

Affordable price for 48-core optical fiber cable



AI Overview

The price of a 48-core optical fiber cable typically ranges from \$0.50 to \$3 per foot, depending on fiber type, jacket material, and installation environment.

Cost Overview

The 48-core fiber cable is commonly used in backbone networks, campus environments, and metropolitan area networks due to its balance of capacity and manageability . Pricing varies widely based on several factors:

- Fiber Type:** Single-mode cables, which support longer distances and higher bandwidths, generally cost more than multimode cables . Single-mode 48-core cables are preferred for inter-building or long-haul connections.
- Jacket Material:** Options include LSZH, PVC, or armored variants. Armored or gel-filled cables designed for harsh environments increase the cost due to enhanced durability and protection against moisture or physical damage .
- Installation Environment:** Indoor, outdoor, aerial, or underground installations affect pricing. Outdoor or direct-burial cables are more expensive due to additional protective features .
- Compliance and Quality:** Cables meeting international standards (e.g., ITU-T G.652.D for single-mode fibers) are priced higher because of superior signal integrity and lower attenuation .

Typical Price Range

Materials Only: For bulk purchases, 48-core cables can range from \$0.50 to \$3 per foot depending on construction and fiber type . Retail prices may be higher, especially for pre-terminated or factory-assembled cables.

Per Meter Pricing: Online suppliers list 48-core fiber optic cables at \$1 to \$5 per meter, with variations for aerial, duct, or submarine applications, and for single-mode (SM) versus multimode (MM) options .

Installation Costs: Labor, trenching, splicing, and termination can add \$5,000 to \$20,000 per mile for basic underground projects, and up to \$60,000 to \$80,000 per mile in urban areas with complex permitting .

Total Cost Considerations

When budgeting for a 48-core optical fiber cable project, it's essential to consider all these factors to ensure you're getting the most value for your investment.

Article Content

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Fiber Optic Cables

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48 core fiber optic cable price per meter

Discover 48 core fiber optic cable price per meter for aerial, duct, and submarine use. Explore SM/MM options, PE/LSZH jackets, and CE-certified durability.

Latest OPGW Cable Price List

Higher fiber counts allow for greater data transmission capacity, which can significantly increase the cable's price. For instance, a 24-core OPGW

Cost of Fiber Optic Cable: Pricing Guide (2026)

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

How to Choose the Best 48 Core Fiber Optic Cable for

Learn what to look for in a 48 core fiber optic cable, from types and specs to pricing and top models. Make an informed buying decision today.

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