

What is the meaning of the clamp that comes with the junction box



Article Overview

The clamp that comes with a junction box is commonly called a cable connector, box connector, or strain relief clamp.

Overview

A junction box clamp is a hardware component designed to secure electrical cables as they enter a junction box, providing strain relief and protecting the internal wire connections from mechanical stress . These clamps prevent the cable from shifting, being pulled out, or rubbing against sharp edges of the box, which could otherwise cause insulation damage, short circuits, or overheating .

Common Terminology

- **Cable Connector:** The professional term used in the National Electrical Code (NEC) for a clamp that secures a cable to a junction box .
- **Box Connector:** Another term used interchangeably with cable connector, emphasizing its attachment to the box .
- **Strain Relief Clamp:** Highlights the function of relieving tension on the wire connections inside the box .
- **Romex Connector:** A specific type of cable connector used for non-metallic sheathed (NM) cables, often referred to in residential wiring .

Types and Materials...

Article Content

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Plastic junction boxes usually come with built-in clamps. The primary function of these clamps is to prevent the cables from shifting or

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A junction box clamp, often called a cable connector or strain relief fitting, is a specialized hardware component

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The junction box lid or cover closes the wires with safety screws or bolts. Metal junction boxes have an earthing grounding screw for

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Junction box

Junction boxes form an integral part of a circuit protection system where circuit integrity has to be provided, as for emergency lighting

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Understanding Junction Boxes: Essential Components for Safe and ...

I. Introduction A. Definition of a junction box A junction box is an enclosure designed to house electrical connections,

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Electrical Junction Boxes

Wires entering a steel junction box enter through a hole or “knockout”. Before these wires can be routed through the hole, a wire

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://khanimamboguesthouse.co.za>

Email: sales@khanimamboguesthouse.co.za

Phone: +27 64 852 1973

Address: Unit 7, Greenway Business Park, 8 Innovation Drive, Centurion, 0157, South Africa

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