

Price of 24-core optical fiber for communication cables



AI Overview

A 24-core optical fiber cable typically costs between \$1.20 and \$3.50 per meter, depending on fiber type, construction, and specifications.

Price Range by Fiber Type

- Single-mode (SMF):** Generally used for long-distance communication, single-mode 24-core cables cost \$1.50 to \$3.50 per meter due to higher precision manufacturing and superior performance characteristics.
- Multimode (MMF):** Suitable for shorter distances such as within buildings or campuses, multimode 24-core cables are slightly cheaper, typically \$1.20 to \$3.00 per meter.

Price Influencing Factors

- Cable Construction:** Loose-tube cables (outdoor, underground) are more expensive due to moisture and temperature protection. Armored cables include a metal layer for mechanical protection, increasing cost. Tight-buffered cables (indoor) are less expensive due to simpler construction.
- Environmental Rating and Jacket Material:** Outdoor or direct-burial cables with UV-resistant or flame-retardant jackets cost more. Indoor PVC or LSZH jackets are cheaper but unsuitable for harsh conditions.
- Bulk Purchase and Brand:** Buying in large quantities can reduce per-meter cost. Premium brands or cables with enhanced features (rodent resistance, UV protection) may exceed \$2.00 per meter.
- Market and Supply Factors:** Raw material prices, exchange rates, and global supply chain conditions can cause fluctuations.

Summary

- For a standard 24-core optical fiber cable suitable for communication:
- Standard single-mode loose-tube cable: \$1.50–\$3.50 per meter
- Standard multimode cable: \$1.20–\$3.00 per meter
- Premium or armored variants: \$2.00+ per meter

When procuring, consider not only the upfront cost but also long-term reliability, maintenance, and total cost of ownership, especially for critical communication networks.

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24 Core Outdoor Fibre Optic Cable

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Despite these variables, average market prices for 24 core fibre optic cables typically range from \$0.50 to \$1.50 per meter for standard single-mode loose tube cables, depending on

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Loose Tube Outdoor Cable OS2, 24-Core, SC/UPC

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