



**Instruction Manual:
Grounding of CLIP-Hoses**

Instructions for the Grounding of Clip-Hoses

For the transport of flammable dust particles and bulk solids, hoses must meet special demands to avoid any danger of ignition. Antistatic or electrically conductive hose versions are often applied. In order to guarantee optimum safety with regards to avoiding electrostatic

ignition hazards, the correct grounding of the hoses during assembly and installation is imperative. In this case, the metal helix must be grounded on both sides of the hose.

These instructions are designed to help you do this quickly and easily. Please follow the instructions accordingly to ground your hoses correctly and safely.

1. Take the end of the hose and place it on a non-slip surface.



2. Cut the wall material to approx. 30 mm along the metal clip helix spiral.



3. Peel the end of the metal helix, so that it is free from the wall material. Remove the material with a sharp instrument. Please ensure that you cut away from your body, in order to avoid any injuries.



4. Metal clip profile when cut free.





5. Bend the metal clip profile forward at a 90° angle to the hose.



6. Remove any remaining material from the metal clip profile.



7. The metal clip profile should now look like this.



8. Now attach the hose connection clamp.
Push the hose onto the pipe.

9. Now attach the appropriate clamp and pull tight so that the metal clip profile is pressed firmly onto the pipe and the hose is fixed in place. There must be contact between the metal clip profile and the pipe.



As is shown in images 8 - 9, the metal clip profile sits on the pipe and is fixed in place by the separate clamp, metal on metal. This type of connection is recommended. Other methods of grounding are also possible, however, we would like to point out the following:

**Excerpt from Regulation
EN 60335-1:2002-A2:2006**

Electrical connections and grounding conductors must be carried out in such a way that the contact pressure is not transferred via insulation material, which may shrink or become deformed.

An exception applies if the metal parts possess enough elasticity to compensate any shrinking or deformation of the insulation material.

Metal screws may only be applied for electrical connections if the parts clamp together. Thread-cutting screws and thread-forming screws may only be applied for electrical connections if they create a fully-formed standard thread.

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