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Cable trays for cable shafts



Overview

7 Types of Cable Trays: How to Choose the Right One Selecting the correct cable tray type is not arbitrary—it depends on a combination of cable characteris.

Key Takeaways

Cable trays in cable shafts are fixed using a combination of wall-mounted brackets, threaded rods, or channel support systems, ensuring proper load distribution, alignment, and compliance with safety standards.Methods of Fixing

1. Wall-Mounted Brackets: Cable trays are often attached to the walls of the shaft using brackets or cleats. These brackets are anchored to the structural walls with suitable fasteners such as expansion bolts or chemical anchors, depending on the wall material. The brackets support the tray along its length and maintain the required spacing to prevent sagging or excessive deflection . 2. Threaded Rods and Channel Supports: For vertical or multi-level installations, threaded rods can be suspended from the ceiling or intermediate supports, with channel systems (like strut channels) used to hold the trays. This method allows precise alignment and adjustment of the tray height within the shaft . 3. Direct Fixing to Structural Elements: In some cases, cable trays can be fixed directly to structural beams or columns using clamps or specialized mounting hardware. Care must be taken to avoid cutting or drilling into load-bearing elements without approval .

Key Considerations
• Load Capacity: Supports must be designed to carry the weight of the cables, the tray itself, and any future additions, including dynamic loads from short circuits or seismic activity .

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• Spacing of Supports: Typical support spacing depends on the tray type and load but generally ranges from 1.5 to 3 meters for horizontal runs. In shafts, closer spacing may be required to prevent deflection .

• Alignment and Clearance: Trays should be aligned vertically and horizontally to allow smooth cable installation and maintain minimum bend radii for cables .

• Safety and Standards Compliance: Installation must comply with standards such as BS EN 61537 for cable trays and BS 6946 for channel supports. Only competent personnel should perform the installation .

• Corrosion Protection: Depending on the environment, trays and supports may require galvanization, stainless steel, or other protective coatings to prevent corrosion .
Summary

Fixing cable trays in cable shafts involves securely anchoring trays using wall brackets, threaded rods, or channel supports, ensuring proper load distribution, alignment, and compliance with electrical installation standards. Proper spacing, load assessment, and corrosion protection are essential to maintain safety, durability, and functionality of the cable management system .

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The final drawings for a cable tray wiring system may be completed and sent out for bid or construction more quickly

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