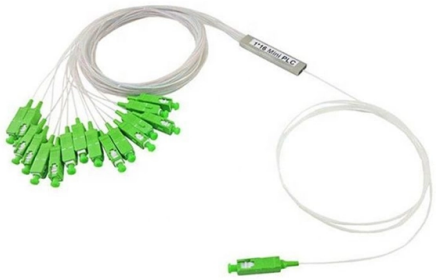
Cable tray width adjustment plate



Overview

Series 2~5 Aluminum Cable Tray anges when standard horizontal fittings do not conform. he splices are furnished in pairs These splices require supports within 24" (600mm) on both sides per NEMA VE2.

Key Takeaways

Cable tray width adjustment plates are used to modify or extend the width of ladder-type cable trays, ensuring proper cable support and compliance with load and spacing requirements.

Purpose and Function

Width adjustment plates are metal components designed to connect two cable tray sections or extend the tray width to accommodate additional cables without compromising structural integrity. They are commonly used in ladder and ventilated tray systems where field modifications are necessary to meet installation requirements or to maintain proper cable bending radii.

Material and Construction

Typically made from steel, stainless steel, or aluminum, depending on environmental conditions and corrosion resistance requirements. Plates are perforated or slotted to allow bolting to tray side rails and to maintain ventilation for heat dissipation. Thickness is selected to match the structural strength of the tray, ensuring that load capacity is not reduced when the width is adjusted.

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Dimensions and Compatibility

Width adjustment plates are sized to fit standard ladder tray widths, which commonly range from 6 to 48 inches. The plates must align with tray side rails and rung spacing, which can vary from 6 to 18 inches depending on cable type and load requirements. For wider trays (42–48 inches), load reductions may be required, so plates must be designed to reinforce structural strength.

Installation Considerations

Plates are bolted or fastened to the tray side rails using pre-drilled holes, ensuring secure attachment. When supporting small-diameter control or instrumentation cables, closer rung spacing (6–12 inches) is recommended to prevent cable drooping. For large power cables, wider rung spacing (9–18 inches) may be necessary, and width adjustment plates should not interfere with cable bending radii.

Always consult the manufacturer's load charts to ensure that the modified tray maintains safe load capacity.

Standards and Compliance

Width adjustment plates should comply with NEC 392 and other relevant standards for cable tray systems. Proper selection ensures that the total cross-sectional area of cables does not exceed allowable tray fill, maintaining safety and ventilation. In summary, cable tray width adjustment plates are modular, load-bearing components that allow field customization of tray width while maintaining compliance with structural and electrical standards.

Proper material selection, alignment with rung spacing, and adherence to load ratings are critical for safe and efficient cable management.

Article Content

Flexible horizontal adjustble splice plate instructions

Series 2~5 Aluminum Cable Tray anges when standard horizontal fittings do not conform. he splices are furnished in pairs These splices require supports within 24" (600mm) on both sides per NEMA VE2.

B-Line series Cable Tray Design Considerations

Note that wider rung spacings and wider cable tray widths decrease the overall strength of the cable tray. Specifiers should be aware that some cable tray manufacturers do not account for this load

Horizontal Adjustable Splice Plate, 6" High

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Horizontal Adjustable Splice Plate, 6" High, for Tray Width Thru 36 Inches, Cat #: 9A1036, Mfr: Eaton B-Line

Horizontal Adjustable Splice Plate for Cable Tray, Kit of 2

This versatile Horizontal Adjustable Splice is designed to create seamless connections between horizontal sections of cable tray, allowing for flexibility in

Cable Tray Dimensions Guide: Standard Sizes, Tray

We will first explain standard cable tray dimensions used across the industry, then examine how dimensions vary by tray type, and finally show how

Cable Tray Splicer Plates

Cable Tray Vertical Adjustable Splice Plate, 7" Cable Tray Vertical Adjustable Splice Plate, 7 Inch High, Aluminum, Pair, Requires Supports Within 24 Inch on Both Sides, Per NEMA VE 2

GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian Electrical Code, Part I and the National Electrical Code®

Resources for Cable tray and ladder systems

Adjustable Splice Plate and Vertical Adjustable Splice Plate Instruction Sheets. Browse or download the Cable Tray catalog for more information on our line of cable tray and ladder systems.

B-Line series Cable Tray Design Considerations

By incorporating Eaton''s support recommendations with straight sections, cable tray fittings, vertical adjustable splice plates and heavy duty expansion splice plates, B-Line series cable ladder solutions

PRODUCT SHEET T&B Cable Tray Super-Duty Splice Plate

The Super-Duty Splice Plate comes complete with all hardware required, for either expansion or mid-span splicing. Kit includes: • 2 Super-Duty Splice Plates • 8 nylon insert locknuts • 8 serrated flanged

CableTray Book English

Tray covers are available for all widths of tray. They should be installed where falling objects may damage cables or where vertical tray run is accessible by pedestrian or vehicular traffic.

Cable Tray Splicer Plates

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SPLICE PLT KIT 4"& 6" DEEP FLEXTRAY Eaton B-Line series Flextray wire basket tray, Used with 4", 6", 8" and 12" system widths, Steel, Splice plate kits for 4" and 6" deep flextray Category: Cable Tray

Cable Tray Dimensions Guide: Standard Sizes, Tray Types & Sizing

Explore standard sizes by tray type, understand width and depth limits, and see how to calculate and choose compliant cable tray sizes for real projects.

Flextray wire mesh basket | Instrumentation and signal

Flextray wire mesh basket is ideal for commercial and data center cable management, providing a flexible means of adapting your tray to fit your job-site

Aluminum Cable Tray Accessories

Expansion Splice Plates • Expansion plates allow for one inch expansion or contraction of the cable tray, or where expansion joints occur in the supporting structure. • Furnished in pairs with hardware. •

Adjustable Horizontal Splice Plates

Fiberglass - Horizontal Adjustable Splice Plates The Cope-GLAS Cable Tray System offers a full line of fiberglass accessories to suit any application. Accessories must be ordered individually to complete

Cable Tray Accessories, Support Bracket, Fittings & More

Explore cable tray accessories, from brackets and hangers to supports and fittings. Learn about their applications and benefits for cable management.

B-Line series pan tray catalog

Perforated Cable Tray Load Capacities ... All tests per NEMA VE-1. 1.0mm thickness to maximum width of 300mm. All others tested to 900mm width. Published load safety factor is 1.5.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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