List of accessories for seismic bracing for cable trays

Overview

The seismic performance of a cable tray system depends just as much on the building connection as on the tray itself.

Key Takeaways

Seismic bracing for cable trays requires wire rope or cable assemblies, clamps, sleeves, threaded rods, universal restraint clips, and appropriate fasteners to secure the system to structural members. Key Accessories1.

Wire Rope/

Cable AssembliesPre-stretched aircraft cables or wire ropes are used to provide tension and absorb seismic loads. Available in various diameters (e.g., 3/32", 1/8", 3/16") and lengths (10 ft., 20 ft., or spools) depending on the installation requirements. 2.

Kwik

Wire or Oval SleevesOval sleeves secure the cable loop and maintain the strength of the brace. Crimping tools like the Locoloc® hand swager are used to properly secure the sleeves. 3.

Universal Restraint Clips (URC)Connect the wire rope or cable brace to the cable tray support member. Accommodates multiple cable sizes and hardware diameters (1/4" to 1-1/4"),. 4.

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Threaded Rods and Fasteners3/8" or 1/2" threaded rods are commonly used for trapeze installations. Fasteners attach the braces to structural members such as beams, ceilings, or concrete decks. 5.

Bracing Members

Lateral (transverse) and longitudinal braces are required to stabilize the cable tray in two directions. Can be cable bracing (tension only) or rigid bracing (tension and compression), depending on drop length and code requirements. 6.

Clamps and EyeletsPre-attached eyelet end fittings or clamps like KwikWire tool-less clamps allow quick attachment to structural supports without drilling. 7.

Color-

Coded Tags

Used for visual verification of correct cable size and load rating during installation. 8.

Optional Accessories

Rod stiffeners to maintain system rigidity. Anchors or hangers compatible with the building structure. Predrilled tabs for direct attachment to concrete decks.

Installation Considerations

Braces must be installed at intervals specified by local codes (e.g., every 30 feet for long runs). Both lateral and longitudinal bracing are required to ensure seismic compliance. All components should meet UL listing and minimum breaking strength requirements for safety.

Coordination with structural engineers is recommended to verify attachment points and load capacities. By using these accessories and following proper installation guidelines, cable trays can be effectively braced to withstand seismic events, ensuring system integrity and safety in critical infrastructure.

Article Content

Cable Tray Checklist for High-Seismicity Projects

The seismic performance of a cable tray system depends just as much on the building connection as on the tray itself. Every hanger, trapeze,

Design and Installation Manual for Seismic Bracing of Cable Trays

A coordinated seismic bracing system uses strut channels, clamps, connectors, anchors, and tray interfaces as one load path from the cable tray to the building structure.

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Seismic Bracing Systems for Cable Trays Catalog

Explore seismic bracing solutions for cable trays. Catalog details wire rope/cable systems, specs, design for earthquake protection.

Seismic Bracing Kit | Seismic Bracing | Wire and Cable Hangers | Wire ...

The ease of creating fittings, carried out on site, as well as the wide range of unique and universal accessories gives complete freedom in routing combined with exceptionally fast installation.

Seismic MEP Solutions | Eaton

The assembly connects the structure such as a beam or ceiling, to a brace member which could be cable, channel, or pipe to a non-structural support, such as pipe, trapeze, cable tray, duct, and more.

Seismic bracing cable kit system | MEP cable bracing

To complete your seismic cable installation, use B-Line series two-hole open angle bracket (B154) or the seismic retrofit bracket (B650C). Eaton also offers a range

Seismic cable bracing solution brochure

As an alternative to rigid bracing system attachments, the B-Line series seismic cable bracing kit is ideal for electrical, mechanical and plumbing applications in new and retrofit commercial construction.

Cable & Pipe Supports

In this design example, a combination of pipe clamps, u-bolts, cable trays and channel members were used to support a complex array of different services over an extensive continuous run, a confined

Seismic Kits | ISAT Kits Proven Process | ISAT Total

Each seismic kit contains the necessary components (excluding strut) to install the seismic brace assemblies for the MEP trades. Kits are built specifically for each

Seismic Bracing Kit | Seismic Bracing | Wire and Cable Hangers | Wire ...

Cablofil Wiremesh Cable Tray concept based upon performance, safety and economy; three qualities which make Cablofil Wiremesh Cable Tray system preferred by installers. Cablofil adapts to the most

Lightweight Cable Tray System, Strong, Fast

The generally accepted spacing for seismic bracing (depending on local building codes) is: - Transverse bracing shall not exceed 40''-0” (12.2M). - Longitudinal bracing shall not exceed 80''-0” (24.4M). Click

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Seismic bracing cable kit system | MEP cable bracing

Up to 50% faster to install, the seismic bracing cable kit system is designed to suspend equipment and other systems to help minimize damage in a seismic event.

SEISMIC BRACING OF A DISTRIBUTED CABLE TRAY SYSTEM

Above these cabinets, are cable trays that provide power and communications cabling to the cabinets. Since the facilities were located in a area of high seismicity, the cable tray system was required to be

The shake on seismic bracing

Seismic bracing against the wrath of earthquakes is an increasing concern for today''s data-communications and telecommunications cable installer, and efforts to minimize the damage they

Design and Installation Manual for Seismic Bracing of Cable Trays

Tianying manufactures cable tray, fittings, accessories, and seismic bracing components within the same product ecosystem. That matters when the clamp interface must match the tray rail

Cable Tray Checklist for High-Seismicity Projects

When those elements are coordinated early, cable tray systems can perform far more reliably under earthquake demands. Planning a project in a

Seismic Supports

Seismic Supports Cable trays are systems used for the safe transportation and protection of electrical cables, designed to fit the pathways within buildings and structural installations.

Seismic analysis and design of electrical cable trays and support ...

Most cable trays in nuclear power plants are classified as seismic category I components. Current safety requirements dictate that all such components be adequately designed in order to

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This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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