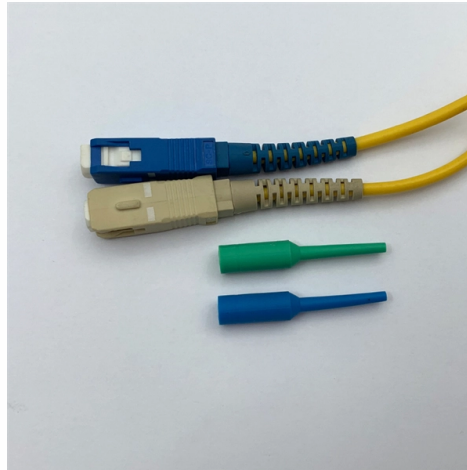


Information Price of Optical Fiber Cables



AI Overview

Fiber optic cable prices range from approximately \$0.09 to \$6 per foot depending on type, strand count, and application. Typical Pricing Materials Only: Wholesale bulk purchases range from \$0.09 to \$1.52 per foot, while retail prices are typically \$1 to \$6 per foot.

Single-Core FTTH Drop Cable: Around \$0.13 per foot.

High-Strand Backbone Cable (e.g., 288 strands): Can reach \$6 per foot or more.

Single-Mode Fiber: \$0.10–\$0.50 per foot.

Multimode Fiber: \$0.30–\$1.00 per foot. Higher strand counts increase costs proportionally (e.g., 12-strand $\approx$ \$0.50/ft, 24-strand $\approx$ \$1.00/ft).

Factors Affecting Cost

Fiber Type and Count: Single-mode is generally cheaper per meter than multimode for raw cable, but multimode may reduce total link costs due to cheaper transceivers.

Cable Construction: Indoor riser-rated cables are less expensive than plenum-rated or armored cables. Armored cables for harsh environments or direct burial can cost \$0.50–\$5 per foot.

Jacket Material and Environmental Rating: LSZH jackets are 25–40% more expensive than standard PVC. Outdoor UV-resistant jackets or direct-burial cables increase cost.

Installation and Labor: Labor for trenching, splicing, and termination can account for 60–80% of total project cost. Pre-terminated cables reduce field labor but increase upfront material cost.

Volume and Lead Time: Bulk orders (>10 km) reduce per-meter cost, while custom lengths or urgent orders increase it.

Regional and Regulatory Factors: Permit costs, local labor rates, and shipping logistics can add 5–25% to total project costs depending on location.

Example Project Costs

Basic Indoor Run (1,000 ft, single-mode): Cable \$0.40/ft, Labor \$1.00/ft, Permits \$150, Accessories \$100 $\rightarrow$ Total $\approx$ \$2,650–\$3,100.

Mid-Range Outdoor Run (2,000 ft, 4 terminations): Cable \$0.70/ft, Labor \$1.60/ft, Permits \$350, Delivery \$120, Accessories \$250 $\rightarrow$ Total $\approx$ \$4,940–\$6,120.

Premium Outdoor Run (5,000 ft, armored, multiple splices): Cable \$1.00/ft, Labor \$3.00/ft, Permits \$900, Delivery \$350 $\rightarrow$ Total $\approx$ \$11,000–\$14,500. S...

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