ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Specifications and dimensions of flame-retardant plastic cable trays and wire ducts



Overview

FRP Cable Tray Specifications and DetailsThe trays are guaranteed for eighteen months and made from UV resistant and fire retardant materials. It includes.

Key Takeaways

Flame-retardant plastic cable trays and wire ducts are typically made from rigid PVC with UL94 V-0 fire rating, low smoke emission, and come in standardized widths, depths, and lengths to accommodate various cable volumes.Material and Fire Safety Specifications

Flame-retardant cable trays and wire ducts are commonly manufactured from rigid polyvinyl chloride (RPVC), often modified to be low smoke, flame-retardant, and high impact resistant. They are designed to resist fire propagation and emit minimal smoke, with UL94 V-0 flammability rating, RoHS and REACH compliance, and continuous use temperatures up to 60–90°C depending on the product . Halogen-free variants are available to reduce toxic gas emissions, making them suitable for poorly ventilated areas such as aircraft, rail, and industrial enclosures .

Standard Dimensions

Cable trays and wire ducts are available in a range of widths, depths, and lengths to meet different cable management needs:

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• Widths: Common nominal inside widths include 25 mm, 50 mm, 100 mm, with outside dimensions slightly larger due to side rail thickness .

• Depths/Heights: Side rail heights vary to control vertical stacking capacity and ensure compliance with cable fill standards and heat dissipation requirements .

• Lengths: Standard wire duct lengths are typically 6' 6 3/4" (approx. 2 meters), often packaged as 6' with the extra 3/4" included for free .

• Material Thickness: Designed to balance structural strength with flexibility for installation in control panels and enclosures .

Design Features

• Slotted or fingered ducts: Allow wires to be organized and directed in/out of the duct; removable fingers enable customization of openings .

• Covers: Snap-on or adhesive-backed covers protect cables and simplify maintenance .

• Color Coding: Black for general use, blue for intrinsically safe circuits, aiding in identification in complex installations .

• Mounting: Adhesive tape or pre-punched holes facilitate easy installation in panels or enclosures .

Applications

These flame-retardant plastic cable trays and wire ducts are widely used in:

• Industrial control panels and machinery

• Data centers and telecommunication racks

• Transportation systems (rail, aircraft, ships)

• Areas requiring low smoke and halogen-free materials for safety

Summary

When selecting flame-retardant plastic cable trays or wire ducts, consider material properties (UL94 V-0, low smoke, halogen-free), standard dimensions (width, depth, length), and design features (slotted/fingered, covers, color coding) to ensure compliance, safety, and efficient cable management. Popular standard sizes include 25x25 mm, 25x50 mm, and 100x50 mm, with customization options available for specific project requirements .

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Salzer PVC FRLS Cable Duct Overview

The document discusses Salzer''s PVC FRLS cable ducts, which are made of specially compounded, flame retardant

FRP Cable Trays

These trays are lightweight, flame retardant, non-magnetic, and UV-stabilized,

Cable Tray Dimensions Guide: Standard Sizes, Tray Types & Sizing

Explore standard sizes by tray type, understand width and depth limits, and see how to calculate and choose compliant

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Fire Risk and safety Increasing awareness of safety of people and property from fire risks is driving development of fire performance

CABLE TRAYS

Corrosion To earth the system Resistance to chemical agents Resistance to flame propagation Electrical continuity

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The ribbed ducts are made of self-extinguishing thermoplastic that complies with UL standard 94 V0 and is resistant to abnormal

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What are insulation materials used in tray cable? For most PLTC the insulation is PVC. In 600V rated VNTC, each

Technical bulletins | Cable Tray Institute

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NEMA Cable Tray Technical Bulletin 8, Bonding Jumpers Not Required for Standard Cable Tray Splice Plates NEMA Cable Tray

Firestop

3MTM† Fire Barrier CS-195+ Composite Sheets Features & Benefits Ideal for fire-stopping blank openings and through-penetrations

Wire conduits, cable conduits, cable protection

No cable can meet the demands posed today in terms of abrasion resistance, tensile strength and form consistency or impact

Cable Tray

Cable Tray Cable trays are mechanical support systems that provide a rigid structural system for electrical cables, raceways, and

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Fire performance classes: Flame retardant (FRLS), Low smoke fumes (LS), Fire resistant (FRHF), Low smoke, Halogen free and Fire

FRP Perforated Cable Tray Specifications

This document provides technical specifications for fiber reinforced plastic (FRP) perforated cable trays manufactured by Fibertech

PVC CABLE TRAY

PVC CABLE TRAY SYSTEMS Basor PVC Cable Tray is a non-conductive, non-corrosive, lightweight and impact resistant cable

What is a Flame Retardant cable and Fire Resistant cable

When to use Flame Retardant and when Fire Resistant cables, what the differences are and how to do the right choice for any

TRAY CABLE

TRAY & POWER CABLES Description: Three copper conductors, stranded and insulated with heat and moisture resistant,

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Wiring Duct

ring Ducts. This helps ensure general safe wiring practices a e followed. In actual practice, a 50% wire fill is the maximum amount of

FRP Cable tray

Ferrotech FRP cable trays have been tested by independent authorities as per various specifications Our cable trays are

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Not all cable trays are equivalent. The mechanical and electrical characteristics, tests, certifications, overall quality management,

Wire and Cable Application Guide

A guide to determining the suitability of UL Certified, Listed, Classified and Verified wire and cable for use in a specific installation.

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