

How much does multimode 6-core optical fiber cost per meter



Overview

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Key Takeaways

The typical cost of multimode 6-core optical fiber ranges from approximately \$1.20 to \$2.60 per meter for standard indoor runs, with armored or outdoor variants potentially exceeding \$3.00 per meter. Price Range and Factors

For standard indoor multimode fiber (OM3/OM4) with 6 cores, the per-meter cost generally falls between \$1.20 and \$2.60 depending on the manufacturer, fiber quality, and jacket material (LSZH or PVC) . For armored or outdoor-rated cables, which provide additional protection against environmental hazards or physical damage, the cost can increase to \$3.00–\$5.00 per meter . Factors influencing the price include:

- Fiber type: OM3 and OM4 fibers are more expensive than OM1 or OM2 due to higher performance and stricter manufacturing standards .
- Jacket material: LSZH jackets cost more than standard PVC, adding 25–40% to the base price .
- Cable construction: Armored, gel-filled, or direct-burial cables increase material costs.

- Connectorization and pre-termination: Pre-terminated cables or factory-assembled connectors can raise the per-meter cost by 20–30% .

- Installation environment: Outdoor, aerial, or underground installations may require additional protective features, increasing the effective per-meter cost .

Practical Considerations

- Bulk orders: Purchasing directly from manufacturers often reduces costs by 20–30% compared to distributor pricing .

- Project-specific requirements: Short indoor runs with simple routing are cheaper per meter, while long outdoor feeds or high-performance data center applications may push costs toward the higher end of the range .

- Core count: While 6-core cables are relatively low-count, higher core counts (12, 24, 48) proportionally increase the price per meter . In summary, for a multimode 6-core optical fiber, expect \$1.20–\$2.60 per meter for standard indoor use, and \$3.00–\$5.00 per meter for armored or outdoor applications, with the final price influenced by fiber type, jacket, and protective features .

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