ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Fireproof and fire-resistant cable trays in the UK



Overview

Fire-resistant trunking and cable trays are specifically engineered to withstand high temperatures and prevent the spread of flames.

Key Takeaways

Fireproof cable trays in the UK are available in wire mesh, steel, and GRP designs, meeting fire resistance standards such as DIN 4102-12 with E30, E60, and E90 ratings.

Types and Materials

Wire Mesh Cable Trays: Cablofil fire-resistant cable trays are widely used for low and high voltage cables, supporting Prysmian FP and Draka Firetuf fireproof cables. These trays are tested according to the German DIN 4102-12 standard, ensuring continued service and electrical integrity during fire events for 30, 60, or 90 minutes (E30, E60, E90) and are suitable for construction, power, oil, gas, petrochemical, rail, and utilities industries .

Steel and Stainless Steel Trays: Hermi Solutions offers E90-rated steel and stainless steel cable trays, including standard and lightweight options, designed for fire-resistant cable paths with surface cable laying .

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GRP (Glass Reinforced Polyester) Cable Trays: MITA GRP cable trays, used in Network Rail and London Underground projects, provide high corrosion resistance, fire retardancy, low smoke, and zero halogen properties. They are available in solid or slotted bases and are ideal for high-load and fire-critical applications .

Fire Protection Accessories

To enhance fire safety, intumescent products are used alongside cable trays:

• Intumescent pillows and pads expand under heat to seal gaps in trunking or cable trays, providing up to 3–4 hours of fire protection .

• Fireproof cable cleats like Ellis Patents Phoenix Cleats maintain cable integrity during fire events .

• Sleeves and wraps protect cables passing through walls, floors, or ceilings .

Standards and Ratings

• DIN 4102-12: German standard used in the UK for fire testing cable trays, simulating temperatures up to 1000°C for 30, 60, or 90 minutes .

• E30, E60, E90 Ratings: Indicate the duration (in minutes) a cable tray system can maintain functionality under fire conditions .

• BS476/ASTM E84 and BS6853/NES 713: Relevant for GRP trays in rail and tunnel applications .

Suppliers in the UK

• Thorne & Derrick UK: Offers Cablofil fireproof cable trays, fire-resistant cables, and accessories .

• HSP Fire Protection and Envirograf: Provide intumescent pillows, pads, and trunking solutions for fireproofing cable systems .

• Hermi Solutions: Supplies E90-rated steel and stainless steel cable trays .

• Direct Channel UK: Offers a wide range of cable containment systems including galvanized trays, ladder racks, and accessories .

• Mita (Schneider Electric): Specializes in GRP cable trays for rail and tunnel infrastructure .

Installation Considerations

• Ensure compatibility with fire-resistant cables (e.g., Prysmian FP400/FP600, Draka Firetuf).

• Use fireproof cleats and intumescent pads to maintain cable integrity and prevent fire spread.

• Verify fire performance test reports for the selected tray system.

• Follow BS 7671:2019 and BS 8519:2020 guidance for electrical installations in fire-critical environments .

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Fireproof cable trays in the UK provide a combination of mechanical support, fire resistance, and compliance with safety standards, making them suitable for industrial, commercial, and infrastructure projects where maintaining electrical integrity during fire is critical.

Article Content

Cablofil Cable Basket

Cablofil fire resistant and fire proof cable trays are increasingly specified in the construction, power, oil, gas, petrochem, rail and

Trunking & Cable Trays

Intumescent pads are adhered to the inside of steel, UPVC and PVC electrical trunking where it passes

Fire Rated Cable Encasements: Invicta Durasteel

Our 4-hour fire rated cable encasements provide comprehensive fire and blast protection, shielding cables from fire and containing

Trunking and cable trays

Our range of trunking and cable trays products are ideal fire protection solutions for electrical services passing between walls, floors

Cable Basket

Cablofil fire resistant cable trays are installed to provide cable support for Draka Firetuf and Prysmian FP type fire resistant cables in

Trunking and Cable Tray Protection

Fire-resistant trunking and cable trays are specifically engineered to withstand high temperatures and prevent the spread of flames.

Trunking and cable tray protection

Our range of trunking and cable tray protection products provide effective fire protection for pipes, cables and trunking within floors,

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Fire protection solutions to protect cables, cable trays and cable systems. Discover our tested cable

Fire resistant cable tray | Hermi-solutions

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Cable trays are intended for the construction of fire-resistant cable paths. Do you need help with your

Trunking and Cable Trays

Intumescent Trunking Pillows (Product 27) Reinforced glass cloth pillows filled with fire-stopping sponge and intumescent material.

Fire-Resistant Cable Trays in High-Risk Environments

Explore the importance of fire-resistant cable trays in high-risk environments. Learn about

Fire-Rated Cable Tray Supplier: Safety Compliant

Where You Need Fire-Rated Cable Trays I always think about Fireproof Cable Trays for

Fire Resistance Testing of Cable Trays: Key Standards

Are Your Cable Trays Fireproof? Here''s How to Find Out When a fire breaks out, the last

Fire Rated Cable Tray, Heavy-Duty Cable Tray Manufacturer

Fire Rated Cable Trays that are crafted from premium materials like stainless steel, galvanized steel, tempered glass, and fire

Fire Resistant Cable Tray

The cable tray is fabricated from premium steel and coated with a durable fire-resistant powder finish that provides enhanced

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Fire Safety Considerations for Cable Trays: Protecting

Learn about essential fire safety measures for cable trays to safeguard your electrical

Technical Guidelines for Cable Tray Installation and

6. Fireproofing Measures for Cable Trays 6.1 Material Requirements Fire-resistant trays must be made

Electrical Cable Tray Fire Protection

Operations Electrical Cable Tray Fire Protection One of the most significant fire protection requirements for processing

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How Does Fire Protection for Cable Trays Contribute to Overall ...

Regular maintenance, compliance with regulatory standards, and the use of fire-resistant materials are key

News

When it comes to ensuring the safety and longevity of electrical installations, fire resistance and retardation in low-voltage cable trays

Advanced Fire Resistant Cable Tray | Maximum Heat

Top-quality fire resistant cable tray with N1 fire rating, 5-12 mm fireproof core, superior heat insulation,

Fire safety | Solutions | Legrand United Kingdom

Fire safety can be a complicated subject when it comes to specifying and designing cable management systems. To help support our

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Fireproof Cable Tray Enclosures: Keep Cabling Systems Safe

Sinisi Solutions works with major utilities and clients to design cable enclosures that protect critical cabling and cable tray setups

Heat Insulation and Protection Measures for Fireproof Cable Trays

Introduction Importance of Fireproof Cable Trays in Electrical Infrastructure Fireproof cable trays serve as the unsung

Cable Trays | Cable Management Trays

Hot Dip Galvanised Steel Cable Tray: Zinc coating protecting the tray from chemicals, high temperatures and high moisture, making

Guide to Fire-blocking Sections (Fire Sections/Fire Partitions) of ...

In the power industry, the installation of fire-blocking sections (fire-proof sections/fire-proof partitions) on cable trays is

Fireproof Cable Support System

Our Fireproof Cable Support System is heat resistant, prevents cables from falling and support trunking from collapsing in the event

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Maintenance Electrical Cable Tray Fire Protection One of the most significant fire protection requirements for

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Our 4-hour fire rated cable encasements provide comprehensive fire and blast protection, shielding cables from fire and containing

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Technical inquiry: https://zithatech.co.za/contact.html

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

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