

How to adjust the horizontal level of cable tray supports

Article Overview

Horizontal leveling of cable tray supports is achieved by using adjustable hangers, threaded rods, clamps, and flexible splice plates to ensure the tray is uniformly supported and aligned.

Step-by-Step Horizontal Adjustment

1. Prepare the Supports and Tools

- o Use threaded rods, clamps, and washers as primary support elements. Pre-thread nuts on the rods to facilitate adjustment .
- o Tools needed include a wrench, drill, and optionally a metal cutting tool if field modifications are required .

2. Establish the Desired Elevation

- o Hang a few supports along the tray run and use a carpenter's string or baling wire from end to end to mark the horizontal level .
- o This string acts as a reference line to ensure all supports are aligned at the same height.

3. Position the Cable Tray

- o Place the tray section onto the supports, ensuring the threaded rods pass through the clamp holes. Use round washers between the nuts and the clamp to distribute load evenly .
- o Adjust the tray vertically by turning the nuts until the bottom of the tray reaches the desired horizontal level. The upper nuts are then tightened to secure the clamps in place .

4. Use Flexible Horizontal Adjustable Splice Plates (if needed)

- o For horizontal direction changes or minor alignment corrections, install flexible horizontal adjustable splice plates between tray sections .
- o Determine the desired angle, field cut the tray if necessary, and attach the splice plates with the provided hardware. Ensure supports are within 24 inches (600 mm) on both sides of the splice .

5. Check Support Spacing and Load

- o Ensure supports are spaced according to manufacturer recommendations and NEC guidelines, typically 4-6 feet for horizontal runs .
- o Verify that the tray is level across all supports and that the load is evenly distributed to prevent stress or

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sagging .

6. Final Securing

o Once the tray is level and aligned, tighten all nuts and clamps securely. Double-check the horizontal alignment along the entire run using a level or string line .

Best Practices

- o Shorter vertical rods allow less horizontal adjustment, so plan rod lengths carefully .
- o Precut rods and pre-thread nuts at the factory when possible to save time and ensure accuracy .
- o Always follow manufacturer specifications for tray type, support spacing, and load capacity .
- o Use bonding jumpers only if required; many flexible splice plates do not require them .

By following these steps, cable trays can be horizontally leveled and securely supported, ensuring safe and reliable cable management.

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the

This document provides installation guidelines for ladder tray wiring systems. It discusses receiving and unloading procedures,

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

Cable ladder systems and cable tray systems are designed for use as supports for cables and not as enclosures giving full

Connection and splices between horizontal sections of tray should fall at the quarter point of the span. Support of

This study investigates how to define the longest cable tray support span considering constructability in order to reduce

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

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As an industry leader in cable tray, Eaton offers one of the widest ranges of cable management solutions available in the market

Supports should be located so that connectors (splice joints) between horizontal runs fall between the support point and quarter point

If the span between the tray supports is less than the length of the straight section (Diagram D.7.B), place the tray across both

This document provides guidance on best practices for installing cable ladder and cable tray systems, including channel support

The fact that a cable can easily enter and exit cable tray anywhere along its route, allows for some unique

Learn how to install cable trays correctly. Get the ultimate step-by-step guide on setting up a seamless and reliable

Cable trays and cable ladders are indispensable components in modern electrical wiring systems, providing organized

Cable Tray Installation Guide The correct installation of cable trays is crucial for establishing a reliable and efficient cable system. It

In order to install the cable tray supports, first find the required elevation from the floor to the bottom of the cable tray and establish a

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