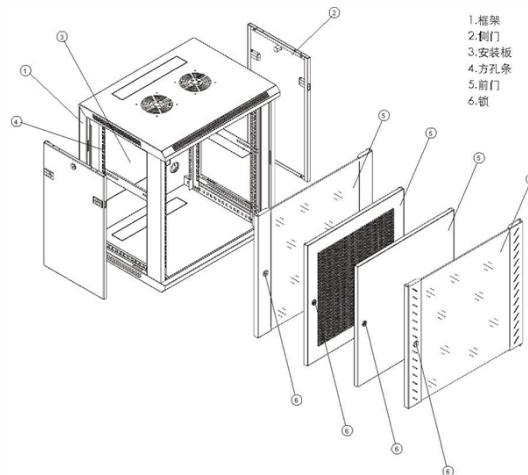


# Prices of all optical cable models



## AI 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

**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.

**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.

**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 .

**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**

**Cable length and fiber count:** Higher strand counts and longer runs increase material costs.

**Installation type:** Underground or trenching installations are more expensive than aerial or indoor runs .

**Cable grade:** Indoor, outdoor, or armored cables have different price points.

**Connectors and termination:** Pre-terminated cables and specialized connectors add to the cost.

**Bulk vs retail:** Wholesale purchases can reduce per-foot costs by 20–40% compared to retail .

**Typical Project Costs**

**Commercial building installations** with 100–200 network drops can range from \$15,000 to \$30,000, including materials and labor .

**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 hars...

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