

How to match bolts to cable trays



Overview

Widths of 8 and 15 millimetres enable flexible adjustment to different cable trays, cable ladders and cable volumes.

Key Takeaways

Select bolts based on tray type, fitting, load, and mounting method to ensure secure and stable cable tray connections.

Understanding Cable Tray Bolt Requirements

Cable trays are connected and secured using bolts, nuts, and clamps. The type of bolt depends on the tray system, tray width, height, and the type of fitting being used. Common bolt types include truss-head bolts (FRS) and combination nuts, which are used to fasten tray rails and fittings securely.

For certain fittings, such as vertical bends or adjustable bend elements, only screw-on methods are allowed.

Steps to Match Bolts to Cable Trays

Identify the Tray Type and Material Perforated trays (e.g., MKS, SKS, DKS, EKS, IKS) and unperforated trays (MKSU, SKSU, EKSU) may require different bolt sizes or types. Material (steel, aluminum) affects corrosion resistance and bolt selection; stainless steel bolts are often preferred for aluminum or outdoor trays.



Determine the Fitting or Connection

Straight runs typically use splice plates with bolts and nuts. L, T, or cross-shaped junctions may require multiple bolts to secure the fitting and maintain load stability. Covers may have pre-mounted turn buckles or require additional bolts depending on the design.

Select Bolt Size and Type

Use truss-head bolts (FRS) with combination nuts for most tray-to-tray and tray-to-fitting connections. For double clamps, type DOP A2 may be used to secure fittings to the tray rail. Ensure the bolt diameter matches the tray hole size and the load requirements.

Check Load and Span Requirements

Heavier cable loads or longer spans may require closer bolt spacing or larger bolts to prevent sagging. Standard spacing for mounting brackets is typically 4–5 feet, but closer spacing is recommended for heavy-duty installations.

Ensure Proper Torque and Tightening

Bolts must be tightened to the manufacturer's recommended torque to prevent loosening due to vibration. Use appropriate tools such as wrenches or torque wrenches for consistent fastening.

Additional Tips

Always use bolts and nuts compatible with the tray manufacturer to ensure proper fit and warranty compliance. Inspect connections periodically for loosened bolts or worn components to maintain long-term stability. For quick installations, some systems offer snap, slide, or twist connectors, but these are usually brand-specific.

By following these steps, you can ensure that the bolts you select are matched correctly to your cable tray system, providing a secure, durable, and safe installation.

Article Content

Connecting Cable Trays: Your Guide to Secure and

Learn common methods for connecting cable trays safely and efficiently. Our guide covers splice plates, quick-connects, and key tips for

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

WBT Cable Tray Installation Guide

WBTForm was pioneered as the only insert to offer the flexibility to simply roll into the tray bottom, and now WBTForm can cover both vertical sides and bottom to totally encapsulate and protect cabling

Mounting instructions

The mounting drawings of the screw-on cable tray systems show either perforated or unperforated cable trays. All the connectors, fittings and accessories shown can be mounted on both perforated and

Best Fixing and Mounting Options for Cable Trays | CMW

Discover the best fixing and mounting options for cable trays and wire mesh basket trays. CMW shares tips for efficient cable management.

Connecting Wire Mesh Baskets & Cable Trays | CMW

Learn how to connect multiple sections of wire mesh baskets or cable trays efficiently. Tips, tools, and techniques from cable management experts at CMW.

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

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.,

PP cable tray fastening accessories

PP mounting accessories are intended for joining cable trays, cable ladders, fastening of cable trays and cable ladders to bearing elements, and attaching bearing elements to the walls or ceiling. Fasteners

Watch how we link trays seamlessly with connectors, bolts, and nuts

Securing the Flow ✂ | Connecting Two Cable Trays Like a Pro 🛠️ Watch how we link trays seamlessly with connectors, bolts, and nuts. Strong, safe, and ready for heavy loads.

Cable Trays

Cable trays include cable trunking, cable ladder, perforated cable tray, wire mesh cable tray and the matching accessories, etc, which are often made with such materials as hot dip galvanized steel,

Smart Cable Tray Covers: A Buyer's Guide to Material,

Explore cable tray cover types, materials & standards to optimize safety and system ROI. Read more in our expert guide.

What Are Long Span Cable Trays

What are long span cable trays? Learn how they reduce support points, save costs & suit stadiums, factories. UK expert guide with FAQs.

Stainless Steel Cable Trays Dugan Buyers & Importers ...

Sell Stainless Steel Cable Trays Dugan in bulk to verified buyers and importers. Connect with businesses actively looking to buy wholesale Stainless Steel Cable Trays Dugan at best prices.

Resources for Cable tray and ladder systems

Featured resources Cable tray design considerations guide Our cable tray design considerations guide details key factors to consider when designing cable tray systems for industrial and commercial

How to Choose Battery Terminal Adapter Size? | Match Wire & Post

Learn how to choose battery terminal adapter size by matching post type (SAE, JIS, side post) and wire gauge (AWG) to your system's maximum current draw.

Best Practices for Installing Cables in Trays

Learn the best practices for installing cables in trays. This guide covers essential steps, technical requirements, and key details for efficient cable

A Comprehensive Guide to Cable Tray and Accessories in the UAE

Select the right cable tray and accessories for your UAE project. This guide covers types, materials, and installation best practices for engineers.

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

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://bagyou.es>

Technical inquiry: <https://bagyou.es/project-enquiry.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

