Grounding informations

Important safety guidelines

Large shielding measures with shielding materials are no electrical equipment but "new conductive paths" according to IEC 62305-3 or DIN EN 60364-01-12 and thereby a new method of DIN VDE 0100-100:2009-06. By connecting the material(s) to the potential equalization zone two important parts of the electrical system. Generally accepted rules of technology have to be respected.

The state of the technology differentiates between protective equipotential bonding and functional equipotential bonding (PEB). The functional equipotential bonding (transparent yellow cable) is a protective measure and ensures that, in the event of a fault, sufficient current flows to operate the disconnection device (e.g. line circuit breaker). The functional equipotential bonding (transparent cable) has the function to "reduce the emission of low-frequency electrical fields", i.e. prevents from leaking electrical fields. Realization of a functional equipotential bonding is as follows:

1. The FEB-balancing measures are only permitted in TM-5, TT and IT networks. Grounding measures must never be executed when painting with commercial wall paints (transparent cable) has the function to "reduce the emission of low-frequency electrical fields", i.e. prevents from leaking electrical fields. Realization of a functional equipotential bonding is as follows:

2. Drill 6 mm holes. Make sure you do not drill cables in the proximity of power outlets and switches!

3. For grounding plates EB1, EB2:
   - Insert the plate into the corresponding technical data sheets.
   - Insert doweled and screw down the plate tightly.
   - Grounding rods ES50 / ES100:
     - Grounding set to connect our grounding components and groundable products.
     - Grounding rods for loosely laid nettings, fleeces, carpets, floor mats, etc.

Stainless steel tape ELB

Grounding set for connection to shielding paints, fxes and nettings in the interior. With an adhesive force of 10 N/cm it sticks relatively poor on difficult undergrounds (e.g. plaster boards). Use a primer.

1. The glue on EB2 is electrically non-conductive. Therefore the EB2 can be stuck only under the materials. Application under shielding paints or floating tiles in the underground.

2. Let it dry through both holes in the grounding plate!

3. The functional equipotential bonding (transparent yellow cable) has the function to "reduce the emission of low-frequency electrical fields", i.e. prevents from leaking electrical fields. Realization of a functional equipotential bonding is as follows:

Grounding system with press studs

Many of our grounding components and products can be connected directly to each other with our grounding cables EB!

1. Dont remove the backside fleece! Mounting at an easily accessible position, near to the final ground connection point.

2. Drill 6 mm holes. Make sure you do not drill cables in the proximity of power outlets and switches!

3. Insert doweled and screw down the plate tightly.

Grounding sets ES9 (c) / EPW

Grounding set for shielding paints in the exterior. For each continuous connected area two ESA are required.

1. Paint the area with an easily accessible position, near to the final ground connection point.

2. The underground has to be smoothed on 20 x 20 mm with a fine filter (fine mortar) that is suitable for your facade. It is important that the plate has an absolute plane underground for a good contact to the shielding paint.

3. Insert the metal plate into the corresponding technical data sheets.

4. Press down the ground plug tightly, fix it with a cable tie.

Grounding sets ESR / EPR

Grounding set to connect our grounding components to grounded (heating) pipes.

1. Put the plate on an unisolated position on the (heating) pipe and screw it down with the both worm drive clamps. Fix down the grounding plug tightly. Fix it with a cable tie.

2. Unscrew the wing nut and disassemble the both plates. Take a textile cutter or a knife (risk of injury) and pierce a small hole of 4 mm in the plate. Insert the plate with the screw-nut from behind through the hole. Put on the front plate and screw it down with the wing nut.

3. Press down the grounding plug tightly and fix it with a cable tie.

Grounding sets ESP / EPV

Grounding set for loosely laid nettings, fleeces, etc.

1. Only a licensed electrician is allowed to push this grounding plug into a power outlet. See "important safety guidelines!"

2. Press down the grounding plug tightly and fix it with a cable tie.

Plug in ESS / ESW+ / ESW+/ EPS

Grounding plug for power sources, including wall outlets.

1. Only a licensed electrician is allowed to push this grounding plug into a power outlet. See "important safety guidelines!"

2. Fix to this plug permanently in the power socket, it can be screwed together with the socket cover using the enclosed screw. Press down the grounding plug tightly and fix it with a cable tie.

** Countries with CEE-7/4 sockets

-German system*: Afghanistan, Algeria, Andorra, Austria, Boscini-Herzegovina, Bulgaria, Croatia, Estonia, Finland, Germany, Greece, Hungary, Iceland, Indonesia, Italy, Korea, Latvia, Lithuania, Luxembour

- French system: Belgium, Czech Republic, France, Monaco, Morocco, Poland, Slovakia, Slovenia, Switzerland, Tunisia.

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*Countries with CEE-7/4 sockets

**Countries with CEE-7/7 sockets

"French system" Belgium, Czech Republic, France, Monaco, Morocco, Poland, Slovakia, Slovenia, Switzerland, Tunisia.