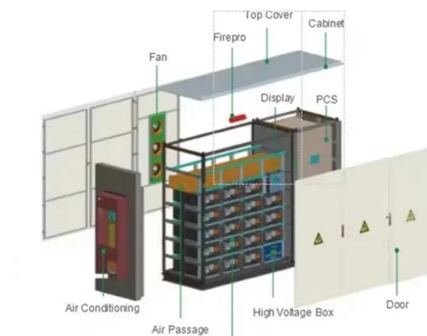


Cable tray bending and installation



AI Overview

Cable tray bends are installed using pre-fabricated fittings or on-site fabrication while maintaining minimum bend radius and proper support spacing.

Types of Bends

Cable trays can be bent in several ways to navigate obstacles or change direction:

- Horizontal bends: Used to change the direction of the tray along the same plane.
- Vertical bends: Used to change elevation or go over/under obstacles.
- Tee and cross fittings: Allow branching of cable trays to multiple directions. Bends can be achieved using pre-fabricated fittings or by on-site fabrication with appropriate tools and accessories .

Installation Steps

- Review Shop Drawings: Verify the layout, bend locations, and dimensions according to approved drawings .
- Material Preparation: Inspect trays, fittings, and accessories for damage and ensure they meet project specifications .
- Support Installation: Install hangers or supports at recommended intervals to maintain tray stability. Supports should be positioned near bends to prevent sagging .
- Bend Fabrication:
 - For wire mesh trays, bends can be formed on-site by carefully shaping the mesh to the required angle.
 - For solid or ventilated trays, use pre-fabricated elbows or bend the tray using mechanical tools while respecting the minimum bend radius to avoid cable damage...

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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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GUIDE CABLE TRAYS TECHNICAL

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These documents: ANSI/NEMA VE-1, Metal Cable Tray Systems; NEMA VE-2, Cable Tray Installation Guidelines; and NEMA FG-1,

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Flextray installation guide

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