

Earthquake-resistant supports for cable tray installation using tubular bundles



Overview

Seismic bracing, typically made of high-strength metal, is a key component specifically designed to enhance the stability and safety of cable tray systems during earthquakes. This article will explore the importance of seismic resistance in cable trays, discuss when seismic braces are necessary, and help you understand how to make informed decisions for your installation. Mechanical Support Systems New! Founded in 2006 as a subsidiary of Çemesan Group, which has been operating in the steel industry. 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. What are the types of cable bracing?

Seismic bracing is categorized as cable bracing or rigid. All our seismic Wire Rope/Cable™ bracing, complies with model building codes, and installs in just one-third the time needed for more conventional pipe, angle, and strut bracing systems. Our exclusive systems have no length limitation and are UL listed. Designed in compliance with ASCE 7 and the International Building Code.

Article Content

Nov 27, 2025

EARTHQUAKE PROTECTION

Suspended systems such as piping, equipment and ductwork need seismic braces to keep them from swaying during an earthquake. Seismic braces can be flexible using aircraft quality cables, or rigid

Aug 09, 2025

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

The design aspects of electrical cable trays and support systems are discussed from the seismic and structural standpoint. The effects of the inherent flexibility of commonly used cable trays

Nov 03, 2025

Evaluation of cable tray and conduit systems using the seismic ...

Cable tray and conduit systems have an excellent earthquake performance record. This has been evidenced at over 70 power and industrial facilities in 14 past major earthquakes, and is

Mar 25, 2026

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.

May 06, 2026

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

Sep 11, 2025

Evaluation of cable tray and conduit systems using the seismic ...

After damage observations of the cable tray system during the Morgan Hill Earthquake , separation design of cable tray and support systems seems to be developed as an acceptable

Feb 08, 2026

Installing Seismic Restraints for Electrical Equipment

Raceways/Conduits/Cable Trays: Covers the different ways to install raceways, conduits, and cable trays. Attachment Types: Gives instructions on installing equipment in different arrangements known

Dec 01, 2025

Seismic Cable Restraint Kits

The Easy ex EF5CK Series Seismic Cable Restraint Kits are engineered to secure suspended non-structural components—such as ductwork, piping, conduit, cable trays, and HVAC

May 04, 2026

Seismic Bracing Cables & Hangers | Gripple

We offer a pre-engineered, time-saving solution which braces and secures non-structural equipment within a building to minimize damage from earthquakes or

Jul 02, 2025

Seismic Bracing Ensures Stability and Safety of Cable

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

Jun 13, 2026

Understanding the Seismic Resistance of Cable Trays

This article will explore the importance of seismic resistance in cable trays, discuss when seismic braces are necessary, and help you understand how

Nov 14, 2025

Seismic and cable tray solution flyer

Eaton's B-Line series cable tray with TOLCO seismic bracing is the recommended total solution for your project. Our cable tray, bolted framing, and seismic bracing are approved as one system through

Dec 16, 2025

Seismic MEP Solutions | Eaton

The Eaton TOLCO Fig. 3000 Brace safely and completely mitigates the disparities of CPVC. Unlike competitive offerings, the Fig. 3000's patented "gap and barrier" design prevents compression by

Apr 12, 2026

Seismic Bracing Ensures Stability and Safety of Cable

Seismic bracing, typically made of high-strength metal, is key component specifically designed to enhance the stability and safety of cable tray systems during

Aug 14, 2025

KINETICS™ Seismic & Wind Design Manual Section

As with cable restraints, floor- or roof-mounted electrical distribution support systems will normally involve a box frame that supports the system (single or multiple runs) with some kind of a trapeze bar.

Sep 04, 2025

The 14th World Conference on Earthquake Engineering

These cable trays are constructed using prefabricated steel sections in a ladder-type configuration with solid steel longitudinal elements and light steel transverse “rungs.” These cable trays are assembled

Jan 28, 2026

Evaluation of cable tray and conduit systems using the

Cable tray and conduit systems exhibit strong seismic performance, evidenced by data from 70 facilities across 14 earthquakes. Developed method provides

Mar 26, 2026

Cable Tray and Conduit System Seismic Evaluation Guidelines

Review of typical conduit and cable tray support systems in the earthquake experience and shake table test data base indicates that many overhead mounted support types are inherently ductile for lateral

Jan 06, 2026

Seismic cable bracing solution brochure

Tested by an independent lab and stamped by a Professional Engineer, the seismic cable kits are designed to brace non-structural equipment and distribution systems to help minimize damage from

Mar 15, 2026

Seismic fragility analysis of suspended cable trays in civil buildings

The cable tray is a kind of non-structural component used to distribute the electric cable, which plays a vital role in maintaining the function of the building. Post-earthquake investigations

Oct 02, 2025

Seismic Bracing Systems for Cable Trays Catalog

All our seismic Wire Rope/Cable™ bracing, complies with model building codes, and installs in just one-third the time needed for more conventional pipe, angle, and

Feb 26, 2026

E-Line Seismic

EAE Seismic Support Systems offer rigid solutions for installations that require earthquake protection. The seismic supports, which can be utilized in any type of

Contact Us

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