

How should I connect the optical splitter in the computer room



AI Overview

To connect an optical splitter in a computer room, install it in a fiber distribution box, carefully splice or connect fibers to the input and output ports, manage excess fiber, and test the link for signal quality.

Step 1: Choose the Installation Location Optical splitters in a computer room are typically installed in fiber distribution boxes, splice closures, or wall-mounted termination boxes. The location should be clean, dry, and easily accessible for maintenance. For large-scale networks, primary splitters are often placed in the central office or main computer room, while secondary splitters may be installed in distribution boxes closer to users.

Step 2: Prepare Tools and Materials You will need: Fiber optic cables and connectors, Optical splitter (PLC or FBT type), Fiber optic cleaning kit, Fiber stripper and cleaver, Fusion splicer or mechanical splice kit, Splice protectors and cable management accessories.

Step 3: Handle the Splitter and Fibers Clean all connectors and adapter ports before installation to prevent signal loss. Avoid bending fibers sharply; maintain the minimum bend radius. For bare splitters, use fusion splicing to connect fibers; for pre-terminated splitters, use adapters to dock connectors securely.

Step 4: Connect the Splitter Identify the input port (single fiber from the optical line terminal) and output ports (fibers going to end users or distribution points). Splice or connect the fibers to the corresponding ports. Use splice protectors for fusion splices and coil any excess fiber neatly in the distribution box to prevent stress or damage.

Step 5: Test the Connection Use an optical power meter or OTDR to measure signal strength and verify that insertion loss is within acceptable limits. Check for discontinuities, reflections, or high attenuation and adjust connections if necessary.

Step 6: Maintenance and Best Practices Periodically clean connectors and adapters. Inspect 10% of ports quarterly...

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Plug the input fiber into the splitter's input port (marked "IN" or "E") and connect the output port to the end device. Use clips or screws to secure the connectors and ensure a secure physical

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