

Pre-fabricated optical cable price inquiry



Overview

Click on any jacket type or strand count below to build your custom preterminated fiber optic assembly.

Key Takeaways

Pre-fabricated optical cables typically cost between \$0.09 and \$6 per foot depending on fiber type, strand count, construction, and connectorization, with pre-terminated assemblies priced higher due to factory termination.

The price of pre-fabricated or pre-terminated fiber optic cables varies widely based on several factors:

- **Fiber Type and Count:** Single-mode fiber (OS1/OS2) generally costs \$0.10-\$0.50 per foot for standard cables, while multimode fiber (OM3/OM4) ranges from \$0.30-\$1.00 per foot. Higher strand counts increase costs proportionally; for example, a 12-strand cable may cost \$0.50 per foot, whereas a 24-strand cable can reach \$1.00 per foot, and large backbone cables (e.g., 288 strands) can exceed \$6 per foot .
- **Cable Construction and Rating:** Indoor riser-rated cables are less expensive than plenum-rated cables. Armored cables for harsh environments or direct burial applications range from \$0.50 to \$5 per foot .
- **Pre-terminated Assemblies:** Factory-terminated cables with connectors are more expensive than bulk cable due to labor and quality assurance. Prices vary by connector type and fiber count, but pre-terminated cables can save up to 70% in field labor costs compared to on-site termination .

- Jacket Material and Environmental Rating: Indoor PVC or LSZH jackets are cheaper, while outdoor PE or UV-resistant jackets increase costs. Direct-buried or flame-retardant cables require additional testing and certification, adding 20–50% to the base cost .
- Volume and Lead Time: Bulk purchases (e.g., >10 km reels) reduce per-unit costs, while custom lengths or urgent orders increase prices due to production inefficiencies .

Practical Pricing Examples

- Basic Indoor Run: 1,000 ft single-mode cable with minimal termination: Cable \$0.40/ft, Labor \$1.00/ft, Permits \$150, Accessories \$100. Total $\approx$ \$2,650–\$3,100 .
- Mid-Range Outdoor Run: 2,000 ft with conduit and 4 terminations: Cable \$0.70/ft, Labor \$1.60/ft, Permits \$350, Delivery \$120, Accessories \$250. Total $\approx$ \$4,940–\$6,120 .
- Premium Outdoor Run: 5,000 ft armored cable with multiple splices and professional testing: Cable \$1.00/ft, Labor \$3.00/ft, Permits \$900, Delivery \$350, Warranty included. Total $\approx$ \$11,000–\$14,500 .

Key Considerations

- Connector Type: LC, SC, MPO, or ST connectors affect pre-terminated cable pricing.
- Installation Savings: Pre-fabricated cables reduce on-site labor, splicing, and testing time.
- Regional Variations: Urban areas may have higher labor and permit costs (+15–25%), while rural areas may see lower labor but higher delivery costs ($\pm$ 5–15%), .
- Compliance and Certification: Cables meeting ITU-T, UL, or other standards may cost more but reduce long-term risk .

Summary

Pre-fabricated optical cables offer convenience and labor savings, with costs influenced by fiber type, strand count, construction, environmental rating, and connectorization. For budgeting, expect \$0.09–\$6 per foot for materials, with pre-terminated assemblies at the higher end, and total installed costs ranging from \$2,500 to \$14,500 for typical U.S. projects depending on length, environment, and complexity .

Article Content

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The FOA Reference For Fiber Optics

Manufacturers can design cables that fit in the common fiber optic innerducts as long as the contractor specifies this in the order.

Fiber Optic Cables | Cable Assemblies | DigiKey

Fiber Optic Cable Types Fiber optic cable is designed to transmit data using light signals instead of electricity, making it faster, more

Pre Terminated Fiber Custom Cables

Below you will find information on standard options and components available for pre terminated fiber optic cable assemblies. We

Custom Fiber Optic Cables | Fiber Optic Cable Calculator

Home Fiber Optic Cables Custom Fiber Custom Fiber Our Fiber Optic offerings are designed to provide you with everything you

Pre Terminated Fiber Optic Cable – Fronova

Pre terminated fiber optic cables are cables with optical fibers that come ready-made with various connector types, including ST, FC,

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Fiber optic cables are one of the most popular types of long-distance networking cable, making them ideal for a variety of

Comprehensive Guide to Fiber Optic Cable Pricing: Cost Analysis and ...

Explore detailed insights into fiber optic cable pricing, including cost factors, quality considerations, and long-term value benefits for

Pre Terminated Fiber Optic Cables | Custom Jackets & Connectors

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