

RIVO MULTITRADE OPTICAL SYSTEMS

Cable tray bends 90 degrees to the left and right



Overview

Calculate cable tray bend dimensions, centerline arc lengths, setback distances, and offset configurations.

Key Takeaways

Cable tray 90° bends allow routing cables around corners efficiently, available as pre-fabricated inside/outside bends or custom-fabricated elbows. Types of 90° Cable Tray Bends

1. Horizontal Bends: These bends change the cable tray direction along the horizontal plane. They are available as inside bends (turning inward) or outside bends (turning outward) and can be pre-fabricated in steel, aluminum, or stainless steel with various widths and radii to suit light, medium, or heavy-duty trays . 2. Vertical Bends: These bends allow the tray to change elevation, either going up or down, and are also available as inside or outside bends. They are commonly used to navigate structural obstacles or transition between floors . 3. Flat Bends: Adjustable flat bends can be configured at 30°, 45°, 60°, 75°, or 90° for medium and heavy-duty trays, providing flexibility in tight spaces . 4. Fabricated or Mitered Bends: For custom installations, a straight tray section can be cut and bent to form a 90° elbow. This typically involves making two 45° cuts, notching the base, and fastening the sides together with bolts and hardware .

Materials and Finishes

- Mild Steel: Pre-galvanized (PG) or hot-dip galvanized (HDG) for corrosion resistance.

- Stainless Steel (316L): For high corrosion environments.
- Aluminum: Lightweight and suitable for medium-duty applications . Covers, either closed or ventilated, are available for bends to protect cables and maintain organization.

Installation Considerations

- Ensure the bend radius is sufficient to prevent cable damage.
- Use appropriate hardware and couplers to secure joints.
- Plan inside vs. outside bends based on space constraints and cable routing efficiency.
- For custom bends, measure accurately, cut at 45° angles, notch the base, and fasten securely to maintain structural integrity .

Summary

Using pre-fabricated 90° bends simplifies installation and ensures consistent cable management, while custom-fabricated elbows provide flexibility for unique layouts. Choosing the correct type, material, and bend radius is essential for safe, organized, and durable cable tray systems .

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Cable Tray Bend Calculator | Arc, Chord & Offset Length

Calculate cable tray bend dimensions, centerline arc lengths, setback distances, and offset configurations. Ensure compliance with

Cable Tray

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