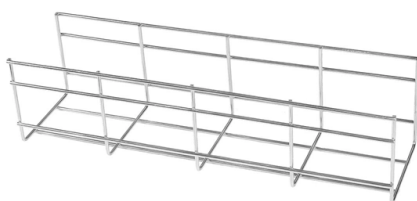


How much does a fiber optic cable reel cost



AI Overview

A reel of fiber optic cable typically costs between \$500 and \$18,000, depending on fiber type, strand count, length, and construction. Pricing Overview The cost of fiber optic cable varies widely based on several factors:

- Fiber Type:** Single-mode fiber (OS2) is generally cheaper, ranging from \$0.09 to \$1.52 per foot, while multimode fiber (OM3/OM4) can cost \$1.50 to \$6 per foot due to higher manufacturing complexity and performance requirements.
- Strand Count:** Higher strand counts increase costs. For example, a 12-strand cable may cost around \$0.50 per foot, whereas a 24-strand cable can reach \$1 per foot, and large backbone cables with 288 strands may exceed \$6 per foot.
- Cable Construction:** Armored cables for outdoor or harsh environments cost more, typically \$0.50 to \$5 per foot, while indoor riser-rated or plenum-rated cables are less expensive.
- Length of Reel:** Standard reels range from 500 feet to 10,000 feet. Bulk purchases of 10 km or more can reduce the per-foot cost significantly.

Example Costs

- Small indoor reel (500 ft, single-mode, 12-strand): approximately \$45–\$250.
- Medium outdoor reel (1,000 ft, multimode, armored): approximately \$1,500–\$6,000.
- Large backbone reel (10,000 ft, single-mode, 288-strand, armored): can cost \$15,000–\$18,000.

Additional Considerations

- Pre-terminated or factory-terminated cables cost 20–30% more but reduce on-site labor and splicing costs.
- Jacket material (PVC, LSZH, PE) and environmental ratings affect price, especially for outdoor or direct-burial applications.
- Bulk purchasing from manufacturers often provides discounts of 20–30% compared to distributor prices.

In summary, the cost of a fiber optic cable reel depends heavily on the fiber type, strand count, reel length, and construction, with prices ranging from a few hundred dollars for small indoor reels to over \$18,000 for large, high-strand-count outdoor re...

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The FOA Reference For Fiber Optics

Of course the fiber in the reference cables must match the type in the cables being tested and the connectors must be compatible. The condition of the connectors on the reference cables should be

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