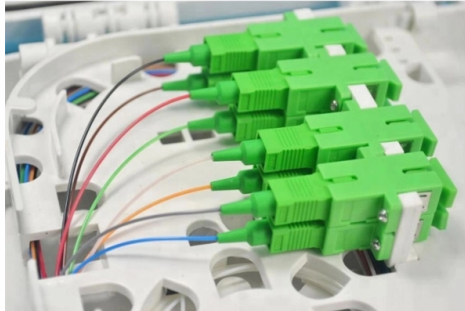


Thickness of cable tray protective layer



AI Overview

The protective layer on cable trays must meet minimum thickness requirements to ensure corrosion resistance and durability, typically defined by standards such as IEC 61537 and NEMA guidelines.

Protective Layer Purpose

The protective layer on cable trays serves to prevent corrosion, extend service life, and maintain electrical safety. Common protective methods include hot-dip galvanization, zinc coating, powder coating, and anodized aluminum finishes. The choice of coating depends on the material of the tray (steel, stainless steel, aluminum) and the environmental conditions such as indoor, outdoor, or corrosive zones .

Typical Thickness Requirements

- Hot-dip galvanized steel trays: The zinc coating thickness is usually 85–100 microns (3.3–3.9 mils) for standard indoor environments, and up to 200 microns (7.9 mils) for highly corrosive or outdoor environments .
- Electro-galvanized steel trays: Typically 15–25 microns (0.6–1 mil), suitable for less aggressive environments .
- Powder-coated trays: Coating thickness generally ranges from 60–120 microns (2.4–4.7 mils), providing both corrosion protection and aesthetic finish .
- Aluminum trays: Naturally form a thin oxide layer (alumina) of 5–10 microns, which provides corrosion resistance; anodizing can increase this to 15–25 microns for harsher conditions

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Cable Tray SHIB NAL

Cable trays are not raceways, but they are treated as a structural component of a facility's electrical system. Cable trays are a part of

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