

Article Overview

Fireproof cable trays in the Maldives are installed using corrosion-resistant materials, proper support spacing, fire-rated wraps or boards, and careful sealing to ensure both fire safety and durability in humid environments.

Material Selection

In the Maldives' high-humidity and coastal environment, aluminum alloy, fiberglass-reinforced plastic (FRP/GRP), or stainless steel trays are recommended to resist corrosion, while indoor installations can use painted or galvanized steel trays. Fireproof wraps, such as FireMaster(R) Marine Plus blankets, are used to insulate control cables and maintain circuit integrity during fires.

Tray Layout and Routing

- o Route Planning: Align trays with the building structure, avoiding unnecessary detours or overlaps with other services.
- o Segregation: Separate power and signal cables to reduce electromagnetic interference.
- o Clearances: Maintain adequate spacing between cables for heat dissipation and future maintenance.
- o Support Spacing: Use threaded rod supports with a maximum spacing of 1.2 meters and provide additional support at bends, branches, and offsets.

Fireproofing Measures

- o Fireproof Wraps: Wrap trays with fireproof blankets fully encapsulated in aluminum foil, secured with stainless steel banding straps at 150mm centers. Overlap joints by 50mm at elbows and bends to ensure continuity.
- o Steel Plates: Use 4mm thick steel plates around openings, extending 200mm beyond tray dimensions, treated with anti-rust paint and fireproof coating.
- o Fire Blocking Materials: Apply in layers to fill gaps and align with water stop platforms in vertical shafts, creating a compact barrier against fire spread.
- o Sealing Penetrations: Seal tray openings through walls or floors with fire-rated materials to prevent flame propagation.

Installation Steps

- o Inspect Materials: Verify all trays, ladders, and accessories for damage and compliance with approved specifications.
- o Mark Routes: Use approved shop drawings to mark horizontal and vertical runs, ensuring no clashes with other services.
- o Install Supports: Fix threaded rods, 'L' angles, or slotted channels securely, maintaining proper alignment.

Maldives Fireproof Cable Trays

- o Cut and Fit Trays: Cut trays to required lengths, ensuring smooth edges to prevent cable damage .
- o Apply Fireproofing: Wrap trays with fireproof blankets, secure with banding straps, and install steel plates and fire-blocking materials as needed .
- o Inspection: Confirm tray alignment, grounding continuity, and integrity of fireproof coatings .

Maintenance

- o Periodically inspect for corrosion, moisture accumulation, and coating integrity .
- o Check fireproof wraps and steel plates for secure attachment and any signs of damage .
- o Clean trays to maintain airflow and prevent heat accumulation . By following these steps and using corrosion-resistant materials with proper fireproofing, cable trays in the Maldives can maintain both electrical safety and fire resistance in the challenging tropical environment.

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The mostly combustible cable sheaths and insulation allow a fire to spread along the cable at rapid speed.

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Unlike traditional steel trays, FRP cable trays do not rust or corrode, require no grounding, and have excellent fire and UV resistance

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