Earthing a clamp-profile hose

For Master-Clip and Carflex hoses, which earth through the metal **clip profile**. The clip is bared, bent out and clamped metal-on-metal against the connector so static flows safely to earth.

When earthing is required

When the hose conveys **flammable or potentially explosive dust, powder or fume**, or anything that builds static, the metal helix must be **earthed at both ends**. This applies whether or not the hose is a dedicated antistatic / electrically-conductive grade. Where an ATEX zone is involved, the operator is responsible for the explosion-protection assessment of the assembly.

Applies to

Master-Clip range

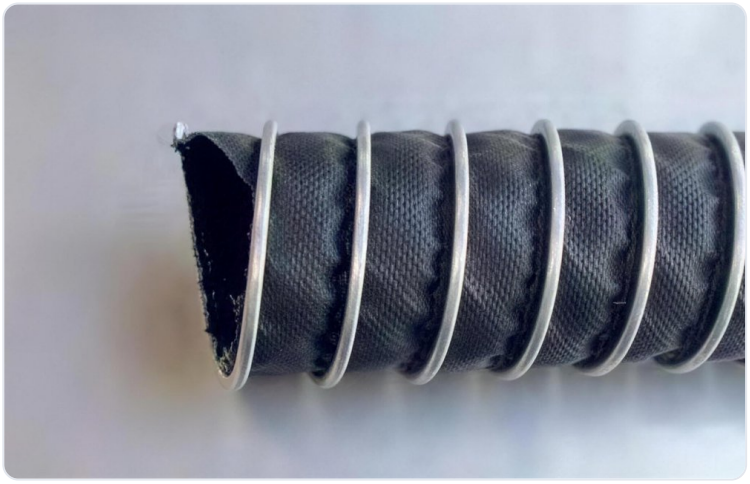
PE · PUR · PTFE (H/S/EL) · Silicone · Vinyl (B/EL/Red) · Neoprene · Hypalon · Viton · HT 400–1100 · Spark · Car · ISO

Carflex 200 / 300

Prepare the clip

1

Place the hose end on a non-slip surface.



2

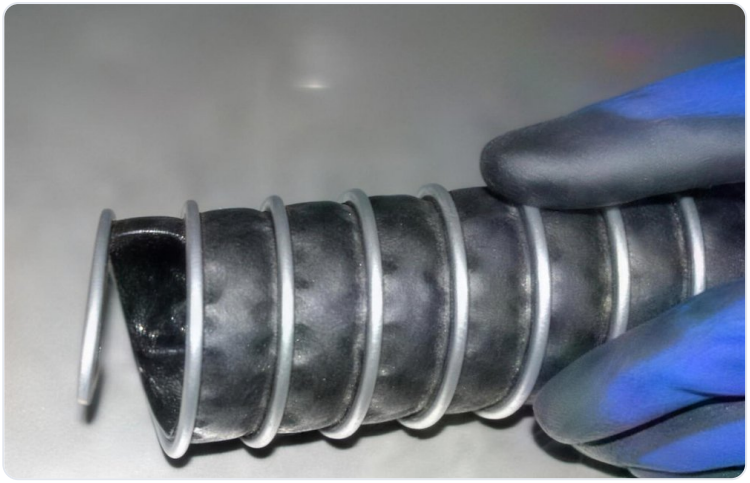
Cut the wall material to approx. 30 mm along the metal clip helix.

3

Peel the metal clip free of the wall material, removing material with a sharp instrument. Cut **away from your body**.

4

The metal clip profile, cut free — ready to bend.

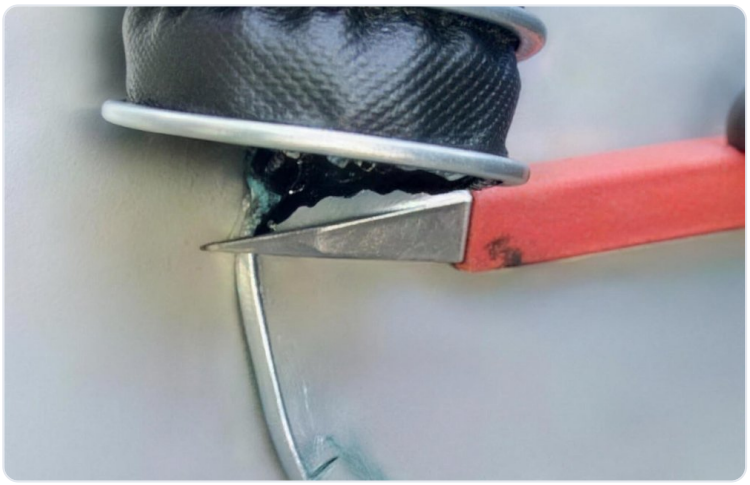


5

Bend the metal clip profile forward to 90° to the hose so it seats against the spigot.

6

Remove any remaining material from the metal clip profile so it is clean and bare for a good earth contact.



Connect & earth

7

Fit the clamp and push the hose onto the pipe. Position the connection clamp over the bared clip profile.

8

Tighten metal-on-metal. Pull the clamp tight so the clip profile is pressed firmly onto the pipe with direct metal-to-metal contact. Repeat at the **other end** so the hose is earthed at both ends.

Guidance only and not a substitute for your own risk assessment or a formal ATEX evaluation where required. Per EN 60335-1, the contact pressure of an earth connection should not be carried through insulating material that could shrink or deform. If in doubt, speak to us before installation.