

Price of four-core 10 Gigabit single-mode optical cable

Article Overview

The price of a four-core single-mode optical cable typically ranges from \$0.10 to \$1.50 per foot (\$0.33 to \$4.92 per meter), depending on construction, jacket type, and additional features.

Pricing Overview

A standard 4-core single-mode fiber optic cable is designed for medium-scale networks, offering sufficient capacity for 10 Gigabit transmission over long distances with minimal signal loss . The base cost of the cable itself generally falls between \$0.10 and \$0.50 per foot for standard indoor or duct installations, while outdoor, armored, or UV-resistant versions can increase the price to \$1.00-\$1.50 per foot . Bulk purchases often benefit from volume discounts, reducing the per-foot cost by 20-40% .

Factors Affecting Price

- o Cable Construction: Armored cables for direct burial or harsh environments cost more due to added materials like steel or aluminum interlock armor . Tight-buffered indoor cables are cheaper.
- o Jacket Material: PVC or LSZH jackets are less expensive, while PE or UV-resistant jackets for outdoor use increase cost .
- o Length and Pre-Termination: Longer spools or pre-terminated cables with connectors (SC, LC, FC) carry higher prices due to labor and precision involved .
- o Compliance and Quality: Cables meeting international standards (e.g., ITU-T G.652.D) and using high-quality glass fiber cores are more expensive but offer better performance and longevity .

Typical Price Examples

- o Indoor 4-core single-mode cable: ~\$0.10-\$0.50 per foot
- o Outdoor or armored 4-core single-mode cable: ~\$0.50-\$1.50 per foot
- o Pre-terminated 4-core cable with connectors: Can exceed \$2.00 per foot depending on connector type and length

Additional Considerations

- o Installation Costs: Labor for fiber installation typically ranges from \$1 to \$6 per foot, separate from material costs, and can rise to \$7-\$12 per foot for complex routing .
- o Total Cost of Ownership: Choosing higher-quality cables reduces maintenance, signal degradation, and replacement costs over time . In summary, for a four-core 10 Gigabit single-mode optical cable, expect to pay \$0.10-\$1.50 per foot for the cable itself, with higher-end options for armored, outdoor, or pre-terminated configurations, and additional installation costs depending on project complexity.



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The pricing of single-mode fiber optic cables varies significantly based on construction, application, and specific

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