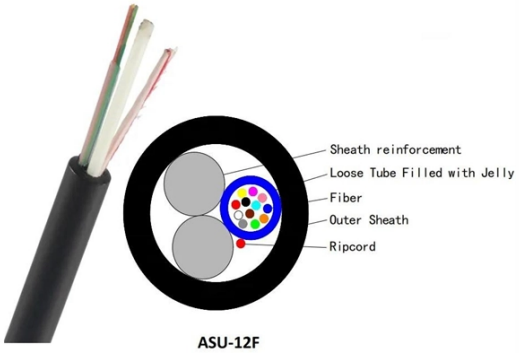
Distribution box 2 5 incoming line



Overview

L.T. Distribution Box Specification | PDF | Fuse (Electrical) Key details include: 1) The boxes will be outdoor type made of glass fiber reinforced polyest.

Key Takeaways

A distribution box with a 2.5 mm² incoming line is suitable for low-current circuits, typically up to 20–25 A, and requires proper cable glands, earthing, and MCCB/fuse protection.Key Considerations

Cable Size and Current Rating: A 2.5 mm² copper conductor is commonly used for circuits carrying up to 20–25 A, depending on insulation type and installation conditions. Ensure the distribution box terminals and bus bars are rated to handle this current safely . Incoming Line Connection: The incoming cable should be connected through a suitable cable gland to maintain IP protection and prevent mechanical strain. Rubber or heavy-duty double compression glands are recommended, with internal diameters matching the 2.5 mm² cable . Earthing: The distribution box must have at least one solid earthing point. Proper earthing ensures safety and compliance with standards like IP-55 for outdoor boxes . Protection Devices: Even with a 2.5 mm² incoming line, the box should include a main MCCB or fuse rated appropriately for the cable size. For example, a 2.5 mm² line may be protected by a 20–25 A MCB to prevent overheating and short circuits . Mounting and Material: Distribution boxes can be made from GI sheet steel, CRCA MS, or reinforced polyester, depending on indoor or outdoor use. Ensure the box has sufficient reinforcement, proper door locking, and mounting provisions . Bus Bar and Terminal Arrangement: The bus bars should provide adequate clearance from the box body, and terminals must accommodate the 2.5 mm² conductor. Horizontal or vertical terminal alignment is possible depending on the box design .

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Installation Tips
• Verify the IP rating of the box for the intended environment (IP-55 recommended for outdoor use).

• Use die-less crimping tools for secure connections to terminals.

• Ensure heat-resistant insulating barriers are present between MCCBs or fuses to prevent thermal hazards .

• Label incoming and outgoing lines clearly for maintenance and safety compliance . By following these guidelines, a distribution box with a 2.5 mm^2 incoming line can safely distribute power to multiple circuits while maintaining compliance with electrical standards and ensuring operational safety.

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