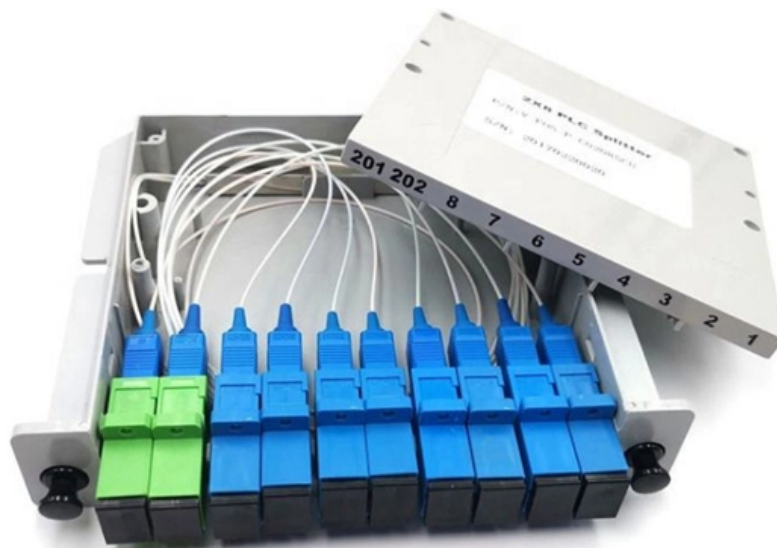




**Adam Tas Corridor Energy**

# **Installation of seismic bracing for tunnel cable trays**





## Overview

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Connect cables directly to 3/8" threaded rod in trapeze installations for seismic bracing. In regions prone to seismic activity, ensuring that your cable tray system is capable of withstanding such events is vital. Eaton's TOLCO seismic bracing solutions help protect people and non-structural components during an earthquake. A number of shake table tests on portions of cable tray and conduit systems confirm these observations from past earthquakes and demonstrate that typical configurations perform well under repeated high-level seismic input test spectra on the order of 1.



## Installation of seismic bracing for tunnel cable trays

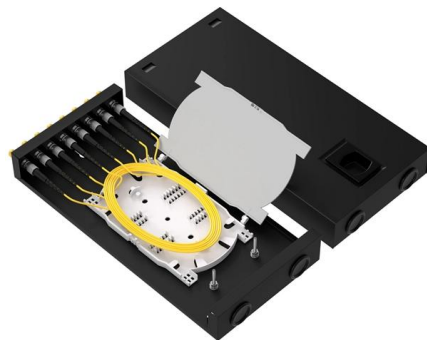


### Seismic Bracing Kit , Seismic Bracing , Wire and Cable Hangers , Wire

Kit contains items needed for seismic bracing long cable tray runs. Each kit contains: (4) 11' cables with mounting eyelets (2) Metal brackets for attachment to support members (4) Cable clamp collars (4)

### Seismic and cable tray solution flyer

Our team of experts can help you select the best cable tray series for your application, as well as designing your seismic bracing layout to ensure it meets applicable building codes and standards.



### 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

## EARTHQUAKE PROTECTION

Pipe, Cable Trays, Bus Ducts & Conduit Bracing  
Details Cable Bracing SWIVEL FASTENER (TYP.)  
SEISMIC TENSION LOAD (REACTION) STIFFENER



### Seismic Cable Restraint Kits

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



### Performance-based optimum seismic design of cable tray system

The seismic performance levels of cable tray systems are presented according to current seismic design codes. A performance-based optimum seismic design procedure for cable tray



### 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





## Cable Tray and Conduit System Seismic Evaluation Guidelines

Rigid-mounted conduit and cable trays are inherently very stable and subject to minimal seismic amplification. A detailed dead load design review of these systems provides ample margin for



### Seismic

Non-structural elements are considered to be not part of the supporting framework of the building. Typical non-structural elements are building claddings, facades or suspended ceilings, but also

## Seismic fragility analysis of suspended cable trays in civil buildings

This study aims to understand the seismic fragility of typical suspended cable trays in civil buildings through full-scale shaking table tests and numerical simulation. Based on the shaking table



## Performance-based optimum seismic design of cable tray system

A performance-based optimum seismic design procedure for cable tray systems is given and verified by three studied cases.



## How to install Seismic Cable Bracing

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



## Seismic cable bracing solution brochure

The B-Line series seismic bracing cable kits, featuring the patented KwikWire™ tool-less clamp, are up to 50% faster to install over traditional cable bracing methods.

## Appendix 3F Cable Trays and Cable Tray Supports

This appendix provides the design criteria for seismic Category I cable trays and their supports. Seismic Category II cable trays and their supports are also designed utilizing the design criteria of this appendix.





## Seismic Bracing Installation Best Practices: Strut

Seismic Bracing Installation Best Practices: Strut Bracing for Trapeze Applications and Accessories In part two of nVent CADDY's three part video



## Seismic Bracing Kit , Seismic Bracing , Wire and Cable Hangers , Wire

Connect cables directly to 3/8" threaded rod in trapeze installations for seismic bracing. Use 2 EZ BN 3/8 to attach cables to FAS PCH for sway bracing. Predrilled tabs allow attachment directly to concrete



## SOLUTIONS

Engineer certified designs and site inspections Ezystrut offers a range of seismic solutions that comply with Australian Standard AS1170.4. Our one-stop solution for seismic bracing, cable tray, pipe

## 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



## SEISMIC BRACING OF A DISTRIBUTED CABLE TRAY SYSTEM

The proprietary channels provided an effective method of transferring lateral forces from the upper and lower levels of cable trays to the HSS bracing elements, however the middle level of cable trays did



## Understanding Seismic Support for Electrical Installations

Explore the essential guidelines for seismic support in electrical installations, focusing on cable trays and their critical role in ensuring system safety during earthquakes. Learn about key spac



## Seismic Catalog

Seismic bracing shall not limit the expansion and contraction of systems; the engineer of record shall ascertain that consideration is given to the individual dynamic and thermal properties of



## Seismic Cable Restraint Kits

Overview 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



## Seismic Proof Systems

This typically includes: pipe and duct bracing, fan coil unit bracing, cable tray bracing, floor mounted components, light fitting details. This document covers the rules of

## 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 high-seismicity region? Contact our team



## Seismic MEP Solutions , Eaton

First, lateral braces, also called transverse braces, are installed across or perpendicular to the system. Second, longitudinal braces are installed parallel to the system.



## Cable & Pipe Supports

In Australia, seismic compliance is mandated by Section 8 of AS1170.4 (2007). EzyStrut offers a range of seismic solutions that comply with AS1170, and our one-stop range of seismic bracing, cable tray



## Contact Us

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For datasheets, pricing, or custom telecom energy solutions, please visit:  
<https://www.koskolong.co.za>