

Article Overview

Cable tray diversion is achieved using dividers or barrier systems to separate and organize cables within a tray, preventing interference and simplifying maintenance.

Purpose of Cable Tray Diversion

Cable tray dividers are used to separate different types of cables, such as power and data lines, within a single tray. This helps prevent electromagnetic interference (EMI), reduces the risk of damage, and makes maintenance easier by keeping cables organized and accessible. Diversion also allows for efficient routing in complex installations like data centers, industrial facilities, and commercial buildings.

Types of Cable Tray Dividers

- o Straight Dividers: Simple strips or panels that split a tray into two or more pathways for different cable types.
- o Barrier Dividers: Designed to provide an EMI barrier between power and data cables, often used in sensitive electronic environments.
- o Customizable Dividers: Snap-on or field-fabricated dividers that can be cut or adjusted to fit curves, turns, or varying tray widths.

Materials and Finishes

Cable tray dividers are available in stainless steel, pre-galvanized steel, or zinc-plated steel, depending on environmental requirements. Stainless steel is preferred in washdown or corrosive environments, while galvanized or zinc-plated steel is suitable for general indoor or industrial use.

Installation Guidelines

- o Dividers are typically attached using push pins, screws, or snap-on mechanisms depending on the tray system.
- o For wire mesh trays, support should be added every five feet to maintain structural integrity.
- o When possible, power and data cables should be run in separate trays; if not, dividers provide the necessary separation to reduce EMI.
- o Dividers can be field-fabricated with tin snips to accommodate changes in radius or level.

Applications

Cable tray diversion is widely used in:



Cable tray diversion

- o Data centers and network closets for organized cable management .
- o Industrial and commercial buildings including hospitals, schools, and convention centers .
- o Environments requiring EMI protection, such as control rooms or sensitive electronic installations .

Benefits

- o Reduces cable congestion and tangling.
- o Provides EMI protection between power and data lines.
- o Simplifies maintenance and troubleshooting.
- o Enhances safety and compliance with electrical standards. By selecting the appropriate divider type, material, and installation method, cable tray diversion ensures a well-organized, safe, and efficient cable management system .

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Grounding and bonding of cable trays There are three wiring options for providing an EGC in

Submittals for cable ladder and tray Eaton's submittal builder tool for B-Line series cable ladder and tray allows you to easily filter,

Cable Tray, Divider Strip, 2 Inch, COT30, For cable separation within a single tray.

Compare cable tray, basket, ladder & trunking systems. Learn the pros, cons, and best uses for each type, with links to our UK

Cable tray is alternatives to wire ways and electrical conduits, which completely enclose

Straight tray dividers are available for cable segregation and separation purposes along the length of the

Cable Tray Divider is used to divide the cable tray into two cable pathways. Helps to organize and divide different cables for easier

Eaton

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system.

Cable tray diversion

Cable trays are a part of

When it comes to powering, automating and protecting facilities?from factories and petrochemical plants to data

Explore the types of cable trays, their advantages, applications, and standard sizes. Learn how they improve cable

Learn how to install cable trays correctly. Get the ultimate step-by-step guide on setting up a seamless and reliable

Cable tray / raceway is integral part of any cable management system. Selection of cable tray is very critical because

Different types of cable trays offer key benefits, optimizing cable management and enhancing efficiency in electrical

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