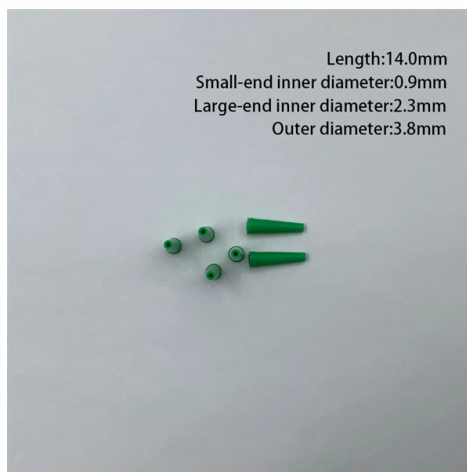


Concrete Slab Electrical Distribution Box



Overview

Concrete Floor Boxes for New-Pour Or Retrofit Buy concrete floor boxes for your power and communication needs, they are easy to install in new-pour or Conc.

Key Takeaways

Concrete slab electrical distribution boxes provide a durable, code-compliant solution for power and data distribution in floors, suitable for both new pours and retrofit installations. Overview

Concrete slab electrical boxes, also known as slab boxes or floor boxes, are designed to house electrical outlets, data ports, and AV connections within a concrete floor. They are commonly used in commercial offices, apartments, and utility areas to provide accessible power and communication points while maintaining a clean floor surface ().

Types and Materials

- **Metal Slab Boxes:** Typically made from galvanized steel, these boxes are robust and can withstand the pressure of poured concrete. They often include knockouts for conduit entry and may have multiple compartments for circuit segregation ().
- **Non-Metallic Slab Boxes:** Engineered to be concrete-tight, these boxes prevent concrete intrusion without the need for temporary fillers. They are available in shallow or standard depths and can include molded connectors for easy wiring ().

- **Concrete Floor Boxes:** Designed for new-pour or retrofit applications, these boxes often come with pour caps and recessed covers to match the floor finish. They can accommodate low-voltage dividers for power and data ().

Installation Considerations

- **Location and Layout:** Plan the placement carefully to avoid conflicts with structural elements. Measure precisely to ensure proper alignment with finished flooring ().
- **Box Selection:** Choose boxes rated for the environment. For outdoor or moisture-prone areas, select weatherproof boxes with at least an IP66 rating to prevent water ingress ().
- **Concrete Preparation:** Ensure the slab is clean, free of debris, and structurally sound. Cracks should be filled with concrete patch to reduce installation issues ().
- **Mounting:** Boxes can be surface-mounted or embedded. Surface-mounted boxes are ideal for unfinished spaces, while embedded boxes require precise positioning before pouring concrete ().
- **Wiring and Conduit:** Use appropriate conduit and pre-wired tap-offs if available. Multi-compartment boxes allow for circuit segregation, improving safety and organization ().

Features and Accessories

- **Compartment Options:** One to four compartments for separating circuits or data lines ().
- **Cover Plates:** Durable, adjustable covers that can accommodate standard or Decora outlets, duplex receptacles, or QuickPort inserts ().
- **Extension Rings:** Allow for increased depth or additional device mounting ().
- **Pre-Wired Options:** Some slab boxes come pre-wired with tap-off systems for faster installation ().

Compliance and Standards

Concrete slab electrical boxes are manufactured to comply with BS 5733 and other relevant electrical standards, ensuring safety, durability, and compatibility with commercial electrical systems ().

Summary

Concrete slab electrical distribution boxes are a versatile solution for integrating power and data into floors. Selecting the right type, ensuring proper installation, and using weatherproof and code-compliant products will provide a safe, durable, and accessible electrical system for both new construction and retrofit projects ().

Article Content

Concrete Floor Boxes | Wire and Cable Management Solutions

The Modulink™ Floor Box is a gangable box that allows a one-gang floor box to easily be turned into a two- or three-gang box simply

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

