

How to install the threaded rod of the mesh cable tray



Overview

To install: a) Thread nut onto threaded rod approximately 225 mm (9 in) above the desired location for the bottom of the cable tray.

Key Takeaways

Install threaded rods by pre-threading nuts, securing clamps, and suspending the mesh cable tray at the desired height with proper alignment and support. Step-by-Step Installation



1. Pre-thread the Nuts Before mounting, thread nuts onto the rod approximately 225 mm (9 inches) above the intended bottom of the cable tray. This can be done manually or by attaching a drill to the rod and running the nuts up while holding them with a wrench for speed and accuracy . 2. Prepare the Ceiling or Support Structure Drill holes in the ceiling or structural support (RCC ceiling, beams, or MS angle supports) and install suitable anchors for the threaded rods. Ensure the anchors are rated for the load of the tray and cables . 3. Attach Hanger Clamps Place a clamp around the side rail of the mesh cable tray. Lift the tray section and slide the threaded rod through the holes in the clamp. For center-hung supports, slide a washer and support tube through the rod, then place a square washer and thread the second nut on top . 4. Adjust Height and Level Run the bottom nut up to position the tray at the desired height. Then, tighten the top nut down to secure the tray in place. Use a level to ensure the tray is horizontal and aligned with other sections . 5. Spacing and Support Supports should generally be spaced every 1.5-2 meters, depending on the tray type and cable load. Heavier loads may require closer spacing. Ensure all rods are vertical and the tray is stable before laying cables . 6. Joining Sections When connecting multiple tray sections, use couplers or splice kits to maintain alignment. Ensure all sections are level to prevent cable strain or sagging . 7. Final Checks Verify that all nuts are tightened, the tray is level, and the threaded rods are securely anchored. Check for any potential obstacles or interference with HVAC, lighting, or other ceiling fixtures . By following these steps, the mesh cable tray will be safely suspended, properly aligned, and ready for cable installation, ensuring long-term reliability and efficient cable management.

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