

Length cutting and assembly information for technical hoses

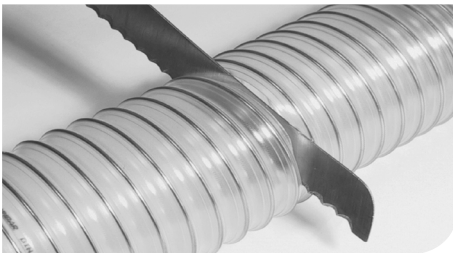
Work safety notes

For professional hose length cutting, we recommend using suitable cutting tools and observing basic safety measures. This reduces the risk of injury while also ensuring clean cutting results.

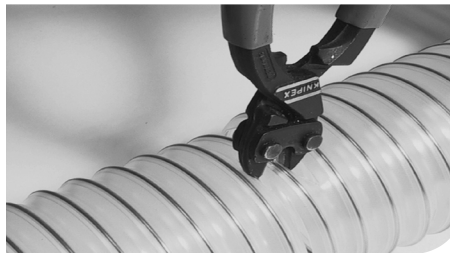
Safe working when cutting hoses:

- Always wear suitable cut-resistant or leather gloves.
- Ensure that your body position is stable and safe during the cutting process.
- Keep both arms as parallel as possible and avoid crossing movements.
- The hand used to guide or secure the hose should always maintain a safety distance of at least 10 cm from the cutting point and the cutting tool.
- Use only sharp cutting tools that are suitable for the respective hose type.
- Ensure that the hose is securely fixed before cutting to prevent it from slipping.

Cutting plastic hoses with a supporting spiral

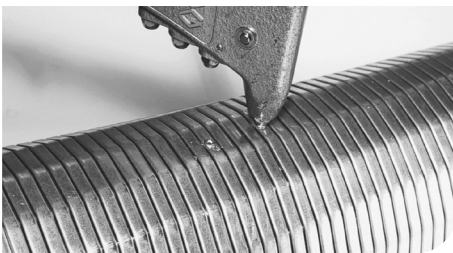


Step 1:
Cut into the hose, preferably using a serrated knife.

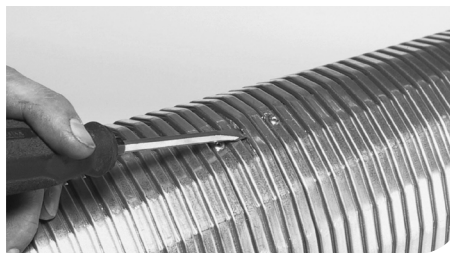


Step 2:
Cut through the supporting spiral using pliers.

Cutting metal hoses 375 – 377



Step 1:
Fix the ends with rivets or by soldering.



Step 2:
Lever out the profile using a screw driver.



Step 3:
Remove the protruding profile using tin snips or pliers.

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Grounding for protection against electrostatic charge

Professional and continuous grounding of all system components – including hoses and connected accessories – reduces the risk of process disruptions and the ignition of explosive atmospheres. Please also refer to our data sheet on electrostatic charging.



Option 1:

Expose the spiral, bend it inwards and mount it on a conductive fitting.



Option 2:

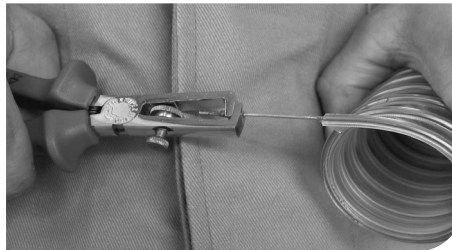
Expose the spiral and fasten it, for example, with a rivet or screw.

Stripping the wires on AIRDUC® hoses



Step 1:

Cut into the hose along the steel wire using a serrated knife.



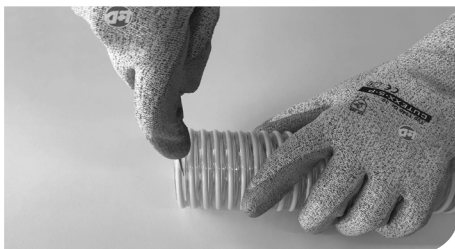
Step 2:

Either strip off the plastic using stripping pliers ...



... or remove it easily using special stripping pliers.

Exposing the grounding strand on NORPLAST® PUR-C / PVC-C AS hoses



Step 1:

On the open side of the hose, cut into the hose wall along the hard plastic spiral next to the strand over half of the circumference. The strand must remain within the remaining hose wall.



Detail view:

The strand lies centrally between the hard plastic spirals in the hose wall.

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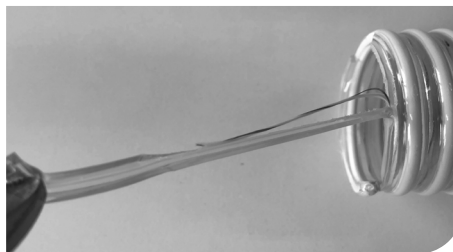
Step 2:

Then cut off the incised hard plastic spiral using side cutters.



Step 3:

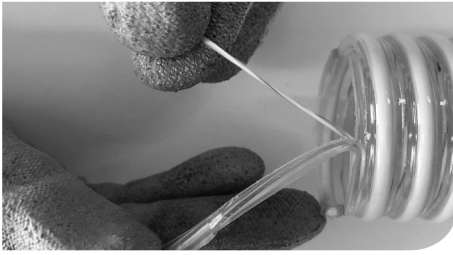
Cut into the hose wall along the hard plastic spiral next to the strand over a quarter of the circumference, so that the strand lies within the cut-off hose wall.



Step 4:

Grip the incised hose wall with pliers and pull firmly until the grounding strand emerges from the plastic wall.

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Step 5:

Carefully separate the grounding strand from the plastic wall. Remove the loose plastic end using side cutters.

To dissipate electrostatic charges, fold the grounding strand inwards, for example, and mount the hose on an electrically conductive and grounded metal fitting.

Grounding information:

- The grounding strand should be grounded at both hose ends.
- After grounding, measure the electrical resistance between both grounded hose ends. The leakage resistance should be $< 10^9 \Omega$.
- In addition, observe the regulations, guidelines and legal requirements applicable to your application.

Leak-proof assembly

In most cases, reliable sealing can only be achieved with our specially developed spiral hose clamps. Escaping media can endanger people and the environment, impair processes and reduce the efficiency of the application.



Leak-proof assembly using original accessories.



Significant leakage when using conventional hose clamps.