

Cable tray connection bolt model and specification table



AI Overview

Cable tray connection bolts are typically specified by type, size, material, and finish to ensure secure assembly and compliance with load and environmental requirements.

Common Bolt Types for Cable Trays

Cable tray systems use various bolts depending on the tray type and installation requirements:

- Hex Head Bolts:** Standard for connecting tray sections and fittings; compatible with nuts and washers.
- Carriage Bolts:** Used for mounting trays to support brackets; smooth rounded head prevents cable damage.
- J-Bolts:** Often used for securing ladder trays to ceiling or cabinet tops.
- Self-Tapping Screws:** Used for light-duty or sheet-metal trays where pre-drilled holes are not available.

Typical Specifications

Bolt Type	Diameter	Length	Material	Finish	Application
Hex Head	M6, M8, M10	20–50 mm	Steel, Stainless Steel	Zinc-plated, Hot-dip galvanized	Connecting tray sections, fittings
Carriage	M6, M8	25–40 mm	Steel, Stainless Steel	Zinc-plated, Hot-dip galvanized	Mounting trays to brackets
J-Bolt	M8, M10	50–100 mm	Steel, Stainless Steel	Hot-dip galvanized	Ceiling or cabinet suspension
Self-Tapping	#10–#14	20–30 mm	Steel, Stainless Steel	Zinc-plated	Light-duty tray assembly

Material and Finish Considerations:

- Steel:** High strength, suitable for indoor and general industrial use.
- Stainless Steel:** Corrosion-resistant, ideal for outdoor or corrosive environments.
- Zinc-Plated or Hot-Dip Galvanized:** Provides additional corrosion protection for steel bolts.

Installation Notes

- Bolts should match the tray hole pattern and load class of the cable tray system.
- Use washers and lock nuts to prevent loosening under vibration.
- For ladder trays, J-bolts or mounting plates are recommended for ceiling or rack attachment.
- Ensure compliance with DIN EN 61537 or equivalent standards for mechanical strength and safety.

References for Selection:

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 manual

Nearly every aspect of cable tray design and installation has been explored for the use of the reader. If a topic has not been covered sufficiently to answer a specific question or if additional information is

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

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 characteristics, installation, and

CABLE TRAY, CABLE LADDER, CABLE TRUNKING CATALOGUE

Fitting and accessories. with the same or different width of the cable run. All fittings are available in sizes and types corresponding to the straight cable tray sections. These fittings are including: elbow,

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

Cable tray is considered to be a system. It must provide continuous support for cables, and the electrical continuity of the cable tray system must be maintained.

CABLE TRAY

Cable Trays are designed to meet most requirements of cable and electrical wire installations and comply to local and international standards of fabrications and finishes.

CABLE TRAY, CABLE LADDER, CABLE TRUNKING CATALOGUE

Cable Trunking. Straight sections of solid bottom cable trays constructed from single sheet of metal, providing excellent protection from external damage, they are used primarily for intrumental control,

Full cable tray systems specification document

The work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, tests and services to install complete cable tray systems as shown on the

Electrical cable Tray Installation Details with Support

Comprehensive technical drawing illustrating various cable tray installation details for electrical systems. The document includes multiple configurations for

Cable Tray Specification and Parts Guide | PDF

The document outlines various components and specifications related to cable trays, including different types of bends, tees, reducers, and splice plates. It also includes updates on part classes, attributes,

Section 16135

Test wire basket cable tray support systems to ensure electrical continuity of bonding and grounding connections, and to demonstrate compliance with specified maximum grounding resistance.

B-Line series Cable Tray Design Considerations

As an industry leader in cable tray, Eaton offers one of the widest ranges of cable management solutions available in the market today with its B-Line series portfolio. With unmatched quality and service, we

A T& B Cable Tray Metallic cable tray

Reliability Cable tray systems offer unsurpassed reliability, resulting in less maintenance and down time – important considerations for all installations and especially for industries such as data

26 05 36 Cable Trays for Electrical Systems

Description: This product category covers metal cable trays and metal cable tray systems intended for field assembly and for use in accordance with Article 392 of NFPA 70.

LEGRAND CABLE TRAYS TECHNICAL GUIDE

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®

Wire Mesh Tray Technical Guide

Please note! Not all steel wire cable trays are the same. The mechanical and electrical characteristics, tests, certifications, overall quality management aspects and recommendations referred to in this

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Visualization of different context lengths in text - willhama/128k-tokens

Cable Tray Parts and Accessories List

This document contains parts lists and drawings for a DLC176.00 cable tray system. It includes 20 items with names like cable troughs, main troughs, translation cable racks, and associated pins, bolts,

SWIFTS CABLE TRAY

The fast-fit alternative to traditional nuts and bolts, providing a quicker and easier way to connect length to length, length to fitting and for securing to supports.

ABB Library

Wire Management and Connectivity Cable Tray Cable Tray Systems Document kind expand_more Agreement Group company agreement Local company agreement expand_more Building

STANDARD SPECIFICATION E-30-11

2 manufacturer as the cable trays. These auxiliaries shall be from the standard range of products of the manufacturer. Each length of cable tray shall be supplied with a set of joining pieces, bolts and nuts

GUIDE CABLE TRAYS TECHNICAL

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations without notice. All illustrations, descriptions and technical information

cable tray technical specifications cable tray

to cables when correctly inserted. Screwed connections are generally isometric threads fully compliant with standards in accordance of the standard. Armorduct cable tray systems are usually assembled using

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