

Cable tray anti-slip nut specification table

Article Overview

Cable tray anti-slip nuts are specialized fasteners designed to prevent loosening in cable tray installations, typically specified by thread size, material, finish, and load rating.

Typical Specifications

Parameter	Typical Values / Notes
Thread Size	M6, M8, M10, M12 (metric) or 1/4", 5/16", 3/8", 1/2" (imperial) depending on tray system
Material	Carbon steel, stainless steel (A2/A4), or zinc-plated steel
Finish / Coating	Hot-dip galvanized, electro-galvanized, zinc-plated, or passivated stainless steel for corrosion resistance
Type	Anti-slip / lock nut, serrated flange nut, or nylon-insert lock nut
Torque Rating	Varies by size and material; typically M6: 5-7 Nm, M8: 15-20 Nm, M10: 25-30 Nm
Standards Compliance	ISO 4032 (hex nuts), ASTM A563, DIN 934, NEMA VE 1 for cable tray systems
Compatibility	Designed to fit standard cable tray bolts and splice plates; may be used with ladder, perforated, or solid-bottom trays
Temperature Range	-40°C to +120°C for standard steel; stainless steel may tolerate higher temperatures
Special Features	Serrated flange or nylon insert prevents loosening under vibration; some systems use fast-fit alternatives like Swiftclip for faster installation

Notes on Installation and Selection

- o Material Selection: For outdoor or corrosive environments, stainless steel or hot-dip galvanized nuts are preferred to prevent rust and maintain structural integrity .
- o Anti-Slip Design: Serrated flange nuts or nylon-insert lock nuts provide resistance to vibration and prevent loosening in dynamic installations.
- o Fast-Fit Alternatives: Some manufacturers, such as Legrand, offer Swiftclip or similar fast-fit systems that replace conventional nuts and bolts, reducing installation time and component count while maintaining secure connections .
- o Standards Compliance: Ensure nuts meet relevant standards (ISO, ASTM, NEMA) to guarantee compatibility with cable tray systems and adherence to electrical and mechanical safety codes .

References for Further Details

- o Oglethorpe System and Eaton provide detailed product catalogs and specifications for cable tray systems and associated fasteners, including anti-slip nuts .
- o Legrand's Swiftclip system demonstrates modern alternatives to traditional anti-slip nuts, offering faster installation while maintaining secure connections . This table provides a practical reference for selecting anti-slip nuts for cable tray installations, ensuring proper fit, corrosion resistance, and compliance with industry standards.

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Wire basket cable tray systems are defined to include, but are not limited to straight sections of continuous wire mesh, field formed

The installation of REAL SAFETY Cable Tray should be made in compliance with the standards set forth by the National Electric

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules

Description: This product category covers metal cable trays and metal cable tray systems intended for field assembly and for use in

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

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

Cablofil wire mesh tray and supports are designed to support any cable load allowed by the NEC when supports are spaced on 8"

Fitting and accessories. with the same or different width of the cable run. All fittings are available in sizes and types corresponding to

Parallel hook design keeps conduit and cable square with strut Heavy-duty 5/16 in. hex bolt One size clamp works on equal trade

Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management,

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

Each length of cable tray shall be supplied with a set of joining pieces, bolts and nuts for fixing at one end with an adjacent length of

In accordance with its continuous improvement policy, Legrand reserves the right to change the specifications and illustrations

A. General: Except as otherwise indicated, provide metal cable trays, of types, classes and sizes indicated;

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with splice plates, bolts,

Cable trays and accessories shall be electrically and mechanically continuous throughout their length. The entire cable tray system

The document outlines various components and specifications related to cable trays, including different types of bends, tees,

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