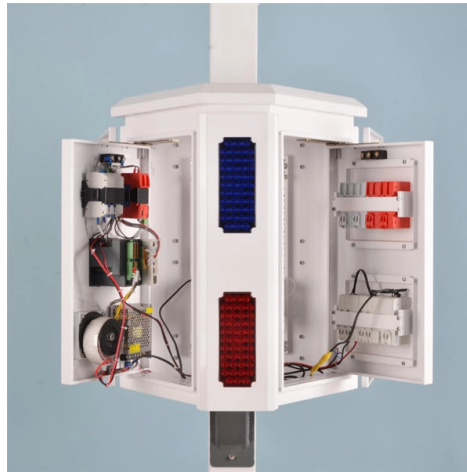


Method for connecting mesh cable trays with circular arcs



AI Overview

Mesh cable trays with circular arcs can be connected using splice bars, clips, and by carefully bending or cutting side wires to achieve the desired radius.

Methods for Connecting Mesh Cable Trays

1. Using Splice Bars and Clips Sections of mesh cable trays are typically joined using splice bars or proprietary connector kits. To connect two tray sections, align the ends and secure them with clips or bolts, ensuring structural integrity and proper load support for cables . Universal clamps or tool-less clips can simplify installation and allow for quick adjustments .
2. Forming Circular Arcs To create a horizontal bend with a radius, mesh trays can be bent directly by removing or cutting side wires to allow the tray to curve smoothly . The number of wires to cut depends on the tray width and the desired bend radius. For sharper curves, additional modifications may be required, but the tray's bending capacity allows for gradual arcs without compromising strength .
3. Radius Limiters and Built-in Tabs Some mesh tray systems include radius limiters or built-in tabs that help maintain a consistent bend and prevent over-bending. These features are particularly useful at junctions, tees, or cross points, ensuring that cables remain supported and do not sag or drop out .
4. Alignment and Compatibility Ensure that tray sections are properly aligned before tightening connectors. Misalignment can lead to uneven loads and sagging trays. It is recommended to use trays and connectors from the same manufacturer to maintain compatibility and compliance with load ratings .
5. Tool Considerations Many modern mesh tray systems allow tool-less installation using clips or snap-on connectors, whi...

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Always use side-action bolt cutters. Angle all cuts away from the new end. Cut each wire with one clean cut whenever possible.

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Metallic cable trays shall be permitted to be used as equipment grounding conductors where continuous maintenance and

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Configuration methods

Lengths of tray lock together in a matter of seconds with no connection components or tools and with no loss of stability or load

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CABLE TRAY

Figure 4.50 Attachment of a channel cable tray in this method maintains the electrical requirements, bolted mechanical connection,

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Make sure all surfaces of the pulling devices that come in contact with the cable and ladder tray are covered by a protective covering

Contact Us

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