

Price of one meter of optical fiber cable



AI Overview

The price of optical fiber cable ranges from approximately \$0.05 to \$6 per meter, depending on type, fiber count, and construction.

General Pricing

- Simplex/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.
- 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...

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What is Coaxial Cable

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The electrical interface of the module is compliant with the 800GAUI-8 interface as defined by IEEE 802.3ck, and compliant with OSFP MSA and QSFP-DD MSA. </p>
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