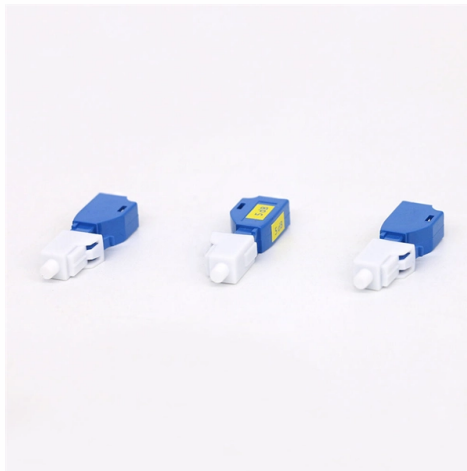


Price of Single-Mode Fiber Optic



Overview

Single-mode fiber optic cables are integral to modern telecommunications. However, their costs can vary based on several factors.

Key Takeaways

Single-mode fiber optic cables typically cost between \$0.10 and \$6 per foot, depending on type, strand count, construction, and application.

Typical Pricing

Bulk wholesale purchases: \$0.10 to \$0.50 per foot for standard single-mode fiber, with higher strand counts increasing the price proportionally (e.g., 12-strand cable around \$0.

50 per foot, 24-strand cable up to \$1 per foot). Retail pricing: \$2 to \$6 per foot for quality single-mode cables, especially pre-terminated or armored options. Pre-terminated assemblies and patch cables: Higher costs due to factory termination and connector type.

Factors Affecting Cost

Cable Construction: Plenum-rated cables (low-smoke, zero-halogen) for indoor air-handling spaces are more expensive. Armored cables provide extra protection for outdoor or direct burial applications, increasing cost. Application Type: Indoor vs. outdoor: Outdoor cables have additional protective layers and weather resistance, raising the price.



Direct burial: Requires more robust construction, further increasing cost. Strand Count: More fiber strands per cable increase the price proportionally. Core Material: Glass fiber cores are standard for long-distance, high-speed transmission and cost more than plastic alternatives.

Length and Bulk: Longer runs reduce per-foot cost due to economies of scale, while short runs or specialized cables may be more expensive per foot.

Example Costs1-core FTT

H drop cable: ~\$0. 13 per foot. 288-count backbone cable: Up to \$6 per foot.

1000-foot bulk single-mode cable: Around \$0. 57 per foot on Amazon.

Summary

For planning purposes, expect \$0. 10-\$0. 50 per foot for standard bulk single-mode fiber, and \$2-\$6 per foot for retail, pre-terminated, or armored cables.

Prices vary based on strand count, construction, application, and additional features, with outdoor and long-distance cables generally costing more.

Article Content

How Much Do Single-Mode Fiber Optic Cables Cost?

Single-mode fiber optic cables are integral to modern telecommunications. However, their costs can vary based on several factors.

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Standard single

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

