Factory Cable Tray Model and Specification Table

Article Overview

Cable trays are available in various models such as ladder, perforated, and solid-bottom trays, with specifications including material, finish, load class, and span.

Common Cable Tray Models
o Ladder Tray
o Description: Open structure with side rails and rungs, ideal for heavy-duty cables and long runs. Provides mechanical support and strain relief.
o Material: Steel (16-14 gauge), aluminum, or stainless steel.
o Finish: Pre-galvanized, hot-dip galvanized, powder-coated, or anodized aluminum.
o Applications: Data centers, equipment rooms, suspended ceilings, and wall-mounted installations.
o Example: Hubbell NEXTFRAME(R) Ladder Tray, modular system, mounts to floors, walls, ceilings, and racks, with load class defined by support span .

o Perforated Tray
o Description: Solid bottom with perforations for ventilation and cable tie attachment.
o Material: Steel, aluminum, or stainless steel.
o Finish: Hot-dip galvanized, pre-galvanized, or powder-coated.
o Applications: Instrumentation, control cables, and areas requiring heat dissipation .

o Solid-Bottom Tray
o Description: Fully enclosed bottom for maximum protection against dust, moisture, and electromagnetic interference.
o Material: Steel or stainless steel.
o Finish: Hot-dip galvanized or stainless steel.
o Applications: Sensitive instrumentation, outdoor installations, or corrosive environments .

Key Specifications
SpecificationTypical Values / OptionsNotesMaterialSteel, Aluminum, Stainless SteelChoice depends on load, corrosion resistance, and environment Gauge / Thickness16-14 ga steel, 1.5-2.0 mm aluminumDetermines mechanical strengthFinishPre-galvanized, Hot-dip galvanized, Powder-coated, AnodizedCorrosion protection and aesthetics Width50-600 mm (2-24 in)Outside-to-outside dimensionsHeight / Side Rail50-150 mmSupports cable bundles and maintains spacingRung Spacing150-230 mm (6-9 in)Ladder tray only; affects cable support and bend radius Load ClassLight, Medium, HeavyDefines maximum load per span distance Span1-3 m typicalDistance between supports; affects tray selectionStandards / ComplianceISO 9001, ISO 14001, OHSAS 18001, UL, CE, NEMAEnsures quality, safety, and environmental compliance

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Factory Examples

o Specialized/Sigma Factory for Steel Products (SFSP): Produces steel cable trays with ISO 9001:2015, ISO 14001:2015, and OHSAS 18001:2007 certifications. Facilities in KSA, UAE, Egypt, and Lebanon, with hot-dip galvanization and automated production .
o Legrand Cable Trays: Offers ladder, perforated, and solid trays with CE marking and compliance with European directives .
o ABB Cable Trays: Provides steel, stainless steel, and aluminum trays with pre-galvanized and hot-dip galvanized finishes, suitable for various industrial environments . These tables and specifications allow engineers and designers to select the appropriate cable tray type based on load requirements, environmental conditions, and installation constraints.

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

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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

Cablofil wire mesh tray and sup-ports are designed to support any cable load allowed by the NEC when supports are spaced on 8"

Cable Trays are designed to meet most requirements of cable and electrical wire installations and comply to local and international

Fiberglass Reinforced Plastic (FRP) Cable Tray / Ladder SFSP Fiberglass Reinforced Plastic (FRP) Cable Management Systems

Many electrical systems employ cable trays. They route cables safely & efficiently. NEC defines minimum cable tray

Eaton

Visit our Download Center to access "Download Cable Tray" resources, including detailed manuals, CAD

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

type] [solid bottom type]

Cable trays are components of support systems for power and communications cables and wires. A cable tray system supports and

standards & specifications light & medium duty cable tray sizes essories do not have a return edge. Also light duty tray of widths

The data sheet provides specifications for standard cable trays and accessories. Standard cable trays are 2.5 meters in length with a

Cable tray is considered to be a system. It must provide continuous support for cables, and the electrical continuity of the cable tray

CONCENTRATED STATIC LOADS: Some applications may require the cable tray to support the weight of a single, dead object in

This document provides a general specification for cable trays for an electrical project. It outlines technical requirements, codes and

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