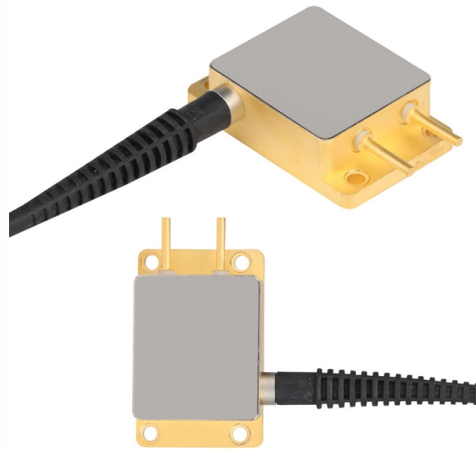


How to set up a fiber optic coaxial panel



AI Overview

Proper setup of a fiber optic or coaxial control panel involves careful planning, safe cable installation, device connection, and network configuration to ensure reliable operation.

Fiber Optic Control Panel Setup

- Planning and Preparation** Determine the network type (ControlNet, EtherNet/IP, or FTTH/FTTP) and the required topology (star, ring, or bus) based on your system needs. Identify the fiber type (single-mode or multi-mode) and cable length requirements. Ensure compliance with electrical codes and safety guidelines for solid-state equipment.
- Physical Installation** Mount the fiber control panel in a secure, dry location. Route fiber cables through ducts or conduits, avoiding sharp bends and excessive tension. Use fiber connectors and adapters compatible with your system. Clean all fiber ends before connecting to prevent signal loss.
- Device Connection** Connect the fiber cables to the panel ports according to the network design. If using repeaters or media converters, install them as specified in the manufacturer's instructions. Verify connections using optical power meters or network diagnostic tools.
- Testing and Verification** Power on the system and check for link lights or status indicators. Perform continuity and signal integrity tests to ensure proper operation. Document the installation, including cable routes, port assignments, and test results.

Coaxial (MoCA) Control Panel Setup

- Device Requirements** You need at least two MoCA adapters to establish a network over existing coaxial cabling. Ensure all coaxial cables are 75 Ohm (RG6 or RG11) and MoCA-compatible splitters are used.
- Connection Steps** Connect the first adapter to your main router via Ethernet and to a nearby coaxial outlet. Plug in the power adapter and verify the MoCA light is solid green. Connect additional adapters to other coaxial outlets and devices (computers, Wi-Fi access points).
- Network Configuration** Assign a fixed IP address to your computer for initial setup (e.g., 192.168.254.10). Enable MoCA encryption on the first adapter via its web interface...

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