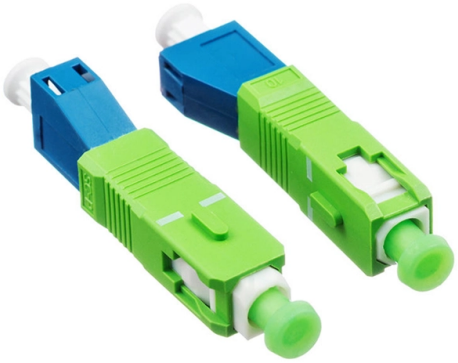
**ZITHA TECH SPECIALTY CABLES (Pty) Ltd**

# Installation Method of Thickened Distribution Box



## Overview

How to Install a Distribution Box—A Comprehensive Distribution Box Installation: Put the distribution box on the installation surface, and align Distributi.

## Key Takeaways

A thickened distribution box should be installed on a firm foundation or wall, aligned precisely, securely fastened, and properly grounded to ensure safety and operational reliability.

Step 1: Site Preparation and Material Inspection

Before installation, inspect all received materials to ensure they match approved specifications and are free from damage. Remove any unsuitable components from the site. Choose a location that is accessible, dry, and away from flammable or corrosive substances. Ensure the site allows easy maintenance and is close to the main power supply for efficient connection .

Step 2: Foundation or Wall Mounting
• Cabinet on Foundation: Place the distribution cabinet on the foundation section steel according to the construction layout. Adjust the perpendicularity and levelness of each cabinet using sizing blocks (maximum three per cabinet) and weld them firmly if necessary .

• Wall-Mounted Box: Fix the box to the wall using expansion bolts. For hollow brick or block walls, embed dovetail bolts or use split bolts for secure attachment .

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• Embedded Installation: For embedded boxes, ensure the panel is flush with the wall after installation .
Step 3: Alignment and Fastening

After positioning, adjust the levelness and surface deviation of each cabinet or panel to meet construction specifications. Once aligned, fasten the cabinet body to the foundation section steel using bolts to ensure stability .

Step 4: Electrical Connections and Grounding
• Connect the temporary control and operation power supply before final wiring .

• Each cabinet should be individually grounded to the foundation steel using copper wire. Connect the PE row in the cabinet to the grounding bolt with a spring washer to prevent loosening. Ensure each cabinet door is also connected to the PE row with a copper braided wire .
Step 5: Safety and Testing
• Conduct a high-voltage test using an approved test unit to verify insulation and operational safety .

• Ensure all circuit breakers, fuses, and protective devices are correctly rated and installed. Check for tight connections to prevent sparks, voltage drops, or fire hazards .

• Follow all health and safety regulations, including safety induction, toolbox talks, and personal protective equipment for installation personnel .
Step 6: Final Inspection

After installation, perform an initial inspection by an electrical engineer. Submit a formal inspection request to the client or consultant at least 24 hours before the scheduled inspection to ensure compliance with project specifications .

By following these steps, a thickened distribution box can be installed safely, securely, and in compliance with electrical standards, ensuring long-term reliability and ease of maintenance.

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