Safety signs for high-voltage cable trays



Overview

392.18 (H) Cable Trays. Marking. Cable trays containing conductors rated over 600 volts shall have a permanent, legible warning notice carrying the wording.

Key Takeaways

Cable trays carrying conductors over 600 volts must be marked with “DANGER — HIGH VOLTAGE — KEEP AWAY” signs at intervals not exceeding 10 feet, following NEC and ANSI standards.

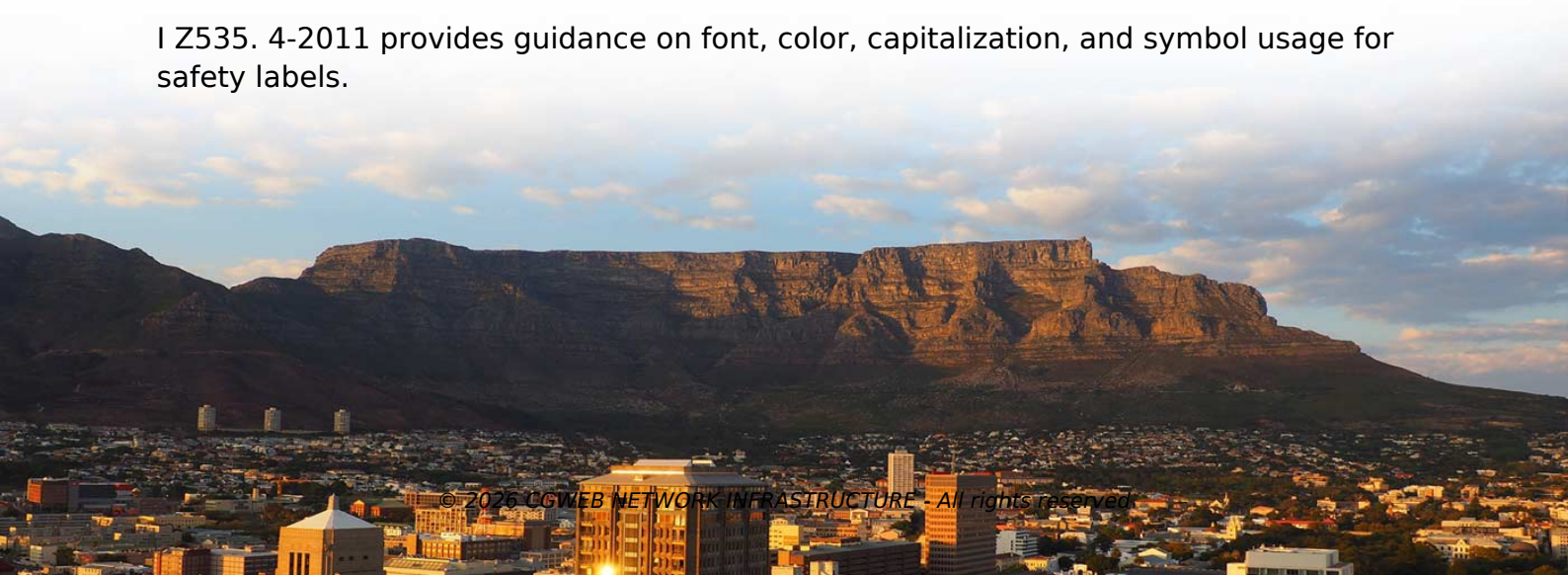
Regulatory Requirements

According to NEC 392. 18(H), any cable tray containing conductors operating over 600 volts must have permanent, legible warning signs stating: “DANGER — HIGH VOLTAGE — KEEP AWAY”. These signs must be placed in readily visible locations along the cable tray, with a maximum spacing of 10 feet (3 meters).

Labels must comply with NEC 110. 21(B), which requires effective hazard communication using proper words, colors, and symbols. Handwritten labels are not permitted except for variable information.

ANS

I Z535. 4-2011 provides guidance on font, color, capitalization, and symbol usage for safety labels.



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Placement and Visibility

Signs should be installed at eye level or in locations where they are clearly visible to personnel. In industrial settings where only qualified personnel have access, signs may be placed where necessary to ensure safe maintenance and operation. Both indoor and outdoor cable trays require durable signage resistant to abrasion, chemicals, and UV exposure for long-term visibility.

Materials and DesignHigh-voltage safety signs are typically made from aluminum, high-impact plastic, or adhesive vinyl. Key features include: High-contrast colors (yellow or red backgrounds with black text)Reflective or photoluminescent options for low-light areasBilingual text if required for workforce communicationDurable adhesives for permanent installation on cable trays.

Commercial Options

Several manufacturers provide NEC-compliant signs specifically for high-voltage cable trays: Panduit PPS0410D79-NEC: 4”x10” label, abrasion, chemical, and UV resistant, suitable for indoor/outdoor use. Emedco High Voltage Signs: Available in multiple sizes, reflective or photoluminescent, bilingual options, and designed for industrial environments. SafetySign.com Electrical Warning Signs: OSHA and ANSI compliant, heavy-duty materials, suitable for panels, transformers, and cable trays.

Best Practices

Ensure all cable trays over 600 volts are marked consistently. Use standardized wording and symbols to avoid confusion. Inspect signs regularly for damage or fading and replace as needed.

Combine signage with training and restricted access to enhance safety. By following these guidelines, facilities can maintain compliance with NEC and OSHA standards while protecting personnel from high-voltage hazards.

Article Content

392.18 (H) Cable Trays. Marking.

Cable trays containing conductors rated over 600 volts shall have a permanent, legible warning notice carrying the wording “DANGER — HIGH VOLTAGE — KEEP AWAY” placed in a readily visible

High voltage? You need warning labels.

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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.

Danger High Voltage Signs | OSHA Compliant Safety

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High Voltage Signs | Danger Electrical Hazard Warning

Shop high voltage signs & electrical danger signs. OSHA & NFPA 70E-compliant. Durable aluminum, plastic & adhesive labels for panels, switchgear & electrical

High Voltage Labels

What makes high voltage labels compliant with industry standards? They often meet ANSI and OSHA requirements, using standardized colors, icons, and fonts to ensure clarity and visibility.

Electrical Safety Signs – High Voltage, Arc Flash & Lockout Warnings

Prevent electrical accidents with bold, compliant Electrical Safety Signs. Mark high voltage areas, shock hazards, and lockout points using OSHA, NFPA 70E, and ANSI-approved signage built to last.

High Voltage Warning Signs: Complete Guide to Electrical Safety

Learn how high voltage warning signs improve electrical safety, prevent accidents, support compliance, and protect workers in substations, factories, and industrial facilities.

High Voltage Signs

These informative notices are posted near high voltage equipment and machinery to discourage unauthorized entry to the area and help prevent electrocution injuries or death.

High Voltage Signs

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High Voltage Signs

High voltage signs bring attention to voltage hazards that may not always be visible or obvious. These informative notices are posted near high voltage equipment and machinery to discourage

Danger High Voltage

Alert employees of high voltage that could cause serious injury by posting Electrical Safety Signs and Labels. Order Danger High Voltage Labels

Danger High Voltage Sign | Safety Signs UK

Danger high voltage sign for electrical hazard areas. Ideal for substations and plant rooms to improve safety and prevent serious injury.

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