

Article Overview

Steel cable trays are commonly made from pre-galvanized, hot-dip galvanized, or stainless steel, offering durability, corrosion resistance, and suitability for indoor and outdoor applications.

Types of Steel Used

Steel cable trays are typically manufactured from strip steel, which is formed into trays with various heights, widths, and configurations. The main types include:

- o Pre-galvanized steel: Steel coated with zinc before fabrication, providing basic corrosion resistance suitable for indoor or mildly corrosive environments .
- o Hot-dip galvanized steel: Steel dipped in molten zinc after fabrication, offering superior corrosion protection, especially for outdoor or industrial environments .
- o Stainless steel (AISI 316L or similar): Contains chromium and molybdenum, providing excellent resistance to corrosion, including in marine or highly corrosive environments .

Finishes and Protection

The choice of finish affects the tray's longevity and maintenance requirements:

- o Electro-galvanized: Thin zinc coating, suitable for light-duty applications.
- o Hot-dip galvanized: Thicker zinc layer, sacrificially protects steel even if scratched, ideal for heavy-duty or outdoor use .
- o Stainless steel: Naturally forms a protective oxide layer, highly resistant to pitting and stress corrosion .

Design Considerations

Steel cable trays are designed with features such as:

- o Side return flanges for increased load capacity and cable protection .
- o Slot patterns for easy cable tie placement and ventilation.
- o Variety of heights and widths to accommodate different cable loads, typically ranging from 50 mm to 600 mm in width and 50 mm to 100 mm in height, with custom sizes available .
- o Double return flanges to prevent cable damage and improve structural integrity .

Standards and Compliance

Steel cable trays are manufactured to comply with international standards such as BS EN 61537:2023, NEMA,

Cable tray steel strip material

and cabling standards like CENELEC EN 50173-1 and ISO/IEC 11801-1:2017, ensuring safety, reliability, and compatibility with electrical installations .

Applications

- o Industrial and commercial buildings: For heavy-duty cable routing.
- o Outdoor and marine environments: Hot-dip galvanized or stainless steel trays resist corrosion.
- o Future-proofing: Steel trays can accommodate increased cable loads, typically designed with a 25% margin for future expansion . Choosing the correct strip steel material and finish ensures long-term durability, corrosion resistance, and safe cable management in the intended environment.

Choose from our selection of cable trays, including over 850 products in a wide range of styles and sizes. Same and Next Day Delivery.

The work covered under this section consists of the furnishing of all necessary labor, supervision, materials, equipment, tests and

Cable Trays Clear cable routing - Organized and safe cable management, easy maintenance, helps prevent failures. Strong and

SFSP cable trays and accessories from SFSP are manufactured from steel sheets in accordance with BS EN 10130/BS EN 10131/

Eaton

Cablofil® Products Cablofil is the global gold standard for total cable management. Explore the one-stop shop for innovative, fast,

The platform and merchants assume no related legal liability. Durable rubber construction for long-lasting protection Made from high

Cable Tray Materials: Most cable tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an

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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 steel strip material

Delivering engineered solutions in cable management ABB manufacturers a comprehensive range of cable tray systems and

Steel Cable Tray Steel Cable Tray systems are Certified CSA Cable Tray, UL listed, and NEMA certified

Cable Tray Fitting - Barrier Strip Barrier strip is supplied in 2,4m with option of 1.0mm thick Galvanized, 1.5mm thick Hot Dip

Cable trays have become a necessary part of industrial and commercial construction. Cable trays are capable of supporting all types

Wire Mesh Tray System Wire mesh trays, fittings, barrier strips, covers, accessories Ceiling Support Cable Support Wire Mesh Trays

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