Using clamps for cable trays



Overview

These heavy duty hold down cable tray clamps can be used to attach the cable tray to most surfaces by field drilling holes into the side of the tray and the mounting surface.

Key Takeaways

Clamps on cable trays are used to secure covers, organize cables, and ensure mechanical stability, with different types suited for perforated, mesh, or solid trays. Types of Cable Tray ClampsPKP-SP1 Clamp – Designed for perforated cable trays; it is screwed into position to secure the tray cover, providing extra mechanical fastening in demanding conditions such as vertical installations or exposure to wind. PKP-SP2 Clamp – Also for perforated trays but does not require tools for installation; it snaps into place for quick fastening.

PKP-SPM1 Clamp – Used for mesh cable trays; it is screwed in position to hold the cover securely. Other general cable clamps include adhesive clamps, cable tie mounts, metal clamps, and rubber-lined clamps, which can be used to organize cables within the tray or attach them to walls, ceilings, or floors.

Step-by-

Step Installation

Plan the Route – Before installing clamps, ensure the cable tray route is clearly marked, considering clearance, load capacity, and cable separation. Select the Right Clamp – Match the clamp type to your tray (perforated, mesh, or solid) and the installation environment. Position the Clamp – Place the clamp over the tray cover or cable bundle at the designated location.

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For screw-type clamps, align the holes with the tray perforations. Secure the Clamp – Tighten screws for PKP-SP1 or PKP-SPM1 clamps using appropriate tools. For snap-on clamps like PKP-SP2, press firmly until it locks in place.

Check Stability – Ensure the cover or cables are held firmly without movement. For long runs, space clamps evenly to prevent sagging or displacement. Organize Cables – Use additional cable ties or straps if needed to separate and secure cables within the tray, maintaining neatness and compliance with electrical standards.

Final Inspection – Walk through the installation to check for loose clamps, misaligned trays, or unsupported spans, and adjust as necessary.

Best Practices

Space clamps according to tray type and load, typically 1.5 to 3 meters apart. Always follow manufacturer instructions for torque and placement to avoid damage. Ground and bond metal trays to maintain electrical safety.

Use clamps to prevent cable movement, reduce wear, and maintain a professional, organized installation. By following these steps and selecting the appropriate clamp type, you can ensure that your cable trays are secure, organized, and compliant with safety standards.

Article Content

Connecting Cable Trays: Your Guide to Secure and

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Cable Tray Supports & Clamps

These heavy duty hold down cable tray clamps can be used to attach the cable tray to most surfaces by field drilling holes into the side of the tray and the mounting surface.

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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

Cable Tray Clamps Guide: How to Secure Systems and Manage

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Using the wrong clamps or incorrect placement can cause the tray to warp, twist, or even snap splice plates under thermal expansion and contraction. For procurement teams and electrical...

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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.,

How to Use Cable Clamps | 7 Easy Guides (2026)

A cable clamp is a useful tool that can fasten your cables together and prevent them from getting tangled. In this blog post, we''ll guide you step-by-step on how to use cable clamps.

Mounting instructions

The fittings can fastened to the cable tray rail either with double clamps of type DOP A2 or with truss-head bolts of type FRS and combination nuts. The exceptions to this are vertical bends, adjustable

Support methods

The tray is then attached to the bracket using either a bracket clamp (see page C35) in the case of the “L” bracket or integrated bend-down tabs for the TabLok bracket.

Best Practice Guide to Cable Ladder and Cable Tray Systems

This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray systems, channel support systems and associated supports.

Hold down clamp | Z clamp | GRP Cable tray

Hold down clamps also referred as z clamps are manufactured by Gratemetal. Hold down clamps are used to clamp down cable trays & ladders to support frame.

Best practice guide to cable ladder and cable tray systems

Cable ladder and cable tray systems The following recommendations are intended to be a practical guide to ensure the safe and proper installation of cable ladder and cable tray systems

Best Practice Guide to Cable Ladder and Cable Tray Systems

Cable ladder systems and cable tray systems are designed for use as supports for cables and not as enclosures giving full mechanical protection. They are not intended to be used as ladders, walk ways

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Guide to cable support systems

OBO also offers matching load details including informa-tive load tables – using which the suitable cable tray, mesh cable tray or cable ladder can be selected – for the mount-ing systems such as universal

Cable Tray Accessories | McMaster-Carr

Cable Trays and Fittings For ease of installation and accessibility, lay cable and hose in trays instead of pulling it through conduit or raceway. These tray systems allow excellent ventilation and prevent

Cable Clamps Selection Guide: Types, Features,

Cable clamps are used in home construction, automotive, rigging, and many more industrial and manufacturing applications. The clamps are available in a wide

Practices for grounding and bonding of cable trays

Correct bonding practices To assure that the cable tray system is properly grounded If an EGC cable is installed in or on a cable tray, it should be

Cable Tray Systems & Support Brackets | TechLine Mfg

Discover cable tray supports at TechLine Mfg. Choose from hangers, brackets, and clamps for your needs. Contact us today for custom or standard-sized brackets!

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