ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Single-mode four-core fiber optic cable price quote



Overview

4 Core Single Mode Fiber Optic Cable Price with In conclusion, the 4 core single mode fiber optic cable price reflects a combination of 4 Core Fiber Optic.

Key Takeaways

The price of a 4-core single-mode fiber optic cable typically ranges from $0.10 to $1.50 per foot, depending on construction, jacket type, and additional features.Pricing Overview

For single-mode fiber, the base cable cost generally falls between $0.10 and $0.50 per foot for standard indoor or duct installations, while bulk retail prices can reach $1 to $6 per foot for higher-specification cables or pre-terminated assemblies . A 4-core configuration refers to four individual optical fibers within the cable, providing redundancy and scalability for multiple services . Armored or outdoor-rated cables, designed for direct burial or harsh environments, typically cost more due to added materials like steel or aluminum layers and enhanced UV or moisture resistance .

Factors Affecting Price
• Cable Construction: Indoor riser-rated cables are less expensive than plenum-rated or armored cables. Outdoor cables with loose-tube or armored designs increase durability but raise costs .

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• Material Quality: High-quality glass fiber cores (8–10 microns) ensure long-distance transmission with minimal attenuation, while substandard materials may reduce lifespan and increase maintenance costs .

• Length and Bulk Purchase: Prices are often quoted per meter or kilometer. Bulk spools (e.g., 1 km) are more cost-effective than multiple shorter reels .

• Pre-Termination and Connectors: Cables with factory-installed connectors (LC, SC, FC) carry premium pricing but reduce on-site labor and splice losses .

• Market Dynamics: Global supply chain fluctuations, raw material costs, and regional demand can influence pricing. For example, recent helium shortages increased fiber preform costs, affecting overall cable prices .

Typical Applications

• Indoor/Office Networks: Standard 4-core single-mode cables for controlled environments.

• Outdoor/Long-Haul: OS2 low-water-peak fiber for distances exceeding 100 km.

• Armored/Harsh Environments: Direct burial, rodent-resistant, or aerial deployment with messenger wires or ADSS designs .

Recommended Price Range

Based on current market data, a basic 4-core single-mode fiber optic cable suitable for indoor or duct installations can cost approximately $0.10–$0.50 per foot, while armored or pre-terminated outdoor cables may range from $1.00–$1.50 per foot. For large-scale deployments, bulk purchases and supplier negotiations can reduce unit costs .

Quality and Standards

Ensure the cable meets ITU-T G.652D or G.657.A1/A2 standards for single-mode performance, and verify IEC 60794 and Telcordia GR-20 certifications for mechanical reliability and environmental resilience . Choosing certified cables reduces long-term maintenance costs and ensures consistent network performance. In summary, the total cost depends on cable type, length, installation environment, and additional features, with a typical price range of $0.10–$1.50 per foot for 4-core single-mode fiber optic cables, and bulk or pre-terminated options potentially affecting the final quote.

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How Much Does Fiber Optic Cable Installation Cost? The price of fiber cable depends on the number of strands, jacket

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4-Core Single mode Fiber Optic Cable

Fiber optic 4-core round drop cable consists of four parts, PE plastic cover, multi-strand aramid yarn, PBT loose tube with jelly

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