

# Should horizontal strips be used for cable tray bends



## Overview

Right Horizontal Bend for Your Cable Tray System Unlike generic “cable tray fittings” overviews that compete with giants like Eaton or Schneider, this focus.

## Key Takeaways

Horizontal strips are generally not required for standard cable tray bends if proper bend radius and support are maintained, but they can be used to restrain cables in specific applications.

## Cable Tray Bend Considerations

Horizontal bends, or elbows, are designed to change the direction of cables while maintaining a smooth path to prevent stretching, pinching, or damage to the cables. Proper installation requires maintaining the minimum bend radius for the cables and supporting the bend at key points, typically at the center of the radius and within 2 feet of each end where the bend connects to straight sections. This ensures cables are not stressed and the system remains safe and reliable.

## Role of Horizontal Strips



Horizontal strips, or cable restraining devices, are sometimes used to keep cables in place within the tray, especially in long runs or where vibration, thermal expansion, or heavy cable bundles could cause displacement. They are particularly useful in: Instrumentation and control applications with small or sensitive cables Areas where visual aesthetics or precise cable alignment is important Situations where additional protection against sagging or lateral movement is needed However, for standard ladder or ventilated tray bends, the tray itself, along with proper support and alignment, is usually sufficient to maintain cable integrity.

Overuse of horizontal strips can complicate installation and may not be necessary if the bend radius and support spacing are correctly followed.

## **Best Practices**

Use factory bends or properly mitered straight sections to achieve the required angle. Support bends at the center of the radius and near the ends to prevent sagging. Ensure the bend radius meets cable manufacturer specifications to avoid kinking.

Consider horizontal strips only when additional cable restraint is needed due to vibration, long unsupported spans, or sensitive instrumentation cables. Follow industry standards such as BS EN 61537 for tray systems and manufacturer guidelines for installation. In summary, horizontal strips are optional and application-specific.

Properly supported and aligned bends typically do not require additional horizontal strips, but they can be added for extra cable restraint in specialized or high-risk installations.

## **Article Content**

### **Right Horizontal Bend for Your Cable Tray System**

Unlike generic “cable tray fittings” overviews that compete with giants like Eaton or Schneider, this focused guide gives you the deep, practical knowledge required to specify, select, and install

### **Best Practice Guide to Cable Ladder and Cable Tray Systems**

Any vertically orientated component, whether cable ladder, cable tray or support, acts structurally as a column; it is not usual to consider cable ladder or cable tray in this way because they are not

### **Cable Tray Technical Guide A practical guide to product selection and ...**

The choice of method should be discussed with a local inspector. The best decision may be to extend only the cables, creating a discontinuity in the cable tray.

### **Cable Tray Design and Standards Guide**

The document outlines codes and standards that must be followed for design and construction of cable trays and their components. Standards listed include those for materials, rolling and cutting

IEC Standard for Cable Tray: Complete Technical Guide

When cable trays are used as part of an earthing path, they must meet specific resistance limits. IEC 61537 mandates that trays used for bonding

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

INSTALLATION GUIDE

When drawing/pulling cables into ladder tray, the tray run between outlets or draw-in points should not have more than the equivalent of four (4) 90 degree bends including the bends located at an outlet or

SWIFTS CABLE TRAY

With the new Swiftclip, lengths and fittings of Swifts cable tray can be fitted without the use of specialist tools – making it even faster, safer and easier to fit.

B-Line series Cable Tray Design Considerations

For installations where cables exit the bottom of the cable tray, and the overall system is subject to vibration, it is advisable to use B-Line series Cable Channel Bushings (Cat. No. 99-1125).

Cable tray horizontal bends | Information by Electrical Professionals ...

NEMA V2 states that a radius must be supported in the center of the radius and within 2" of each end where the factory bend splices to the next straight section.

Cable Tray Spacing Standards for Installation and Safety

Key Factors Impacting Cable Tray Spacing Understanding cable tray spacing is key to meeting safety regulations and maintaining system

Cable Tray Ladder Trunking Wire Basket Installation Guidelines

Cable trays are available in different configurations, straight sections are available to route cables in a horizontal or vertical plane. Fittings are available to route cables in various directions in either the

Cable Tray Offset Calculator

Cable Tray Offset Calculator Calculate true diagonal travel lengths, horizontal runs, and bend geometry for ladder, trough, or wire-mesh cable trays.

#### Cable Tray Installation 211215 | PPTX

The document provides information about cable tray systems, including: - The six main types of cable trays: ladder, solid bottom, trough, channel, wire mesh, and single rail. - The materials cable trays

#### Wire Basket Overhead Cable Tray Routing System Application Guide

Wire Basket Overhead Cable Tray Routing System contributes to effective space utilization and network performance, and it provides speed of deployment, structural integrity, cable protection, and ease of

#### Types of Bends in Wire Mesh Cable Trays: A Detailed Guide

Wire mesh cable trays are widely used in industrial and commercial installations to support and manage cables effectively. One of their greatest advantages is the flexibility they offer,

#### Smooth Transitions: Understanding the Important Role

Cable tray bends play a critical role in ensuring smooth transitions and maintaining the integrity of electrical wiring systems. By providing controlled pathways for

#### Data Center Enclosure Cable Management Guide

Why does early DFM collaboration matter for data center enclosure cable management? Design-for-manufacturability collaboration at the enclosure level ensures that mounting points, cutout

#### Related Video Reference

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