Price of Two-Core Indoor Single-Mode Optical Cable

Overview

Discover the cost of fiber optic cable in this pricing guide. Learn material prices, installation factors, and what impacts total project costs overall.

Key Takeaways

The price of a 2-core indoor single-mode optical cable typically ranges from $0. 50 to $2. 50 per meter, depending on specifications, brand, and length.

Overview2-core indoor single-mode optical cables are designed for high-speed data transmission in indoor environments, such as homes, offices, and data centers. They usually feature OS2 or G. 657 single-mode fibers, tight-buffered construction, and LSZH or plenum-rated jackets for safety and flexibility.

These cables support long-distance communication with minimal signal loss, often suitable for 1G to 10G Ethernet and beyond.

Factors Affecting Price

Fiber Type and Standard: OS2 and G. 657. A1/A2 fibers are common.

G. 657 fibers are bend-insensitive, which can slightly increase cost. Cable Jacket: Plenum-rated (OFNP) or LSZH jackets are more expensive due to fire safety compliance.

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Length: Bulk spools (e.g., 500–1000 ft) reduce per-meter cost, while pre-terminated cables with connectors are more expensive. Brand and Quality: Premium brands like Corning or TrueCABLE may charge higher prices for guaranteed performance and durability. Additional Features: Reinforcements like aramid yarn, FRP layers, or bend-optimized designs can increase price.

Typical Pricing Examples

Bulk indoor 2-core OS2 cable: $0. 50–$1. 50 per meter for standard LSZH or plenum-rated cables.

Pre-terminated 2-core LC/APC cables: $1. 50–$2. 50 per meter, depending on connector type and quality.

Short patch cables (1–5 meters): Often sold at $10–$25 per cable, reflecting labor and connector costs.

Conclusion

For a standard 2-core indoor single-mode optical cable, expect to pay roughly $0. 50–$2. 50 per meter, with higher prices for pre-terminated or premium bend-insensitive cables.

Bulk purchases reduce cost per meter, while pre-terminated cables offer convenience and faster installation. Always check specifications like fiber type, jacket rating, and bend-insensitivity to ensure compatibility with your network requirements.

Article Content

Cost of Fiber Optic Cable: Pricing Guide (2026)

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Single Mode Fiber: Types and Applications

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Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables, as well as the various fiber wavelengths and standard core sizes used

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