How to label cable tray specifications



Overview

Common types of labels include circuit identification labels, which indicate the specific circuits within the panel, and warning labels that highlight potential hazards such as high voltage.

Key Takeaways

Cable trays containing conductors rated over 600 volts must be labelled with “DANGER — HIGH VOLTAGE — KEEP AWAY” at intervals not exceeding 10 feet, following NEC and ANSI guidelines.

Key Labelling Requirements

Voltage Thresholds: Cable trays that carry conductors rated over 600 volts require hazard markings. Trays with conductors rated 600 volts or less do not require this specific danger label. Label Wording and Visibility: The label must read “DANGER — HIGH VOLTAGE — KEEP AWAY” and be permanent, legible, and placed in a readily visible position on all applicable cable trays.

Labels cannot be handwritten except for variable information that changes over time. Spacing: Warning labels must be placed at intervals not exceeding 3 meters (10 feet) along the cable tray. Design Compliance: Labels must comply with NEC 110.

21(B) and follow ANSI Z535. 4-2011 standards for product safety signs and labels. This includes specifications for font type and size, color, capitalization, symbols, and the order of information.

Exceptions: In industrial establishments, if the cable tray is inaccessible and maintenance conditions ensure that only qualified personnel service the installation, labels may be placed where necessary to ensure safe operation and maintenance.

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Additional Considerations

Material and Environment: While labelling is primarily a safety requirement, cable tray materials (metallic or nonmetallic) and environmental conditions may influence label durability and placement. Labels should withstand environmental factors such as heat, moisture, and chemical exposure. International Standards: IEC 61537 provides guidance on cable tray systems, including installation and safety considerations, which may complement NEC requirements in international projects.

Maintenance and Inspection: Labels should be checked periodically to ensure they remain legible and intact, especially in high-traffic or industrial environments. By following these requirements, electrical installations maintain compliance with safety codes, reduce the risk of electrical hazards, and ensure that personnel are adequately warned of high-voltage conductors within cable trays.

Article Content

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®

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

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a practical reference regarding cable tray

Electrical Identification Labels

Common types of labels include circuit identification labels, which indicate the specific circuits within the panel, and warning labels that highlight potential hazards such as high voltage.

Full cable tray systems specification document

B. Product Data: Submit manufacturer''s data on cable tray including, but not limited to, types, materials, finishes, rung spacings, inside depths and fitting radii. For side rails and rungs, submit cross

Cable tray manual

These documents: ANSI/NEMA VE-1, Metal Cable Tray Systems; NEMA VE-2, Cable Tray Installation Guidelines; and NEMA FG-1, Non Metallic Cable Tray Systems, are an excellent industry resource in

Cable Tray Design and Standards Guide

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The document outlines codes and standards that must be followed for design and construction of cable trays and their components. Standards listed include those for materials, rolling and cutting

CABLE TRAY SYSTEMS GUIDE

The design and cost of the cable tray is greatly affected by this designation. In order to determine the most appropriate and economical system, a class should be selected that reflects the actual total

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This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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