

Price of 2km optical cable

Article Overview

The cost of a 2-kilometer optical cable ranges from approximately \$600 to \$12,000 depending on fiber type, strand count, and construction.

Estimated Material Costs

Fiber optic cable prices vary widely based on specifications:

- o Single-mode fiber (9/125 μm): \$0.10 to \$0.50 per foot for standard cables, translating to roughly \$656 to \$3,280 for 2 km (6,561 feet) if purchased as raw cable materials .
- o Multimode fiber (50/62.5 μm): \$0.30 to \$1.00 per foot, which would cost approximately \$1,968 to \$6,561 for 2 km .
- o High-strand-count or armored cables: Can reach \$5-\$6 per foot, potentially costing \$32,805 to \$39,366 for 2 km . Wholesale bulk purchases may reduce costs by 20-40%, while retail or pre-terminated cables are generally more expensive .

Specific 2 km Cable Listings

- o OTDR launch cable (2 km, single-mode, G652D): Available on Amazon, typically sold as bare fiber or pre-connectorized, with prices varying based on connector type and polish method .
- o Alibaba listings: Offer 2 km optical cables for long-distance applications, including single-mode and multimode options, with prices depending on fiber type, environmental protection (armored or outdoor-rated), and bandwidth requirements .

Factors Affecting Price

- o Fiber Type: Single-mode is cheaper per foot but requires more expensive transceivers; multimode is costlier per foot but cheaper equipment.
- o Strand Count: More strands increase cost proportionally.
- o Cable Construction: Armored or plenum-rated cables for harsh environments are more expensive.
- o Installation: Underground or direct-burial installation adds significant cost beyond the cable itself.

Practical Considerations

For a 2 km run, single-mode fiber is generally recommended for long-distance, high-bandwidth applications. If purchasing pre-terminated or armored cables, expect the higher end of the price range. For bulk raw cable purchases, contacting manufacturers or distributors directly can yield better pricing. In summary, a 2 km optical cable can cost anywhere from around \$600 for basic single-mode fiber to over \$12,000 for high-strand-count, armored, or pre-terminated cables, depending on specifications and purchase method .



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

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Cable consists of

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