Latest Price List for Optical Cable Sales

Overview

Buyers typically pay a range for fiber optic cable per foot depending on fiber type, jacket, and shielding, plus installation considerations.

Key Takeaways

Optical cable prices vary by fiber type, construction, and installation, ranging from $0. 09 to $6 per foot for materials, with total project costs including labor and accessories reaching $1,000–$22,000 for typical runs. Material CostsSingle-mode fiber (SMF, OS2): $0.

09–$1. 52 per foot for wholesale bulk purchases, or $0. 30–$2.

80 per meter depending on core count and brand, suitable for long-distance transmission. Multimode fiber (OM3/OM4): $0. 30–$1.

00 per foot for standard runs, with high-performance data center cables reaching $1. 50–$6. 00 per foot.

Armored cables: $0. 50–$5 per foot for outdoor or direct-burial applications, providing protection against physical damage. High-count backbone cables: 288-strand or larger can cost up to $6 per foot due to increased fiber count and specialized construction.

Installation and Ancillary Costs

Labor: $1–$6 per foot depending on complexity, trenching, splicing, and testing requirements. Permits and delivery: $150–$3,000 per project depending on local regulations and distance. Accessories: Connectors, patch panels, adapters, and testing equipment can add $100–$1,000 per run.

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Total project examples: Small indoor run (500 ft SMF): Cable $0. 25/ft, total materials $125, labor 6 hours, total ≈ $1,000–$1,600. Medium office run (2,000 ft OM4): Cable $0.

60/ft, total cable $1,200, labor $1,800–$3,300, total ≈ $3,000–$5,000. Large underground run (4,500 ft SMF, trenching, ducting, splicing): Cable $0. 90/ft, materials $4,050, labor $6,000–$12,000, permits $1,000–$3,000, total ≈ $11,000–$22,000.

Long-

Term Considerations

Scalability: Modular optical systems allow adding wavelengths or fibers without replacing the entire infrastructure, reducing long-term costs. Maintenance: Fiber networks have 20–30-year lifespans with lower ongoing maintenance than copper networks, but periodic testing and component replacement should be budgeted. Regional variations: Urban areas may incur +15–25% higher labor and permit costs, while rural areas may have ±5–15% variance due to delivery logistics.

Summary

For long-term optical cable procurement, expect material costs from $0. 09 to $6 per foot, with total installed project costs ranging from $1,000 for small indoor runs to $22,000 for large underground installations. Bulk orders, fiber type selection, and modular scalability can optimize both upfront and long-term expenditures while ensuring network reliability and future growth.

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