

Price quote for low-voltage fiber optic cable



Overview

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Key Takeaways

Low-voltage fiber optic cables typically range from \$0.05 to \$6 per foot depending on fiber type, strand count, and construction, with pre-terminated assemblies costing more. Typical Pricing

- Single-mode fiber (OS2): \$0.10 to \$0.50 per foot for standard indoor cables; outdoor or armored versions may cost \$0.30 to \$2.80 per meter depending on strand count and protection level .
- Multimode fiber (OM3/OM4): \$0.30 to \$1.50 per foot for standard indoor runs; high-performance or armored cables can reach \$6 per foot .
- Pre-terminated or patch cables: Factory-terminated assemblies are more expensive due to labor and connector type, often adding \$0.50 to \$2 per foot .
- Armored cables: Designed for harsh environments or direct burial, typically \$0.50 to \$5 per foot, depending on protection and fiber count .

Factors Affecting Cost

- Fiber Count: Higher strand counts increase cost proportionally. For example, a 12-strand cable may cost \$0.50 per foot, while a 24-strand cable can reach \$1 per foot .

- **Cable Construction:** Indoor riser-rated cables are cheaper than plenum-rated or outdoor UV-resistant cables. Armored or direct-burial cables add 20-50% to the base cost .

- **Installation Method:** Labor for indoor runs is typically \$1-\$6 per foot, while complex installations, aerial runs, or underground trenching can increase costs to \$7-\$12 per foot .

- **Volume and Lead Time:** Bulk purchases often reduce per-foot costs, and suppliers like Discount-Low-Voltage.com offer wholesale pricing and quantity discounts .

Example Estimates

- **Basic indoor run:** 1,000 ft single-mode cable, minimal termination: Cable \$0.40/ft, Labor \$1/ft, Accessories \$100-\$150. Total ≈ \$2,650-\$3,100 .

- **Mid-range outdoor run:** 2,000 ft with conduit and 4 terminations: Cable \$0.70/ft, Labor \$1.60/ft, Accessories \$250-\$350. Total ≈ \$4,940-\$6,120 .

- **Premium project:** 5,000 ft armored outdoor cable with multiple splices and professional testing: Cable \$1/ft, Labor \$3/ft, Accessories and permits \$1,600+. Total ≈ \$11,000-\$14,500 .

Recommendations

- For budget-conscious projects, consider standard indoor single-mode or multimode cables with minimal terminations.

- For harsh environments or outdoor runs, armored or UV-resistant cables are recommended despite higher costs.

- Pre-terminated assemblies save installation time but increase material costs.

- Check suppliers like Discount-Low-Voltage.com for bulk pricing, pre-terminated options, and fast shipping . By considering fiber type, strand count, cable construction, and installation complexity, you can estimate a realistic budget for low-voltage fiber optic cabling projects.

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