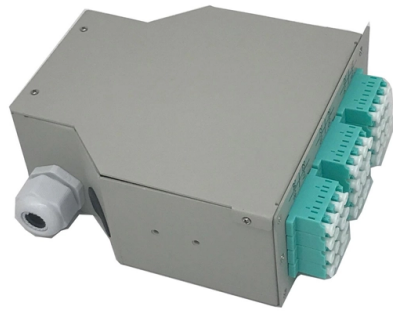


Installation of irregular-shaped cable trays in the computer room



Article Overview

Proper installation of irregular cable trays in a computer room requires careful planning, adherence to NEC standards, and consideration of cable types, support systems, and fire safety.

Planning and Layout

Before installation, conduct a thorough site survey to map existing equipment, cable paths, and potential future expansions. Plan the tray routes to follow the shortest and straightest paths while avoiding conflicts with other services, pipes, or structural elements (). For irregular layouts, ensure that horizontal and vertical runs are clearly marked, and maintain sufficient clearance for cable pulling and future maintenance ().

Tray Types and Material Selection

Choose tray types based on cable density, weight, and environmental conditions:

- Ladder trays: Ideal for vertical or sloped runs and allow easy cable management.
- Trough or perforated trays: Suitable for heavy cables or long spans between supports.
- Material: Painted or galvanized steel for indoor use; aluminum or fiberglass-reinforced plastic for high humidity or corrosive environments ()....

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Technical Guidelines for Cable Tray Installation and

Shortest and Straightest Path: To reduce cable loss and simplify maintenance, cable routes should be as

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