Coaxial fiber optic cable price

Overview

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

Key Takeaways

Fiber optic cables typically cost $1 to $6 per foot depending on type and fiber count, while coaxial cables generally range from $0. 10 to $1 per foot for standard types.

Fiber Optic Cable Pricing

Fiber optic cable prices vary widely based on fiber count, cable type, installation environment, and purchase volume. Retail prices for fiber optic cables range from $1 to $6 per linear foot, with simple 1-core FTTH drop cables costing around $0. 13 per foot and high-count backbone cables (e.g., 288 strands) reaching $6 per foot.

Wholesale bulk purchases can reduce costs to $0. 09 to $1. 52 per foot.

Key factors affecting fiber optic cable pricing include: Fiber Count and Construction: More cores and armored or loose-tube designs increase cost. Fiber Type: Single-mode fiber is slightly cheaper per foot than multimode fiber but requires more expensive equipment. Jacket Material and Environment: Outdoor-rated cables (PE, UV-resistant) or direct-buried cables cost more than indoor PVC or LSZH cables.

Installation Method: Underground or aerial installations are more expensive than indoor runs. Logistics and Shipping: Bulk or international shipments can add 5–15% to total cost. Commercial installations with 100–200 network drops typically cost $15,000 to $30,000, including materials and labor.

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Fiber optic cables offer long lifespans (20–30 years) and lower maintenance costs compared to copper networks.

Coaxial Cable Pricing

Coaxial cables, commonly used for cable TV, internet, and CCTV, are generally less expensive than fiber optic cables. Standard RG6 or RG59 coaxial cables cost approximately $0. 10 to $1 per foot, depending on shielding, conductor quality, and length.

Bulk purchases or pre-terminated cables may reduce per-foot costs. Installation costs vary based on labor, connectors, and routing complexity, but are typically lower than fiber optic installations due to simpler handling and no need for specialized splicing equipment.

Summary

Fiber Optic Cable: $1–$6 per foot retail, $0. 09–$1. 52 per foot wholesale; higher for multi-core, armored, or outdoor-rated cables.

Coaxial Cable: $0. 10–$1 per foot; cost depends on type, shielding, and length. Installation Costs: Fiber optic installations are more expensive due to specialized labor and equipment, while coaxial installations are generally simpler and cheaper.

When budgeting, consider cable type, fiber count, installation environment, and bulk purchasing to optimize cost-effectiveness.

Article Content

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