

Price list for 35kV optical fiber cable



AI Overview

The price of a 35 kV optical fiber communication cable (OPGW) typically ranges from \$1 to \$6 per foot for the cable itself, with total installed costs reaching \$10–\$15 per foot depending on installation complexity and regional factors.

Cable Overview A 35 kV optical fiber communication cable is commonly implemented as Optical Fiber Composite Overhead Ground Wire (OPGW), used in high-voltage transmission systems for both communication and lightning protection. These cables feature a stainless steel tube protecting the optical fibers, often surrounded by aluminum-clad steel wires for mechanical strength and electrical conduction. The design ensures durability, tensile strength, and resistance to environmental stress, theft, and twisting.

Factors Affecting Price

- Fiber Type and Count:** Single-mode fibers are standard for long-distance transmission, costing \$0.10–\$0.50 per foot per strand, while multimode fibers are slightly higher at \$0.30–\$1.00 per foot. Higher strand counts increase the price proportionally.
- Cable Construction:** Armored or outdoor-rated cables suitable for high-voltage environments cost more than indoor or unarmored cables, ranging from \$0.50 to \$5 per foot.
- Installation Complexity:** Labor for trenching, splicing, and termination can significantly increase total costs. Typical labor rates range from \$0.60 to \$3.00 per foot depending on terrain and precision required.
- Regional Variations:** Urban areas may incur higher permit and labor costs, while rural areas may have higher transportation costs, causing $\pm 10\text{--}20\%$ variation in total project costs.

Estimated Costs

- Material Only:** \$1–\$6 per foot for a 35 kV OPGW cable, depending on fiber count, armoring, and manufacturer.
- Installed Cost:** Including labor, permits, and delivery, total costs can reach \$10–\$15 per foot for a standard 5,000 ft outdoor run with armored cable and multiple splices.
- Bulk Purchases:** Buying in bulk can reduce per-foot costs by 20–40% compared to retail quantities.

Summary The price of a 35 kV optical fiber communication cable depends on fiber t...

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Buyers typically pay for fiber optic cable by length, fiber type, and installation complexity. Main cost drivers include cable grade (indoor vs outdoor, armoured), distance, and labor for

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Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://adikor.eu>

Email: info@adikor.eu

Phone: +33 6 48 37 92 15

Address: 12 Rue de la Paix, 75002 Paris, France

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