ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Mobile Fiber Optic Terminal Box Setup



Overview

Our technician will arrive and install a small box on your home''s exterior for running fiber cable into your home.

Key Takeaways

Configuring a mobile fiber optic terminal box involves careful installation, cable management, splicing, connectorization, and testing to ensure signal integrity and network reliability.1. Pre-Installation Preparation
• Select the appropriate terminal box based on environment, capacity, and mounting style (wall-mounted, rack-mounted, or outdoor) to match current and future fiber needs .

• Choose a suitable location with easy access for maintenance and enough space for cable routing .

• Gather tools and accessories: fiber cleaver, fiber stripper, fusion splicer, crimping tools, cleaning kit, and dust protectors .

• Plan cable length and routing to maintain proper bend radius (typically ≥30mm) and avoid signal loss .
2. Cable Preparation
• Strip the fiber cable to the required length (minimum 0.5 meters recommended) to allow safe handling and buffer management .

• Pass the stripped cable through the designated entry points of the terminal box, using cable entry glands if available .

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• Secure the cable's strength member to the fixing points inside the box to prevent movement and strain on the fibers .
3. Splicing and Connectorization
• Coil the fiber neatly in the splice tray to maintain bend radius and prevent entanglement .

• Splice the fibers using either fusion or mechanical splicing, depending on project requirements .

• Place splice sleeves in the tray to protect the spliced fibers .

• Connect the spliced pigtails to the appropriate adapters (SC, LC, FC, or ST) and insert dust protectors if not immediately connecting to another cable .
4. Cable Management
• Use internal management rings or trays to organize fibers and maintain proper bend radius .

• Reserve space for pigtails, heat-shrink sleeves, and future expansion to avoid signal loss and facilitate maintenance .

• Label each port clearly for easy identification during troubleshooting .
5. Testing and Finalization
• Perform optical testing using an OTDR or power meter to verify continuity and measure signal loss .

• Ensure all fibers are properly aligned and connectors are secure to maintain signal integrity .

• Close the terminal box tightly to prevent dust and moisture ingress, especially for outdoor installations .
6. Maintenance Considerations
• Regularly inspect the box for dust, moisture, or physical damage .

• Keep documentation of fiber routing, splices, and port assignments for future troubleshooting .

• Ensure technicians have easy access to perform moves, adds, or changes without disturbing existing fibers . By following these steps, a mobile fiber optic terminal box can be configured safely and efficiently, ensuring reliable network performance and ease of maintenance.

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

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