What size are the bolts used in cable trays

Overview

The M6 x 16mm cable tray bolt & flange nut set provides secure fastening support for cable trays and channel systems with minimal surface obstruction.

Key Takeaways

Cable tray supports commonly use M6 bolts for light to medium loads and 10mm anchor bolts for heavier installations. Common Bolt SizesM6 Bolts: Frequently used for standard cable tray installations, especially for ladder-type or perforated trays. Typical lengths range from 12mm to 16mm, paired with serrated flange nuts to provide vibration-resistant fastening.

These bolts are suitable for electrical, mechanical, and construction applications where moderate load support is required. 10mm Anchor Bolts: For heavier cable trays or when supporting multiple large cables, 10mm anchor bolts are often recommended. Each bolt can have a basic tensile load capacity of around 5 kN, making them suitable for supporting cable trays with significant weight, such as 600mm ladder-type trays carrying armored cables.

Other Sizes: In some cases, 1/4" (≈6. 35mm) plastic bolts or 3/8" (≈9. 5mm) steel bolts are used for specific wall or stand-off supports, depending on the tray width and mounting configuration.

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Considerations for Bolt Selection

Load Capacity: Ensure the bolt size matches the weight of the cable tray and the cables it carries. Heavier trays require larger diameter bolts or multiple fasteners per support point. Material and Finish: Steel bolts with zinc plating or black powder coating are common for corrosion resistance.

Stainless steel may be used in outdoor or high-humidity environments. Compatibility: Use bolts compatible with the tray type (ladder, perforated, or solid-bottom) and the support structure (wall, ceiling, or stand-off brackets). Installation: Serrated flange nuts or truss head bolts are preferred for vibration resistance and secure fastening.

By selecting the appropriate bolt size and type, you ensure safe, durable, and code-compliant cable tray installations.

Article Content

M6 x 16mm Cable Tray Bolt & Flange Nut – Box of 100

The M6 x 16mm cable tray bolt & flange nut set provides secure fastening support for cable trays and channel systems with minimal surface obstruction. Each set

BZP Cable Tray Bolts and Serrated Flange Nuts

These tray bolts and serrated flange nuts are specially designed for the rapid installation of cable tray and give a superior fixing than traditional roofing bolts.

Guide to cable support systems

Widths of 8 and 15 millimetres enable flexible adjustment to different cable trays, cable ladders and cable volumes. With the help of the matching SBV tightening strap locks and 576 spring chuck, the

Mounting instructions

5.2.1 Fittings The fittings can be used for cable trays of widths of 100 to 600 mm and the heights 35, 60, 85 and 110 mm. The fittings can fastened to the cable tray rail either with double clamps of type DOP

Cable Tray Bolts & Flange Nuts

M6 (6mm thread diameter). Serrated flange nuts which bind to the material to remain tight. No fiddly washers are required. Zinc plated for corrosion resistance.

Cable Tray Technical Guide A practical guide to product selection and ...

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In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and any additional loading that may be applied to the cable tray system (e.g.,

GUIDE CABLE TRAYS TECHNICAL

Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian Electrical Code, Part I and the National Electrical Code®

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Secure cable trays quickly with zinc-plated bolts and flange nuts. Fully threaded for maximum grip and available in multiple sizes to suit your requirements.

M6 x 12MM

Cable Tray & Trunking bolt with hex flange nut (6x12mm). Qty 100. | Channel and Tray manufacture a complete range of cable trays and industrial cable trays,

Cable Tray

Cable trays with a rail height of 60 mm, in widths of 100 to 300 mm (RS 60.100 OV - RS 60.300 OV) are used for ceiling and wall mounting. The cable trays are fastened to the cantilever brackets with 2

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Cable Tray Technical Guide A practical guide to product selection and ...

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray

Roofing Bolts & Square Nuts Cable Tray Bolts, Roofing Bolts Zinc ...

Grade 8.8 High Tensile Carbon Steel Commonly used with drop in anchors for suspending cable trays from ceilings or can be cut to a required length and used with chemical resin.

BZP Cable Tray Bolts and Serrated Flange Nuts

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M6x12 BZP Cable Tray Bolts and Serrated Flange Nuts (P) Product Code: N402-306 These tray bolts and serrated flange nuts are specially designed for the

Cable Tray Bolts & Flange Nuts

Cable Tray Bolts & Flange Nuts Cable tray/roofing bolts complete with serrated flanged nuts. No. 2 pozi drive combo heads for fast installation. M6 (6mm thread diameter). Serrated flange nuts which bind

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Fast installation with dependable support. Everything you need to build a cable management system, including Cablofil wire mesh cable tray, ladder cable tray, prefab assemblies for brand circuit wiring,

Modular wire spool holder with anti-retract

Modular wire spool holder with anti-retract mechanism. Can be used with any spool sizes up to 70mm in diameter, and ~21-22mm wide 2 piece of M3

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