ZITHA TECH SPECIALTY CABLES (Pty) Ltd

APB and AE distribution boxes



Overview

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Key Takeaways

APB and AE distribution boxes are specialized electrical enclosures designed for safe, organized power distribution, with APB boxes suited for control and junction applications and AE boxes offering IP54-rated protection for industrial and commercial environments.

APB Distribution Boxes

APB boxes are part of the UNILIFT series of control and junction boxes, commonly used in pump and industrial control systems . Key features include:

• Purpose: Designed for housing control electronics, relays, and wiring connections in industrial applications.

• Safety Compliance: Installation and operation must comply with local electrical regulations, including proper protective earth (PE) connections .

• Durability: Built to withstand operational stresses and environmental factors typical in industrial settings.

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• Installation: Requires adherence to manufacturer instructions for safe handling, wiring, and maintenance. These boxes often include strain-relief features and secure mounting options.

AE Series Distribution Boxes

The AE series by E-abel is a high-quality electrical enclosure suitable for industrial, commercial, and residential applications . Key specifications include:

• IP54 Protection: Dust-tight and protected against water splashes from all directions, making it suitable for indoor and outdoor use.

• Material and Finish: Constructed from cold-rolled or stainless steel with a powder-coated finish (RAL7035) for corrosion resistance and mechanical strength. Thickness ranges from 1.5–2.0 mm for the body and 2.0 mm for doors.

• Customization: Knockouts on multiple sides allow flexible cable entry, and the enclosure can house electrical components, control systems, or telecommunications equipment.

• Rapid Delivery and Support: UL-certified engineering support and 15-day delivery options make it suitable for time-sensitive projects.

AP Series Junction Boxes

For comparison, AP series boxes (AP9, AP10, AP45) are surface-mounted junction boxes used for general electrical wiring :

• Material: Made from recycled, durable materials with snap-on covers for tool-free access.

• Cable Management: Pre-perforated knockouts and membrane inlets allow easy cable insertion and strain relief.

• Certifications: VDE-approved for safety and reliability.

• Applications: Suitable for residential and commercial wiring, providing organized connections for multiple circuits.

Summary

• APB Boxes: Industrial control and junction applications, robust, compliant with local regulations, suitable for pump and machinery systems.

• AE Boxes: IP54-rated enclosures for industrial, commercial, and residential use, corrosion-resistant, customizable, and suitable for harsh environments.

• AP Boxes: Surface-mounted junction boxes for general wiring, easy installation, and VDE-certified.

Choosing between these boxes depends on environmental conditions, protection requirements, and the type of electrical system. APB is ideal for control systems, AE for robust industrial or outdoor applications, and AP for general wiring and junction purposes.

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Learn what a power distribution box is, how it works, key components, types, and why it''s vital for safe and efficient

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