

Cable tray support and hanger material standards



Article Overview

Cable tray hangers must be made from materials that provide sufficient mechanical strength, corrosion resistance, and compatibility with the cable tray system, typically steel, stainless steel, aluminum, or FRP depending on the environment.

Material Selection

Steel: Mild steel is commonly used for cable tray hangers due to its high strength and cost-effectiveness. It is often galvanized (hot-dip or pre-galvanized) to improve corrosion resistance, especially in indoor or mildly corrosive environments . Steel hangers are suitable for heavy cable loads and industrial applications. **Stainless Steel:** For highly corrosive environments, such as chemical plants or outdoor installations exposed to moisture, stainless steel (AISI 316L or similar) is preferred. Its high chromium content forms a protective oxide layer, providing excellent resistance to corrosion, pitting, and stress cracking . **Aluminum:** Aluminum hangers are lightweight, corrosion-resistant, and suitable for environments where weight reduction is important. Aluminum naturally forms a protective oxide layer, making it ideal for atmospheric exposure and non-extreme industrial conditions . **FRP (Fiber-Reinforced Plastic):** FRP hangers are used in environments with high chemical exposure or where electrical insulation is required. They offer good corrosion resistance and a high strength-to-weight ratio, though they are less common than metal hangers .

Environmental Considerations...

Article Content

Dec 06, 2025

Cables Allowed in NEC Tray Applications

Cables Allowed in NEC Tray Applications Cable tray is one of the most common methods of supporting wire and cable. There are

Apr 05, 2026

Cable tray manual

Excluding conductors, the cost of the cable trays, supports, and miscellaneous materials will provide a savings of up to 80% as

Oct 08, 2025

NEMA Standards Publication VE 2-2018

Cable trays of less than 12 feet (ft.) in length should be supported in a minimum of one location, and trays over 12 ft. in length should

Oct 05, 2025

Rev 7 to Procedure SAG.CP3, "Seismic Design Criteria for Cable Tray ...

A cable tray hanger is classified as a _ seismic Category I structure, and therefore, it shall be adequately designed for the effect of

Apr 03, 2026

Cable Tray Installation Rules (NEC 392) – Electrical Trader

Core rules for selecting, installing, grounding, and filling cable trays—clearances, materials, separation, and bonding

Jan 02, 2026

NEMA Standards Publication VE 2-2018

Do not use a cable tray as a walkway, ladder, or support for people; a cable tray is a mechanical support system for cables and

Apr 10, 2026

Cable tray manual

These documents: ANSI/NEMA VE-1, Metal Cable Tray Systems; NEMA VE-2, Cable Tray Installation Guidelines; and NEMA FG-1,

May 23, 2026

CABLE TRAY SYSTEMS GUIDE

All Hubbell aluminum cable trays are classified by Underwriters Laboratories as suitable for use as equipment grounding conductors

Jun 05, 2026

Cable Tray Technical Guide A practical guide to product selection and ...

Cable tray length is selected based on the load to be supported, the distance between the supports (also referred to as the span),

Jul 27, 2026

LEGRAND CABLE TRAYS TECHNICAL GUIDE

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

Aug 24, 2025

Cable Tray

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

Jun 24, 2026

Vogtle Electric Generating Plant (VEGP) Units 3 and 4 Updated ...

The cable tray test program conducted by ANCO Engineers Inc. included more than 2000 dynamic tests of representative cable tray

Dec 09, 2025

TECHNICAL GUIDE

-Only supports, brackets or hangers designed, mechanically tested and supplied by the wire cable tray manufacturer must be used.

Sep 27, 2025

Wire Mesh Tray Technical Guide

This standard defines configurations for the mechanical tests to be performed on cable trays, brackets, hangers and other

Oct 06, 2025

SECTION 26 05 29

Coatings: Supports, support hardware, and fasteners shall be protected with zinc coating or with treatment of equivalent corrosion

Apr 17, 2026

SECTION 26 0529 HANGERS AND SUPPORTS FOR ELECTRICAL

Section 26 0536 - Cable Trays for Electrical Systems: Additional support and attachment requirements for cable tray. Section 26

Feb 07, 2026

IEC 61537:2023 | IEC

IEC 61537:2023 specifies requirements and tests for cable tray systems and cable ladder systems intended for the support and

May 18, 2026

Cable Tray Technical Guide A practical guide to product selection and ...

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

Feb 22, 2026

BEAMA Best Practice Guide to Cable Ladder & Cable Tray Systems

This document provides guidance on best practices for installing cable ladder and cable tray systems, including channel support

Mar 15, 2026

Cable tray

In the electrical wiring of buildings, a cable tray system is used to support insulated electrical cables used for power distribution,

Feb 28, 2026

Standard Support Construction Of The Cable Tray RS

Of course, the exact specifications and definitions of DIN 4102 Part 12 of November 1998, such as rail height, tray widths, hole

Jun 02, 2026

Installation of Cable Tray, Trunking And Accessories

When sufficient numbers of hangers, support, and brackets are fixed, the ladder/ tray shall be installed in position in

Nov 07, 2025

Best Practice Guide to Cable Ladder and Cable Tray Systems

Introduction This publication is intended as a practical guide for the proper and safe* installation of cable ladder systems, cable tray

Oct 05, 2025

Best Practice Guide to Cable Ladder and Cable Tray Systems

This guide covers cable ladder systems, cable tray systems, channel support systems and associated supports intended for the

Mar 24, 2026

GUIDE CABLE TRAYS TECHNICAL

This standard specifies the requirements and test methods for cable trays, cable ladders, supports and their accessories to ensure

Apr 15, 2026

Guide to cable support systems

It specifies the requirements and testing for cable support systems which are intended to support and house cables, as well as other

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