

RIVO MULTITRADE OPTICAL SYSTEMS

How much does a meter of 24-core optical fiber cable cost



Overview

How Much Does Fiber Optic Cable Cost?

2025 Factory Price Guide Searching for how much does fiber optic cable costs?

Stop guessing. We break down 2025 prices.

Key Takeaways

The price per meter of a 24-core optical fiber cable typically ranges from \$1.20 to \$3.50, depending on fiber type, construction, and application. Pricing Overview

The cost of a 24-core fiber optic cable varies based on several factors:

- **Fiber Type:** Single-mode fibers (SMF) are designed for long-distance transmission and generally cost more, ranging from \$1.50 to \$3.50 per meter, while multimode fibers (MMF), suitable for shorter distances, are slightly cheaper at \$1.20 to \$3.00 per meter (OWIRE Solutions) .
- **Cable Construction:** Loose-tube cables, often used outdoors, provide moisture and temperature protection and are more expensive. Armored cables include a metal layer for mechanical protection, increasing costs. Tight-buffered cables, commonly used indoors, are simpler and less costly .
- **Sheath and Reinforcement:** Outdoor cables may have polyethylene (PE) or anti-tracking (AT) sheaths, and reinforcement layers like aramid yarn, which affect price .

- Application: Aerial, duct, or direct burial installations influence the choice of cable type and cost. ADSS (All-Dielectric Self-Supporting) cables, for example, are designed for aerial installations without metallic support and are priced accordingly .

Market Considerations

Prices fluctuate due to raw material costs (copper, oil for jacketing), exchange rates, and technological advancements. Bulk purchases can reduce per-meter costs by 20–40% compared to retail quantities . Additionally, trends like 5G rollout, fiber-to-the-home (FTTH) expansion, and cloud computing adoption are driving demand for high-core-count cables, which may influence pricing in the near future .

Summary

For practical procurement purposes, expect a 24-core single-mode cable to cost around \$1.50–\$3.50 per meter and a multimode version around \$1.20–\$3.00 per meter, with variations depending on construction, sheath type, and installation environment. Prioritizing total value, including durability and performance, is recommended over simply choosing the lowest price .

Article Content

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Main cost drivers include cable grade (indoor vs outdoor, armoured), distance, and labor for trenching, splicing, and

CableWholesale 24-Strand Fiber Optic Cable, Indoor/Outdoor OS2

Designed for high-speed data transmission, this cable features singlemode fibers optimized for 1310nm and 1550nm wavelengths,

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