

RIVO MULTITRADE OPTICAL SYSTEMS

How to connect composite optical cables to a terminal box



Overview

First, remove the panel from the distribution box and run the composite fiber optic cable through the cable entry point.

Key Takeaways

To connect a composite optical cable to a terminal box, you need to splice the optical fibers, connect the copper wires, and secure both inside the terminal box following proper procedures. Step-by-Step Guide

1. Prepare the Cable and Terminal Box

- Route the composite optical cable through the entry point of the terminal box.
- Remove the outer jacket of the cable to expose the optical fibers and copper wires. The copper wires should be stripped about 5-8 mm from the jacket .
- 2. Connect the Copper Wires
 - Use a crimp tube or connector to attach the copper wires to the corresponding terminals inside the box.
 - Match the color-coded wires (e.g., red to red, black to black) and secure the crimp tube to prevent copper leakage .
- 3. Splice the Optical Fibers
 - Carefully separate the optical fibers from the composite cable.

- Use a fusion splicer or mechanical splice to join the fibers with LC pigtails or other compatible connectors .
- Coil the spliced fibers neatly inside the terminal box to avoid bending or stress . 4. Connect to Devices
- Connect the LC pigtail from the terminal box to the optical port of the receiving device (e.g., router, media converter, or RU) using a fiber patch cable .
- Connect the copper wires to the electrical port of the device using a RJ45 or compatible connector . 5. Secure and Protect the Connections
- Ensure all cables are properly routed and secured with clamps or hangers.
- Use insulation tape or protective covers to safeguard the fiber splices and copper connections, especially at exit points .
- Replace the terminal box cover to protect the internal components from dust and environmental damage. 6. Test the Connection
- Use an optical power meter to verify the optical signal strength and check for losses.
- Confirm that the electrical connection is delivering the correct voltage and current to the connected device . Following these steps ensures a reliable connection of both the optical and electrical components of a composite cable to a terminal box, maintaining signal integrity and device functionality.

Article Content

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3. Connect Fiber Optic Cable: Connect the fiber optic cable correctly according to the instructions of the fiber optic

Optical cable terminal box features

Optical cable terminal box, also known as optical fiber terminal box, is a box for protecting the optical cable and pigtail

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