

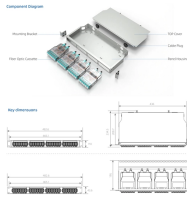
# Grounding reinforcement of aluminum alloy cable trays



## Overview

Steel trays > 30 m and aluminum alloy trays > 15 m shall be provided with expansion joints. At building deformation joints: use flexible braided copper wire  $\geq 16 \text{ mm}^2$  to maintain grounding continuity. 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. For SI units: one square inch = 645 square millimeters. Total cross-sectional area of both side rails for ladder or trough-type cable trays: or the minimum cross-sectional area of metal in channel-type cable trays or cable trays of. I have a short aluminum cable tray (~1m) supporting an overhead SOOW 6/4 cable (3P+GND).

## Grounding reinforcement of aluminum alloy cable trays



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 ...



Learn how to verify the safety of your electrical systems with our guide on testing cable tray grounding, ensuring full compliance and effective lightning protection.



“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.”



Regardless of which type of equipment grounding system used, cable tray systems must be electrically continuous and effectively bonded and grounded per Section 250-75 in the NEC. The ...



This makes the tray either a supplemental grounding conductor or a structural ground depending on how you bond it. IEEE identifies 6 different types of grounding.



— Blackburn cable tray ground clamp ... For more information on grounding and bonding cable tray, refer to NEMA VE 2 cable tray installation guidelines. \* See installation restrictions in NEC Section ...



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 ...



Steel, hot-dip galvanized, stainless steel, and aluminum alloy trays shall be reliably connected to the PE protective conductor and bonded equipotentially to prevent electric shock.



A bare copper equipment grounding conductor should not be placed in an aluminum cable tray due to the potential for electrolytic corrosion of the aluminum cable tray in a moist environment.

## Contact Us

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