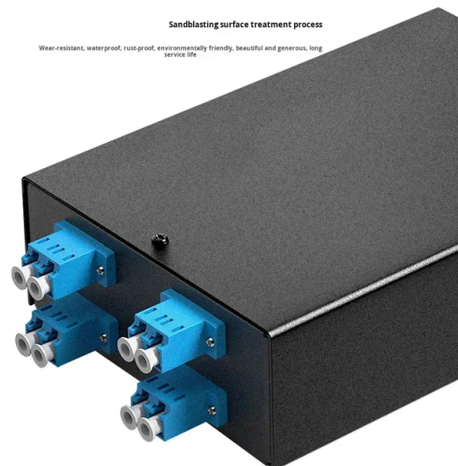


Distribution box grounding clamp



AI Overview

A grounding clamp in a distribution box ensures a secure electrical connection to the earth, protecting equipment and personnel from electrical faults. Purpose of the Grounding Clamp The grounding clamp is used to connect the distribution box to the grounding system, providing a low-resistance path for stray currents, lightning strikes, or fault currents. This protects both the electrical equipment and personnel by preventing electric shock and reducing the risk of fire or equipment damage.

Installation Guidelines

Connection Points: Typically, a ground wire is attached from a threaded stud at the bottom of the distribution box housing to the mounting plate, and then from the mounting plate to the central factory grounding point.

Wire Size: In the US, a 10 AWG (5.26 mm²) ground wire is standard, while in other markets, a 6 mm² wire is recommended.

Resistance Requirements: The total ground resistance between all system parts should be less than 0.1 Ohm to ensure effective grounding.

Additional Grounding: For longer tool cables or multiple spindles, an extra ground wire may be required between the mounting plate and spindle plate to maintain low resistance.

Types of Grounding Clamps

Hammerlock Clamps: Provide irreversible, low-resistance connections suitable for copper or Copperweld steel conductors. They are easy to install with a hammer and allow visual inspection of the connection.

Standard Ground Clamps: Include acorn-style or plier-type clamps, which can be used for connecting wires to rods, plates, or enclosures. These clamps are designed to meet ASTM F855 standards for safety and reliability.

Best Practices

Ensure all connections are tight and corrosion-free to maintain low resistance. Use clamps and connectors rated for the specific conductor size and material. Verify grounding continuity and resistance after installation. For distribution boxes with multiple components, consider parallel grounding paths to reduce total resistance. Proper use of grounding clamps in distribution boxes is essential for electrical safety, system reliability, and compliance...

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