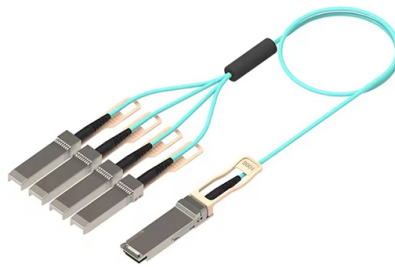


200 cable tray thickness



AI Overview

The standard thickness for a 200 mm wide cable tray typically ranges from 1.5 mm to 2.5 mm for light to medium duty, and up to 3–6 mm for heavy-duty applications, depending on material and load requirements.

Material Thickness by Duty Class

- Light Duty:** 1.5–2 mm, suitable for small control or data cables with minimal load.
- Medium Duty:** 2–2.5 mm, commonly used for standard power and communication cables in commercial installations.
- Heavy Duty:** 3–6 mm, designed for high cable loads, industrial environments, or long spans.

Material Considerations

Cable trays are manufactured from pre-galvanized steel, hot-dip galvanized steel, stainless steel, or aluminum, and the thickness may vary slightly depending on the material and corrosion protection method. For example, hot-dip galvanized trays may have slightly thinner steel due to the protective coating, while stainless steel trays may require higher thickness for structural rigidity.

Standards and Compliance

Cable tray thickness and design must comply with NEMA (USA), IEC (Europe), or UL standards, ensuring adequate load capacity, mechanical strength, and safety. The selection of thickness should also consider span length, side rail height, and environmental conditions such as temperature, humidity, and corrosive exposure.

Practical Recommendation

For a 200 mm wide tray, a medium-duty thickness of 2–2.5 mm is generally sufficient for most commercial and light industrial applications. For heavy industrial loads or long unsupported spans, 3 mm or more is recommended to prevent deflection and maintain structural integrity. Always verify the tray's load rating against the total cable weight and installation conditions.

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TECHNICAL GUIDE • Adaptation to the cable tray characteristics: thickness, height, width, addition of covers. • Optimised distribution of different cable types in the cable tray (data cables kept apart from

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