Price of 4-core fiber optic cable for smart buildings



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

4-core fiber optic cables for smart buildings typically range from $0. 40 to $1. 80 per meter, depending on type, jacket, and installation environment.

Overview of 4-Core Fiber Optic CablesA 4-core fiber optic cable contains four individual optical fibers, usually configured for duplex communication with redundancy. These cables are suitable for both single-mode (OS2) and multimode (OM3/OM4) applications, supporting high-speed data transmission within smart buildings, campuses, or enterprise LANs.

Typical Price Ranges

Indoor single-mode OS2 cables: Approximately $0. 40 per meter, with a 100-meter reel costing around $60–$90, depending on volume and customization. Outdoor or armored single-mode cables: Prices can reach $1.

80 per meter, designed for harsh environments with enhanced durability and weather resistance. Multimode OM3/OM4 cables: Generally lower cost than single-mode, suitable for shorter runs within buildings, with prices starting around $0. 50–$1.

20 per meter, depending on jacket type and manufacturer. Bulk purchases: Orders exceeding 1,000 meters often qualify for tiered discounts, reducing per-meter costs by 20–40%.

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Factors Affecting Price

Fiber Type: Single-mode fibers are more expensive due to long-distance performance; multimode fibers are cost-effective for shorter distances. Jacket Material: LSZH (Low Smoke Zero Halogen) and armored jackets increase cost compared to standard PVC. Installation Environment: Indoor riser-rated cables are cheaper than plenum-rated or direct burial cables.

Brand and Quality: Reputable manufacturers like OWIRE and Hongan provide tested, certified cables that ensure lower signal loss and higher durability, which may slightly increase upfront cost but reduce maintenance. Example ProductsOWIRE 4-core OS2 single-mode indoor cable: $0. 40–$0.

60 per meter, 100-meter reels $60–$90.

OWIR

E armored outdoor 4-core cable: $1. 50–$1. 80 per meter.

Hongan 4-core multimode cable: Customizable lengths, steel tape armored, suitable for LANs and high-moisture environments, pricing varies by order volume.

ISP

Mart 4-core FTTH single-mode cable: Round OD 5. 8 mm, FRP reinforced, suitable for indoor/outdoor use, premium-grade glass fiber.

Recommendations

For smart building deployments, single-mode OS2 cables are preferred for backbone connections, while multimode OM3/OM4 can be used for shorter intra-building links. Consider bulk purchasing to reduce costs and ensure consistent quality. Verify compliance with ISO/IEC 11801 or TIA/EIA-568 standards to ensure reliability and longevity.

This pricing overview provides a practical guide for budgeting and procurement of 4-core fiber optic cables for smart building projects.

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A 4-core fiber optic cable consists of multiple layers, each serving a specific function in signal transmission and physical protection. Understanding these materials ensures optimal selection

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