

Article Overview

Cable tray spring nuts are specialized fasteners designed to secure cable trays and accessories, available in various sizes, materials, and types to suit different load and environmental conditions.

Overview

Cable tray spring nuts are spring-loaded fastening components that snap into pre-punched holes in cable trays, providing a tool-free, secure attachment for bolts and hardware . They are essential for maintaining structural integrity, electrical safety, and long-term performance in industrial, commercial, and specialized installations.

Common Sizes and Types

- o Thread Sizes: M6, M8, M10, M12 are standard options for most applications .
- o Types:
 - o Standard Spring Nuts: Suitable for moderate loads in indoor or light industrial environments.
 - o Heavy-Duty Spring Nuts: Reinforced carbon steel or stainless steel for high-stress or outdoor applications.
 - o T-shaped or Square Nuts: Provide additional stability and alignment in channel systems.
 - o Roll-In, U-shaped, J-shaped, and Cage Nuts: Offer specialized fastening solutions for unique project requirements .

Materials

- o Stainless Steel: High tensile strength, excellent corrosion resistance, ideal for harsh environments such as marine, chemical, or offshore installations .
- o Carbon Steel (Galvanized): Suitable for indoor or moderate outdoor use, cost-effective for general applications .
- o Brass: Used in specialized applications requiring non-magnetic or corrosion-resistant properties .

Key Features

- o Spring Mechanism: Ensures the nut stays in place during installation, preventing misalignment.
- o Locking Mechanism: Some heavy-duty models include integrated locks to resist vibration, thermal expansion, and mechanical stress .
- o Load Capacity: Varies by material and size; heavy-duty stainless steel nuts support larger cable bundles and dynamic environments.
- o Environmental Resistance: Stainless steel and galvanized options provide protection against moisture, salt spray, acids, and temperature fluctuations .



Cable tray spring nut model and specifications

Installation Considerations

- o Verify bolt compatibility with the spring nut thread size.
- o Ensure proper alignment when inserting into cable tray holes to maintain clamping force.
- o For corrosive or outdoor environments, prefer stainless steel or galvanized nuts to extend service life.
- o Custom or non-standard dimensions are available for specialized projects, including aerospace, marine, and defense applications .

Applications

- o Industrial plants, manufacturing facilities, and heavy machinery setups.
- o Commercial wiring systems in office buildings and retail spaces.
- o Outdoor infrastructure, marine platforms, and chemical processing plants.
- o Specialized sectors requiring bespoke fasteners for unique load or environmental conditions . Choosing the correct size, type, and material of cable tray spring nut is critical for ensuring safety, durability, and reliable performance in any installation.

Unistrut's cable trays are also available in Extra Heavy Duty options, for applications where additional strength is required. A broad

High Quality Cable Tray Stainless Steel Spring Nut, Find Details and Price about Spring Nut T Nut from

We supply a variety of metal spring nuts, such as anti-corrosion and beautiful stainless steel nuts, carbon steel galvanized channel

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

Cable Support Systems are well designed to provide necessary support for cable trays, cable ladders and trunkings. Cable supports

Our cable tray bolts are zinc plated have a cross-slot head and come with serrated flange nuts.

M10 Spring Nut for Pregalvanized Cable tray GERSAN GCCA-3 E \$ 1.48235 Add to cart Terms and

TechLine Mfg. offers a wide array of channel strut products and strut accessories to complement its



Cable tray spring nut model and specifications

Max. Working Load 268KG/M (180.09lb/ft) Side Rail Height 41, 21, 82 Type Other Place of Origin China Model Number BS Brand

Stock up on cable trays. Find the spring nut cable tray you need to craft customized cable management systems at work or home

From cable tray systems and strut systems to spring steel fastener solutions, the B-Line series business is focused on innovative

Discover cable tray bolts and nuts with CE-certified, corrosion-resistant steel for secure, industrial-grade cable

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

10-32 Spring Nuts Mini-Channel, Long Spring, No Shrink Mini-Channel, Short Spring, No Shrink

Wibe Group. 716407 - Wibe - spring nut M8 - steel - hot-dip galvanized

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