How much does indoor tightly wrapped optical cable typically cost



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

Indoor fiber optic cable typically costs between $0. 30 and $2. 60 per meter ($0.

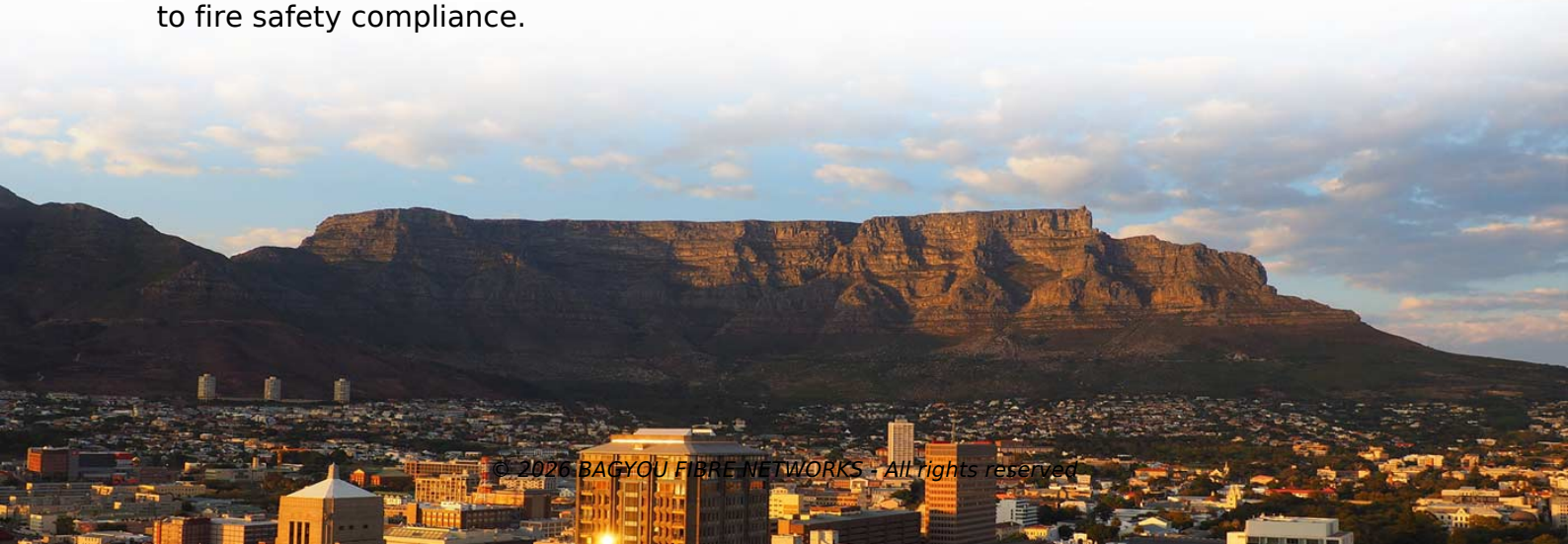
09–$0. 80 per foot), depending on fiber type, jacket material, and termination requirements. Typical Price RangesSingle-mode (OS2) indoor cable: $0.

09 to $1. 52 per foot ($0. 30–$5.

00 per meter) depending on quality, fiber count, and jacket type. Multimode (OM3/OM4) indoor cable: $1. 50 to $6.

00 per foot ($4. 90–$19. 70 per meter), often used in data centers or high-speed LANs.

Tightly wrapped or tight-buffered indoor cable: Falls within the above ranges, with higher-end cables including LSZH (low-smoke zero-halogen) jackets costing more due to fire safety compliance.



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Factors Affecting Cost

Fiber Type: Single-mode is generally cheaper per foot than multimode, but multimode may reduce total system costs due to cheaper transceivers. Jacket Material: PVC jackets are less expensive, while LSZH or flame-retardant jackets increase cost for indoor safety compliance.

Pre-

Termination: Factory-terminated cables cost 20–30% more but reduce on-site labor and splicing costs, which can significantly lower total project expenses. Fiber Count: Higher strand counts (e.g., 24, 48, 96 fibers) increase material costs compared to simplex or duplex cables. Installation Complexity: While indoor runs are simpler than outdoor or armored installations, labor for routing, pulling through conduits, and connectorization can add $1–$3 per foot for professional installation.

Practical Example

For a standard indoor tight-buffered multimode cable with LSZH jacket: Cable only: ~$1. 50–$3. 00 per foot ($4.

90–$9. 80 per meter)Including basic installation: $2. 50–$5.

00 per foot ($8. 20–$16. 40 per meter) depending on routing complexity and connectorization.

Summary

Indoor tightly wrapped optical cables are generally affordable for short runs, with costs rising for higher fiber counts, premium jackets, or pre-terminated assemblies. For budgeting, expect $0. 30–$2.

60 per meter for standard indoor runs, with labor and connectors potentially doubling the total installed cost. Choosing the right fiber type and jacket material is key to balancing performance, safety, and cost.

Article Content

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