

Grounding Requirements for Cable Trays and Conduits



Overview

The NEC requirements for cable tray grounding are found in NEC Sections 392. 60(A) Marked as "Classified by U. 96 with bolted mechanical connectors or bonding jumpers. Cable tray may be used as the Equipment Grounding Conductor (EGC) in any installation where qualified persons will service the installed cable tray system. The metal in cable trays may be used as the EGC as per the limitations. It is essential that the grounding of cable tray systems, including the cables in the tray systems, is inspected for compliance with the grounding requirements in the National Electrical Code (NEC) BEFORE the cabling in the tray is energized and BEFORE cable is installed. If cable is installed. Grounding is one of the most critical NEC considerations when installing metallic cable trays. To comply with code requirements and ensure system safety, metallic trays must be electrically continuous, properly bonded at all splice points, and securely connected to the building's grounding system.



Article Content

Dec 29, 2025

A Guide to Installing and Supporting Electrical Cable Trays

A professional guide to installing electrical cable tray systems per NEC Article 392. Covers support, securing cables, and fill calculations.

Aug 14, 2025

NEC Article 392 Guide: Ensuring Compliance for Cable Tray Systems

Master NEC Article 392 with our comprehensive guide. Learn essential cable tray requirements for installation, grounding, and fill capacity to ensure full electrical ...

Jul 20, 2025

SPECIFICATION STANDARD Grounding and Bonding for ...

Bonding and grounding all conduits, cable trays, enclosures, cables, protectors, and other conductive infrastructure as per the requirements of the NEC and TIA 607 to main building ground.

Jan 02, 2026

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 ...

Apr 11, 2026

Explaining NEC Article 250 on Grounding and Bonding

Service Entrance Cables (SER and SEU Cables): Article 250 requires that service entrance cables are properly grounded and bonded to ensure a safe electrical path for fault currents. ...

Mar 18, 2026

Grounding Inspection of Steel and Aluminum Cable Tray Systems

Steel and aluminum cable tray systems are excellent equipment grounding conductors if they are properly designed, specified, installed, and inspected. The NEC requirements for cable tray ...

Jul 17, 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 ...

Aug 10, 2025

Bonding and Grounding wire mesh cable tray.

“Metallic cable trays that support electrical conductors shall be grounded as required for conductor enclosures in accordance with 250.96 and part IV of Article 250.”

Feb 09, 2026

ARTICLE 250 GROUNDING AND BONDING

Metal parts of electrical raceways, cables, enclosures, or equipment must be bonded together in a manner that creates a low-impedance path for ground-fault current to facilitate the operation of the ...

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

Website: <https://professionistidelverde.it>

Email: info@professionistidelverde.it

Phone: +49 176 4829 3715

Address: Friedrichstraße 123, 10117 Berlin, Germany

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