10060 Cable tray right angle

Overview

Right Angle Rollers 24" Installed up through the bottom of the tray for easy removal after the cable is installed Individual rollers Tubing Trays | McMaste.

Key Takeaways

A 100x60 mm cable tray right-angle fitting allows safe 90° directional changes for cable routing, ensuring compliance with bend radius and structural standards.

Overview of 100x60 mm Cable Trays

The 100x60 mm cable tray is a slotted tray commonly used in indoor and outdoor environments for light to medium cable loads. It is suitable for offices, schools, warehouses, industrial buildings, and areas with varying humidity or airborne pollutants . These trays are typically made from GRP (glass-reinforced plastic), steel, or stainless steel, offering high durability, corrosion resistance, and compliance with international standards such as DIN EN 61537, IEC, and NEC . Slotted trays provide ventilation, easier cable access, and flexibility for future expansions.

Right-Angle Fittings

A right-angle (90°) cable tray fitting is used to change the direction of the tray run while maintaining proper cable support and bend radius. Key considerations include:

• Centerline Radius (CLR): The distance from the center of the bend to the midpoint of the tray width. For a 100x60 mm tray, standard CLR sizes are often 12", 24", or 36", depending on cable type and bend requirements .

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• Bend Radius Compliance: Ensure the bend radius meets the minimum cable bend radius to prevent damage to power, control, or fiber cables. For example, power cables may require a bend radius of 12 times the cable diameter .

• Material and Load: The fitting should match the tray material and support the intended cable load. GRP trays are lightweight and corrosion-resistant, while steel or stainless steel options provide higher load capacity .

• Installation: Right-angle elbows can be installed horizontally or vertically. Proper alignment and secure fastening with brackets or hangers are essential to maintain structural integrity and cable safety .

Applications

• Indoor environments: Offices, schools, laboratories, and commercial buildings.

• Industrial settings: Warehouses, factories, and chemical plants with moderate to high humidity or airborne pollutants.

• Outdoor or coastal areas: GRP or stainless steel trays resist corrosion and UV exposure.

• Specialized installations: Raised floors, ceilings, or mobile electrical setups like commercial vehicles or campervans .

Summary

A 100x60 mm right-angle cable tray fitting provides a safe, standards-compliant solution for routing cables around corners. Proper selection of bend radius, material, and installation method ensures cable integrity, long-term performance, and compliance with NEC, IEC, and NEMA standards .

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