

Junction Boxes Horizontal and Cap Types

Article Overview

Horizontal and cap junction boxes are specialized enclosures designed to protect and organize electrical connections, with horizontal boxes typically mounted along walls or surfaces and cap boxes providing sealed access for cable terminations.

Horizontal Junction Boxes

Horizontal junction boxes are designed for installations where wiring runs parallel to a surface, such as walls, ceilings, or industrial equipment panels. They are often rectangular or elongated to accommodate multiple cable entries and allow easy branching of circuits. These boxes are commonly used in industrial and commercial settings where space constraints or surface-mounted wiring require a low-profile, horizontal orientation. They provide:

- Protection for wire splices and connections against accidental contact and environmental hazards.
- Ease of access for maintenance and inspection, often featuring removable covers.
- Compatibility with both metal and plastic materials, depending on the environment and electrical code requirements . Horizontal boxes are ideal for applications where wiring needs to run along a plane without penetrating walls or ceilings, and they can be mounted on surfaces or integrated into equipment enclosures.

Cap Junction Boxes

Cap junction boxes are specialized enclosures that feature a sealed or capped design, often used for high-voltage or outdoor applications. The "cap" refers to a protective...

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Explore NEC-based standards, box dimensions, material guidelines, and installation precision in this complete

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Junction box

A small metal, plastic or fiberglass junction box may form part of an electrical conduit or thermoplastic-sheathed cable (TPS) wiring

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Junction Box 101: Get to Know Junction Box Basics

Various aspects of junction boxes, including their types, materials, applications, installation procedures, and safety considerations.

Contact Us

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