase-LR SFP+ Transceiver, 10G 1310nm SMF

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Cisco SFP-10G-LR 10GBASE-LR SMF 1310nm SFP

Cisco SFP-10G-LR 10GBASE-LR SFP+ ensures 10Gbps over single-mode fiber at 1310nm for long-reach uplinks. Check live price and stock, buy online.

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OM3 multimode fiber supports 10 gigabit Ethernet to 300 meters and 40 gigabit to 100 meters using the appropriate optics. For longer distances or future-proofing beyond these limits,

10G SFP+ ER SMF 1310nm 40km Transceiver Module

Featuring a built-in Semtec/Macom chip and reliable DFB laser from global leaders, the 10G SFP+ ER1310 module delivers low power consumption and stable optical links for high-speed single mode

How Far Can Multimode Fiber Optic Cables Transmit?

Fiber optic technology is the backbone of modern high-speed communication networks, enabling the transmission of data over vast distances

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.araziyahsafety.co.za>

Email: info@araziyahsafety.co.za

Phone: +27 72 418 3692

Address: 123 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

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