

How to ground a suspended cable tray



Article Overview

A suspended cable tray should be grounded by connecting it to the facility's grounding system using bonding jumpers or a continuous grounding conductor, ensuring all tray sections are electrically connected and compliant with NEC requirements.

Steps to Ground a Suspended Cable Tray

1. Inspect and Plan Before Installation Before installing cables, verify that the tray system is designed for grounding and that all sections are compatible with bonding. Grounding inspection is easier and safer when the tray is empty, allowing you to check continuity and connections before energizing the system . 2. Choose the Grounding Method There are three main options for providing an Equipment Grounding Conductor (EGC) in a cable tray system:

- Use an EGC conductor in or on the cable tray.
- Use each multi-conductor cable's individual EGC.
- Use the metal cable tray itself as the EGC, if it meets conductivity and strength requirements . 3. Bond Tray Sections Together If using a separate EGC, bond it to each or alternate tray sections using grounding clamps, bolts, or welds. This ensures mechanical stability and electrical continuity, preventing the EGC from being displaced under fault currents . For aluminum trays, avoid bare copper conductors to prevent galvanic corrosion; use insulated conductors with insulation removed only at bonding points and tin- or zinc-plated connectors . 4. Connect to the Facility Grounding System Run a continuous grounding conductor from the tray system to the main grounding bus or electrode. Ensure the conductor is sized according to NEC Ta...

Article Content

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

Grounding and Bonding of Cable Trays | PDF | Electrical Wiring

If a wire mesh cable tray is supporting cable with a built-in equipment grounding conductor or control or signal cables, then the tray

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 Grounding: Power, Instrumentation, and

Cable tray systems are not required to be mechanically continuous, but shall be electrically continuous. Cable trays are also bonded

Cable Tray Installation and Cable Handling Method Statement

All cable tray conduit drop-outs should be bonded to the cable tray as shown in following figure or by using a grounding bushing on

Cable Tray Supports & Clamps

Type GBM high copper alloy cable tray clamps hold a single through cable directly on the cable tray surface. Grounding clamps have

Practices for grounding and bonding of cable trays

If a wire mesh cable tray is supporting cable with a built-in equipment grounding conductor or control or signal cables, then the tray

Practices For Grounding and Bonding of Cable Trays

Metallic cable trays must be grounded and can serve as an equipment grounding conductor if the metal cross-sectional area meets

Cable Tray Grounding: Power, Instrumentation, and Telecommunications

Where cable tray systems contain only signal and communication circuits that operate at low energy levels, power grounding per

Grounding cable trays: requirements, norms, instructions

Metalwork cable trays Although the trays are interconnected by means of bolts, due to which they have a continuous connection of

Equipment Grounding Conductors for Cable Tray Systems

The intent of this article is to review grounding practices for cable tray wiring systems. The Equipment Grounding Conductors are the

CABLE TRAY SYSTEMS GUIDE

Steel Ladder System Hubbell's NEXTFRAME® Ladder Tray is the effective and widely used cable runway that supports and delivers

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

This document is for informational purposes only. Specifications subject to change without notice.

