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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