

How to apply a category for painting cable tray supports



Overview

For an overview of tray system types and applications, see cable tray raceways for additional context.

Key Takeaways

Cable tray supports can be painted by preparing the surface, selecting a suitable protective paint, and applying it using methods that ensure adhesion, durability, and corrosion resistance.

Surface Preparation

Before painting, ensure the cable tray supports are clean, dry, and free of dust, dirt, or oils. Some metal trays, such as Cablofil EZ trays, already have a clean, paintable surface with the correct roughness for adhesion, so no special cleaning beyond dust removal is required. For other metal types, light sanding or degreasing may improve paint adhesion.

Paint Selection

Choose a paint type based on the environment and desired protection:

- Epoxy paint: Excellent for chemical resistance and industrial environments.
- Polyurethane paint: Offers superior weather resistance and durability.
- Dry Fall (Drop Dry) paint: Ideal for ceiling installations; paint droplets dry quickly and fall safely, reducing overspray hazards.

- Powder coating: Provides a robust, environmentally friendly protective layer, suitable for long-term durability and aesthetic consistency .

Application Methods

- Spray painting: Common for uniform coverage, especially for large or complex supports .
- Brush or roller: Suitable for small areas or touch-ups.
- Dry Fall application: Recommended for overhead installations to prevent wet paint from dripping onto floors or equipment .

- Powder coating: Requires electrostatic spraying and high-temperature curing for a durable finish .

Additional Tips

- Apply multiple thin coats rather than a single thick coat to prevent runs and ensure even coverage.
- Allow adequate drying time between coats according to the paint manufacturer's instructions.
- Consider color coding or visual identification if the paint category is used for classification or safety purposes.
- Ensure ventilation and personal protective equipment (PPE) are used during painting to comply with safety standards. By following these steps, cable tray supports will achieve enhanced corrosion resistance, improved aesthetics, and long-term durability suitable for industrial or commercial electrical installations .

Article Content

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A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Full cable tray systems specification document

B. Cable tray systems are defined to include, but are not limited to straight sections of [ladder type] [trough type] [solid bottom type]

CABLE TRAY SYSTEMS GUIDE

The Ladder Tray features light, rugged, tubular steel construction. It is designed for mechanical support and strain relief in long runs

Cable Tray Technical Guide A practical guide to product selection

SOLID-BOTTOM CABLE TRAY Providing additional cable protection, solid-bottom cable tray is sometimes preferred to support and

Installation Of Cable In Cable Trays: NEC, Safety

For an overview of tray system types and applications, see cable tray raceways for additional context. For over thirty years, the use

Types of Cable Typically Used in Cable Tray

Types of Cable Typically Used in Cable Tray The purpose of a cable tray system is to support, route, and protect cable as part of the

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

