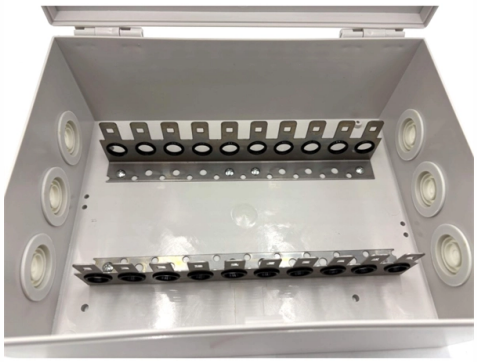
Cable tray installation on site in Taiwan



Overview

Cable Tray Installation | Fang Jun Engineering Co., Ltd.Determine the installation locations of cable trays based on design requirements and site condition.

Key Takeaways

Proper cable tray installation in Taiwan requires adherence to local standards, careful site preparation, and secure assembly to ensure safety and efficient cable management.

Planning and Site Preparation

Before installation, review the approved shop drawings to determine tray layout, lengths, and locations in electrical rooms, plant rooms, or service corridors. Inspect all materials upon delivery to ensure they match approved specifications and are free from damage. Store trays horizontally on flat surfaces with timber supports to prevent warping or moisture damage during storage.

Installation Steps

Marking and Measurement: Determine installation locations based on design requirements and site conditions. Use measuring tools such as rangefinders and spirit levels for accurate placement. Support Installation: Install supports on ceilings or walls according to construction drawings.

Ensure spacing and placement comply with safety and load-bearing requirements. Tray Assembly: Install cable tray sections segment by segment on supports, ensuring secure and level connections. Use appropriate connectors and fasteners to prevent displacement due to vibration.

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Grounding and Safety: Verify that all connectors and grounding connections meet safety standards. Conduct electrical and connectivity tests to ensure proper installation without faults. Inspection and Cleanup: Inspect all installed trays and fasteners for compliance with design and safety requirements.

Remove excess materials and tools, and perform a final inspection.

Material Selection

Cable trays in Taiwan are commonly made from galvanized steel, stainless steel, aluminum, or fiberglass, chosen based on environmental conditions and load requirements. Perforated trays improve airflow, prevent overheating, and enhance cable performance. Solid or channel trays may be used where aesthetics or electromagnetic interference protection is important.

Regulatory Compliance

Installation must comply with IEC 61537 (technical requirements and load capacity), IEC 60364 (electrical installation design), and local Taiwanese standards such as CNS 15331 and CNS 14437 for fire resistance, materials, and structural integrity. Adherence to local building codes and fire safety laws is mandatory.

Best Practices

Modular design allows flexible assembly and reduces installation time. Use eco-friendly, recyclable materials where possible. Consider smart monitoring with sensors to track temperature and load in real-time.

Maintain minimum bend radius for cables and proper rung spacing (150–230 mm) for instrumentation and control applications. By following these steps and standards, cable tray installation in Taiwan can achieve safe, efficient, and durable cable management for industrial and commercial projects.

Article Content

Cable Tray Installation | Fang Jun Engineering Co., Ltd.

Determine the installation locations of cable trays based on design requirements and site conditions. Use measuring tools such as rangefinders and spirit levels for accurate measurements.

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Regulations and Precautions for Cable Tray Installation

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Cable Tray Installation | Fang Jun Engineering Co., Ltd.

Cable Tray Installation: Install cable tray sections segment by segment on supports, ensuring secure and level connections. Verify that connectors and grounding connections of cable trays meet safety

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