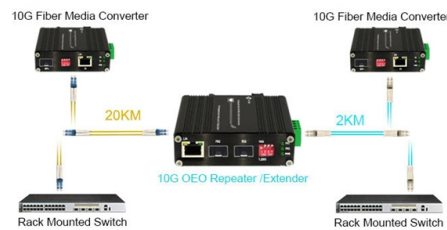


Factory power distribution box ground wire



Article Overview

A factory power distribution box must be properly grounded using specified wire sizes and connection points to ensure safety and equipment protection.

Ground Wire Requirements

For grounding a distribution box, the wire size depends on the market: in the US, a 10 AWG (5.26 mm²) ground wire is required, while in other regions, a 6 mm² wire is standard . The grounding wire must connect the distribution box to the factory central grounding point, ensuring a ground resistance of less than 0.1 Ohm between all system parts .

Connection Points

- Box to Mounting Plate: Attach a ground wire from a threaded stud at the bottom of the distribution box to the mounting plate .
- Mounting Plate to Central Ground: Connect a second wire from the mounting plate to the factory's central grounding point .
- Internal Components: All electrical components inside the box that require grounding should be connected to the PE (protective earth) bus .
- Metal Enclosure and Conduits: The metal box and any connected metal conduits should be electrically bonded to the PE bus using copper core or braided soft wire .

Additional Considerations...

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DISTRIBUTION BOX

Each DISTRIBUTION BOX and controller must be grounded. On the US market, a 5.26 mm 2 (10 AWG) ground wire

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How To Ground The Distribution Box

The metal box itself should be processed with a "box grounding bolt" (with PE mark), which must be connected to the grounded PE

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Correct Connection Method Of Grounding Wire Of

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Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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