

Fiber Optic Cable Winding Tube Fixing Quotation

Article Overview

A typical quotation for fiber optic cable winding tube fixing includes costs for cable materials, winding machinery, labor for installation and splicing, and protective tube components.

Material Costs

- o Fiber Optic Cable: Prices vary by type (single-mode or multi-mode), fiber count, and length. For example, cables can be supplied in lengths from 100m to 4km, with diameters ranging from 2mm to 28mm, and in various cross-sections such as flat or figure-of-eight .
- o Protection Tubes and Sleeves: Fiber protection sleeves are used to cover splicing points and ensure durability. These are essential for single-core fiber splicing and must be installed before fiber end-face preparation .

Labor and Installation

- o Splicing and Fixing: Labor includes fiber stripping, cutting, fusion splicing, and winding into tubes or drums. Fusion splicing requires precise alignment and heating of the fiber protection sleeve, with acceptable loss typically below 0.03dB .
- o Winding Operations: Skilled operators use winding machines or respoolers to coil fiber neatly onto drums or into protective tubes. Machines may include real-time winding controllers, 3D coil scanners, and software for precise tension and pattern control .

Equipment Costs

- o Winding Machines: Options range from standard respoolers and winders to high-precision systems with MCU controllers and SUMMI software for automated winding, rewinding, and monitoring .
- o Testing Equipment: OTDRs, power meters, and fusion splicers are required to ensure quality and verify optical performance after installation .

Additional Considerations

- o Logistics: Delivery within a local radius (e.g., 250 miles) may be included, with longer distances requiring tailored transport solutions .
- o Permitting and Access: Costs may increase if installation requires road or sidewalk closures, or if the site is difficult to access .
- o Quotation Type: It is recommended to request a fixed or not-to-exceed estimate to avoid unexpected charges, especially for complex installations .

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Example Pricing Structure

Item	Typical Cost Range	Fiber optic cable (per km)	\$500-\$2,000 depending on fiber count and type	Protection sleeves (per unit)	\$2-\$10	Labor for splicing and winding (per hour)	\$50-\$150	Winding machine rental or purchase	\$5,000-\$50,000 depending on precision and automation	Testing and verification	\$100-\$500 per installation
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This quotation framework provides a comprehensive estimate for fiber optic cable winding tube fixing, covering materials, labor, equipment, and additional operational considerations. For a precise quotation, suppliers can tailor costs based on fiber type, project length, and local service conditions .

Wrapping Tube Cable (WTC), with SpiderWeb Ribbon (SWR), is an ultra-high density outside plant cable designed specifically for

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Material, labor, and permitting dominate the price for fiber repairs. The following table illustrates a typical breakdown,

Furcation tube is very important when cables need to be spliced, or field terminated. Fiber optic furcation tubing comes in various

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Fiber optic cables are essential components in today's broadband, FTTx, and data center

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