Cable hole wrapping on top of cable tray



Overview

Cable Tray Technical Guide A practical guide to product selection and. The choice of method should be discussed with a local inspector. The best decision.

Key Takeaways

Top-side cable tray wrapping is an effective fire protection method using specialized wraps like PROMASEAL® SupaWrap or FireMaster Cable Wrap, installed with proper fixings and sealants to maintain fire resistance.

Purpose of Cable Tray Wrapping

Cable tray wrapping is primarily used to protect cables from fire exposure, maintain the integrity of electrical systems, and comply with fire safety standards. Wrapping can prevent heat damage, maintain circuit continuity, and reduce smoke and flame spread in industrial or sensitive environments. Top-Side-Only WrappingFor cable trays penetrating fire-rated walls or concrete slabs, top-side-only wrapping is a recognized method.

The PROMASEAL® SupaWrap, for example, can be installed only on the top of the cable tray, fixed to the wall on each side with screws and washers, and sealed with acrylic sealant at the joints. No sealant is required at the top of the wrap itself. This method maintains a fire rating of FRL -/120/120 when used with a bulkhead sealer system.

It is suitable for PVC or XLPE insulated power cables with copper conductors.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Full Encapsulation Wrapping

Products like FireMaster Cable Wrap provide full encapsulation using glass fiber reinforced aluminum foil. Installation involves overlapping blankets, sealing cut edges, and securing with stainless steel bands at specified intervals. This method ensures extended fire exposure protection and is particularly useful for high-risk or critical installations.

Installation Considerations

Fixings: Use screws and washers at recommended spacing (e.g., 100mm and 500mm above the batt face for SupaWrap) or stainless steel bands for FireMaster wraps. Spacing: Maintain proper spacing to prevent sagging and gaps, typically 8–12 inches between bands. Sealants: Use compatible acrylic or fire-rated sealants at joints to ensure continuity of protection.

Cable Types: Confirm compatibility with cable insulation (PVC, XLPE) and conductor type (copper or steel) to ensure fire test results are applicable. Tray Type: Ventilated or solid-bottom trays can be wrapped, but ensure the wrap does not interfere with heat dissipation or cable bend radius. ApplicationsTop-side or full-wrap solutions are widely used in industrial, nuclear, and commercial projects, particularly where fire safety is critical.

They can be applied to cable trays, conduits, and ventilation ducts, providing flexible solutions for various construction environments. SummaryTop-side cable tray wrapping is a practical and tested fire protection method. Choosing between top-side-only or full encapsulation depends on the fire rating requirements, cable type, and installation environment.

Proper fixings, sealants, and adherence to manufacturer guidelines are essential to maintain fire resistance and system integrity.

Article Content

Cable Tray Technical Guide A practical guide to product selection and ...

The choice of method should be discussed with a local inspector. The best decision may be to extend only the cables, creating a discontinuity in the cable tray.

Connecting Cable Trays: Your Guide to Secure and

Learn common methods for connecting cable trays safely and efficiently. Our guide covers splice plates, quick-connects, and key tips for

Cable tray manual

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Instead of large conduits, cable channel may be used very effectively to support cable drops from the cable tray run to the equipment or device being serviced and is ideal for cable tray runs involving a

FireMaster Cable Wrap

FireMaster Cable Wrap is approved by Factory Mutual for fire protection of grouped electrical cables according to fire testing protocols required by the American Petroleum Institute.

Document DICOS

Wrapping cable tray in a flame-resistant blanket might create a cable-heating problem without a fire. Installing a physical fire shield beneath a cable tray system may provide only limited improvement

How to Avoid Damaging Cables During Cable Tray

Learn expert tips on how to avoid damaging cables during cable tray installation. Our guide covers planning, installation, and maintenance for cable

Cable Tray Installation Guide | NEMA VE 2-2018

NEMA VE 2-2018 Cable Tray Installation Guidelines. Learn best practices for cable tray installation, support, and accessories.

How to Fix Common Cable Management Issues using

Discover common cable management problems and how cable tray accessories effectively solve them to ensure safety and performance.

Guide to cable support systems

Widths of 8 and 15 millimetres enable flexible adjustment to different cable trays, cable ladders and cable volumes. With the help of the matching SBV tightening strap locks and 576 spring chuck, the

Technical Bulletin 15

This technical bulletin is to announce that the PROMASEAL® SupaWrap can now be installed top side only for cable trays that are fixed to a fire rated wall and penetrate through an opening in a concrete

How to Install Cable Tray: A Comprehensive Guide to Different Cable ...

Welcome to our step-by-step guide on installing cable trays! In this video, we''ll explore the different types of cable trays available and provide detailed instructions for their installation.

Tape Wrapping Wire & Cable Harnesses Guide – ZT

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

This tape wrapping wire and cable harnesses guide covers generic methods for applying insulating, thermal or EMI tape materials which can be helically wound around a wire or cable bundle.

Cable Laying: Everyting You Must Know

After determining the routing of the cabling, a structured cabling project initially needs to consider the laying of cable trays, which can be made of metal, conduit, or plastic (PVC) tubes based on the

Wiring in Cable Trays: Your Guide to Tidy and Safe

Learn essential principles for wiring in cable trays. Our guide covers segregation, fill, bending, grounding, and labeling for safe, tidy, and reliable cable

Cable routing | Tips for proper cabling | Simply explained

Advantages of cable trays: They offer a robust solution for routing cables and keep them neat and organised. Their closed structure protects the cables from external influences such as dust, moisture

A Guide to Installing and Supporting Electrical Cable Trays

A professional guide to installing electrical cable tray systems per NEC Article 392. Covers support, securing cables, and fill calculations.

11 Types of Cable Tray Covers and How to Choose It New

Cable tray is a structure for supporting and organizing cables. Usually, it has another section that encloses the cables within the tray called a “cover” or “lidding” section. That is, it covers

Best Practices for Cable Tray Design

Cable tray design is an essential practice in electrical infrastructure and network projects. It ensures the organization, safety, and efficiency of the system, as well as facilitating maintenance ...

Related Video Reference

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

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved

Contact Us

Continue your research online:

Website: https://fdsoluciones.es
Technical inquiry: https://fdsoluciones.es/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 FD SOLUCIONES OPTICAL SYSTEMS - All rights reserved