Price per meter for optical fiber cables



Overview

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.

Key Takeaways

The price of optical fiber cable ranges from approximately $0. 05 to $6 per meter, depending on type, fiber count, and construction. General PricingSimplex/Duplex Indoor Cable: $0.

05 – $0. 30 per meter, suitable for basic indoor installations. Single-mode Outdoor Cable: $0.

10 – $0. 50 per meter, commonly used for long-distance or backbone networks. Multimode Fiber (OM1/OM2/OM3/OM4): $0.

10 – $0. 60 per meter, with higher-end OM3/OM4 cables costing more due to manufacturing standards. Armored Cable (Steel Tape or FRP): $0.

30 – $1. 00 per meter, designed for harsh environments or direct burial. High-count or specialty cables: Prices can reach $6 per meter for large 288-strand cables or pre-terminated assemblies.

Factors Affecting Price

Fiber Count: More strands increase cost; a 2-core cable is cheaper than a 24-core or 96-core cable. Cable Type: Single-mode fiber is generally cheaper per meter than multimode fiber, but multimode may be required for high-speed data centers. Construction and Jacket Material: Indoor PVC or LSZH jackets are cheaper, while outdoor PE jackets, UV-resistant, or armored cables cost more.

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Installation Considerations: Underground or direct-burial cables are more expensive than aerial or indoor runs. Brand and Quality: Premium glass (e.g., Corning) costs more but offers lower attenuation over long distances.

Practical Notes

Bulk Purchases: Wholesale or bulk orders can reduce the per-meter cost significantly, sometimes down to $0. 09 – $1. 52 per foot (~$0.

30 – $5 per meter) depending on specifications. Special Features: Pre-terminated cables, armored protection, or LSZH jackets increase cost but improve durability and safety. Market Variability: Prices fluctuate based on supplier, location, and current market conditions, so comparing quotes is recommended.

In summary, for standard optical fiber cables, expect $0. 05–$0. 60 per meter for typical indoor/outdoor cables, while specialty or high-count armored cables can cost up to $6 per meter depending on specifications and environmental requirements.

Article Content

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Thorlabs offers these single mode fibers for operating wavelengths from 320 nm to 2200 nm. Details on the physical and optical properties of these fibers are provided in Tables G1.1, G2.1, G3.1, G4.1,

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

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