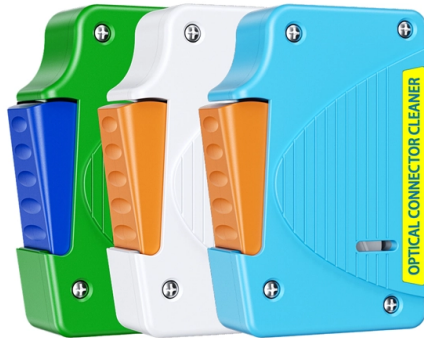


Construction sequence of lighting distribution boxes



Article Overview

The construction and installation of lighting distribution boxes follow a structured sequence: selection, placement, grounding, wiring, testing, and commissioning to ensure safety and reliable operation.

Step-by-Step Construction Sequence

1. **Product Selection and Compliance** Select qualified lighting distribution boxes that meet national standards and safety requirements. Ensure the box is suitable for the intended load, environment, and protection level (e.g., IP-55 for outdoor use) and has passed type tests for short-circuit and insulation performance .
2. **Determining Installation Location** Identify the appropriate location and height according to the electrical design. The site should allow easy access for maintenance, proper ventilation, and compliance with building codes .
3. **Mounting the Box** Install the box according to the manufacturer's frame dimension drawings. Ensure the box is firmly fixed using suitable channels or supports, and the door hinges and locking mechanisms are correctly aligned .
4. **Grounding and Earthing** Perform proper grounding using solid earthing points on either side of the box. This ensures safety and prevents electrical hazards .
5. **Wiring and Circuit Connections** Connect incoming and outgoing cables according to the circuit diagram. Install bus bars, MCCBs, and plug sockets as specified. Ensure connections are tight and correct to avoid loose contacts or short circuits .
6. **Insulation and Safety Testing** Conduct insulation tests to check for leakage or ground faults. Verify that all protective devices function correctly and that the box meets safety standards .
7. **Ventilation and Heat Management** Ens...

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Distribution db box wiring diagram

The main supply cable comes into the board and is then distributed to the breakers and from there to all the circuits lights fan plugs etc. various sizes of distribution boards are available.

Contact Us

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