Metal partition for trough-type cable trays



Overview

Cable tray shall be fabricated either from corrosion resistant metal such as aluminum alloy or carbon steel with corrosion resistant coating such as zinc coatings as specified in the data schedule.

Key Takeaways

Metal partitions, also called barriers or dividers, are solid, continuous components installed in trough-type cable trays to separate cables by voltage, type, or function, ensuring safety and compliance with standards.

Purpose and Function

Metal partitions in trough-type cable trays are used to: Separate cables of different voltage ratings or signal types to prevent electrical interference and maintain safety. Organize cables within the tray, maintaining proper spacing and routing for easier maintenance and inspection. Support compliance with electrical codes, such as ANSI/NFPA 70, NEMA VE-1, or IEC equivalents, which may require separation of certain cable types.

Enhance mechanical protection for sensitive instrumentation or control cables in industrial environments.

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Material and Construction

Partitions are typically made of the same material as the cable tray, such as hot-dip galvanized steel, pre-galvanized mild steel, or stainless steel (grade 316L). They are solid, fixed, and continuous, extending along the tray length where separation is required. Edges are often painted or coated to prevent corrosion, especially near cut or punched areas.

Installation and Accessories

Metal partitions are supplied by the tray manufacturer to ensure compatibility with tray dimensions and fittings. They can be installed in straight sections, bends, tees, or dropouts to maintain separation throughout the cable tray system. Connectors, clamps, and hold-down devices are used to secure partitions and cables, ensuring stability and electrical continuity.

Expansion joints may require special partition fittings to maintain separation across building expansion points.

Standards and Compliance

Metallic cable trays and partitions should comply with NEMA VE-1 or equivalent IEC standards, ensuring mechanical strength, electrical safety, and corrosion resistance.

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E marking or UL certification may apply depending on the region, confirming adherence to safety and quality standards.

Summary

Metal partitions for trough-type cable trays are essential for safe, organized, and code-compliant cable management. They are made from the same material as the tray, are solid and continuous, and are installed using manufacturer-supplied accessories to maintain separation across the entire cable tray system, including bends and expansion joints. Proper selection and installation ensure reduced interference, improved safety, and easier maintenance.

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Article Content

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Product Catalogue Cable Management Solutions

Delivering engineered solutions in cable management ABB manufacturers a comprehensive range of cable tray systems and solutions including cable ladder, perforated tray, channel tray and metal

Cable Trays System

Sort By Position Product Name Price Set Descending Direction Cable Trays in various edge heights Edge Height 35 Edge Height 50 Edge Height 60 Edge Height 85 Edge Height 100 Edge Height 110

Full cable tray systems specification document

A. General: Except as otherwise indicated, provide metal cable trays, of types, classes and sizes indicated; with splice plates, bolts, nuts and washers for connecting units.

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

Conductors used in cable tray must be specified in Table 19 of the CEC and, except where permitted under paragraphs [12-2202(2)] and [(3)], covered by a continuous metal sheath or an interlocking

B-Line series Cable Tray Design Considerations

Our wind certification report provides you with list of acceptable B-Line series cable tray supports, fittings and covers based off of the environmental conditions, cable loading, and type of cable tray in your

Trough Trays | Cable Tray and Reels | Wire and Cable Management

Cablofil steel trough trays provide the strength and security required when then need to limit cable access is of primary importance. Multi purpose splice for straights, offsets, horizontal or vertical

GUIDE CABLE TRAYS TECHNICAL

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®

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Cable Trays, Cable Management Trays | RS

These trays are designed to hold and support various types of cables, including power cables, data cables, and communication cables. The cables are placed inside the trays and can be easily routed

Metal partition for trough-type cable trays

Looking for reliable cable tray partition solutions? Discover top-rated, customizable options with fire resistance, corrosion protection, and quick installation.

Top 7 Types of Cable Trays and Their Applications

Discover the top 7 types of cable trays including Ladder, Perforated, and Wire Mesh. Learn their applications and benefits for efficient cable

Trough Cable Trays Supply and Manufacturing

A trough cable tray is a type of cable management system designed to protect and support electrical, communication, or data cables in commercial, industrial, or

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 systems primarily consist of cable trays, conduit, and other types

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Trough Trays | Cable Tray and Reels | Wire and Cable Management

Cablofil steel trough trays provide the strength and security required when then need to limit cable access is of primary importance.

Cable Trays | Cable Management Trays

Stainless Steel Cable Trays: This type of metal cable tray provides a strong and long-lasting performance. Easy to handle and with excellent corrosion resistance. 304 and 316 Stainless Steel

B-Line series Cable Tray Design Considerations

Is your cable tray system optimized for safety, dependability, space and cost savings? Cable tray (or cable ladder) systems are a popular alternative to electrical conduit systems, as they have an

Perforated Cable Tray & Cable Trunking

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Product Features Metal cable trunking or perforated cable tray is a more reliable, less expensive solution for supporting and protecting cables. Handling, lifting anf fitting operations are inherently safer, easier

Related Video Reference

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

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Website: https://metramarket.es
Technical inquiry: https://metramarket.es/contact.html

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

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