

Mesh cable tray at 45 degrees

Article Overview

A 45-degree bend in a wire mesh cable tray can be made by selectively cutting the inside wires, bending the tray, and securing the cut sections with splice clips.

Tools and Materials Needed

- o Wire mesh cable tray
- o Bolt cutters or wire cutters
- o Splice clips or cable tray connectors
- o Measuring tape and marker
- o Safety gloves and eye protection

Step-by-Step Process

1. Measure and Mark the Bend Determine the location where the 45-degree bend is required. Mark the inside edge of the tray where cuts will be made to allow the bend . 2. Cut the Inside Wires Using bolt cutters or wire cutters, cut the longitudinal wires along the inside of the bend. For a 45-degree bend, follow the cutting pattern that leaves one row of wires between cut sections to maintain structural integrity . Only the bottom and inside side wires are cut; the outside wires remain intact to preserve the tray's strength . 3. Bend the Tray Carefully bend the tray to the 45-degree angle. The cut sections will allow the tray to flex without deforming the outside edge. For vertical bends, cut the upper side wires and bend the tray up or down as needed . 4. Secure the Cut Sections Pull the cut inside wires together and join them using splice clips or a horizontal flex splice kit. This ensures the tray maintains its shape and can support cables safely . 5. Check Alignment and Fit Place the bent tray in position and verify that the 45-degree angle aligns with the intended path. Adjust slightly if necessary before installing cables. 6. Optional Protection If desired, use rubber caps or protective coatings on cut wire ends to prevent cable damage and maintain safety .

Tips

- o Work slowly and carefully to avoid over-bending or kinking the tray.
 - o Always wear gloves and eye protection when cutting and bending wire mesh.
 - o For complex installations, consider making a mock-up or using a template to ensure accuracy.
 - o Ensure the tray material (galvanized steel, stainless steel) is suitable for the environment to prevent corrosion .
- . By following these steps, you can create a precise 45-degree bend in a wire mesh cable tray while maintaining structural integrity and cable safety.



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