Cable tray connecting plate bolt fixing

Overview

The fittings are fastened to the cable tray rail either without tools with double clamps (from tray height 60 mm) or with truss-head bolts and combination nuts.

Key Takeaways

Cable tray connecting plates are securely fixed using truss-head bolts and combination nuts, ensuring stability and safe cable support.

Proper Fixing Method

Position the Joint Plate: Insert the straight or angled connector into the inside of the cable tray rail. Clamp the joint plate between the tray sections to align the holes for bolting. Select the Correct Bolts and Nuts: Use FRS M6 truss-head bolts with combination nuts for standard connections.

These provide a strong, vibration-resistant hold. Bolt Installation: Pass the bolts through the tray rail from the inner side to avoid damaging cables. Secure each bolt with a combination nut on the outer side of the tray.

Torque Control: Tighten bolts to the manufacturer's recommended torque to prevent loosening over time, especially in high-vibration environments. Joint Plate Use: For tray widths 400 mm or more, always use a joint plate to prevent transverse bending. For widths up to 300 mm, joint plate installation is optional.

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Additional Considerations

Tray Type Compatibility: Both perforated and unperforated trays can be connected using this method. If unperforated trays are cut, re-drill the connector holes before bolting. Safety: Always ensure bolts do not contact cables directly to prevent insulation damage.

Maintenance: Bolted connections allow for easy disassembly for future modifications or maintenance.

Tools and Accessories

Spanners or torque wrenches for tightening boltsFRS truss-head bolts and combination nutsOptional clamps for temporary alignment during installation By following these steps, cable tray systems remain stable, safe, and durable, supporting heavy cable loads while allowing for future adjustments or expansions.

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

Mounting instructions

The fittings are fastened to the cable tray rail either without tools with double clamps (from tray height 60 mm) or with truss-head bolts and combination nuts.

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INSTALLATION GUIDE

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Steel Wire Cable Tray-Couplers, Fixings & Supports

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Cable tray is considered to be a system. It must provide continuous support for cables, and the electrical continuity of the cable tray system must be maintained.

Mounting instructions

To avoid transverse bending at higher loads, a joint plate must be used in the joint area of the cable trays to be connected for tray widths of 400 mm or more. Up to a tray width of 300 mm, the mounting

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Steel Wire Cable Tray-Couplers, Fixings & Supports

Fixing kits A Fixing kits A are used for general clamping of straight lengths and fittings. Kits comprise large clamp plate, small clamp plate, M6 nut and M6 x 20

Guide to cable support systems

A cable support system consists of cable support lengths and system components, such as cable support fittings, support elements, mounting elements and system acces-sories. The cable support

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What types of cable tray accessories are there? There are several different types of cable tray accessories, which are available in heavy-duty, medium-duty, or light-duty strengths. The type of

Cable Tray Nut, Bolt, & Clamp Assemblies

Cable Tray Square Splice Washer Square Splice Washer, Use With CE 30 and EZ BN 1/4 To Splice Any Two Sections of Wire Mesh Tray, Also Use For Fabricating Bends Turns and Tees Electro Zinc For

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Unistrut Self Connecting Basket Tray System Unistrut MCSH Basket Tray Central Hanging Plate dual M8/M10 Rod (10 Pairs) Unistrut Basket Tray Nut and Bolt Joiners 1pc - MCCA Unistrut Fast Fix

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