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How to fix the fixing wires on the inner side of the cable tray



Overview

With this growth in the use of tray, it is increasingly important that the tray and cable be installed within industry recognized practices.

Key Takeaways

Use cable tray accessories like clamps, ties, and separators to securely fix wires along the inner side of the tray while maintaining organization and safety.Steps to Properly Fix Wires

1. Inspect the Cable Tray and Wires Before securing wires, ensure the tray is properly installed, free of sagging, and supports the intended load. Check that wires are undamaged and correctly routed according to voltage and signal separation requirements . 2. Use Cable Tray Accessories

• Cable ties or Velcro straps: Secure bundles of wires to the tray's inner side without over-tightening, which can damage insulation .

• Cable clamps or brackets: Attach wires at intervals to prevent sagging and maintain proper spacing. Use accessories compatible with the tray material (steel, aluminum, PVC, or FRP) .

• Cable separators or dividers: Keep power and signal cables apart to reduce interference and improve airflow . 3. Positioning and Spacing

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• Fix wires at regular intervals, typically every 1–1.5 meters for horizontal runs, or as recommended by the manufacturer.

• Avoid sharp bends; maintain a minimum bend radius according to cable specifications.

• Ensure wires are not under tension and have some slack to accommodate thermal expansion or maintenance . 4. Safety and Compliance

• Cover exposed wires with tray covers if required.

• Maintain separation between high-voltage and low-voltage cables to prevent short circuits or interference .

• Use corrosion-resistant accessories in harsh environments, such as stainless steel or galvanized components . 5. Final Check

• Inspect all fixed wires for secure attachment and proper alignment.

• Verify that airflow is not obstructed and that cables are accessible for future maintenance . By following these steps and using the appropriate accessories, wires can be safely and neatly fixed on the inner side of a cable tray, reducing mechanical stress, preventing sagging, and ensuring compliance with electrical standards .

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