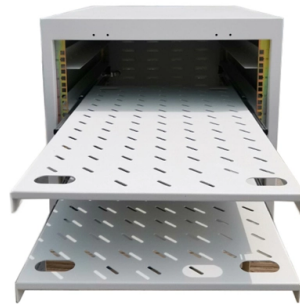


Connection between vertical and horizontal cable trays



Summary of Content

Vertical and horizontal cable trays are connected using vertical bends (risers), splice plates, and clamps to ensure secure, aligned, and code-compliant transitions.

Key Components for Connection

- **Vertical Bends (Risers):** These are specialized fittings that allow the cable tray to change elevation from a horizontal run to a vertical section. They are available in standard angles (e.g., 90°) and are designed to maintain proper cable support and bend radius .
- **Splice Plates:** Splice plates are used to join the ends of two tray sections securely. They are bolted to the side rails of both the horizontal and vertical trays to provide mechanical strength and alignment .
- **Clamps and Hangers:** Ladder tray clamps (SC or DC types) are positioned around the side rails of the tray. For vertical connections, threaded rods with washers and hex nuts are used to lift and secure the tray sections in place. Double clamps can support adjacent trays when needed .

Installation Procedure

- **Align the Trays:** Position the vertical riser directly above the horizontal tray, ensuring the side rails are aligned for proper load transfer and cable support .
- **Attach Splice Plates:** Bolt splice plates to the side rails of both the horizontal and vertical sections. This ensures a rigid connection and prevents misalignment during cable installation .

Article Content

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Directional fittings allow cable trays to change direction horizontally or vertically without damaging cables. Available in steel, stainless

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In summary, cable tray support brackets can be installed both horizontally and vertically, depending on the specific requirements of

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Spacing Standards: Electrical (power) and instrumentation (signal/control) cable trays should maintain a minimum vertical and

Cable tray manual

This means that the cables must be tied down at frequent intervals in horizontal as well as vertical cable trays to maintain the cable

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In vertical or angled tray runs, cables should be fastened to the tray's transverse members to keep them secure. In

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In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and

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Some applications may require the cable tray to support the weight of a single, dead object in addition to the cable loads.

Contact Us

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