ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Price of fiber optic cable buried in duct



Overview

Direct burial armored fiber optic cable is widely used in outdoor installations where ducts or conduits are unavailable.

Key Takeaways

Fiber optic cable installed in a duct typically costs between $0.60 and $6 per foot, depending on cable type, installation complexity, and duct conditions.Cost Breakdown



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Cable Material: Fiber optic cables vary in price based on type and strand count. Single-mode fiber is generally more expensive than multimode, with retail prices ranging from $1 to $6 per foot for standard outdoor-rated cables, while wholesale bulk purchases can be as low as $0.09 per foot for simple 1-core FTTH drops . Armored or high-durability cables suitable for duct installations may cost $0.50 to $5 per foot . Installation Costs: Installing fiber in a pre-existing duct is less expensive than direct-burial trenching but still involves labor for pulling, splicing, and testing. Typical per-foot installation costs for duct fiber range from $0.60 to $3.50 per foot, depending on route complexity, terrain, and labor rates . For longer runs, total project costs can range from $1,000 to $30,000+ for several hundred to several thousand feet . Duct Considerations: The type of duct affects both cable selection and installation cost. Common duct materials include PVC, HDPE, steel, and fiberglass-reinforced plastic (FRP). PVC and HDPE are cost-effective and flexible, while steel or FRP ducts provide extra protection but may increase installation complexity and labor . Additional Factors: Costs can increase if splicing, testing, or certification is required, or if the route crosses private property requiring permits. Using existing ducts reduces excavation costs, but bends, obstructions, or long distances may require specialized equipment and additional labor .

Summary

For a standard duct installation with mid-range specifications:

• Cable + basic installation: $0.60–$6 per foot

• Longer or complex runs: $1,000–$30,000+ total for several hundred to several thousand feet

• Cost drivers: Fiber type, duct material, route complexity, labor, splicing, and testing Planning carefully, using existing ducts, and obtaining multiple quotes can help optimize costs and avoid unexpected expenses .

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Is there a special fiber optic cable that need to be used when buried in the ground? Do a search for ''burial grade fiber

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Micro Blown Fibre We supply micro duct cables for 12/10mm and 14/10mm duct application. Cables are available from 12F up to

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Direct Buried Fiber Optic Cable Direct buried fiber optic cable is a kind of optical cable which is armored with steel tape or steel wire

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