

Price list for 2 000-core optical fiber cable

Article Overview

A 2,000-core optical fiber cable can cost approximately \$1.50 to \$6 per foot, depending on fiber type, construction, and installation requirements.

Pricing Overview

The cost of fiber optic cables scales with fiber count, type, and construction. For high-count cables like a 2,000-core cable:

- o Single-mode fiber is generally cheaper per core than multimode fiber but requires more expensive transceivers and equipment, costing roughly \$0.10-\$0.50 per foot for low-count cables, with higher counts increasing proportionally .
- o Multimode fiber ranges from \$0.30-\$1.00 per foot for lower strand counts, with high-count cables like 2,000-core potentially reaching \$6 per foot or more due to manufacturing complexity .
- o Armored or outdoor-rated cables add 20-50% to the base cost, while indoor riser-rated cables are less expensive .
- o Bulk purchases can reduce per-foot costs by 20-40% compared to retail pricing .

Estimated Cost Calculation

Assuming a 2,000-core single-mode or multimode cable:

- o Material cost per foot: \$1.50-\$6
- o Per kilometer: \$4,920-\$19,680 (based on 3,280 feet per km)
- o Factors affecting final price: cable construction (loose tube vs tight-buffered), environmental rating (indoor/outdoor), armored vs non-armored, and lead time . For large-scale projects, suppliers often provide custom quotations, especially for ultra-high-count cables, as prices fluctuate with raw material availability and global demand .

Additional Considerations

- o Installation costs: Trenching, conduit, splicing, and termination can significantly increase total project costs, sometimes exceeding the cable material cost itself .
- o Regional variations: Prices differ by country and supplier; China's market often provides early indicators of global trends .
- o Long-term value: Fiber networks offer 20-30-year lifespans and lower maintenance costs compared to copper networks . In summary, a 2,000-core optical fiber cable is a high-cost, specialized product, with material costs likely ranging from \$1.50 to \$6 per foot, and total project costs depending heavily on



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installation, environmental requirements, and supplier terms.

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Understand the cost of fiber optic cable, factors that impact cost, and key considerations to

This guide outlines the major factors that influence fiber optic cable costs and provides practical tips for estimating

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Buyers typically pay a range for fiber optic cable per foot depending on fiber type, jacket, and shielding, plus

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Main cost drivers include cable grade (indoor vs outdoor, armoured), distance, and labor for trenching, splicing, and

A fiber-optic cable, also known as an optical-fiber cable, is an assembly similar to an electrical cable but containing one or more

The type of fiber optic cable selected based on your requirements, length of installation, and

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