

Price list for fiber optic cables with wires



AI Overview

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 Costs

Single-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.

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...

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