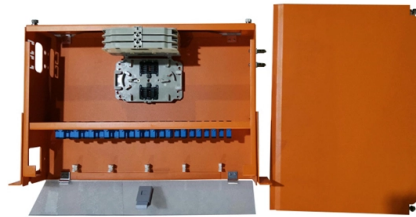


Fiber to the Home Switch Installation



AI Overview

FTTH switch installation involves planning the fiber network, deploying feeder and distribution cables, connecting preterminated drop cables, and configuring the optical network terminal (ONT) for subscriber access.

Network Planning and Design

The installation begins with a cabling plan that maps the routes from the central office (CO) to the subscriber premises. Most FTTH networks use a Passive Optical Network (PON) architecture, where a feeder cable runs from the Optical Line Terminal (OLT) in the CO to a Fiber Distribution Hub (FDH) housing the PON splitter. From the FDH, distribution cables extend toward subscriber locations, and drop cables connect the final link to the ONT at the home ().

Cable Deployment

- **Feeder and Distribution Cables:** These follow standard outside plant (OSP) practices, including aerial or underground installation. Cables are secured using conduits, trays, or poles to prevent damage and maintain signal integrity ().
- **Drop Cables:** Typically preterminated with 1–2 fibers for plug-and-play installation. For single-family homes, these cables connect directly to the ONT. Multi-dwelling units (MDUs) may use patch panels inside the building ().

Fiber Termination and Connection

- **Cleaning and Preparation:** Fiber ends must be cleaned with alcohol wipes to ensur...

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