



Single-mode fiber optic price quote

Article Overview

Single-mode fiber optic cables currently range from approximately \$0.25 to \$7.00 per foot, depending on type, features, and installation complexity.

Price Overview

The cost of single-mode fiber (SMF) varies widely based on cable construction, application, and additional features. Bulk single-mode cables typically cost between \$2.00 and \$7.00 per foot, while simpler indoor runs can be as low as \$0.25 to \$1.50 per foot for the cable alone, with installation adding \$2.00 to \$6.00 per foot depending on complexity and labor requirements. For factory or raw material pricing, single-mode fiber can range from \$0.30 to \$2.80 per meter, with higher-end brands like Corning commanding premium prices for lower attenuation over long distances.

Factors Affecting Cost

o Cable Type and Construction:

- o Plenum-rated cables (low-smoke, zero-halogen) are more expensive due to fire safety compliance.
- o Armored cables provide extra protection against physical damage, increasing cost.
- o Pre-terminated assemblies add convenience but raise the per-foot price.

o Installation Environment:

- o Indoor runs are generally cheaper than outdoor or underground installations.
- o Outdoor installations may require trenching, conduit, protective ducting, and permits, which can significantly increase total project costs.

o Labor and Regional Variations:

- o Labor often drives total project cost more than the cable itself, especially for long runs or complex routing.
- o Urban areas typically have higher labor and permitting costs, while rural areas may have lower labor but higher logistics charges.

o Distance and Terminations:

- o Longer runs and multiple termination points increase labor and material costs.
- o Fusion splicing, OTDR testing, and patch panels add to the overall project budget.

Example Project Costs

- o Short indoor run (500 ft SMF): Cable \$0.25/ft, total materials \$125, labor 6 hours; total project ? \$1,000-\$1,600.
- o Medium outdoor run (2,000 ft SMF with conduit): Cable \$0.70/ft, labor \$1.60/ft, permits \$350; total ?



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\$4,940-\$6,120 .

o Premium outdoor run (5,000 ft armored SMF, multiple splices): Cable \$1.00/ft, labor \$3.00/ft, permits \$900, delivery \$350; total ? \$11,000-\$14,500 .

Summary

For budgeting purposes, expect single-mode fiber optic cable costs to range from \$0.25 to \$7.00 per foot, with total project costs heavily influenced by installation complexity, labor, and additional features. Selecting standard connectors, pre-terminated assemblies, and optimizing routing can help reduce costs, while regional labor and permitting differences may cause +-10-30% variation in total project pricing .

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Prices typically range from about \$0.60 to \$3.50 per foot for fiber optic cable and basic installation, depending on

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