

Low-voltage concealed electrical box



AI Overview

A low-voltage concealed electrical box is a protective enclosure designed to house and organize low-voltage wiring, keeping it safe, hidden, and accessible for systems like networking, audio/video, and smart home devices.

Purpose and Applications

Low-voltage boxes, also called junction boxes or enclosures, are specifically designed for wiring systems operating at 50 volts or less. They provide a secure housing for connections, protecting wires from physical damage, dust, moisture, and accidental impact while minimizing the risk of short circuits or exposed wires . Common applications include:

- Telecommunications and data networking (Ethernet, coaxial cables)
- Audio/video systems (home theater, HDMI, speaker wiring)
- Security systems (cameras, motion sensors, doorbells)
- Lighting control and LED installations
- Smart home devices (thermostats, smart sensors)

Design and Materials

Low-voltage boxes are available in various shapes and sizes, from small single-gang enclosures to larger multi-gang boxes, depending on the complexity of the system . They are typically made from durable plastic (ABS) or metal, offering insulation, impact resistance, and environmental protection . Features often include:...

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