

Installing fiber optic panel sockets

Article Overview

Installing a fiber optic panel socket involves careful preparation, safe handling of fiber cables, and proper termination to ensure optimal signal performance.

Choosing the Right Socket Panel

Select a fiber optic socket panel compatible with your network and connectors. Common types support SC, LC, or FC adapters and come in single, dual, or multi-port configurations. For FTTH applications, a 2-port wall-mounted panel is ideal for residential or small office setups, providing space for pigtail splicing and organized cable management. Ensure the panel is flame-resistant and allows easy access for maintenance.

Preparing the Installation Site

- **Location:** Choose a dry, accessible wall near power outlets and within 3 meters of the ONT.
- **Wall Cutout:** Use a template to cut a 60mm x 40mm hole for flush-mounted panels.
- **Mounting:** Secure the back box with screws, ensuring a depth of at least 40mm to accommodate fiber coiling.

Handling Fiber Cables Safely

- **Safety Gear:** Wear safety glasses to protect against invisible laser light from the fiber.
- **Bend Radius:** Maintain a minimum 30mm bend radius to prevent signal loss or fiber damage.

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