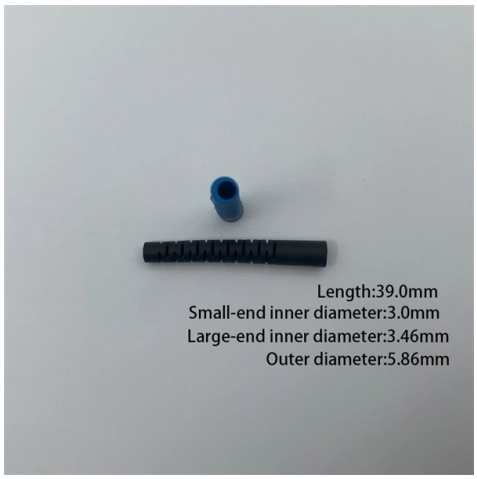
What to connect to the dedicated line terminal box



Overview

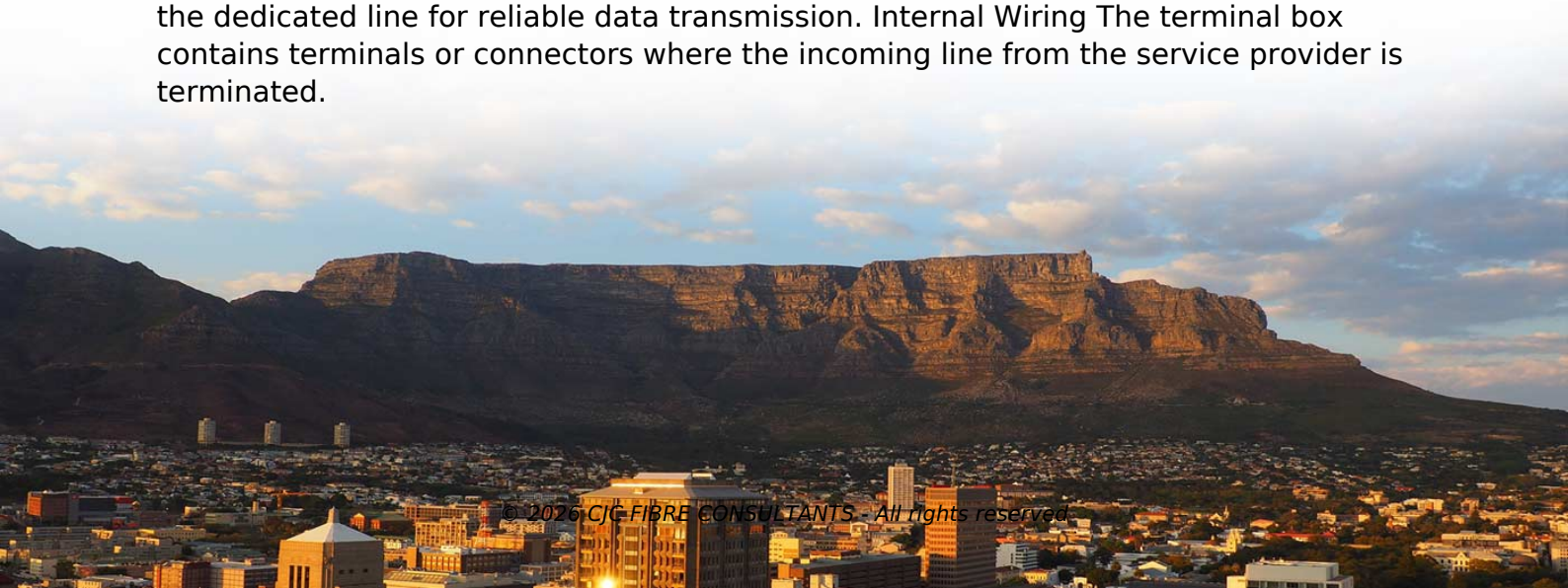
The three different configurations are meant to provide several options to connect the ground contacts within the busway system depending on customer application.

Key Takeaways

A dedicated line terminal box is typically connected to customer equipment such as routers, switches, or telecommunication devices, using the internal wiring and terminals provided in the box. Purpose of the Dedicated Line Terminal BoxA dedicated line terminal box, often part of a leased line or network interface device (NID), serves as the demarcation point between the service provider's network and the customer's internal network. It provides a secure and organized location to terminate the incoming line and distribute it to internal devices.

What to Connect

Customer Premises Equipment (CPE) Devices such as routers, firewalls, switches, or PBX systems are connected to the dedicated line terminal box to access the leased line or dedicated circuit. These devices use the full-duplex connection provided by the dedicated line for reliable data transmission. Internal Wiring The terminal box contains terminals or connectors where the incoming line from the service provider is terminated.



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From these terminals, you connect twisted pair cables, coaxial cables, or fiber optic cables to your internal network devices. Protective Devices To safeguard equipment, surge protectors or lightning arresters can be installed at the terminal box. These devices protect against voltage spikes and electrical disturbances that could damage sensitive network equipment.

Grounding (if applicable) Some dedicated line systems may require proper grounding. For example, in certain busway or network setups, a dedicated ground conductor may be connected to the enclosure ground to reduce electrical noise and protect equipment. Wiring ConsiderationsColor-coded wiring is often used for easy identification.

For telephone lines, common colors include red and green for the primary line, and yellow for secondary lines. Ensure that the connection is secure and matches the type of service (analog, digital, or fiber). Follow the service provider's specifications for termination and pinout to maintain signal integrity and avoid service interruptions.

Summary

In essence, a dedicated line terminal box connects the incoming service line to customer equipment such as routers, switches, or telecommunication devices. Proper wiring, grounding, and protective devices ensure reliable and safe operation of the dedicated line, whether it is a leased line, fiber optic connection, or other point-to-point circuit.

Article Content

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Tech Brief

The three different configurations are meant to provide several options to connect the ground contacts within the busway system depending on customer application. This tech brief will explain the

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Connect the identified LINE wires to the GFCI''s LINE terminals. The black (hot) wire connects to the brass screw, and the white (neutral) wire

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