Installation price of distribution boxes and low-voltage boxes



Overview

Junction Box Cost Guide: Prices & Installation 2026A junction box can cost anywhere from around $10 for a simple indoor plastic box to several hundred doll.

Key Takeaways

The total installation cost for distribution and low-voltage boxes typically ranges from $50 to $450 per unit, depending on type, material, and installation complexity.

Distribution Boxes

Cost Range: Standard residential distribution boxes generally cost between $50 and $200, while commercial or industrial units with higher capacity and advanced features can reach $300–$450. Outdoor-rated or weatherproof boxes, such as pole-mounted or ABC distribution boxes, often carry premium pricing due to durability and safety requirements. Installation Costs: Labor for installing distribution boxes varies based on complexity and location.

Typical installation ranges from $100 to $300 per box, influenced by factors such as mounting type, wiring complexity, and local electrician rates. Factors Affecting Price: Material: Plastic boxes are cheaper but less durable; metal boxes offer higher strength and fire resistance. Voltage and Amperage: Higher voltage or multi-phase systems cost more.

Features: Smart monitoring, circuit breakers, and lockable covers increase cost. Environment: Outdoor or wet-location installations require weatherproofing, raising both material and labor costs.

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Low-

Voltage Boxes

Cost Range: Low-voltage boxes, used for CCTV, LED, or access control systems, typically cost $10–$50 per unit for standard models, with premium multi-port or fused units reaching $100 or more. Installation Costs: Labor for low-voltage boxes is generally lower than high-voltage distribution boxes, often $50–$150 per unit, depending on wiring complexity and mounting location. Factors Affecting Price: Number of Ports or Circuits: More connections increase material and labor costs.

Outdoor vs Indoor: Weatherproof low-voltage boxes cost more due to protective enclosures. Special Features: Fused outputs, surge protection, or integrated monitoring can increase the price.

Summary

Box TypeMaterialTypical Box CostInstallation CostNotesResidential DistributionPlastic/Metal$50–$200$100–$300Single-phase or three-phase, indoor/outdoorCommercial/Industrial DistributionMetal, Weatherproof$300–$450$150–$300+High capacity, smart features, outdoor-ratedLow-Voltage BoxPlastic/Metal$10–$100$50–$150CCTV, LED, access control, multi-port optionsInvesting in quality boxes and professional installation ensures safety, durability, and compliance with electrical codes, while weatherproof and feature-rich units may have higher upfront costs but provide long-term reliability and reduced maintenance.

Article Content

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Low-voltage distribution networks

In cities and large towns, standardized LV distribution cables form a network through link boxes. Some links are removed, so that each (fused) distributor leaving a substation forms a

Design requirements and standards for low voltage distribution boxes

You must make safety your top priority when working with low voltage distribution boxes. Design requirements help you follow important standards like NEC and IEC, which protect you from

How to choose the right low voltage distribution box

Choose the right low voltage distribution box by matching capacity, safety, and environment to your needs for reliable and efficient electrical protection.

Electrical boxes

Electrical boxes ABB provides the highest-quality, most versatile, innovative and comprehensive line of metallic, non-metallic, indoor, outdoor, weatherproof, and floor boxes from the Steel City ®, Red Dot

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