Price of fiber optic cable with wire



Overview

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

Key Takeaways

Fiber optic cable prices range from $0. 10 to $5 per foot for materials, with fully installed costs between $1 and $16 per foot depending on type, strand count, and installation complexity. Material CostsSingle-mode fiber (OS2, 2–12 strands): $0.

30–$0. 75 per foot for outdoor gel-filled or standard indoor cable, with higher counts or armored versions reaching $1–$4 per foot. Multimode fiber (OM3/OM4, 2–12 strands): $0.

55–$1. 10 per foot for indoor/riser-rated cable; high-count or armored cables can cost $2–$5 per foot. Armored outdoor fiber: $1.

10–$2. 40 per foot for 6–12 strands, suitable for direct burial or harsh environments. Ribbon fiber (144+ strands): $2.

20–$5. 50 per foot, typically used for high-density data center backbones. Bulk purchases often reduce per-foot costs by 20–40%, and pre-terminated cables add 20–30% to material costs but save on labor.

Installation Costs

Indoor plenum or riser-rated runs: $2. 30–$4. 90 per foot, including splicing, termination, and basic testing.

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Outdoor directional boring or trenching: $3–$7 per foot for moderate runs; complex urban installations can reach $8–$16 per foot. Labor: Specialized fiber installation labor typically costs $50–$150 per hour, often representing 60–80% of total project cost.

Real-

World Examples

Residential 500 ft run, OM3 multimode: Cable $0. 60/ft → $300; labor $1. 50–$3.

50/ft → $750–$1,750; total $1,050–$2,050. Commercial 1,000 ft, 12-strand single-mode OS2: Cable $0. 70/ft → $700; installation $2–$3.

50/ft → $2,000–$3,500; total $2,700–$4,200. High-density data center, 1,500 m armored ribbon fiber: Cable $2. 50/m → $3,750; labor, splicing, testing, permits → $8,000+; total ~$11,800.

Factors Affecting Price

Fiber type and strand count: Single-mode is cheaper per foot but requires precise splicing; multimode OM4/OM5 is more expensive but supports higher speeds over shorter distances. Jacket and armor: LSZH, plenum, or armored jackets increase cost but improve safety and durability. Installation environment: Underground, aerial, or indoor plenum runs have different labor and equipment requirements.

Connectors and pre-termination: Factory-terminated cables reduce field labor but increase material cost. Bulk purchasing and supplier: Buying reels of 1,000–10,000 ft directly from manufacturers lowers unit cost compared to retail. In summary, fiber optic cable with wire costs vary widely depending on type, strand count, jacket, and installation method.

For a standard indoor/outdoor project, expect $0. 10–$5 per foot for materials and $1–$16 per foot fully installed, with bulk orders and pre-terminated assemblies offering cost savings.

Article Content

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Buyers typically pay a range for fiber optic cable per foot depending on fiber type, jacket, and shielding, plus installation considerations. This guide outlines typical cost ranges and the main

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Fiber Optic Cable Cost Guide 2026 – LatestCost – Real-Time Price

Main cost drivers include cable grade (indoor vs outdoor, armoured), distance, and labor for trenching, splicing, and termination. This guide presents ranges in USD and practical price

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