

Article Overview

Cable tray reducing tees are specialized fittings that allow a smooth transition between different tray widths, available in horizontal and vertical configurations, with various materials and NEMA compatibility.

Overview

A reducing tee is a cable tray fitting used to branch a main tray run into a smaller or different-width tray, maintaining structural integrity and smooth cable routing. These fittings are essential in industrial and commercial installations where cable management requires transitions between different tray sizes.

Types and Configurations

- o Horizontal Reducing Tee: Connects a main tray to a branch tray at the same horizontal plane. Ideal for long-span installations with large-diameter cables. Features include structural offsets for strong mid-span splices and reduced hardware requirements, allowing faster installation (up to 30% faster in some aluminum I-beam designs) .
- o Vertical Reducing Tee: Allows branching at different vertical levels, useful for multi-level cable routing in congested areas .

Material and Construction

- o Aluminum I-beam: Lightweight, corrosion-resistant, suitable for long spans and industrial environments .
- o Steel (Hot-dip galvanized or bare): Provides high strength and durability, often used in heavy-duty applications .
- o MIG welded or fabricated steel: Ensures structural integrity for high-load installations .

NEMA Compatibility and Classes

Reducing tees are designed to match standard NEMA cable tray classes:

- o Class 1: For NEMA 12B and 12C trays, 1-1/8" side rail flanges, 4-hole splice plates.
- o Class 2: For NEMA 20A, 20B, 20C trays, 2" side rail flanges, 4-hole splice plates.
- o Class 3: For trays exceeding 20C, 2 3/8" side rail flanges, 8-hole splice plates.
- o Class 4: Heavy-duty trays like A820E, 2 3/4" side rail flanges, 8-hole splice plates .

Dimensions and Sizes

- o Heights typically range from 50mm to 120mm, with widths corresponding to the main and branch tray sizes

Cable tray reducing tee model

o Splice plates and bolts are designed to minimize installation time and hardware usage, often requiring only four bolts per splice .

Design and Installation Features

- o Smooth transition between straight sections and branch trays reduces cable stress.
- o Mid-span splices provide structural strength with fewer supports.
- o CAD/BIM models are available for design integration, supporting multiple formats for 2D and 3D planning .
- o Compliance with standards such as ANSI/NFPA 70, ASTM A123, ISO 1461, and UL certifications ensures safety and reliability .

Popular Models and Manufacturers

- o Eaton B-Line Series: Offers a wide range of metallic ladder and tray fittings with submittal builder tools for selection .
- o Atkore I-Beam Ladder Horizontal Reducing Tee: Compatible with NEMA standard trays, available in multiple classes .
- o Legrand ITray Horizontal Reducing Tee: Aluminum I-beam design for industrial installations, optimized for long spans and large cables .
- o ABB T&B Cabletray Fittings: Steel and aluminum options with CAD/BIM support and compliance with ASTM and ISO standards . These specifications and models allow engineers and designers to select the appropriate reducing tee based on load requirements, tray width, material preference, and installation environment, ensuring efficient and safe cable management.

Shop for Cable Tray Reducers at Rexel Side coupling used to connect a straight section or fitting to the side of a CleanTray Wireway

Wire Mesh Cable Tray Reducer and Tee Junction Instructions CABLE TRAY CUTTING & BENDING GUIDES CONFIGURING

Made or assembled in Canada. Pre-galvanized steel fitting 5 inches side rail height 24 inches x 6 inches width ventilated horizontal

Discover our Horizontal Tees for cable tray systems. Contact us today for availabilities and receive a quote. Fast shipping for just in

T& B aluminum cable tray is composed of two distinct systems H-Style and U-Style. These systems are interchangeable.

Cable tray reducing tee model

Discover all CAD files of the "Cable trays" category from Supplier-Certified Catalogs SOLIDWORKS, Inventor, Creo, CATIA, Solid

What Is a Cable Tray Tee Fitting? A cable tray tee fitting is a branch fitting that connects three tray sections together, allowing cables

Please select the desired product according to technical criteria. Selectable attributes are highlighted with the table icon. Selections

Armorduct offer a comprehensive range of cable tray including light, medium and heavy duty cable tray and associated accessories

Horizontal reducing tee fitting for cable tray with ladder type bottom. Made of hot dipped galvanized steel, comes with 24 inch radius.

Horizontal reducing tee fitting for I-BEAM cable tray systems. Compatible with NEMA standard trays.

Eaton

Mechanical ventilation ducts allow take-off branches rather than tees but cable trays don't

Cable Tray Systems Guide HUBBELL Hubbell Wiring Device-Kellems and Hubbell Premise Wiring are divisions of Hubbell

I-BEAM Ladder - Reducing/Expanding Dropout Tee Ensure your cable tray solution is designed for your application, with our vast

We are offering Perforated Cable Tray Horizontal Reducing Tee to our clients. Features: Manufactured using high-grade raw

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