

Single-mode optical cable price list

Article Overview

Single-mode fiber optic cables typically cost between \$0.10 and \$7.00 per foot, depending on type, strand count, and installation requirements.

Price Range

- o Basic cable materials: Single-mode fiber itself generally costs \$0.10 to \$0.50 per foot for standard indoor or outdoor cables, with higher strand counts increasing the price proportionally (e.g., a 12-strand cable around \$0.50/ft, a 24-strand cable up to \$1.00/ft) .
- o Bulk purchases: Wholesale or bulk orders can reduce costs to \$0.09 to \$1.52 per foot, depending on fiber count and jacket type .
- o Retail and pre-terminated assemblies: Pre-terminated or patch cables, which include factory-installed connectors, typically range from \$2.00 to \$7.00 per foot .
- o Armored or specialized cables: Armored cables for harsh environments or direct burial applications can cost \$0.50 to \$5.00 per foot .

Factors Affecting Cost

- o Cable Construction: Plenum-rated, riser-rated, or armored cables differ in material and design, affecting price. Indoor riser-rated cables are cheaper than plenum-rated or armored options .
- o Application: Indoor, outdoor, or underground installations influence cost due to additional protective measures, conduit, or trenching .
- o Strand Count: More fiber strands increase the per-foot cost proportionally.
- o Connectorization: Pre-terminated cables with connectors are more expensive than bulk cable spliced on-site.
- o Installation: Labor, permits, and testing can add \$2.00 to \$6.00 per foot for small projects, with larger underground projects potentially exceeding \$10,000-\$20,000 total .

Practical Considerations

- o Long-term value: Single-mode fiber supports long-distance transmission (40-100 km) and has a lifespan of 20-30 years, offering lower maintenance costs compared to copper networks .
- o Project planning: For a 500 ft indoor run, cable alone may cost \$125, with total project costs including labor and basic terminations around \$1,000-\$1,600 .
- o High-capacity or outdoor projects: A 4,500 ft underground single-mode installation with protective ducting and testing can reach \$11,000-\$22,000 . In summary, single-mode fiber optic cable pricing varies widely based on cable type, strand count, installation environment, and whether connectors or armor are included. For budgeting, expect \$0.10-\$7.00 per foot for materials, with total project costs significantly higher when including labor, permits, and testing.

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

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