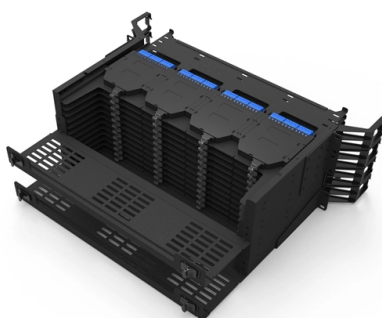


RIVO MULTITRADE OPTICAL SYSTEMS

Accessories required for installing 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.

1. Wire Rope/Cable Assemblies

- Pre-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. KwikWire or Oval Sleeves
- Oval 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. Threaded Rods and Fasteners

- 3/8" 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 Eyelets
 - Pre-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

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

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

Seismic bracing cable kit system | MEP cable bracing | Eaton

What's included in the seismic bracing kit? The kit includes the cable assembly in 1/8", 3/16" and 3/32" sizes with attached eyelet and

Seismic Cable Tray Bracing: Code & Site Load Design

For projects already comparing cable trays, busbar routing, fire-rated cables, and seismic supports together, a platform

Cable Bracing System Attachments | Resources | Eaton

For over 60 years, Eaton has manufactured TOLCO seismic bracing and B-Line series cable tray, strut systems, pipe hangers and

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.

Seismic Bracing for Cable Tray Systems: EPC Project RFQ Guide

A seismic restraint plan should not lock the cable tray across building separation joints. Where the structure is

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

Vogtle Electric Generating Plant (VEGP) Units 3 and 4 Updated

The AP1000 cable tray system design requires no sprayed-on material for fire protection. Cable ties are provided at spacing greater

Seismic cable bracing solution brochure

Seismic cable applications Along with reliable, quality products that deliver lower total installed cost, Eaton provides pre-engineered

Installing Seismic Restraints for Electrical Equipment

Seismic restraint devices include vibration isolation systems, cable or strut suspension systems, roof attachment systems, and steel

Seismic Bracing Ensures Stability and Safety of Cable Trays

Seismic Bracing – Enhancing System Stability and Seismic Resistance Seismic bracing, typically made of high-strength metal, is key

How to install Seismic Cable Bracing

Our seismic cable bracing systems are easy to install and require minimal maintenance, making them a cost-effective

Seismic Bracing

The design and installation of Zip-Clip seismic cable bracing for building services not only achieves the life

Multi-Directional Bracing For Electrical Conduit, Cable Tray And ...

What is Seismic Bracing? Seismic forces are exerted on a building and its contents during an earthquake. These forces act

6.4 Mechanical, Electrical, and Plumbing Components

ASCE/SEI 7-10 exempts electrical raceways, conduit, cable trays, and bus ducts from seismic bracing requirements in Seismic

Design and Installation Manual for Seismic Bracing of Cable Trays

Spacing depends on the loaded tray weight, seismic design force, route elevation, brace direction, and component

Related Video Reference

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

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