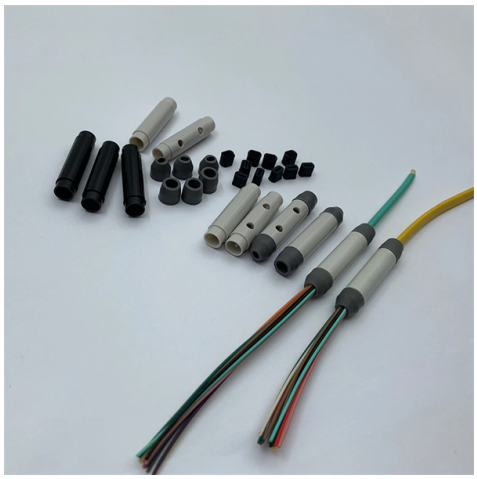
Cable tray support bolt fixing



Overview

Fittings can, on the one hand, be used for horizontal or vertical changing of the routing direction or, on the other, to change the height or width of the dimension.

Key Takeaways

Cable trays are typically connected and secured using truss-head bolts, combination nuts, and joint plates to ensure stability and protect cables.

Types of Bolts and Nuts

Cable tray connections commonly use FRS M6 truss-head bolts paired with combination nuts for fastening straight or angled connectors. Other options include roofing bolts with nuts and flange nuts with fixed washers, which prevent the nut from falling during installation. The choice of bolt depends on the tray type, width, and load requirements.

Installation Procedure

Positioning the Connector: Insert the straight or angled connector into the inside of the tray rail. For trays 400 mm or wider, a joint plate is recommended to prevent transverse bending; for trays up to 300 mm, it is optional. Securing the Bolts: Pass the fastening screws from the inner side of the tray to avoid damaging cables, and secure them with combination nuts on the outer side.

Clamp or Joint Plate: For straight connectors, clamp the joint plate between the connectors before tightening the bolts. This ensures a stable and aligned connection. Additional Supports: Use mounting clamps, tray hangers, or suspension rods as needed to support heavy loads or maintain proper alignment.

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Precautions

Always avoid direct contact of screws with cables to prevent damage. Ensure bolts are tightened securely but not over-torqued, which could deform the tray or fittings. Use pre-mounted turn buckles or covers where applicable to protect cables at bends, tees, or crossovers.

Materials and Compatibility

Cable tray bolts and fittings are typically made from galvanized steel, stainless steel, aluminum alloy, or FRP, depending on environmental conditions and load requirements. Ensure compatibility between the bolt type and tray material to prevent corrosion or mechanical failure.

Summary

For effective cable tray connection bolt fixing: use FRS truss-head bolts with combination nuts, insert connectors from the inner side, secure joint plates for wider trays, and employ additional supports as needed. Always follow manufacturer guidelines to protect cables and maintain structural integrity.

Article Content

Guide to cable support systems

Fittings can, on the one hand, be used for horizontal or vertical changing of the routing direction or, on the other, to change the height or width of the dimension. Practical examples for this are horizontal or

Mounting instructions

The screw-on cable tray systems are used to support and route all kinds of cables, taking the approved load values into account. Depending on the corrosion protection used, they can be mounted both

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This tray bolt and flange nut set is ideal for electrical, mechanical, and construction applications where quick, safe, and durable cable tray fastening is required.

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Cable Tray Accessories, Cable Tray Hangers & Support | RS

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A functional cable tray system consists of various clamping, supporting, and splicing accessories in order to achieve the best possible system. Other add-ons include plastic nuts, bolts, swift clips, wire

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These special heavy duty tray hold down cable tray clamps and expansion guides are ideal for fastening tray to C-Channels and beams, such as those found on bridges.

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

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Cable trays KK series are quick and easy to install with patented solutions, and bolt free connections, and cable ladders UL series are designed to hold heavy loads with up to 6m supporting distances,

Cable Trays

Cable trays are systems that distribute bundles of insulated electrical cables from power supplies to electrical equipment, consisting of metallic trays supported from structures like walls and ceilings.

Mounting instructions

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The cable tray systems can be mounted on floors, walls and ceilings on various support systems. The mounting of the support systems is de-scribed in separate mounting instructions, see „1.6 Applicable

Cable Tray and Cable Trunking for Cold Storage Facilities and ...

Tray type, cable trunking type, width, side height, thickness, and finish Expected cable load, support spacing, installation height, and support fixing method Condensation, washdown,

Guide to cable support systems

I support systems for cable support structures are used to bridge large loads and support spacings and to cre-ate complex section routes. The systems allow large sup-port spacings of wide span systems

BEAMA Best Practice Guide to Cable Ladder & Cable Tray Systems

This document provides guidance on best practices for installing cable ladder and cable tray systems, including channel support systems. It covers topics such as packing, handling and storage of

Best Fixing and Mounting Options for Cable Trays | CMW

Posted on: 30/04/2025 Regarding cable management, the fixing and mounting you choose for your cable trays can make or break your setup. Whether you''re managing voice, data, or electrical cables,

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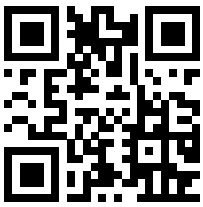
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