

Detailed Price List for Wires and Optical Cables



Overview

The document is a price list for various types of cables and electrical products effective from January 1, 2025.

Key Takeaways

Fiber optic cables range from \$0.09 to \$6 per foot depending on type and installation, while general copper and multi-conductor wires typically cost \$0.15 to \$4 per foot. Fiber Optic Cable Pricing

Material Costs:

- Single-mode (OS2): \$0.09 – \$1.52 per foot, suitable for long-haul and campus backbones .
 - Multimode (OM3/OM4): \$1.50 – \$6.00 per foot, ideal for data centers and high-speed LANs .
 - Armored/Outdoor Cables: \$0.35 – \$2.00 per foot, designed for direct burial or harsh environments .
 - Pre-terminated cables: Typically 20–30% higher than raw cable due to factory terminations, but reduce on-site labor costs significantly .
- Installation Costs:
- Labor for trenching, splicing, and termination ranges from \$0.60 to \$3.00 per foot .

- Permits, inspection, and delivery can add \$100–\$1,000 depending on project scope and location .
- Total project examples: 1,000 ft indoor run ≈ \$2,650–\$3,100; 2,000 ft outdoor run ≈ \$4,940–\$6,120; 5,000 ft armored outdoor run ≈ \$11,000–\$14,500 . Retail Options:
- Consumer-grade optical audio cables (Toslink, HDMI fiber) range from \$7 to \$300 depending on length and brand .
- Examples: 6 ft Toslink cable ≈ \$7–\$12, 25 ft Rocketfish Toslink ≈ \$42–\$50, 50 ft in-wall rated HDMI fiber ≈ \$104–\$125 .

General Wire Pricing

Copper and Multi-Conductor Wires:

- Standard 16–18 AWG copper conductors: \$0.15 – \$0.89 per foot .
- Shielded or tray cables: \$0.54 – \$4.14 per foot depending on conductor count, insulation type, and shielding .
- Bulk orders often include discounts: 5–10% off for orders over \$5,000–\$10,000 .

Factors Affecting Prices:

- Material quality: Higher-grade copper or glass fiber increases cost.
- Cable type and rating: Plenum, LSZH, or armored cables are more expensive.
- Length and strand count: More strands or longer runs increase per-foot cost.
- Installation complexity: Underground or aerial installations add labor and permit costs.
- Regional differences: Urban areas may have higher labor and permit fees than rural areas .

Summary

- Fiber optic cables: \$0.09–\$6 per foot (materials), plus \$0.60–\$3 per foot for labor.
- Copper/multi-conductor wires: \$0.15–\$4 per foot depending on type and shielding.
- Consumer optical cables: \$7–\$300 depending on length, type, and brand. For large-scale projects, buying in bulk directly from manufacturers or authorized distributors can reduce costs by 20–40% and ensure higher quality materials .

Article Content

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The core of an optical fiber cable is made of glass or plastic, which facilitates light movement with minimal signal loss. For

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The main price drivers include cable grade, jacket material, pull tension, connectorization, and any required conduit or

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

