

Price of 192-core optical cable

Article Overview

The price of a 192-core fiber-optic cable typically ranges from \$1 to \$6 per foot, depending on type, installation, and specifications.

Pricing Overview

The cost of a 192-core fiber-optic cable varies based on fiber type, installation method, and project scale. For materials only, prices generally range from \$1 to \$6 per linear foot for high-count cables like 192-core, with single-mode fiber usually costing slightly less per foot than multi-mode fiber due to differences in transceiver requirements and performance characteristics . Bulk purchases can reduce per-foot costs by 20-40% compared to retail quantities . Pre-terminated or factory-assembled cables may incur higher costs.

Factors Affecting Price

- o Fiber Type: Single-mode (8-10 um core) supports long-distance transmission and is ideal for campus backbones or metropolitan networks, while multi-mode (50 or 62.5 um core) is optimized for shorter distances and data centers .
- o Installation Method: Underground or duct installations are more expensive than aerial or indoor runs .
- o Cable Construction: Loose tube, all-dielectric, gel-free, or armored designs affect durability and cost. For example, Corning ALTOS 192-strand outdoor single-mode cables feature gel-free loose tube construction and water-blocking, which adds to the price .
- o Project Scope: Large-scale deployments with multiple network drops or long runs increase total cost, with commercial building installations for 100-200 drops ranging from \$15,000 to \$30,000 including materials and labor .

Example Products

- o Corning ALTOS 192-strand OS2 single-mode cable: Designed for outdoor and limited indoor use, with SZ-stranded loose tube construction and FastAccess technology for easier installation .
- o CommScope 192-core fiber cables: Available in various indoor/outdoor, armored, and low-smoke zero-halogen options, suitable for enterprise and campus networks .

Summary

For a 192-core optical cable, expect \$1-\$6 per foot for materials, with total project costs influenced by fiber type, installation complexity, and cable construction. Single-mode cables are preferred for long-distance, high-speed backbones, while multi-mode cables are cost-effective for short-range, high-density data center applications .

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