

Price list for various optical cables

Article Overview

Fiber optic cable prices range from \$0.09 to \$6 per foot depending on type, fiber count, and installation requirements.

Price Ranges by Cable Type

- o Single-mode fiber (OS1/OS2): Typically costs \$0.30 to \$2.80 per meter (\$0.09-\$0.85 per foot) for bulk orders, with prices increasing for higher fiber counts or premium glass brands . Single-mode is ideal for long-distance transmission and outdoor backbones.
- o Multimode fiber (OM3/OM4): Costs \$1 to \$6 per foot, depending on core size, fiber count, and quality standards . Multimode is commonly used in data centers and enterprise LANs for shorter distances.
- o Armored cables: Designed for protection against physical damage, these cables cost \$1.15 to \$6.50 per meter (\$0.35-\$2 per foot), with price influenced by steel tape armor and environmental conditions .
- o Patch cables and pre-terminated assemblies: Factory-terminated cables with connectors are more expensive, with costs varying by connector type and fiber strand count .

Factors Affecting Costs

- o Cable length and fiber count: Higher strand counts and longer runs increase material costs.
- o Installation type: Underground or trenching installations are more expensive than aerial or indoor runs .
- o Cable grade: Indoor, outdoor, or armored cables have different price points.
- o Connectors and termination: Pre-terminated cables and specialized connectors add to the cost.
- o Bulk vs retail: Wholesale purchases can reduce per-foot costs by 20-40% compared to retail .

Typical Project Costs

- o Commercial building installations with 100-200 network drops can range from \$15,000 to \$30,000, including materials and labor .
- o Material-only purchases for simple 1-core FTTH drop cables can be as low as \$0.13 per foot, while high-count backbone cables (e.g., 288 fibers) can reach \$6 per foot .

Summary

When budgeting for optical cables, consider the fiber type, strand count, installation environment, and connector requirements. Single-mode is cost-effective for long distances, multimode is suitable for short-range high-speed networks, and armored cables provide durability in harsh conditions. Bulk purchasing and comparing suppliers can significantly reduce costs while ensuring quality .



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Fiber optic cables are composed of one or more transparent fibers enclosed in protective coverings and strength members. Fiber

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Fiber optic cables are cables that contain one or more optical fibers, which are thin strands of glass or plastic that can transmit light

Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation factors, and what impacts

The following comparison table shows average cable costs for various types of 24-fiber

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