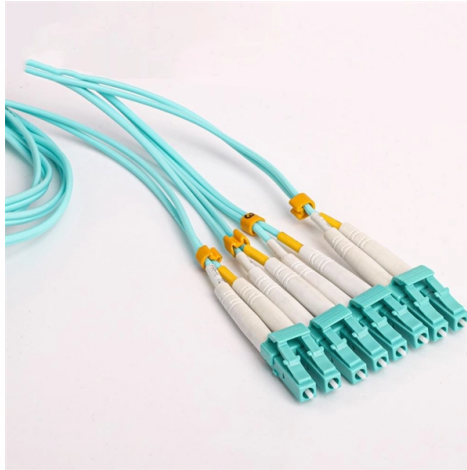


RIVO MULTITRADE OPTICAL SYSTEMS

How to use the fiber optic cable terminal box



Overview

Inside the fiber optic cable terminal box, fiber optic cables entering the termination box can contain multiple cores.

Key Takeaways

To install a fiber optic cable into a terminal box, carefully route the cable through the entry point, secure it, strip and prepare the fibers, splice or connect them to pigtails, and store any slack neatly in the splice tray.

1. Prepare the Installation Site and Tools Choose a suitable location for the terminal box, typically on a wall or cable rack, ensuring enough space for cable storage and future maintenance. Gather necessary tools such as a fiber cleaver, fiber stripper, fusion splicer, crimping tools, cleaning kit, and cable ties . 2. Mount the Terminal Box Secure the fiber optic terminal box using expansion screws or other appropriate fasteners. Ensure it is firmly anchored to prevent movement or displacement . 3. Route the Fiber Cable Insert the fiber optic cable through the cable entry gland of the terminal box. Avoid sharp bends and maintain the minimum bend radius (usually $\geq 30\text{mm}$) to prevent signal loss or fiber damage . Fasten the cable to clamps or ties to keep it immobile. 4. Prepare the Fiber for Termination Remove the outer jacket and buffer coating to expose the fiber strands. Ensure the fiber ends are clean and smooth for optimal splicing or connector attachment . 5. Splice or Connect the Fibers Most terminal boxes use pigtails (pre-connectorized fiber tails). Splice the incoming fiber to the pigtail using fusion or mechanical splicing, then insert the connector into the corresponding adapter port on the terminal box . Ensure fibers are not bent excessively and are properly seated in the splice tray. 6. Manage Slack and Store Fibers Neatly coil any excess fiber in the splice tray or storage loops provided inside the box. This prevents tangling and maintains the standard bend radius . 7. Label and Test Connections Label each port for easy identification during maintenance. Test the optical signal using a fiber power meter or OTDR to verify continuity and signal quality . 8. Close and Secure the Box Once all fibers are connected and tested, close the terminal box lid tightly to prevent dust or moisture ingress. Regularly inspect and clean connectors to maintain performance . By following these steps carefully, you ensure a reliable, organized, and maintainable fiber optic installation in the terminal box.

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Termination Box For Fiber Optic Cable

Inside the fiber optic cable terminal box, fiber optic cables entering the termination box can contain multiple cores. For example, a 4

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