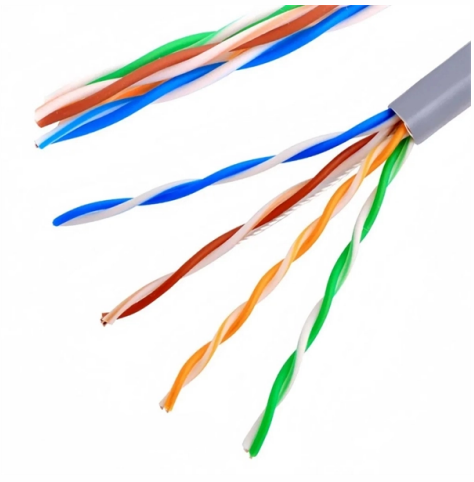
Price of Standard Ground Wire for Distribution Boxes



Overview

Amazon.com: Ground WireBrowse a variety of gauges, lengths, and jacket types to meet your specific requirements. Amazon.com: Grounding WireBrowse a selecti.

Key Takeaways

The standard price of copper ground wire for distribution boxes typically ranges from $0.50 to $2.50 per foot, depending on gauge, material, and insulation type.Pricing Overview
• Copper Ground Wire: Solid or stranded copper is the most common material due to its excellent conductivity and corrosion resistance. Prices generally range from $0.50 to $2.50 per foot, with 10 AWG solid copper wire often costing around $1.00–$1.50 per foot for standard bare copper options .

• Insulated vs Bare Wire: Insulated wires (THHN/THWN) are slightly more expensive than bare copper due to added protection against moisture and environmental stressors .

• Length and Packaging: Bulk purchases, such as 100–800 ft spools, reduce the per-foot cost. For example, an 800 ft 10-gauge solid copper wire can be priced around $150–$200, which equates to roughly $0.19–$0.25 per foot .

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• Alternative Materials: Aluminum-core copper-coated wires or tinned copper wires are used in specific environments. These may cost slightly more due to specialized coatings or hybrid construction .
Factors Affecting Price
• Wire Gauge: Thicker wires (lower AWG numbers) cost more due to higher copper content.

• Material Quality: Pure copper is more expensive than aluminum or steel alternatives. Tinned or coated copper adds corrosion resistance but increases cost.

• Environmental Requirements: Outdoor, underground, or corrosive environments require insulated or coated wires, which are priced higher.

• Supplier and Brand: Prices vary between suppliers like Home Depot, Amazon, Southwire, and McMaster-Carr, with bulk orders often offering discounts .
Practical Advice
• Always select a wire gauge and material that complies with NEC and local electrical codes for distribution boxes.

• Consider bulk purchases for large projects to reduce per-foot cost.

• For outdoor or corrosive environments, insulated or tinned copper wires are recommended despite slightly higher prices .

• Consult a licensed electrician to ensure proper sizing and installation, as inadequate grounding can lead to equipment damage, fire hazards, or electric shock . By considering these factors, you can estimate the standard price range for ground wires suitable for distribution boxes and make informed purchasing decisions.

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