Fiber Optic Cable Price Reference



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

Fiber optic cable prices typically range from $0. 05 to $6 per foot depending on type, fiber count, and installation requirements.

Material Costs

Retail prices for fiber optic cable materials generally range from $1 to $6 per linear foot, with simple 1-core FTTH drop cables around $0. 13 per foot and high-count backbone cables (e.g., 288 fibers) reaching $6 per foot. Wholesale bulk purchases can be significantly cheaper, from $0.

09 to $1. 52 per foot. Single-mode fiber is usually less expensive per foot than multimode fiber, but requires more costly equipment for termination and testing.

Indoor simplex/duplex cables can cost $0. 05–$0. 30 per meter, while single-mode outdoor cables range $0.

10–$0. 50 per meter. Armored or aerial/self-supporting cables are more expensive, typically $0.

30–$1. 50 per meter, due to additional protective materials.

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Installation and Project Costs

Installation adds significant cost. For example, a 1,000 ft indoor single-mode run with minimal termination may total $2,650–$3,100, including cable, labor, permits, and accessories. A 2,000 ft outdoor run with conduit and multiple terminations can cost $4,940–$6,120, while a 5,000 ft outdoor armored cable project with splicing and professional testing may reach $11,000–$14,500.

Costs vary by terrain, labor rates, regional permits, and project complexity.

Factors Affecting Price

Fiber Count: Higher fiber counts increase cost, but not always linearly; high-count cables often offer a lower price per fiber. Cable Construction: Loose tube, tight-buffered, armored, or non-armored designs affect material and production costs. Jacket Material and Environmental Rating: Outdoor cables with PE or UV-resistant jackets cost more than indoor PVC or LSZH jackets.

Connector Type and Pre-

Termination: Factory-terminated patch cables and assemblies are more expensive than bulk cable. Brand and Quality: Premium fiber brands like Corning or YOFC cost more but offer lower attenuation and longer lifespan, while generic brands are cheaper but may have higher signal loss over time.

Regional and Market Considerations

Prices fluctuate based on raw material costs (glass fiber, copper, petroleum for jackets) and regional labor rates. Urban areas may have higher permit and labor costs, while rural areas may have lower labor but higher delivery costs. In summary, fiber optic cable pricing is highly variable, ranging from a few cents per foot for simple indoor cables to several dollars per foot for high-count, armored, or outdoor installations, with total project costs influenced by installation complexity, labor, and regional factors.

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Fiber optic cable costs vary based on type and length, with prices typically ranging from $1 to $6 per foot, affecting installation budgets significantly.

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