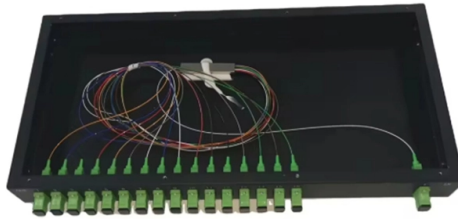


Cable trays require serrated washers



AI Overview

Serrated washers are generally not required for cable trays and are often prohibited by standards like NORSOK; alternative fastening methods such as self-locking flange nuts are recommended. Use of Serrated Washers Serrated washers, also known as 'shake-proof' washers, are designed to prevent loosening due to vibration and thermal effects. They are commonly used with cable glands and locknuts to maintain mechanical stability and electrical continuity, especially in harsh industrial or offshore environments. Their internal teeth bite into metal surfaces, enhancing conductivity and preventing inadvertent loosening caused by vibration. Cable Tray Installations For cable trays and ladders, industry standards such as NORSOK explicitly prohibit the use of star-shaped or serrated washers. Instead, these standards recommend using A4 self-locking flange nuts or other approved fastening methods to ensure secure and compliant installations. This is because serrated washers can damage the tray surface or compromise mechanical integrity in large-scale tray systems. Summary Serrated washers: Useful for cable glands, anti-vibration, and grounding in equipment, but not suitable for cable trays. Cable tray fastening: Follow standards like NORSOK, using self-locking nuts or flange nuts instead of serrated washers. Material considerations: When used elsewhere, serrated washers are typically made from AISI 316 stainless steel for corrosion resistance and durability. In conclusion, while serrated washers are valuable for certain electrical connections, they are not required and often prohibited for cable tray installations, and compliant fastening methods should be used to meet safety and regulatory standards.

Article Content

Cable Gland Accessories | Maintaining a Seal | CMP Products Limited

"Shake-proof" Serrated Washers are fitted internally to the equipment before a locknut and act as an anti-vibration device to prevent the Cable Gland or other cable entry devices from inadvertently loosening

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

Cable Tray Technical Guide 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

Serrated Washers

Serrated Washers The serrated washer, made of AISI 316 stainless steel, ensures reliable grounding and mechanical fastening in harsh industrial and offshore environments. Its internal teeth bite into

Serrated Washer | Products | Secure Cable Glands

Serrated Washers fitted internally to the equipment and before a locknut act as an anti-vibration device to prevent the cable gland or other cable entry device and locknut. Particularly required in situation

Serrated Washer

Suitable for fixing accessories, supports and structures in wall and ceiling assemblies for trays in electrical wiring and / or telecommunications.

Cable Tray Trunking & Ladder Installation Method Statement

Tray and Trunking joints are to be positioned as close to the supports as possible. Install 12.5mmx1.5mm copper earth bonding straps externally between all length of Cable Tray / Trunking &

Serrated Washer

Serrated Washers are ready to fit washer to sustain preload and avoid loosening. Due to above feature of serrated washer are also used in cable gland accessories. Serrated Washers fitted internally to the

Grounding Requirements for Electrical Cables, Cable Trays, and

Guidelines for grounding electrical cables, busbars, and cable trays in wiring projects, ensuring safety and compliance with industry standards.

Connecting Cable Trays: Your Guide to Secure and Easy Joins

Learn common methods for connecting cable trays safely and efficiently. Our guide covers splice plates, quick-connects, and key tips for secure electrical cable management.

Safely Installing, Maintaining and Inspecting Cable Trays

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of a planned cable management system to support, route, protect and

Cope Ladder Master Spec

Manufacturers: Firms regularly engaged in manufacture of cable trays and fittings of types and capacities required, whose products have been in satisfactory use in similar service for not less than

BZP Cable Tray Bolts and Serrated Flange Nuts

M6x12 BZP Cable Tray Bolts and Serrated Flange Nuts (P) Product Code: N402-306
These tray bolts and serrated flange nuts are specially designed for the

Wire Mesh Tray Technical Guide

Cablofil wire mesh tray and sup-ports are designed to support any cable load allowed by the NEC when supports are spaced on 8" spans. Only the hea-viest cables (750 kcmil mulitconductor power or

CABLE TRAY SYSTEMS GUIDE

Some applications may require the cable tray to support the weight of a single, dead object in addition to the cable loads. Specifications typically require this to be applied at the midpoint of the span between

Cable Tray Bolts & Flange Nuts

Cable Tray Bolts & Flange Nuts Cable tray/roofing bolts complete with serrated flanged nuts. No. 2 pozi drive combo heads for fast installation. M6 (6mm thread diameter). Serrated flange nuts which bind

How to Secure Cable Trays in High-Vibration Environments: A Field

Eliminate cable tray failure in high vibration environments. Learn the method of how to lock your locking fasteners, damping pads and optimum spacing, to prevent metal fatigue and make

Serrated Washers

Available in Stainless Steel, these "shake-proof" Serrated Washers are fitted internally to the equipment before a locknut and act as an anti-vibration device to

MGX Accelerated Computing Rack and Trays Specification Revision

2.1. Openness Third parties may build to this specification such that trays and racks are interoperable in power, cooling and latching interfaces. In addition, a volumetric and mounting locations are

Serrated lock washer

NORSOK requirements prohibit the use of star washers for installation of cable trays and cable ladders, therefore we recommend our A4 self-lock flange nuts.

Serrated Washer | PEMSA

Star-shaped metal washer for assembly with nut and bolt for fixing trays and accessories. Available in M8 and M10, with EZ Protection System or AISI 316L stainless steel.

Serrated lock washer WA-SR-Ø20.5-M12 A4

NORSOK requirements prohibit the use of star washers for installation of cable trays and cable ladders, therefore we recommend our A4 self-lock flange nuts.

IEC Standard for Cable Tray: Complete Technical Guide

IEC Standard for Cable Tray: Complete Technical Guide The International Electrotechnical Commission (IEC) provides detailed guidelines for

Cable tray

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution, control, and communication. Cable trays are used as an alternative to

Cable Tray Installation Rules (NEC 392) – Electrical Trader

NEC Article 392 outlines the key rules for installing and maintaining industrial cable tray systems. These systems, made from metal or plastic, are open structures designed to support

CABLOFIL Cable Tray Washer: 4 in_6 in_8 in_12 in_18 in_20 in_22

Looking for CABLOFIL, 4 in_6 in_8 in_12 in_18 in_20 in_22 in_24 in Wd, Cable Tray Washer? Find it at Grainger ®. With over one million products and 24/7 customer service we have supplies and

Serrated Sealing Thread Washers Datasheet

Serrated washers are fitted internally to the equipment and before a locknut act as an anti-vibration device to prevent the cable gland or other cable entry device and locknut arrangement from

Contact Us

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