

Article Overview

A 20-degree curved cable tray is a pre-fabricated or modular tray fitting designed to smoothly change the direction of cable runs by 20 degrees, maintaining cable integrity and accessibility.

Overview

A 20-degree curved cable tray is used to route electrical or data cables around corners or obstacles without sharp bends that could damage the cables. These trays are part of modular systems, such as ladder trays, channel trays, or wire mesh trays, which allow for gradual directional changes while supporting cable bundles. Curved sections are essential in maintaining proper bend radius, which is critical for high-voltage, fiber optic, or sensitive data cables.

Types and Materials

- o Ladder Tray Curves: Typically made of tubular steel or aluminum, ladder tray curves provide mechanical support and strain relief for long cable runs. They are available in various finishes, including gray or black powder-coated steel.
- o Channel Tray Curves: Channel trays, like Eaton's KwikSplice system, offer pre-assembled curved fittings that can be installed quickly and modified in the field. They often include perforations for ventilation and NEC heat compliance.
- o Wire Mesh Tray Curves: Flexible wire mesh trays can be bent or connected with pre-fabricated curved sections to achieve precise angles, including 20 degrees.

Applications

- o Data Centers and Telecommunications Rooms: Smooth cable routing around racks and equipment.
- o Industrial Facilities: Routing power and control cables around machinery or structural obstacles.
- o Commercial Buildings: Concealed or exposed cable management along walls, ceilings, or floors.

Installation Considerations

- o Support Spacing: Curved sections should be supported according to NEMA VE-2 guidelines, typically within 24 inches on both sides of the curve.
- o Modular Compatibility: Ensure the curved section matches the width and type of the straight tray sections.
- o Bend Radius: Maintain the manufacturer-recommended bend radius to prevent cable damage, especially for fiber optic or high-voltage cables.
- o Mounting Options: Curved trays can be mounted on walls, ceilings, floors, or equipment racks, depending on the system design.

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Summary

A 20-degree curved cable tray is a specialized fitting that allows for precise directional changes in cable routing while maintaining cable safety and accessibility. Selecting the appropriate material, type, and support configuration ensures compliance with electrical standards and long-term reliability in commercial, industrial, or data center environments .

SFSP manufactures a wide range of products capable of providing the characteristics which respond to the

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Perforated & Solid Cable Tray Dimensional Drawing - Tray Height 25mm Outside Flange (B) 50 8 x 20 typ. 75

3 4 5 Alternatively, most trays can be hot dip galvanized after fabrication to provide a long, corrosion resistant service life even when

The Ladder Tray features light, rugged, tubular steel construction. It is designed for mechanical support and strain relief in long runs

T& B channel tray systems are fabricated from a corrosion-resistant metal (low-carbon steel, stainless steel or an aluminum alloy) or

Category: 90°; Vertical Inside Cable Tray Bend Company wide: Ladder Rack Curved Section, Inside Bend, 18" Ladder Rack Curved

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



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

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Cable Tray Fitting, 90°; Junction Kit. Material: Carbon Steel. Finish: Electroplated Zinc. Includes: (1) Hardware for (1) Tee (2) 90°; Bends.

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