

# Can cable trays be used as lightning protection strips



## Overview

Where cable tray systems contain only signal and communication circuits that operate at low energy levels, power grounding per NEC Section 318-7 is not appropriate, but cable tray grounding for lightning protection, noise, and electromagnetic interference is necessary. The purpose of a cable tray system is to support, route, and protect cable as part of the cable management system. Through NEMA and the Cable Tray Institute numerous articles, standards, and other general guidance can be found regarding the proper use and installation of cable tray systems. The. Cable trays can be used as the only equipment grounding conductor (EGC), but they must meet certain criteria (only in qualifying facilities, minimum cross-sectional areas, U. classified as to suitability, etc. Because of its closed design, this type of tray should e used in applications where there is minimal risk of heat generation and buildup.



## Article Content

### Cable Conductor and Bonding Strip

Cable Conductor and Bonding Strip IPC manufactures a full range of copper and aluminum conductor cable and secondary bonding

### Cable Tray Questions | Cable Tray Institute

Metal cable trays can be U.L. classified with regard to suitability for use as an Equipment Grounding Conductor. Compliance with

### TECHNICAL HANDBOOK

The lightning class determines the minimum lightning protection level (LPL) that is used within the lightning protection design.

### Fundamentals of Lightning Protection Systems

In this lesson, you will learn the fundamentals of how lightning protection systems function. The intent of the lesson is not to discuss

### Lightning Protection Grounding And Surge Control

In industrial three phase facilities, lightning is an impulse current distribution event, not a structural protection event. When tens of

### Lightning Safety

Note that lightning protection systems do not prevent lightning from striking the structure, but rather intercept a lightning strike,

### SECTION 1

Lightning current arresters (Class I): For protection of installations against lightning current due to direct or close lightning strikes to

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

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

### Lightning Protection Application Guide

The need for certified lightning protection is increasing, and this guide looks at the requirements that support a safer, code-compliant

### Introduction to lightning protection

When designing a structural lightning protection system using the Faraday Cage principle advocated by IEC/BS EN 62305, it is

### Safely Installing, Maintaining and Inspecting Cable Trays

Overloading cable trays can lead to a breakdown of the tray, its connecting points, and/or supports, causing hazards to persons

## Lightning and Fault Suppression

Lightning and Fault Suppression Lightning has the ability to destroy a multi-million dollar transformer or take out millions of tiny

How to apply structural lightning protection

How to apply structural lightning protection This illustration is designed to demonstrate the main aspects and individual components

Microsoft Word

Caution in Using Cable Tray Covers Outdoors Improperly secured covers on outdoor cable trays can cause a serious hazard in

## Conductors

Conductors - Lightning Protection - Safety The actual conductor is by far the largest and most significant component of any structural

## Lightning Rods

Lightning protection may also be needed for gas piping. Any lightning protection system should follow the national safety standards

## 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

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In industrial facilities where maintenance and supervision conditions ensure that only qualified persons service the installation, cable

Practices for grounding and bonding of cable trays

If the maximum ampere rating of the cable tray is not sufficient for the protective device to be used, the cable tray cannot be used as

CTI Technical Bulletin

Cable tray rated cables are available for any application and any environment, for instance, Tray Cable (type TC) can be used in

## Building protection system

The 3 types of lightning protection system Three types of building protection are used: The lightning rod (simple rod or

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