

RIVO MULTITRADE OPTICAL SYSTEMS

Does CT indicate a cable tray or a wire trough



Overview

Understanding the "CT" Marks on single conductors for use in Cable Now, let's examine the standard for the wire/conductors being utilized as single conduct.

Key Takeaways

"CT" indicates that a wire or cable is rated for use in a cable tray, not a wire trough.

Definition and Usage

In electrical installations, CT stands for "Cable Tray". It is commonly used to mark single-conductor cables, such as XHHW-2, that are suitable for installation in cable trays according to the National Electrical Code (NEC) Article 392 . The marking may appear as "CT" or "FOR CT USE" on the conductor. This designation ensures that the cable has passed specific flame and vertical-tray tests, making it safe for use in industrial or commercial cable tray systems .

Standards and Requirements

For a conductor to be marked CT, it must meet the following criteria:

- Size: Circuit conductors must be 1/0 AWG or larger, and equipment grounding conductors must be 4 AWG or larger .
- Flame Testing: The cable must pass the vertical-tray flame test (Method 1) or the FT4 vertical-tray flame test (Method 2) under UL 2556 standards .

- **Optional Marking:** Not all XHHW-2 or similar conductors are marked CT; the marking is optional under UL 44 and UL 83, so it is important to confirm with the supplier if CT-rated cable is required for a project .

Key Distinction

CT does not refer to a wire trough. A wire trough is a different type of raceway used for routing and protecting cables, but the CT marking specifically indicates compatibility with cable trays, which are open or ladder-like structures designed to support and organize multiple conductors .

Practical Implications

When specifying or purchasing cables for a project:

- Always check for the CT marking if the installation involves cable trays.
- Ensure the cable meets the size and flame-test requirements for safety and code compliance.
- Understand that CT-rated cables are designed for vertical and horizontal tray installations, providing fire resistance and mechanical protection .

In summary, CT on a wire or cable confirms it is suitable for cable tray installations, not wire troughs, and compliance with NEC and UL standards ensures safe and code-compliant use.

Article Content

Understanding the "CT" Marks on single conductors for use in Cable

Now, let's examine the standard for the wire/conductors being utilized as single conductor cables for "CT" use under

CT versus Non-CT Cables: Do you really know what cable you

The NEC (National Electrical Code) Article 392 recognizes single conductor cables for use in cable trays where the

CT Marked Cable Flyer

The NEC (National Electrical Code) Article 392 recognizes single conductor cables for use in cable trays where the

What Do All the Electrical Wire and Cable Acronyms Mean?

The letters you see describing wires may not mean much at first glance, but they can tell a lot about their attributes and how to use

Installation of TC and "CT use" Cable

If Cable is marked with "CT use" without "TC or TC-ER", I would like to know the general Wiring method in NEC. As I

Cables Allowed in NEC Tray Applications

This test involves loading multiple cables in a vertical section of cable tray and igniting the cable at the base of the tray. The cable

Explaining NEC Article 392 on Cable Trays

Cables and conductors must be secured to the cable tray at intervals according to installation instructions. For non

690.31 (C) (2) Cable Tray.

Wire mesh cable trays are often used in rooftop PV cable installations, and it is likely that this new code language will be expanded to

Cable Tray Fill Rules (NEC 392)

Data centers almost exclusively use cable tray (usually wire mesh or ladder type) for both power and data cables

Types of Cable Typically Used in Cable Tray

Allowed installations include cable trays, raceways, and outdoor locations where supported by a messenger wire. Type TC cable is

When is a Cable Tray a Raceway? | Information by Electrical ...

Regardless of whether a cable tray is a cable tray, if it fulfills all of the requirements of a wireway, it can be used as a

Cables Allowed in NEC Tray Applications

Cables Allowed in NEC Tray Applications Cable tray is one of the most common methods of supporting wire and cable. There are

Wireways Selection Guide: Types, Features, Applications | GlobalSpec

The high cost of manufacturing and installing wireways limits their use to small sections of cable management systems, while most

Wire and Cable Marking and Application Guide

The Wire and Cable Marking and Application Guide explains markings on UL Certified, Listed, Classified, or Verified

FAQ | Cable Tray Institute

Per the National Electrical Code, a cable tray system is “a unit or assembly of units or sections and associated fittings forming a rigid

Tray Cable Type TC

Tray cable, Type TC is an approved wiring method in the NEC found in article 336. It is an efficient method of installing

What Cable Tray Does Your Machine Need?

Cable trays are designed to solve electrical cable distribution around automation and within the manufacturing facility.

Cable Tray Fill Rules (NEC 392)

Cable tray is the preferred wiring method for industrial facilities, data centers, and large commercial buildings where

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