

Low-voltage cable trays placed on the ground

Overview

All metallic cable trays shall be grounded as required in Article 250. The EGC is the most important conductor in an electrical system as its function is electrical. Cable tray may be used as the Equipment Grounding Conductor (EGC) in any installation where qualified persons will service the installed cable tray system. If you take what UL states literally, ANY cut to tray (ladder or wire) would cause a loss of UL Classification. The Equipment Grounding Conductor is the electrical circuit's safety conductor. There are three wiring installations without notice. All illustrations, descriptions and technical information included in this document are provided as indications and can cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management, recommendations mentioned. Can someone explain to me or provide a code reference that thoroughly explains the proper way to ground low voltage telecom cable tray?

I'm having a hard time interpreting whether or not each section of tray whether it be a 10' or 2' section needs a split bolt connection to the ground wire.



Article Content

Feb 19, 2026

Cable tray ground bonding | Information by Electrical Professionals for ...

If the low voltage system is not required to be grounded by Part II, or Part VIII of Article 250, the conduit stubs and cable tray are not required to be grounded.

Oct 15, 2025

Cable Tray Grounding: Electrical and Non-Power Conductors

In general, when routing electrical conductors, the cable tray systems are in the path of ground fault currents. The cable tray system is considered to be a non-current carrying parts of ...

May 24, 2026

Cable Tray Grounding: Power, Instrumentation, and

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 ...

Jun 22, 2026

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 or device being serviced and is ideal for cable tray runs involving a ...

Jan 17, 2026

Understanding Cable Tray Grounding: A Comprehensive Guide

This comprehensive guide delves into the complexities of cable tray grounding, offering in-depth insights into its importance, principles, design considerations, installation best practices, and ...

May 12, 2026

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 most important conductors in the electrical systems. The Equipment ...

Dec 07, 2025

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

Cable tray installed in a hazardous location must contain only those cables that are appropriate for this type of environment as defined in Chapter 5 of the NEC.

Sep 28, 2025

Practices for grounding and bonding of cable trays

All metallic cable trays shall be grounded as required in Article 250.96 regardless of whether or not the cable tray is being used as an equipment grounding conductor (EGC). The EGC ...

Sep 25, 2025

NEC Standards for Cable Trays: Grounding, Fill Capacity

This article provides a comprehensive framework that governs various aspects of cable tray installations, including the types of cables that are deemed acceptable for use, requirements for ...

Jun 14, 2026

GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules of Canadian Electrical Code, Part I and the National Electrical Code®

Jul 04, 2026

Bonding and Grounding wire mesh cable tray.

These installations must be bonded per NEC 392.7(A) which states: "Metallic cable trays that support electrical conductors shall be grounded as required for conductor enclosures in accordance with ...

Nov 22, 2025

Understanding Cable Tray Grounding: A ...

This comprehensive guide delves into the complexities of cable tray grounding, offering in-depth insights into its importance, principles, design ...

May 20, 2026

Properly bonding/grounding of telecommunications cable tray

metallic cable trays are generally listed as being suitable for grounding. Generally the mechanism that connects the sections together is an adequate bond according to UL.

Contact Us

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