

How to make a round tube cable tray



Article Overview

A round tube cable tray can be fabricated by bending metal or PVC tubing into a circular shape, cutting to length, and securing with brackets and connectors for cable support.

Materials and Tools Needed

- Material: Steel, aluminum, or PVC tubing depending on load and environment .
- Tools: Tube bender or pipe roller, hacksaw or metal cutter, drill, measuring tape, level, clamps, and fasteners .
- Accessories: Support brackets, splice plates, and end caps to secure and protect cables .

Fabrication Steps

- Design and Measurement: Determine the diameter and length of the round tube tray based on cable volume and routing path. Plan bends and entry/exit points for cables .
- Cutting Tubes: Cut the tubing to the required lengths using a hacksaw or metal cutter. Ensure clean, straight edges to facilitate connections .
- Bending: Use a tube bender or pipe roller to form the tubing into the desired circular or semi-circular shape. For large diameters, multiple segments may be joined with splice plates .
- Assembly: Connect tube sections using clamps or welding (for metal) or adhesive/solvent welding (for PVC). Ensure smooth joints to prevent cable damage .
- Support Installation: Mount support brackets along the planned path, spacing them according to the tray material and cable weight (typically 1.5-3 meters for metal tr...

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