

How to separate the cable tray assembly



Article Overview

Yes, cable trays can be separated either by using physical separators within a single tray or by installing modular tray sections to segregate different types of cables.

Separation of Cables Within a Tray

Cable trays often carry both high-power and low-power cables. To prevent electromagnetic interference (EMI), these cables must be separated. This can be achieved using solid, non-combustible barriers or separators made from the same material as the tray. The height of the separator should match the tray's loading depth to ensure proper segregation and maintain safety standards . In some cases, if only MC-type cables rated 600 volts or less are installed together, a separator may not be required .

Physical Separation of Tray Sections

Cable trays are modular and can be connected or disconnected using splice plates, bolted connections, clamps, or quick-connect systems. These methods allow sections of a tray to be separated for maintenance, expansion, or rerouting of cables. Proper connections are essential to maintain system stability, load support, and grounding continuity . Modular separation also facilitates future expansion, as a minimum of 30% extra capacity is recommended when planning for additional cables .

Best Practices

- Use the correct separator type: Match the material and height to the tray for effective EMI shielding.
- Maintain NEC compliance: Ensure separation distances and fill limits are followed to prevent overheating and maintain accessibility .

Article Content

Cable Tray Institute

The Cable Tray Institute (CTI) was founded in 1991 to support the cable tray industry by engaging in research, development,

INSTALLATION GUIDE

When a separate bonding conductor is required to supplement the bonding offered by a ferrous metallic tray system it must be

Assembly Guide

Guide for making bends, tees, crosses, risers and reducers from straight sections of wire basket cable trays live at the project.

Cable Tray SHIB NAL

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

Innovative, Flexible, Field-Configurable Wire Basket Tray Solutions

To properly bond Hubbell ® painted cable tray, remove the plastic masking device from the trays on each end (exposing the pre

Cable Tray Technical Guide A practical guide to product selection and ...

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

B-Line series Cable Tray Design Considerations

Our wind certification report provides you with list of acceptable B-Line series cable tray supports, fittings and covers based off of the

Installation Guide Wire Basket Cable Trays

Always use side-action bolt cutters. Angle all cuts away from the new end. Cut each wire with one clean cut whenever possible.

Best Practice Guide to Cable Ladder and Cable Tray Systems

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the

Cable Tray Dividers

The Snap Track cable tray dividers & barrier cable systems are used to separate power & data cables within a Snap Track tray.

Cable Tray Ladder Trunking Wire Basket Installation Guidelines

What Are Cable Trays? An assembly of units/sections with associated fittings that form a rigid structural system to securely fasten or

How to install a separation plate, separation plate support and joint ...

Separation plate support APT is used to attach separation plate AP to the cable tray. Separation plate AP is used to separate low

Cable tray manual

Instead of large conduits, cable channel may be used very effectively to support cable drops from the cable tray run to the equipment

Cable Tray Installation Procedure Guide

It describes inspecting and storing cable trays upon receipt, installing trays flat or vertically, fixing trays to structures, designing trays

Exploring Cable Tray Types and Applications

Often unheralded, cable trays play a vital role in tray cable installations throughout industrial, commercial, and residential projects.

Cable tray

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

Contact Us

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