

Price list for aluminum optical fiber cables

Article Overview

Aluminum optical fiber cables typically range from \$0.09 to \$6 per foot depending on fiber type, strand count, and construction, with armored or specialized cables costing more.

Price Ranges

- o Single-mode fiber (OS2): \$0.09 to \$1.52 per foot for standard cables; higher-quality glass or pre-terminated assemblies may increase costs .
- o Multimode fiber (OM3/OM4): \$1.50 to \$6.00 per foot, reflecting wider cores and higher manufacturing complexity .
- o Armored or aluminum-sheathed cables: \$0.50 to \$6.50 per foot, depending on protection level, burial suitability, and environmental rating .
- o Bulk wholesale purchases: Prices can be lower, ranging from \$0.09 to \$1.52 per foot for single-mode cables, with volume discounts available for large orders .

Factors Affecting Pricing

- o Fiber Count: Higher strand counts increase cost proportionally. For example, a 12-strand cable may cost around \$0.50 per foot, while a 24-strand cable can reach \$1.00 per foot .
- o Cable Construction: Indoor riser-rated cables are cheaper than plenum-rated or armored cables. Aluminum sheathing adds durability for outdoor or direct burial applications .
- o Material Quality: Premium glass fibers (e.g., Corning) cost more than generic glass or plastic optical fibers, offering lower attenuation and longer lifespan .
- o Pre-Terminated Assemblies: Factory-terminated cables with connectors are 20-30% more expensive but reduce on-site labor costs significantly .
- o Installation Complexity: Outdoor runs, trenching, splicing, and conduit installation increase total project costs. Typical installation rates range from \$0.60 to \$3.00 per foot depending on terrain and labor .

Purchasing Options

Aluminum fiber optic cables are available from suppliers like Alibaba, offering customizable options for strand count, armored or tactical designs, and bulk orders . Direct manufacturer purchases often provide volume discounts and allow specification adjustments to meet project requirements.

Summary

For budgeting purposes, expect aluminum optical fiber cables to cost between \$0.09 and \$6 per foot, with armored or high-strand-count cables at the higher end. Bulk orders and direct manufacturer sourcing can



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reduce per-foot costs, while installation and environmental factors will influence the total project expenditure .

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