

Price of Broadband Fiber Optic Cable



AI Overview

Fiber optic cable costs range from \$0.09 to \$6 per foot for materials, with total installed costs ranging from \$2 to \$14 per foot depending on installation complexity and cable type.

Material Costs The price of fiber optic cable varies widely based on fiber type, strand count, and application. Retail prices typically range from \$1 to \$6 per foot, while wholesale bulk purchases can cost as low as \$0.09 to \$1.52 per foot. A simple 1-core FTTH drop cable may cost around \$0.13 per foot, whereas a high-capacity 288-strand backbone cable can reach \$6 per foot or more. Single-mode fiber is generally cheaper per foot than multi-mode fiber but requires more expensive equipment for termination and testing.

Installation Costs Installation significantly increases the total cost. Labor, trenching, splicing, and termination are major contributors. Typical installed costs per foot vary by method:

- Indoor plenum or riser runs: \$0.80–\$1.70 per foot, including fire-rated pathways.
- Aerial installation on utility poles: \$1.20–\$2.50 per foot, including permits.
- Open trench in lawns or fields: \$0.90–\$1.80 per foot.
- Directional boring for road crossings: \$3.00–\$7.00 per foot to avoid surface disruption.

Labor rates for trenching and splicing typically range from \$0.60 to \$3.00 per foot, depending on terrain and precision required. Permits, delivery, and accessories can add several hundred dollars per project.

Project Examples

- Basic indoor run (1,000 ft single-mode): Cable \$0.40/ft, Labor \$1.00/ft, Permits \$150, Accessories \$100 → Total ≈ \$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 ≈ \$4,940–\$6,120.
- Premium outdoor run (5,000 ft armored cable, multiple splices, professional testing): Cable \$1.00/ft, Labor \$3.00/ft, Permits \$900, Delivery \$350 → Total ≈ \$11,000–\$14,500.

Factors Affecting Cost

- Fiber type: Single-mode vs multi-mode, OM3/OM4/OM5 standards.
- Installation environment: Indoor, outdoor, aerial, or underground.
- Cable st...

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Understanding the costs of fiber optic cable and installation is crucial for any project budgeting. This article will illuminate what goes into the pricing of

Cost of Fiber Optic Cable: Pricing Guide (2026)

Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation factors, and what impacts total project costs overall.

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Fiber Optic Cable Price Per Foot Guide 2026

Buyers typically pay a range for fiber optic cable per foot depending on fiber type, jacket, and shielding, plus installation considerations. This guide outlines typical cost ranges and the main

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