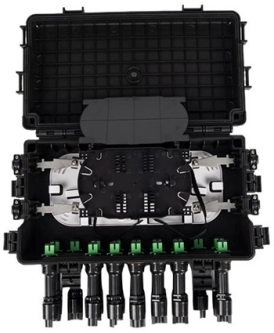
Junction boxes are the most expensive



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

Industrial-grade, weatherproof, and NEMA 4X/6P rated junction boxes are the most expensive, with prices reaching several hundred dollars per unit.

High-

End Junction Boxes

The most expensive junction boxes are typically industrial or outdoor-rated enclosures designed to withstand harsh environments. These include metal or die-cast aluminum boxes, fiberglass-reinforced polycarbonate, and high-impact ABS plastic with advanced NEMA or IP ratings such as NEMA 4X, 6P, IP67, or IP68. These boxes are engineered to resist dust, water, corrosion, and extreme temperatures, making them suitable for industrial, marine, or agricultural applications.

Price Ranges

Standard indoor plastic boxes: $10–$60. Indoor metal boxes: $50–$220. Outdoor/weatherproof boxes: $70–$450, with some large industrial models exceeding $500–$1,000 depending on size, material, and features.

Specialized industrial boxes like the BUD Industries NBF-32006 or VEVOR NEMA 4X steel enclosures can cost several hundred dollars due to stainless steel hardware, thick gaskets, and high ingress protection. Large steel or fiberglass boxes (e.g., 16" x 12" x 8") with lockable covers and DIN rail mounting can also reach $500+ per unit.

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Factors Driving Cost

Material: Heavy-duty metals, die-cast aluminum, fiberglass, or polycarbonate are more expensive than standard PVC or ABS. Size and Capacity: Larger boxes for multiple circuits or devices require more material and structural reinforcement. NEMA/IP Ratings: Higher ratings for water, dust, and corrosion resistance increase manufacturing complexity and cost.

Special Features: Hinged covers, clear inspection windows, stainless steel latches, internal mounting panels, and pre-installed cable glands add to the price. Installation Complexity: Outdoor or hard-to-access locations can increase total project cost, sometimes exceeding the box price itself. Examples of Premium ModelsBUD Industries NBF-32006: High-impact ABS or fiberglass, NEMA 4X/6P, IP67, stainless steel hardware, $300+.

VEVOR NEM

A 4X Steel Enclosure: 24" x 24" x 8", IP66 waterproof, $500+. Wiegmann SC121206NK: 12" x 12" x 6", steel, NEMA 1, lockable, $200–$400.

QILIPS

U IP67 Outdoor Plastic Box: 16. 1" x 12. 2" x 7.

1", waterproof, dustproof, $150–$300.

Conclusion

The most expensive junction boxes are industrial-grade, weatherproof, and high-capacity enclosures made from metal, fiberglass, or reinforced plastics with high NEMA/IP ratings. Prices can range from $300 to over $1,000, depending on size, material, and specialized features, far exceeding standard residential boxes. These boxes are essential for harsh environments, ensuring safety, durability, and compliance with electrical codes.

Article Content

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The size of the box will influence its cost, with larger boxes generally being more expensive. Boxes with added features like knockouts, cable clamps, or mounting brackets may also

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Learn about the many common types of wall and ceiling electrical boxes for switches, outlets, light fixtures, ceiling fans, and junction boxes.

Electrical junction box price

While plastic boxes offer the lowest junction box price, metal or weatherproof models may save money long-term by reducing maintenance, fire risk, and replacement costs in demanding applications.

Junction Box Size Calculator | NEC Box Fill Calculator

Calculation Information Junction box sizing is based on the National Electrical Code (NEC) requirements. The calculator determines the minimum box volume needed based on the number and

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Learn about different junction box types, their materials, and applications across residential, commercial, and industrial sectors.

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