

Junction Box and Clamp Dimensions



Article Overview

The clamp size included with a junction box depends on the cable cross-section and the box model, typically ranging from M16 to M63 metric knockouts for standard copper or aluminum conductors.

Clamp Function and Purpose

A junction box clamp, also called a cable connector or strain relief fitting, secures the cable where it enters the box, preventing it from shifting or being pulled out. It protects the internal conductors from tension, abrasion, and loosening, ensuring a safe and reliable electrical connection .

Standard Clamp Sizes

Clamps are selected based on the outer diameter of the cable and the junction box knockout size. Common metric sizes for Hensel junction boxes include:

- M16 / M20: For small cables, typically 0.14–4 mm² cross-section .
- M20 / M25 / M32: For medium cables, 1.5–16 mm² cross-section .
- M25 / M32 / M40: For larger cables, 10–35 mm² cross-section .
- M25 / M40 / M50 / M63: For very large cables, 16–70 mm² cross-section . The exact clamp size depends on the number of conductors and their cross-section. For example, a DK 0402 G box accommodates 0.75–4 mm² conductors with M20 knockouts, while a DK 1616 G box supports 10–25 mm² conductors with M25/M32/M40 knockouts

Article Content

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Junction Box Sizing Calculator | Calculate Required Box Dimensions

Calculate the minimum junction box size needed based on the number and types of conductors, clamps, and devices according to

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Terminal and Junction Boxes Selection Guide: Types, Features ...

Description Terminal and junction boxes are used to house electrical components and facilitate wiring. Selection Considerations

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Clipsal electrical junction boxes connect and protect your wiring ...

Larger junction boxes, also known as “ adaptable boxes ”, are ideal for wiring, mounting, and protecting electrical components.

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Junction Box Sizing Calculator

Calculate junction box size per NEC Article 314.16. Enter wire count, AWG size, devices, clamps and grounding

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Junction boxes | Legrand E-catalog International

Connection boxes and terminal | Junction boxes | ! Square Plexo box with 7 direct entry membrane glands and smooth faces - IP55

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A Full Guide to the NEC Code for Junction Boxes | Polycase

When you're planning to house electrical wiring in a junction box or waterproof enclosure, you will need to adhere to

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Junction Box Sizes and Specifications: A Complete Guide

A comprehensive and detailed guide covering all key aspects of junction boxes, including standard sizes, common specifications,

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Junction Boxes | Wiring Accessories | Screwfix

Junction boxes are essential for both indoor and outdoor electrical installations, providing a secure enclosure for wire connections.

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NEC Junction Box Requirements: Article 314.16, 314.23, 314.29 ...

For most junction box installations, the most important rules are: NEC 314.16: the box must have enough internal

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2026 NEC Electrical Junction Box Sizes Guide: Calculator + Code ...

2026 NEC junction box sizing guide with free calculator. Learn box fill rules, conductor volume allowances, and code

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SELECTION GUIDE FOR CABLE JUNCTION BOXES

+ All terminals have at least two clamping units per pole, enabling the connection of different conductor cross-sections and

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Junction Box Sizing Calculator

Use this junction box sizing calculator to determine the recommended dimensions of a junction box depending on the number of

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Type 4, 12 Mild Steel Junction Box

Hammond's HJH series Type 4 and 12 mild steel junction boxes are available in a wide range of sizes and are designed for use as

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Junction Boxes and knockout Punches/Plugs

Junction Boxes and knockout Punches/Plugs UL LISTED, CSA CERTIFIED AS NOTED
Junction boxes - fully assembled with cover

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Rittal JB and WM Specification Guide

Because Rittal produces the most flexible standard lineup of modular freestanding, wallmount and junction box enclosures and

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Junction Box Size Calculator — NEC 314.16 Box Fill & Volume Guide

Calculate exact junction box volume per NEC 314.16. Enter conductors, devices, clamps & grounds to find the correct

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Junction Box Size: Everything You Need to Know

Having a correct junction box size is not just about fitting wires into the junction box. But as long as you can

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Junction Box Guide to the 17th

The Electrical Safety Council Technical Manual states that “a junction box with screw terminals is an example of where connections

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Junction Box Sizing Calculator

Professional junction box capacity calculator interface with inputs for wire size, device yokes, clamps, and conduit

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Ultimate Guide to Electrical Junction Box Dimensions and Compliance

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

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Mounting and installation information for junction boxes

Introduction Junction boxes are used to connect cables and can be mounted in all kinds of areas. With regard to the ambient

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Electrical Boxes Volume and Fill Calculations

In Article " Electrical Boxes – Part Two ", I explained the following items: Device boxes, Pull and junction boxes, Sizing of Junction

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Major types of electrical boxes Technical specifications

Technical specifications There are 10 major types of electrical boxes used in Canada. All these types of boxes serve specific

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Junction Box and Wallmount Enclosure

WHY CUSTOMERS CHOOSE RITTAL: JB Junction Box Enclosure Rittal stocks thousands of enclosures in three US warehouses

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Junction Box Sizing Calculator

Accurately calculating junction box size is essential for electricians, engineers, and contractors. Our Junction Box Sizing Calculator

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5 Types of Electrical Boxes

Learn about the types of electrical boxes you can use for your home wiring project. From junction boxes to work

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Mild Steel Junction Boxes

Mild Steel Junction Boxes A WIDER VARIETY OF SIZES HELP YOU GET THE SIZE YOU NEED, WHEN YOU NEED IT Get nVent

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Junction Boxes

These junction boxes act as the central hub where multiple wires come together to create circuits. They are essential for ensuring

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Sizing Junction Boxes

The sizing requirements for pull boxes, junction boxes, handhole enclosures, and conduit bodies exist to prevent conductor insulation

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Junction Box Dimensions: How to Measure and Select Correctly

Choosing the right junction box dimensions is crucial for safe and efficient electrical work. This guide explains how to

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12 Types of Electrical Boxes and How to Choose

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

Contact Us

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