

Price of 72-core duct optical cable



Overview

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

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 .

- 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.

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