

Price of optical fiber cable for communication reel

Article Overview

A standard 1,000-foot reel of optical fiber cable typically costs between \$100 and \$6,000, depending on fiber type, strand count, and construction.

Pricing Overview

The cost of fiber optic cable varies widely based on fiber type, strand count, and cable construction. For bulk purchases:

- Single-mode fiber (OS2): \$0.09 to \$1.52 per foot for wholesale or retail purchases .
- Multimode fiber (OM3/OM4): \$1.50 to \$6.00 per foot .
- Armored or outdoor-rated cables: \$0.50 to \$5 per foot, with some specialty armored cables reaching \$6.50 per foot . For a 1,000-foot reel, this translates approximately to:
 - Low-end single-mode: \$90-\$150
 - High-end multimode or armored: \$1,500-\$6,000

Factors Affecting Price

- Fiber Count: Higher strand counts increase cost. A 12-strand cable is cheaper than a 24-strand or 288-strand backbone cable .
- Cable Construction: Indoor riser-rated cables are less expensive than plenum-rated or armored cables designed for harsh environments .
- Material Quality: Premium glass fibers (e.g., Corning SMF-28®) cost more but offer lower attenuation and better long-term performance

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