

RIVO MULTITRADE OPTICAL SYSTEMS

Price of high and low wires for distribution boxes



Overview

Find electrical wire and cable at Lowes . Shop ROMEX wire, THHN wire, MC cable, thermostat wire, speaker wire and more.

Key Takeaways

Electrical wire prices for distribution boxes vary by type, gauge, and length, typically ranging from \$0.50 to \$3 per foot for standard residential wiring. Wire Types and Pricing

- Copper Wire: Most common for residential and commercial distribution boxes due to high conductivity. Prices generally range from \$0.50 to \$3 per foot, depending on gauge (e.g., 12 AWG, 10 AWG, 6 AWG) and insulation type .
- Aluminum Wire: Less expensive than copper, often used for larger feeders or service entrance wiring. Prices are typically 20–40% lower than copper for the same gauge .
- Specialty Wires: Includes THHN, XHHW, or armored cable for outdoor or industrial applications. These can cost \$1.50 to \$5 per foot depending on insulation, voltage rating, and environmental protection .

Purchasing Options

- By the Foot: Ideal for small projects or precise lengths. Many distributors, such as Wire & Cable Your Way, allow custom cuts .



- **Bulk Rolls:** More cost-effective for larger installations. Standard rolls range from 250 to 1,000 feet, with per-foot pricing often lower than single-foot purchases .

- **Retail Stores:** Home improvement stores like Home Depot carry pre-cut wires and standard rolls, with prices similar to online distributors .

Factors Affecting Cost

- **Gauge and Amperage:** Higher amperage circuits require thicker wire, increasing cost.

- **Length of Run:** Longer runs require more wire, directly affecting total price.

- **Environmental Rating:** Outdoor or wet-location rated wires cost more due to additional insulation.

- **Phase and Voltage:** Three-phase or higher-voltage systems may require specialized wire, increasing price.

Practical Example

For a typical residential 100–125A indoor distribution box:

- 12 AWG copper wire for branch circuits: ~\$0.50–\$1 per foot

- 6 AWG copper wire for main feeders: ~\$2–\$3 per foot

- Aluminum alternatives may reduce costs by 20–40% for feeder wires . By considering wire type, gauge, and installation requirements, you can budget accurately for wiring a distribution box, whether for a small home project or a larger commercial installation.

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Household Electrical Wiring: Wire & Cable Types & Uses

Wire and Cable Basics First, understand the difference between wire and cable: A wire is a single conductor that

Electrical Wires, Cables & Cordsets

Wire, cable, and cordsets are products that carry electrical current from a power source to devices and equipment.

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