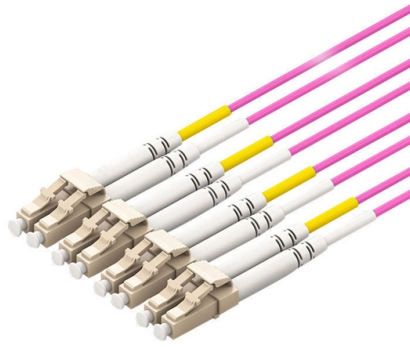


How to fix the horizontal section of the vertical shaft cable tray



Overview

The document provides instructions for forming various bends and joints in electrical trunking and cable trays.

Key Takeaways

Properly fixing the horizontal section of a vertical shaft cable tray requires correctly positioning hangers, adjusting threaded rods, and securing clamps to maintain alignment and support.

1. **Position Hanger Rods and Nuts** Thread the upper hex nut onto the all-thread rod approximately 203 mm (8") above the intended bottom of the tray. This nut acts as a stop for the clamp and helps maintain the tray elevation . 2. **Install Clamps Around the Tray** Place the appropriate clamp (SC for single tray or DC for double ladder trays) around the tray siderails. Insert a round washer on each hanger rod before lifting the tray so the threaded rod passes through the clamp holes. Ensure the washer is positioned between the upper hex nut and the top of the clamp . 3. **Adjust Tray Elevation** Add a second washer and hex nut on the rod above the tray. Thread this nut until the bottom of the tray reaches the desired horizontal level. Then, tighten the upper nut down to secure the clamp in place . 4. **Ensure Proper Horizontal Alignment** Use a carpenter's string or baling wire along the tray run to establish consistent elevation. Horizontal adjustment is limited by the length of the vertical rods; longer rods allow more adjustment . 5. **Secure Cables** For vertical shaft installations, cables may hang freely, but horizontal sections require proper tie-downs to prevent sagging. Use cable ties or clamps to maintain spacing and support, especially for multiconductor or large power cables, following NEC Section 392.9(A)(3) and CTI guidelines . 6. **Verify Support Spacing** Check that support brackets or hangers are spaced according to the tray type and load. Overloaded trays or long unsupported spans can cause sagging or bending . 7. **Compliance and Safety** Ensure installation meets NEC and CTI standards. For example, in hazardous dust locations, cables must be spaced and arranged in a single layer, and tie-downs may be required to maintain proper separation and airflow .

Additional Tips

- Pre-thread nuts on hanger rods using a drill to save time.
- Double-check that clamps are properly seated and washers are correctly positioned.
- Inspect the tray after installation to ensure no sagging or misalignment occurs.
- Consider using expansion joints or guides if the horizontal section is long or subject to thermal expansion . By following these steps, the horizontal section of a vertical shaft cable tray can be securely fixed, properly aligned, and compliant with electrical and safety standards.

Article Content

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Riser Feeder supports

There is a Kellem's Grip hanger that can be used or a double post (Don't remember the name but is used on Aviation

Cable Tray Installation Guidelines

This document provides details on installing cable trays and their support systems. It includes diagrams showing how to mount cable

Practice 002: Modeling Cable Tray Horizontally on a Wall in Revit

Practice 002: Modeling Cable Tray Horizontally on a Wall in Revit Open the Small Medical Center-Cable Tray Horizontal.rvt project.

CABLE TRAY INSTALLATION DETAILS WITH PICTURES

1. FIELD CUT CABLE TRAY LENGTH AS REQUIRED. 2. INTERMEDIATE SUPPORT FOR UPPER TRAY REQUIRED ON

Document DICOS

Vertical adjustable splice plates should be designed and placed to maximize the rigidity of the cable tray, unless vertical adjustable

Rotate horizontal cable tray sections

Rotate horizontal cable tray sections Allows to rotate the cable trays in a horizontal section, so we can place horizontal cable trays

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Cable tray manual

Nearly every aspect of cable tray design and installation has been explored for the use of the reader. If a topic has not been covered

Cable Tray Questions | Cable Tray Institute

That is, each cable tray rung would point in a vertical direction as opposed to the usual horizontal direction. The local electrical

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Cable Tray System FAQs National Electrical Code Question: We have a customer who would like to install the majority of cable tray

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