

Price of Indoor Single-Mode Optical Cable

Article Overview

Indoor single-mode fiber optic cables typically cost between \$0.10 and \$7.00 per foot, depending on construction, rating, and features.

Typical Pricing

For standard indoor single-mode cables (OS1/OS2), the raw cable cost generally ranges from \$0.10 to \$0.50 per foot for basic tight-buffered cables suitable for riser or general indoor use, while higher-grade or plenum-rated cables can cost more due to fire safety and material requirements . Bulk purchases of standard cables may reduce the per-foot cost, whereas pre-terminated assemblies, armored cables, or cables with specialized jackets can range from \$2.00 to \$7.00 per foot .

Factors Affecting Cost

- **Cable Construction:** Tight-buffered cables (common for indoor use) are cheaper than plenum-rated or armored cables designed for air-handling spaces or harsh environments .
- **Fiber Count:** Single-strand cables are less expensive, while multi-strand cables (12, 24, or more fibers) increase the cost proportionally .
- **Jacket Material and Rating:** PVC or LSZH jackets for indoor use are more affordable, whereas plenum-rated jackets for fire safety add to the price .
- **Pre-Termination and Connectors:** Factory-terminated cables with connectors or patch cords are more expensive than bulk cable spooled for field termination .
- **Volume and Lead Time:** Buying in bulk (e.g., over 10 km) can significantly reduce per-foot pricing, while custom lengths or urgent orders may increase costs

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Single-mode optical fiber

In fiber-optic communication, a single-mode optical fiber, also known as fundamental- or mono-mode, is an optical fiber designed

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Prysmian 24 Strand, Indoor/Outdoor, Singlemode, Riser Rated Fiber Optic Cable
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