

Fiber optic cabling and AP panel installation



AI Overview

Proper fiber optic cabling and AP panel installation ensure high-speed, reliable network performance with minimal signal loss and efficient cable management.

Planning and Preparation

Before installation, conduct a site survey to identify cable routes, potential obstacles, and environmental hazards such as sharp edges, high temperatures, or moisture-prone areas. Determine the network requirements, including bandwidth, distance, and the number of APs to be connected. Develop a cable pulling plan that specifies the type of fiber (single-mode or multi-mode), indoor/outdoor suitability, and required lengths for pre-terminated or field-terminated cables .

Fiber Optic Cable Installation

- **Handling and Storage:** Keep protective material on reels until installation. Store reels on flat, firm surfaces and avoid flooding or sharp terrain. Inspect cables for damage before de-reeling and seal ends to prevent moisture intrusion .
- **Pulling and Routing:** Avoid sharp bends and maintain the minimum bend radius. Use smooth curves and figure-8 loops to prevent twisting. Avoid pulling over edges or applying excessive mechanical stress. Metallic components should be kept clear of power cables .
- **Splicing and Termination:** Use fusion splicing for minimal signal loss. Pre-terminated cables reduce field termination errors and ensure low insertion loss. BiDi SFP+ mod...

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