

How to deal with cable trays without hangers



Overview

Whether you're building a commercial setup or upgrading an industrial plant, proper cable tray installation ensures neat wiring, safe access, and easy maintenance.

Key Takeaways

Yes, cable trays can be installed without hangers by using alternatives such as wall-mounted, floor-mounted, or Unistrut support systems. Alternative Support Methods Wall-mounted supports attach cable trays directly to walls, making them ideal for data centers or industrial environments where ceiling space is limited, and they utilize existing wall space efficiently. Floor-mounted brackets are used when ceiling or wall installation is not feasible, particularly in large industrial areas or corridors.

These supports allow cable trays to run along the floor while maintaining stability. Unistrut systems are versatile metal frameworks that can support cable trays from the ceiling, wall, or floor. They are strong, adjustable, and highly flexible, providing a reliable alternative to traditional hangers.

Vertical supports are used for cable trays that need to run between floors in multi-story buildings, keeping cables organized and secure during vertical transitions.

Key Considerations



Even when hangers are not used, proper support spacing is critical. Supports should be spaced according to the tray type and cable load to prevent sagging and ensure long-term reliability. Ladder-type trays, ventilated troughs, and mesh trays all require specific support intervals to maintain structural integrity.

Additionally, the choice of support method depends on environmental conditions, cable type, and installation requirements. For example, in corrosive or high-moisture environments, corrosion-resistant materials or non-conductive supports may be necessary.

Conclusion

While hangers are a common method for supporting cable trays, they are not strictly required. Wall-mounted, floor-mounted, Unistrut, and vertical support systems provide effective alternatives, allowing for flexible installation while maintaining safety, organization, and compliance with electrical standards. Proper planning and adherence to support spacing guidelines are essential for a reliable cable management system.

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