# Price List for Vertical Shaft Fiber Optic Cable Cabling



## Overview

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

## Key Takeaways

Vertical shaft fiber optic cabling costs vary by fiber type, strand count, jacket rating, and installation complexity, typically ranging from $0. 10 to $5 per foot for materials, with total project costs including labor and accessories reaching $2,500–$14,500 for standard runs. Fiber Cable Material CostsSingle-mode fiber (SMF) is ideal for long-distance transmission and typically costs $0.

10–$0. 50 per foot for standard indoor cables, with higher strand counts increasing the price proportionally (e.g., 12-strand ≈ $0. 50/ft, 24-strand ≈ $1.

00/ft). Multimode fiber (MMF), suitable for shorter distances like in-building vertical shafts, ranges from $0. 30–$1.

00 per foot, with OM3 and OM4 standards commonly used for high-speed LAN and data center applications. Cable construction and rating significantly affect pricing: Indoor riser-rated cables: lower cost, suitable for vertical shafts. Plenum-rated cables: higher cost, required for air-handling spaces.

Armored cables: $0. 50–$5 per foot, designed for harsh environments or direct burial. Core material also impacts cost: glass fiber cores provide superior performance and are standard for enterprise applications, while plastic optical fiber is cheaper but less common for vertical shaft installations.

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## Accessories and Connectivity

Vertical shaft installations often require additional components: Connectors, adapters, and patch panels: prices vary by type and quality, typically $5–$50 per connector or adapter. Enclosures and cassettes: $50–$500 depending on capacity and features. Splicing and termination kits: $100–$500 per kit for professional-grade tools.

## Labor and Installation Costs

Labor is a major cost factor, especially for vertical shaft runs: Indoor riser runs: $0. 60–$3. 00 per foot depending on access, precision, and termination requirements.

Outdoor or complex runs: higher rates due to trenching, conduit, or armored cable handling.

## Example Project Costs

Basic indoor 1,000 ft single-mode run: Cable $0. 40/ft, Labor $1. 00/ft, Permits $150, Accessories $100 → Total ≈ $2,650–$3,100.

Mid-range 2,000 ft outdoor run with conduit: Cable $0. 70/ft, Labor $1. 60/ft, Permits $350, Delivery $120, Accessories $250 → Total ≈ $4,940–$6,120.

Premium 5,000 ft armored run with multiple splices: Cable $1. 00/ft, Labor $3. 00/ft, Permits $900, Delivery $350 → Total ≈ $11,000–$14,500.

## Regional and Bulk Considerations

Urban areas may incur +15–25% higher labor and permit costs. Rural areas may have lower labor but higher delivery costs, ±5–15% variance. Bulk purchases can reduce per-foot cable costs by 20–40%.

## Summary

Vertical shaft fiber optic cabling pricing is influenced by fiber type, strand count, jacket rating, installation complexity, and regional factors. Material costs range from $0. 10–$5 per foot, while total project costs including labor, accessories, and permits can range from $2,500 to $14,500 for typical runs.

Planning for vertical shaft installations should account for future scalability, connector and enclosure needs, and labor variations to ensure accurate budgeting and long-term network reliability.

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## Article Content

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Cost: Plenum non-fiber cables tend to be more costly than riser cables due to the additional materials needed to make the cabling plenum-rated. That said, plenum

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