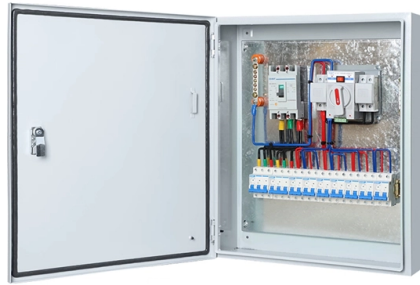


Horizontal Flaring of Cable Tray



Article Overview

Horizontal flaring of cable trays involves spreading cables laterally within a tray to optimize support, airflow, and accessibility while maintaining compliance with standards.

Purpose of Horizontal Flaring

Horizontal flaring is used to distribute cables evenly across the width of a tray, preventing overcrowding, reducing mechanical stress, and improving heat dissipation. Proper flaring ensures that cables do not overlap excessively, which can lead to overheating, insulation damage, or difficulty in maintenance and future cable additions. It is particularly important in ladder and perforated trays, where airflow is critical to maintain safe cable temperatures.

Installation Considerations

- **Tray Type:** Ladder trays allow easy horizontal spreading due to open rungs, while perforated trays provide partial support and ventilation. Solid-bottom trays require careful planning to avoid cable compression.
- **Bend Radius:** When flaring cables horizontally, maintain the minimum bend radius specified by the cable manufacturer to prevent damage.
- **Load Distribution:** Ensure that the weight of flared cables does not exceed the tray's rated load capacity. Supports should be spaced according to standards like BS EN 61537 to prevent sagging.
- **Fittings and Accessories:** Use horizontal bends, T-pieces, and crossovers to guide cables while maintaining proper flaring and alignment

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Tray Installations

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Tables list standard sizes and specifications for straight and bent cable trays, including width, height, thickness, materials, and

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Cable trays are available in different configurations, straight sections are available to route cables in a horizontal or vertical plane.

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CABLE TRAY INSTITUTE

The Cable Tray Institute (CTI) was founded in 1991 to support the cable tray industry by engaging in research, development,

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A cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable

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Cable tray manual

INTRODUCTION The B-Line series Cable Tray Manual was produced by our technical staff. We recognize the need for a complete

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Method Statement installation of Cable Trays and Ladders

This method statement covers the site installation of the cable tray & ladders and the requirements of checks to be

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B-Line series pan tray catalog

Solid flanged covers should be used when maximum enclosure of the cable is desired and no accumulation of heat is expected.

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Cable Tray Offset Calculator

Compute precise cable tray offset geometry, run lengths, and diagonal travel dimensions for tray routing elevation changes. Supports

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Cable Tray Installation and Cable Handling Method Statement

3. Cable Tray Support Locations Cable tray supports should be strategically positioned so that connectors between horizontal

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B-Line series Cable Tray Design Considerations

Is your cable tray system optimized for safety, dependability, space and cost savings? Cable tray (or cable ladder) systems are a

Contact Us

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