

Galvanized cable type for cable trays



Overview

Cable tray installed in a hazardous location must contain only those cables that are appropriate for this type of environment as defined in Chapter 5 of the NEC.

Key Takeaways

Type TC (Tray Cable) and its variants, such as TC-ER and ITC, are commonly used in galvanized cable trays for power, control, and instrumentation circuits.

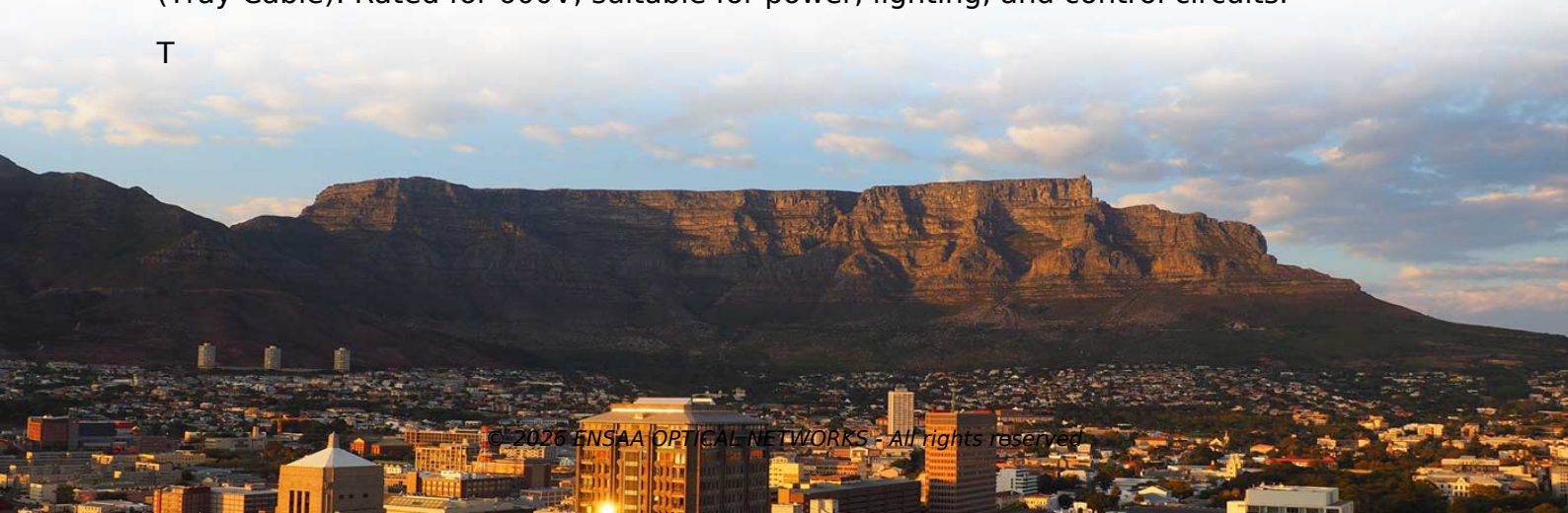
Overview of Galvanized Cable Trays

Galvanized cable trays are metal support systems designed to route, protect, and organize electrical cables in industrial, commercial, and data center installations. They are made from pre-galvanized steel, GI (galvanized iron), or hot-dip galvanized (HDG) steel, providing corrosion resistance and mechanical strength. These trays can be perforated, solid-bottom, or ladder-style, depending on the application and cable type.

Suitable Cable Types

Tray cables are specifically designed for installation in cable trays, including galvanized trays, and are engineered to withstand mechanical stress, moisture, oil, sunlight, and chemical exposure. The most commonly used types include: Type TC (Tray Cable): Rated for 600V, suitable for power, lighting, and control circuits.

T



C cables have multiple insulated conductors under a non-metallic jacket and can be installed in cable trays, raceways, or supported by messenger wires. Variants include: VNTC (Vinyl Nylon Tray Cable): Cost-effective, widely used for industrial control and power circuits.

XHH

W (Cross-linked polyethylene High Heat-resistant Water-resistant Tray Cable): Offers higher heat and moisture resistance. TC-ER (Tray Cable – Exposed Run): Designed for short exposed runs (up to 6 feet) between the tray and equipment, with impact- and crush-resistant jacketing.

IT

C (Instrumentation Tray Cable): Used for low-voltage control, signal, and instrumentation circuits, often shielded to reduce electrical noise.

PLT

C (Power Limited Tray Cable): Suitable for Class 2 and Class 3 circuits, such as alarm, intercom, and building automation systems.

Installation Considerations

When installing tray cables in galvanized trays: Ensure cables are secured at intervals (typically every 6 feet for TC cables) to prevent sagging or mechanical damage. Select cables with appropriate voltage rating (300V or 600V) based on the application. For outdoor or corrosive environments, consider UV-resistant or moisture-resistant jacketed cables.

Shielded cables (like ITC) are recommended for sensitive instrumentation or data circuits to minimize interference.

Summary

For galvanized cable trays, Type TC tray cables and their variants (TC-ER, ITC, PLTC) are the standard choice. They provide durability, compliance with NEC standards, and protection against environmental and mechanical stresses, making them suitable for power, control, and instrumentation applications in industrial and commercial installations.

Article Content

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Cable tray installed in a hazardous location must contain only those cables that are appropriate for this type of environment as defined in Chapter 5 of the NEC.

What are the main types of galvanized cable tray?

Learn the main types of galvanized cable trays, including HDG cable tray, GI cable tray and Pre-galvanized cable tray.

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®

Galvanized Cable Tray: Durable Industrial Solutions

Discover galvanized cable trays for industrial wiring, with installation tips, load data, and corrosion-resistant solutions for long-lasting cable management.

Types of Cable Trays: Ladder, Perforated, Basket, Solid

Cable trays support insulated electrical cables in industrial and commercial settings. There are several types of cable trays, including ladder,

Ultimate Guide To Choosing Right Galvanized Cable Tray

Galvanized steel is inherently non-combustible, making galvanized cable trays a safer choice for routing cables in areas with fire hazards. The tray design can

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Learn how to choose the right galvanized cable tray for safe, efficient cable management: compliance, load capacity, and installation tips.

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We offer a wide range of cable tray systems to support tubing, electrical cables and instrumentation. Our cable trays are produced in fit for purpose materials like

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Why Galvanized Cable Tray is the Best Option for Industrial Applications

Discover why galvanized cable trays are ideal for industrial use, focusing on corrosion resistance, types, and key benefits.

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