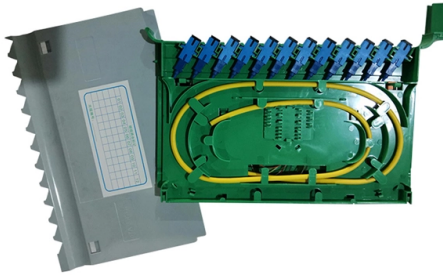


How much is the fiber optic cable worth



Summary of Content

Fiber optic cable costs range from \$0.09 to \$6 per foot for materials, with installation costs varying from \$1 to \$25+ per foot depending on complexity and method.

Material Costs

Fiber optic cable prices depend on type, strand count, and construction. Single-mode fiber typically costs \$0.10 to \$0.50 per foot, while multimode fiber ranges from \$0.30 to \$1.00 per foot. Higher strand counts increase costs proportionally; for example, a 12-strand cable may cost \$0.50 per foot, while a 24-strand cable can reach \$1.00 per foot. Specialty cables, such as armored or plenum-rated cables, can cost \$0.50 to \$6 per foot. Simple 1-core FTTH drop cables may cost around \$0.13 per foot, whereas large 288-strand backbone cables can reach \$6 per foot or more .

Installation Costs

Installation costs vary widely based on method and environment. Indoor commercial installations typically cost \$2 to \$8+ per foot, while underground runs can range from \$5 to \$25+ per foot. Aerial installations are generally less expensive, around \$8 to \$12 per foot. Labor is a major cost driver, including trenching, splicing, termination, and testing. For example, a 1,000-foot indoor single-mode run may total \$2,650-\$3,100, while a 5,000-foot outdoor armored installation with multiple splices can reach \$11,000-\$14,500 .

Project Factors Affecting Cost

- Cable type and strand count: More strands and specialized cables increase cost.
- Installation method: Underground or direct burial is more expensive than aerial or indoor runs.

Article Content

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Fiber-optic cable

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