# ZITHA TECH SPECIALTY CABLES (Pty) Ltd

# South African Power Distribution Box Configuration Table



## Overview

In this guide, we''ll break down everything you need to know to install a distribution box correctly and confidently.

## Key Takeaways

South African power distribution boxes are configured according to SANS 10142 and Eskom specifications, with MCB ratings, DIN rail arrangements, and customer connections defined for split prepayment metering.Typical Configuration for Low-Voltage Distribution BoxesBox TypePhaseMCB RatingNumber of MCBsShort-Circuit CapacityDIN RailCustomer ConnectionsAdditional FeaturesSplit 2-waySingle50A (20A supply) or 63A (60A supply)1 or 25 kA1 DIN rail2 customers + streetlightSplit prepayment metersSplit 4-waySingle50A (20A supply) or 63A (60A supply)2 or 45 kA1 DIN rail4 customers + streetlightSplit prepayment meters

Notes:

• The boxes are designed for pole-mounted service distribution in overhead electricity networks .

• MCBs (Miniature Circuit Breakers) must comply with SANS 556 and have a short-circuit breaking capacity of 5 kA .

• DIN rails accommodate split prepayment meters for each customer connection .

• The configuration allows for streetlight connections alongside customer supplies .

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• All installations must comply with SANS 10142-1:2017 for low-voltage wiring and distribution .
Compliance and Standards
• SANS 10142-1 specifies the design, installation, and safety requirements for low-voltage electrical installations in South Africa, including component standards and cable specifications .

• Eskom ST_240-75659760 outlines the manufacturing and configuration requirements for pole-mounted distribution boxes, ensuring uniformity and safety across the network .

• Components such as cables, MCBs, and safety signage must meet relevant SANS and NRS standards (e.g., NRS 017, SANS 1186, SANS 1507), .
Practical Considerations
• Distribution boxes should be installed in accordance with local authority regulations and inspected regularly for compliance .

• The configuration table can be adapted for single-phase or three-phase systems, depending on the load and customer requirements.

• Split prepayment meters allow for individual customer billing while maintaining centralized control and safety. This table and configuration guide provide a comprehensive reference for designing, installing, or inspecting South African low-voltage distribution boxes in compliance with national standards and Eskom requirements.

## Article Content

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