Cable Tray Nut Specification Table

Article Overview

Cable tray nuts are standardized fasteners used to secure cable tray sections and fittings, typically available in sizes M6, M8, M10, and M12, with material and finish options for corrosion resistance.

Standard Sizes and Types

Cable tray nuts are generally selected based on the tray type, load requirements, and environmental conditions. Common specifications include:

o Thread Sizes: M6, M8, M10, M12
o Nut Types: Hex nuts, cage nuts, spring nuts, and fast-fit nuts (e.g., Swiftclip or Swiftgrip systems)
o Material Options:
o Stainless Steel (AISI 304 or 316L): High corrosion resistance, suitable for outdoor or corrosive environments
o Galvanized Steel: Economical, suitable for indoor or mildly corrosive environments
o Mild Steel with Zinc Plating: Standard indoor applications

o Finish: Hot-dip galvanized, electro-galvanized, or bare steel depending on environmental exposure

Torque and Installation Guidelines

o Nuts should be tightened according to manufacturer torque recommendations to avoid damage to the tray or fittings.
o Fast-fit systems like Swiftclip allow tool-free installation, reducing installation time while maintaining secure connections .
o Cage nuts are often used in ladder or ventilated trays to allow flexibility in positioning and alignment of bolts .

Example Specification Table
Nut TypeThread SizeMaterialFinishTypical UseHex NutM6Stainless SteelPolished / GalvanizedLight-duty tray connectionsHex NutM8Galvanized SteelHot-dip GalvanizedStandard tray and fitting jointsCage NutM10Stainless Steel316L / Hot-dip Galv.Adjustable tray and ladder systemsSwiftclip NutM12Steel / StainlessFast-fit / GalvanizedHeavy-duty or quick-install trays

Selection Considerations

o Load and Tray Type: Heavier trays or long spans may require larger nuts (M10-M12) and stronger materials.
o Environmental Conditions: Outdoor or corrosive environments require stainless steel or hot-dip galvanized

finishes.
o Compatibility: Ensure nuts match the bolt type and tray slot pattern; some systems use proprietary fasteners like Swiftclip for faster assembly .
o Standards Compliance: Nuts should comply with ISO, DIN, or ANSI standards for mechanical strength and thread quality . By following these specifications, engineers and installers can ensure secure, durable, and compliant cable tray installations suitable for industrial, commercial, or infrastructure applications.

Tables list standard sizes and specifications for straight and bent cable trays, including width, height, thickness, materials, and

Cable Tray Specifications and Accessories This document provides specifications for perforated and solid cable tray systems

NEMA Standards Publication VE 2-2006 Cable Tray Installation Guidelines Published by: National Electrical Manufacturers

Recommended joining procedures of two sections of cable trays, support spacing and details of fixing bolts and nuts. Catalogues of

Eaton"s B-Line series cable tray is UL® classified as to its suitability as an equipment grounding conductor. If a separate conductor

3.1 Cable trays & accessories shall be of two types, namely ladder type and perforated type. Technical particulars are specified in

These documents: ANSI/NEMA VE-1, Metal Cable Tray Systems; NEMA VE-2, Cable Tray Installation Guidelines; and NEMA FG-1,

With the new Swiftclip, lengths and fi ttings of Swifts cable tray can be fi tted without the use of specialist tools - making it even

Cable tray systems are defined to include, but are not limited to straight sections of of [ladder type] [vented bottom type] [solid bottom

Wire Mesh Cable Tray Installation Notice: Bends, Risers, T Junctions, Crosses and Reducers can be made from wire mesh cable

We manufacture a wide range of products capable of providing the characteristics which respond to the proposed application, along

Cable Tray Nut Specification Table

This SEC Distribution Material Specification requirements for design, materials, manufacturing, indoor/outdoor Metallic Cable Tray

The work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, tests and

The document provides a technical data sheet for cable trays including ladder and perforated types. It lists specifications for material,

Specification data for engineering software systems As part of its ongoing commitment to customer support, Legrand"s cable

A channel cable tray can be added to an existing cable tray system using the method illustrated in Figure 3-89 to add approved

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