

Article Overview

Cable tray edge sealing protects cables from sharp edges, environmental exposure, and fire hazards using grommets, edge strips, fireproof pillows, or weatherstop systems.

Mechanical Edge Protection

Edge protection strips and grommets are commonly used to prevent cable damage from sharp metal edges. Edge protection strips, often with a steel core and UV-resistant coating, cover cut metal edges along cable trays, providing a durable barrier against abrasion and mechanical stress (OBO) . Flexible PVC grommets, such as EdgeGuard, fit edges of 0.8 to 6 mm thickness and are available in circular or oval shapes for flat or ribbon cables. They relieve strain, prevent kinking, and offer a neat finish for cable routing (HellermannTyton) . Snap Track edge protectors are another option, providing flexible PVC trim for continuous cable runs without additional conduit connections (TechLine Mfg) .

Fireproof Sealing

For fire safety, intumescent fireproof pillows like AF BAGS are used to seal cable tray penetrations in walls or floors. These pillows expand under heat to block fire and smoke, certified up to EI 240 (EN 1366-3). They are suitable for cables up to 21 mm in diameter and can be inserted into thin structures without additional framing. AF BAGS are repositionable, non-toxic, and facilitate maintenance or modifications (AF Systems) .

Weatherproof Sealing

Weatherstop systems provide protection against water, chemicals, and corrosion for cable tray penetrations in walls or floors. WSP units use a steel frame with water-resistant pads and silicone-based sealant to create a weathertight seal. They accommodate any cable size, are NEMA classified up to 4X, and are suitable for hazardous, exterior, and wet environments (Dorn CSD) .

Summary

Choosing the right edge sealing method depends on the application:

- o Mechanical protection: Edge strips, grommets, or Snap Track edge protectors.
- o Fire safety: Intumescent pillows like AF BAGS.
- o Weatherproofing: WSP weatherstop systems. Proper edge sealing ensures cable longevity, safety, and compliance with mechanical, fire, and environmental standards.



Cable tray edge sealing fabrication

A 200 mm cable tray bend means the tray width is 200 mm. Tools & Materials Required:

Cable Tray Penetration Seals Additional Information (Contact us to receive information in hardcopy form.)

Problem: In the event of a

Use dedicated splice plates and bolts. Ensure firm electrical continuity through grounding jumpers at each

In designing supports for a cable tray system, consideration should be given to the loads associated with future cable additions and

Cable Tray, trunking and ladder will be properly supported and stacked in a flat surface. Tray, trunking and ladder will

Cable Trays and Accessories are designed to meet most requirements of cable and electrical wire installations and comply to local

Provide all materials and labor for the installation of a cable tray system for communications infrastructure. This section includes

Protect against moisture with cable entry seals Our Raychem cable entry seals (CES) are water-tight, heat-shrinkable products

The Cable Tray Institute (CTI) was founded in 1991 to support the cable tray industry by engaging in research, development,

Cable trays are available in different configurations, straight sections are available to route cables in a horizontal or vertical plane.

Snap Track Edge Protector is a flexible PVC trim that enables the user to continue to run without the use of a conduit connection or

The document provides instructions for forming various bends and joints in electrical trunking and cable trays. It describes: 1) How to

Hot dip galvanizing after fabrication creates a much thicker coating than the pre-galvanized process, a minimum of 3.0 ounces per

FIRSTO firestops are designed to seal multi-cable and cable tray penetrations of fire-rated walls and floors. FIRSTO fire stops are

Cable tray edge sealing fabrication

Installation Guideline: For maximum cable protection install Snap Track Grommets wherever conduit knockouts are used without

This document provides information about cable trays and accessories, including straight cable trays, perforated trays, returned edge

Web: <https://www.morwarreconst.co.za>

