Price of 72-core duct optical cable

Overview

72 Cores GYTA53 Fiber Optic Cable Direct BuriedGYTA53 fiber cable consists of 250um fibers held in gel-filled PBT loose tubes, and wrapped around a phospha.

Key Takeaways

The estimated cost for laying a 72-core duct optical cable ranges from approximately $50,000 to $180,000 per kilometer, depending on cable type, installation method, and local conditions.Material Cost

The fiber optic cable itself varies in price based on fiber count, type, and construction. For a 72-core cable:

• Single-mode fiber: $0.10–$0.50 per foot ($0.33–$1.64 per meter)

• Multimode fiber (OM3/OM4): $0.30–$1.00 per foot ($0.98–$3.28 per meter)

• Armored or direct-burial cables: $0.50–$5 per foot ($1.64–$16.40 per meter) A 72-core cable falls in the mid-range of multi-strand cables, so material costs alone can range from $1 to $4 per foot depending on specifications and bulk purchase discounts .
Installation Cost

The installation cost includes trenching, ducting, labor, permits, and splicing:

• Urban ducted runs: $40,000–$180,000 per kilometer, with a common mid-range around $120,000–$150,000 per km for standard single-mode fiber .

• Factors affecting cost: terrain complexity, trench depth, urban vs rural environment, aerial vs underground installation, and local labor rates .

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• Additional costs: permits, restoration of pavements or landscaping, and splicing/termination points can add 10–20% to the total project cost .
Total Estimate

For a 1 km run of 72-core duct optical cable:

• Material: $3,000–$12,000 (depending on fiber type and construction)

• Installation: $50,000–$180,000 (depending on trenching, ducting, and labor)

• Total: $53,000–$192,000 per kilometer Bulk projects or simpler aerial installations can reduce costs, while complex urban or deep-burial projects may push costs toward the higher end .
Key Considerations
• Fiber type: Single-mode is cheaper per foot but may require more expensive transceivers; multimode is costlier but cheaper for short-distance links.

• Installation method: Aerial or existing duct runs are less expensive than new underground trenching.

• Future scalability: Installing extra ducts or spare fibers can increase upfront cost but reduce future expansion expenses.

• Regional labor rates: Costs vary significantly by location and contractor availability. By considering these factors, you can refine the budget for a 72-core optical cable project and plan for both material and installation expenses.

Article Content

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