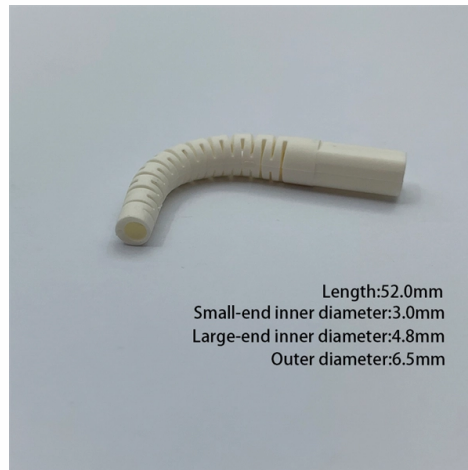


How are rounded corners made in cable trays



Overview

Trunking Cutting Techniques Guide | PDF | Metalworking | ToolsThe document provides instructions for forming various bends and joints in electrical trunking.

Key Takeaways

Rounded corners in cable trays are created by bending or forming the tray material using specialized tools or on-site techniques to ensure smooth curves that protect cables and maintain structural integrity.Methods for Creating Rounded Corners

1. Pre-fabricated Bends and Fittings Many cable tray systems come with pre-formed bends, elbows, and radius fittings. These components are manufactured in a factory using press brakes, rollers, or stamping machines to create precise curves in metal trays, ensuring consistent radius and smooth edges for cable protection .
2. On-site Bending for Wire Mesh Trays For wire mesh or basket-type cable trays, rounded corners can be made directly at the installation site. Installers often use bolt cutters or hand tools to bend the mesh into the desired shape. The cutting and bending process slightly drags the zinc coating over the edges, forming a protective layer that prevents corrosion. Rubber caps or edge protectors can also be applied to safeguard cables from sharp ends .
3. Sheet Metal Forming For solid or ventilated metal trays, rounded corners are achieved by bending the sheet metal along a curved die or using a roller. This process gradually forms the tray edges into a smooth radius. After bending, edges are often smoothed or deburred to remove sharp points and ensure safety during cable installation .

Material Considerations

The ability to form rounded corners depends on the tray material. Aluminum, stainless steel, and pre-galvanized steel are commonly used because they are ductile and corrosion-resistant, allowing smooth bends without cracking or compromising structural strength. Wire mesh trays are flexible and easier to shape on-site, while solid trays require precise tooling.

Practical Tips

- Always maintain the recommended bend radius to prevent cable damage.
- Use protective coatings or caps on cut or bent edges to prevent corrosion and protect cable insulation.
- For long runs, consider modular fittings to reduce the need for on-site bending and ensure uniformity. By combining pre-fabricated fittings, careful on-site bending, and proper material selection, installers can create rounded corners that are safe, durable, and compliant with cable management standards.

Article Content

Trunking Cutting Techniques Guide | PDF | Metalworking | Tools

The document provides instructions for forming various bends and joints in electrical trunking and cable trays. It describes: 1) How to

Assembly Guide

The assembly guide below will help the cable tray installer make the bends and others without difficulty even he had never installed

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.

Cable Tray Design and Components Guide

Tables list standard sizes and specifications for straight and bent cable trays, including width, height, thickness, materials, and

Cable Tray Technical Guide A practical guide to product selection

A practical guide to product selection and installation This guide for engineers and installers has been developed by ABB as a

Cable Trays

Cable trays distribute bundles of electrical cables from power supplies to electrical equipment and components throughout the plant.

Cable tray

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

Cable Tray

These trays can be easily attached to floor, ceiling, wall or top of racks and cabinets and can be made available in different widths,

How to Install Cable Tray: A Comprehensive Guide to Different Cable ...

Welcome to our step-by-step guide on installing cable trays! In this video, we'll explore the different types of cable trays

Cable Tray Systems

Cable trays offer continuous support of cables, are lightweight, quick and straight forward to install just about anywhere, and

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

