

Cable tray connector specifications



Article Overview

Cable tray connectors are designed to join, support, and maintain continuity in cable tray systems, and must comply with standards such as ANSI/NFPA 70, NEMA VE 1, and ASTM specifications.

Types of Cable Tray Connectors

Cable tray connectors include splice plates, expansion joints, tees, elbows, drop-outs, and straight couplings. These connectors are used to join straight sections, accommodate changes in direction, and allow for thermal expansion or contraction in the tray system . Common connector types include:

- Splice Plate Connectors: Used to join two straight sections of tray, ensuring mechanical strength and electrical continuity .
- Expansion Joints: Allow for thermal expansion and contraction without stressing the tray or cables .
- Elbows and Tees: Facilitate changes in direction or branching of cable runs .
- Drop-Outs: Enable cables to exit the tray at specific points .

Materials and Finishes

Connectors are typically made from steel, stainless steel, or aluminum, with various galvanized or coated finishes to enhance corrosion resistance . Common material standards include:

- ASTM A123: Zinc (hot-dip) coatings on steel shapes

Article Content

Jul 20, 2026

Cable Tray Systems Catalog

Please click the appropriate link below to view the catalog section as a PDF.

Nov 08, 2025

Cable tray

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

Jul 02, 2026

LEGRAND CABLE TRAYS TECHNICAL GUIDE

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

Sep 22, 2025

CABLE TRAY SYSTEMS GUIDE

Some applications may require the cable tray to support the weight of a single, dead object in addition to the cable loads.

Jun 15, 2026

Resources for Cable tray and ladder systems

Browse or download the cable tray catalog for more information on our full line of cable tray and ladder systems. Eaton's submittal

Dec 24, 2025

12-SDMS-06

SPECIFICATIONS FOR METALLIC CABLE TRAY SYSTEMS This document contains proprietary information developed by and for

May 31, 2026

SWIFTS CABLE TRAY

With the new Swiftclip, lengths and fittings of Swifts cable tray can be fitted without the use of specialist tools – making it even

Aug 20, 2025

CABLE TRAY

SFSP wire Basket Trays have a fast connection profile for installations requiring long runs of straight Cable Trays lengths.

Jan 14, 2026

B-Line series Cable Tray Design Considerations

Our wind certification report provides you with list of acceptable B-Line series cable tray supports, fittings and covers based off of the

Apr 09, 2026

Tray Cable UL Type TC / TC-ER – 600V

Tray Cable UL Type TC / TC-ER – 600V THHN/THWN-2 Insulation – with Ground – PVC Jacket APPLICATION: g circuits in

Mar 19, 2026

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]

Nov 17, 2025

Cable Trays and Accesories

Cable Trays and Accessories are designed to meet most requeriments of cable and electrical wire installations and comply to local

Jul 31, 2025

TRAY CABLE CATALOGUE

Tray Cable Introduction Tray cable is a multi-conductor or multi-pair or triad control, signal or power cable specifically approved

Feb 23, 2026

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

Cable Tray Technical Guide A practical guide to product selection and installation This guide for engineers and installers has been

Jul 07, 2026

Product Catalogue Cable Management Solutions

With over 20 years of experience T& B Cable Tray provides a complete solution in cable management systems including design,

May 24, 2026

SECTION 260536

SECTION 260536 - CABLE TRAYS FOR ELECTRICAL SYSTEMS Latest Update 5-6-2017
See underlined text for Edits. (Engineer

Oct 08, 2025

Mesh cable tray systems

4 1 Product description OBO mesh cable tray systems stand out through their high load capacity and good ventilation. They can be

Jan 23, 2026

CABLE TRAY, CABLE LADDER, CABLE TRUNKING CATALOGUE

Fitting and accessories. Fittings are accessories that connect this cable tray to another cable tray to changing direction with the

Nov 06, 2025

GUIDE CABLE TRAYS TECHNICAL

NEMA VE 1-2017 Specifies requirements for metal cable trays and associated fittings designed for use in accordance with the rules

Oct 01, 2025

26 05 36 Cable Trays for Electrical Systems

EATON B-LINE SERIES GUIDE SPECIFICATION Section 26 05 36 – CABLE TRAYS FOR ELECTRICAL SYSTEMS 26 05

May 05, 2026

Cable Tray SHIB NAL

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

May 18, 2026

CableTray Book English

Cable tray connector device that joins cable tray straight sections or fittings, or both. The basic types of connectors are:

Aug 03, 2025

Cable Tray Connectors | McMaster-Carr

Choose from our selection of cable tray connectors, including cable and hose trays, steel formable cable and hose trays, and more.

Sep 04, 2025

Cable Trays Selection Guide: Types, Features, Applications

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

Jan 05, 2026

CABLE TRAYS

PVC cable tray can be installed in both commercial and industrial environments. -
Damp, saline environments: ges,

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

This document is for informational purposes only. Specifications subject to change without notice.

