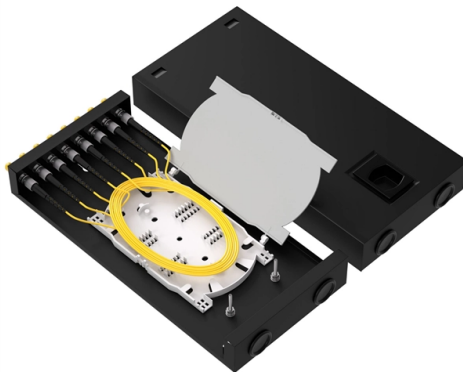


Cable tray separation support



Overview

Support spacing for cable trays must align with the manufacturer's instructions, as outlined in NEC 392.30 (A).

Key Takeaways

Cable trays with separation use dividers or specialized trays to segregate power and data cables, ensuring safety, compliance, and organized cable management.

Purpose of Cable Tray Separation

Cable tray dividers are designed to physically separate different types of cables, such as power and data, within the same tray system. This prevents electromagnetic interference, reduces the risk of damage, and ensures compliance with installation standards. Separation also improves accessibility for maintenance, inspection, and cleaning, particularly in complex industrial or commercial installations.

Types of Cable Tray Dividers

Premier Cable Tray Dividers: Available in various heights such as 25mm, 30mm, and 50mm, these pre-galvanised steel dividers bolt onto standard trays using M6 bolts. They are compatible with major brands like Unistrut, Unitrunk, Legrand, and Metsec.

Basket Tray Dividers: Specifically designed for wire basket trays, these dividers hook directly onto the tray and provide adjustable support with pre-drilled fixing slots, ensuring secure cable segregation.

Custom Cable Separation Trays: Some manufacturers, like SILTEC, offer trays that allow multiple cables to be laid in one layer with locking mechanisms to prevent movement, suitable for specialized applications such as food industry machinery.

Key Features

Material: Pre-galvanised steel for durability and corrosion resistance. **Dimensions:** Common lengths are 3 meters, with widths and heights varying (e.g., 23mm width x 25–50mm height). **Installation:** Simple bolt-on or hook-on systems with pre-punched holes for quick setup.

Compatibility: Works with most standard cable tray systems, including mechanical and basket types. **Functionality:** Provides clear separation of services, reduces interference, and organizes cables for easier maintenance.

Benefits

Reduces electromagnetic interference between power and data cables. Enhances safety by preventing accidental contact or damage. Simplifies maintenance and inspection.

Ensures compliance with electrical installation standards. Supports professional and organized cable management in commercial, industrial, and data installations. Using cable tray dividers or specialized separation trays is an effective solution for organized, safe, and compliant cable routing, making them essential for modern electrical and data infrastructure projects.

Article Content

Cable Tray Installation Rules (NEC 392) – Electrical Trader

Support spacing for cable trays must align with the manufacturer's instructions, as outlined in NEC 392.30 (A). Generally, standard trays require

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