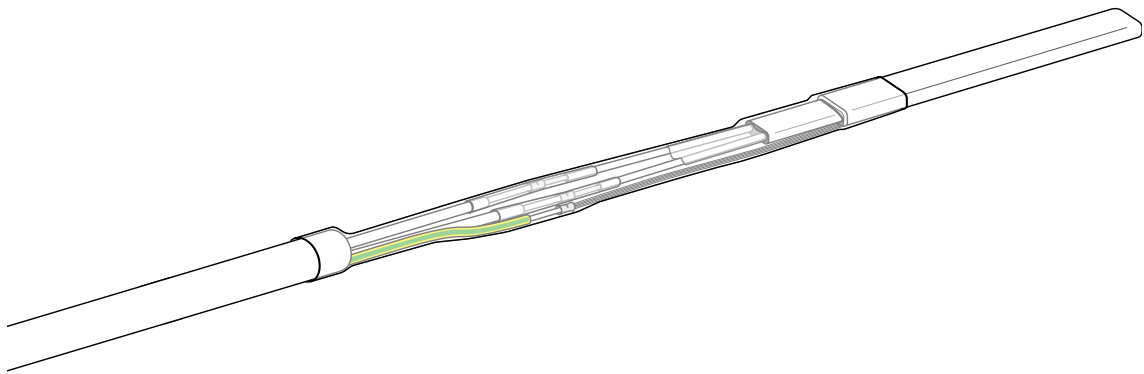


ASSEMBLY INSTRUCTIONS



ELVB-SRV-H

Connection and repair set
for self-regulating heating cables
Types ELSR-H, -H+, -SH, -SH+ and -SHH

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IMPORTANT INFORMATION

- RETAIN FOR LATER USE



For proper and safe use of the ELVB-SRV-H splice sets for ELSR-H, ELSR-H+, ELSR-SH, ELSR-SH+ and ELSR-SHH self-regulating trace heaters, please follow these instructions. Please keep these instructions for future reference (e.g. in the system documentation).

- FOR DISPOSAL



The WEEE logo indicates that this product must not be disposed of with residential waste. Further information about disposal and recycling of old electrical and electronic devices and where to find collection points is available from your local disposal company or from the manufacturer from which you bought the product.



ATTENTION

Refers to a potentially dangerous situation. If it is not prevented, there is a risk of damage or malfunction.



DANGER

Refers to an extremely dangerous situation. If it is not prevented there is risk of death or at least a high risk of serious injuries.



NOTE

Important information and instructions for safe, effective and environmentally compatible usage.



WARNING

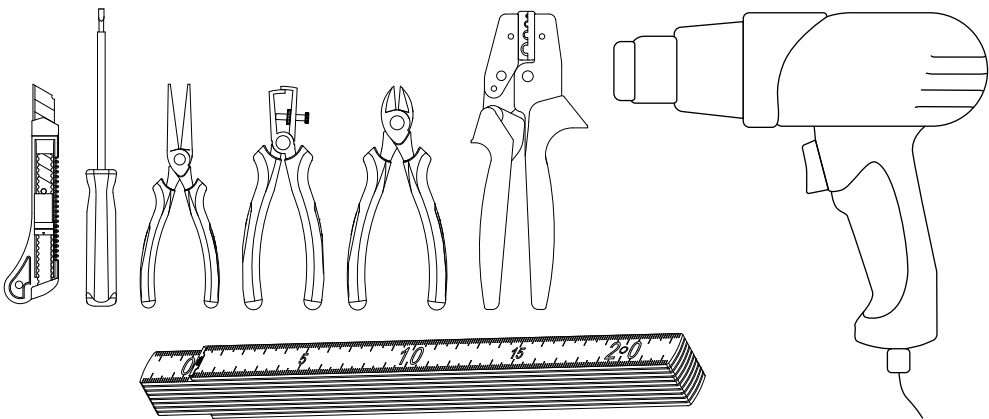
Refers to a dangerous situation. If it is not prevented there is risk of injury or at least a high risk of material damage.

Proviso

We reserve the right to make technical changes. Changes, errors or misprints shall not form the basis for any claim to compensation for damages. Comply with the applicable and currently valid standards and regulations for safety-related components and systems.

eltherm GmbH Ernst-Heinkel-Str. 6-10 57299 Burbach T.: +49 2736 4413-0 F.: +49 2736 4413-50 info@eltherm.com	Dokument: 8643040911117		Assembly instructions ELVB-SRV-H for ELSR-H, -H+, -SH, -SH+ and -SHH	
	Author:	Felix Kind	Date:	20.05.2016
	Revision: 06	Julian Engel	Date:	20.09.2024

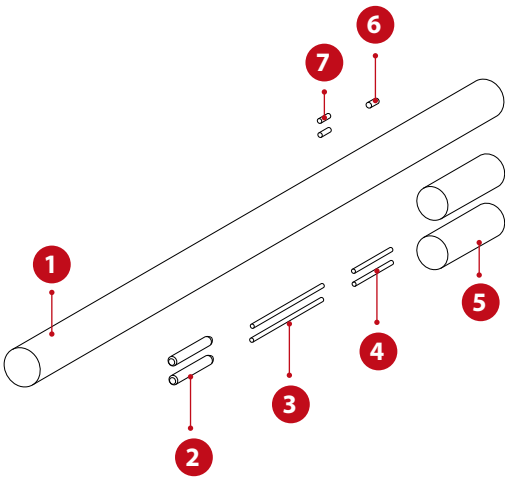
RECOMMENDED TOOLS



CONTENTS OF CONNECTION SET

ELVB-SRV-H (article no. 0911117)

Suitable for use with ELSR-H; -H+; -SH; -SH+; -SHH



No.	Type	Quantity
1	Shrink tubing PTFE-FEP Ø = 11,4 mm; l = 200 mm; natur	1 Unit
2	Shrink tubing-Muffen PTFE-FEP Ø = 4 mm; l = 32 mm; natur	2 Units
3	Shrink tubing PTFE Ø =3,2mm; l = 70 mm; natur	2 Units
4	Shrink tubing PTFE Ø =3,2mm; l = 40 mm; natur	2 Units
5	Shrink tubing PTFE-FEP Ø = 8,9 mm; l = 30 mm; natur	2 Units
6	Nickel sleeve 4,8 x 0,4 x 9,0 mm; blank	1 Unit
7	Nickel sleeve 4,0 x 0,4 x 9,0 mm; blank	2 Units



ATTENTION

- Work may only be performed by authorised and qualified specialists!
- After work is complete, check the resistance and insulation resistance (min. 500VDC, recommended 2500VDC, min. 20 MOhms)!
- Use a suitable tool for crimp connector to crimp the nickel sleeves (for example Stocko WZ100 with insert E66 or similar).



WARNING

Heat the shrink tubing to about 400°C up to 450°C for optimum shrinking results. Avoid temperatures over 500°C: Danger of damage to the outer jacket of the heating cable! We recommend using an adjustable heat gun with baffle plate! Determine a suitable temperature setting of the heat gun by trial and error!



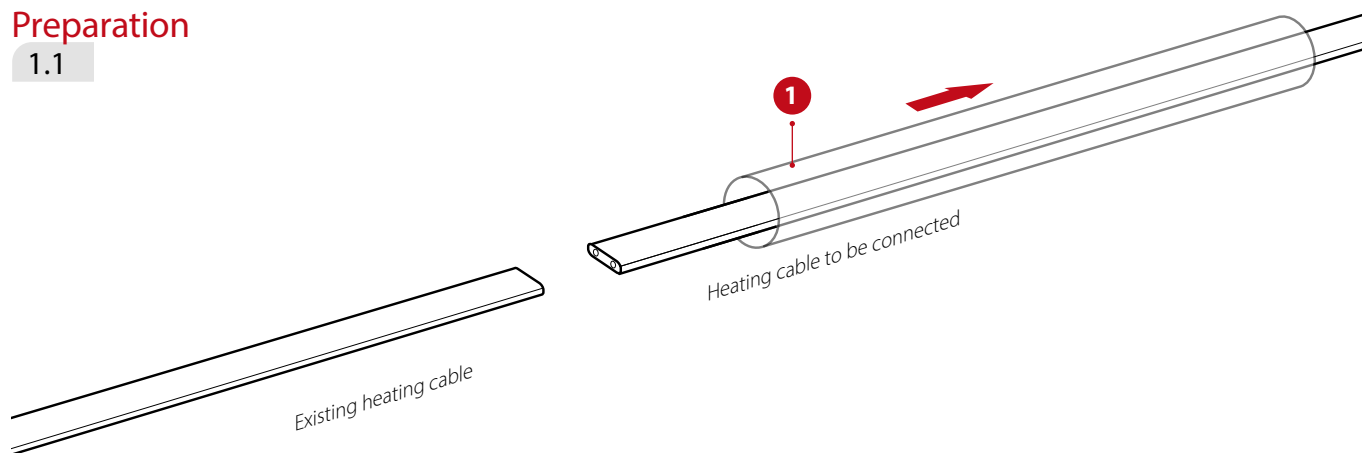
NOTE

This set does not include an end termination. If an end termination is needed, it must be ordered separately.

OPTION 1: CONNECTION OF HEATING CABLE - HEATING CABLE

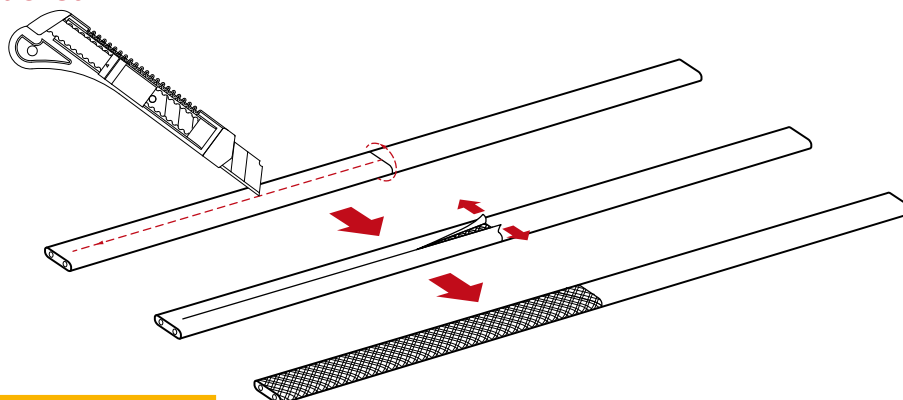
Preparation

1.1



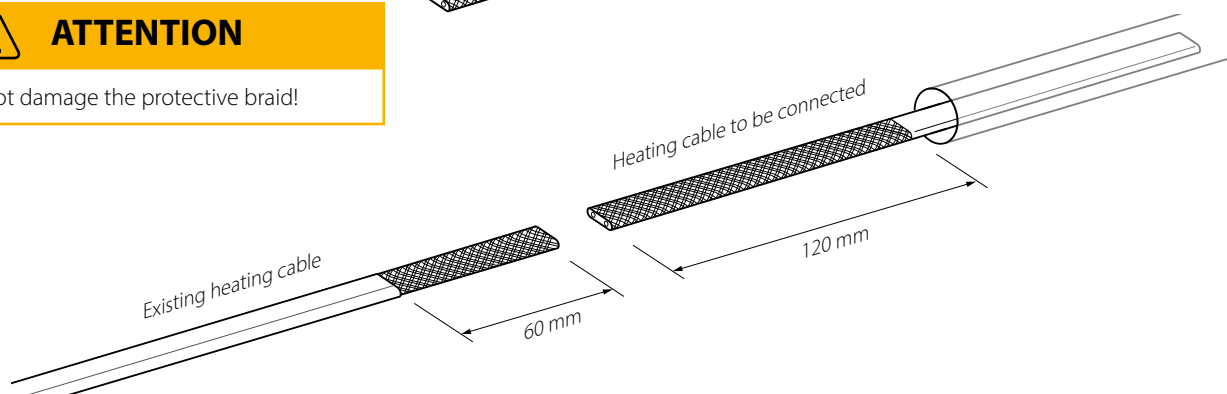
Remove outer jacket

1.2



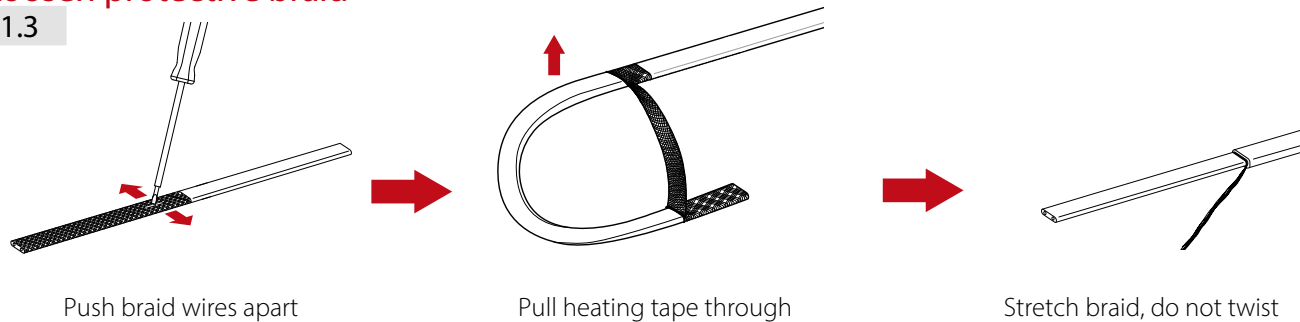
ATTENTION

Do not damage the protective braid!



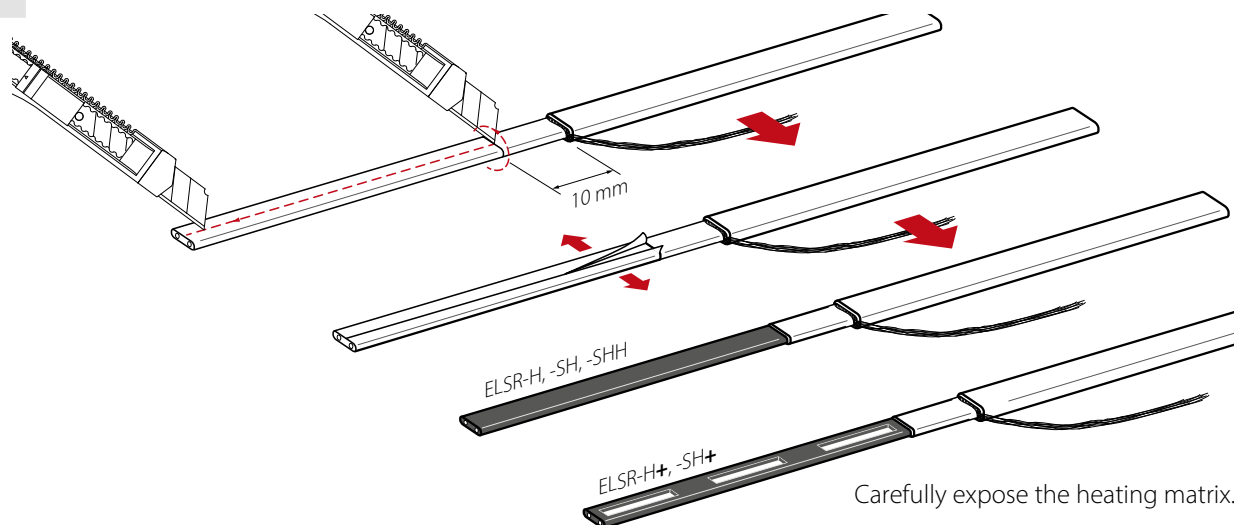
Loosen protective braid

1.3



Remove insulating cover

1.4



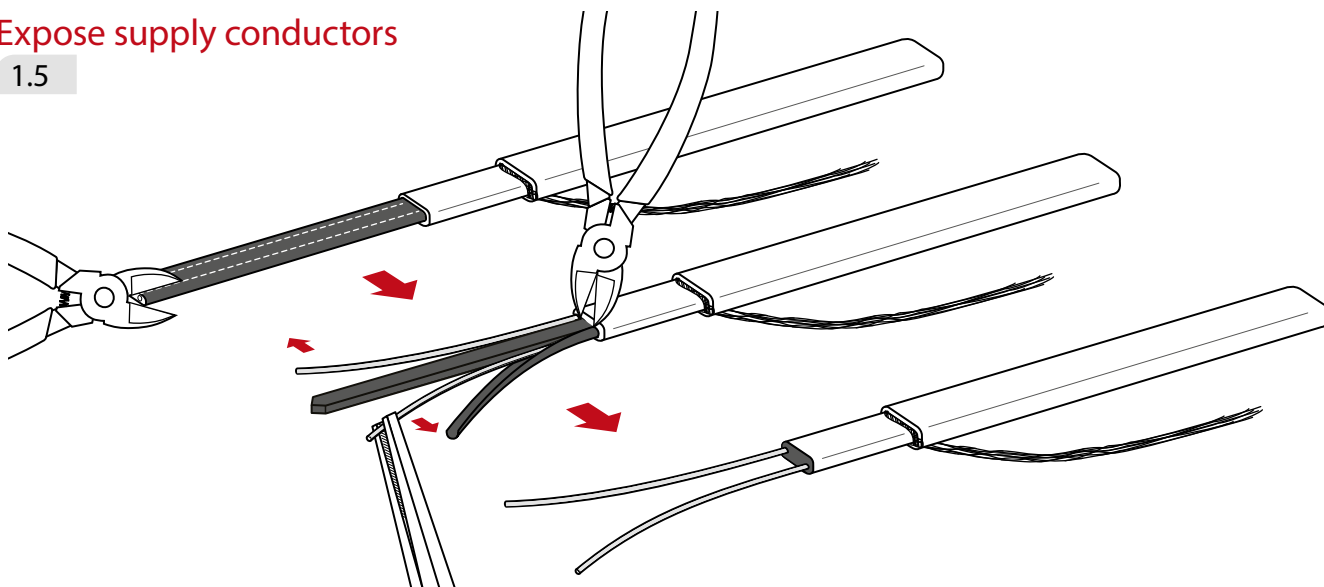
Carefully expose the heating matrix.

NOTE

ELSR-H+ & -SH+ only: Hole spacing and lengths may vary depending on the trace heater type.

Expose supply conductors

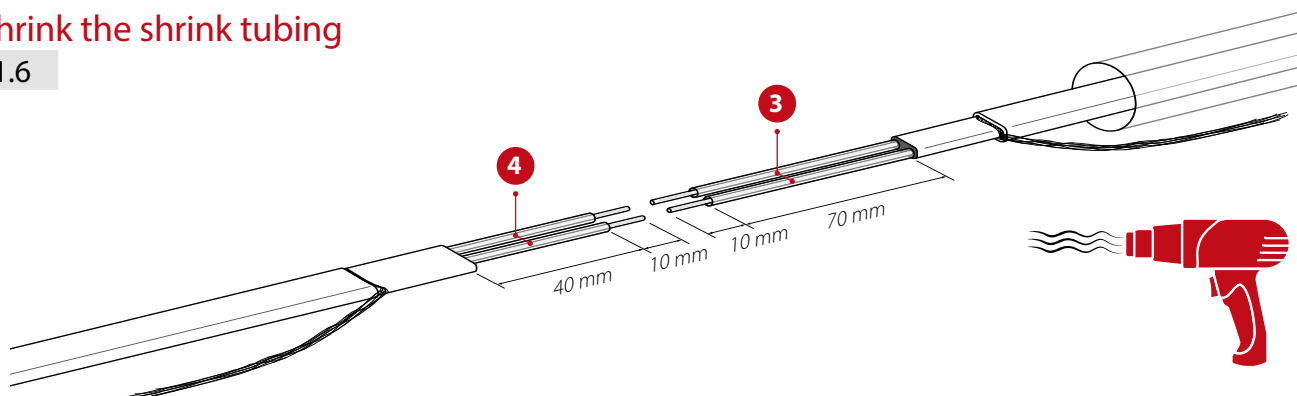
1.5



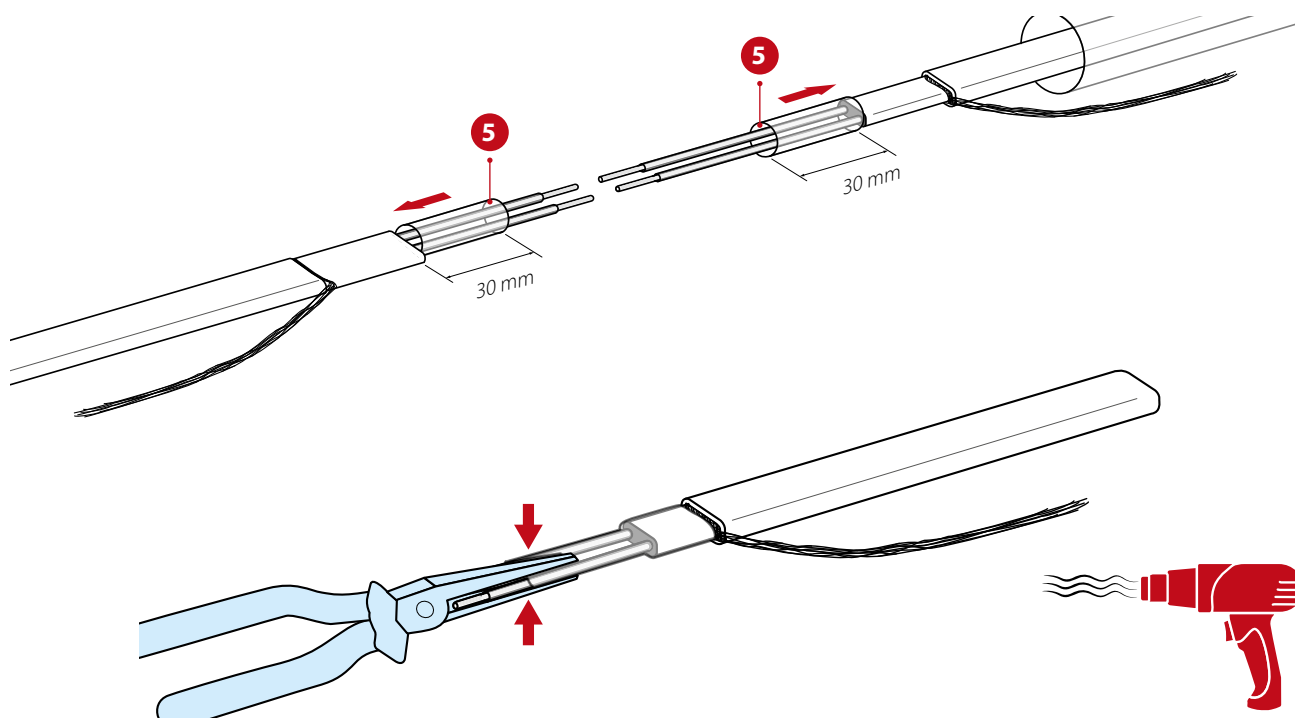
Carefully expose the supply conductors, shorten them to 80 mm, and if necessary clean them!

Shrink the shrink tubing

1.6



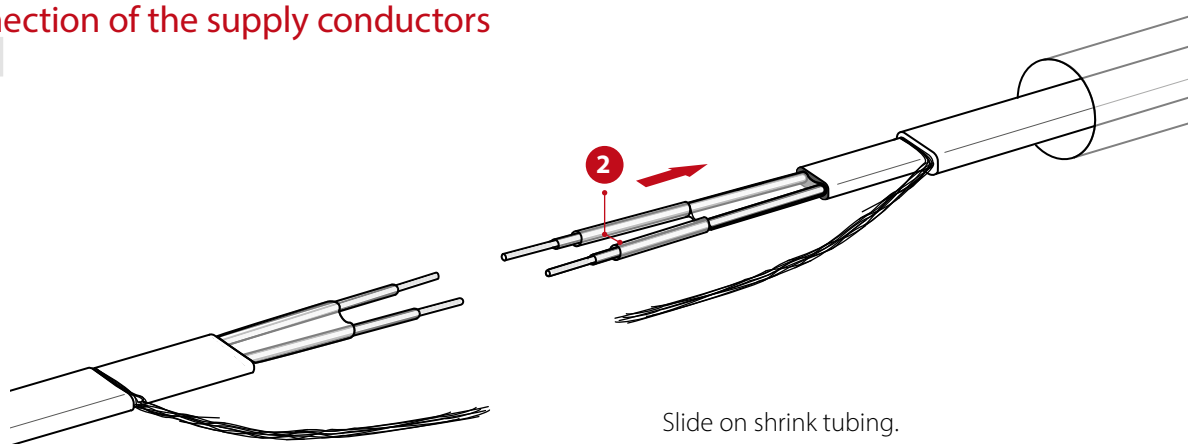
Slide on the shrink tubing and shrink it.



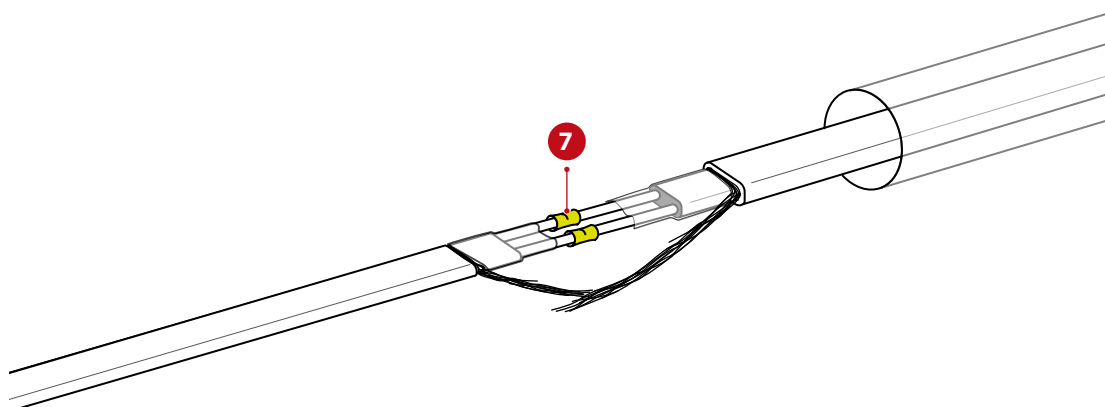
Slide on shrink tubing up to the braid, shrink it and while it is still hot press it together between the supply conductors with long nose pliers.

Connection of the supply conductors

1.7

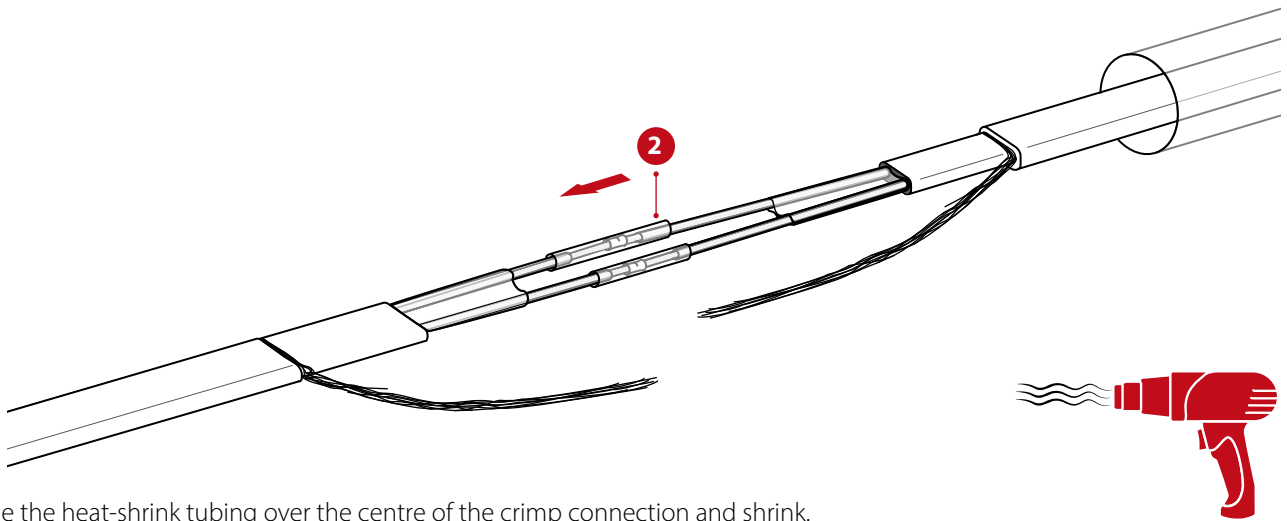


Slide on shrink tubing.



Slide the butt connector onto the supply conductors and crimp with crimping pliers.

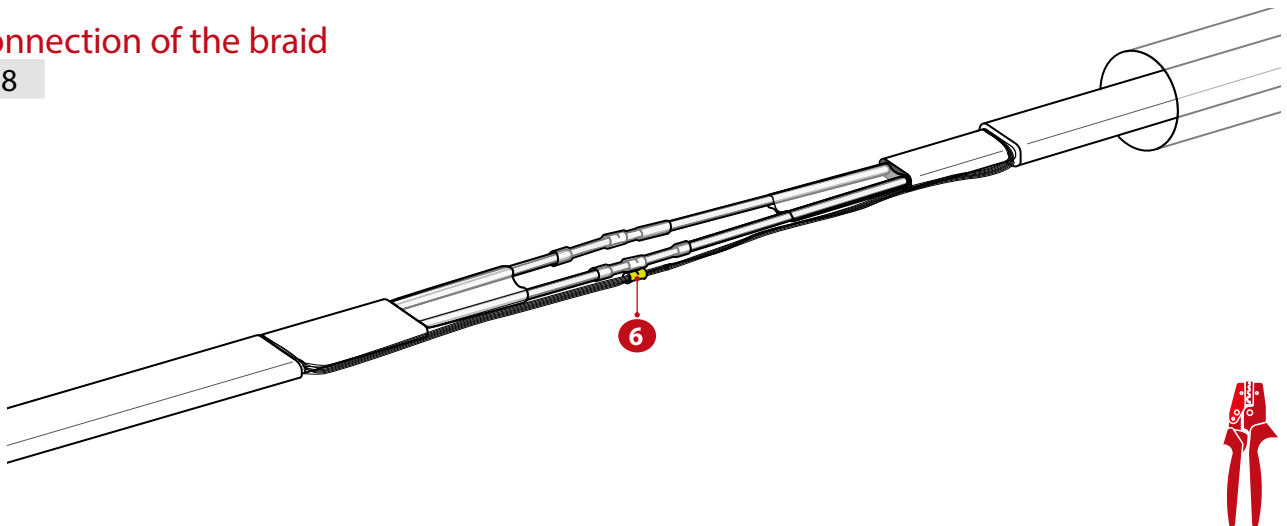




Slide the heat-shrink tubing over the centre of the crimp connection and shrink.

Connection of the braid

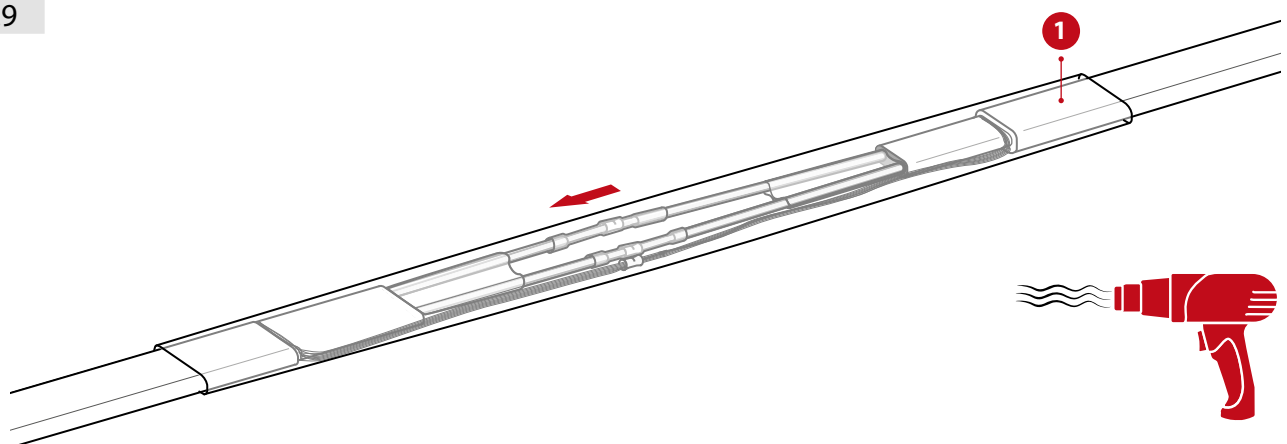
1.8



Slide the braid into the nickel sleeve and crimp with crimping pliers.

Finalisation ELSR connection

1.9

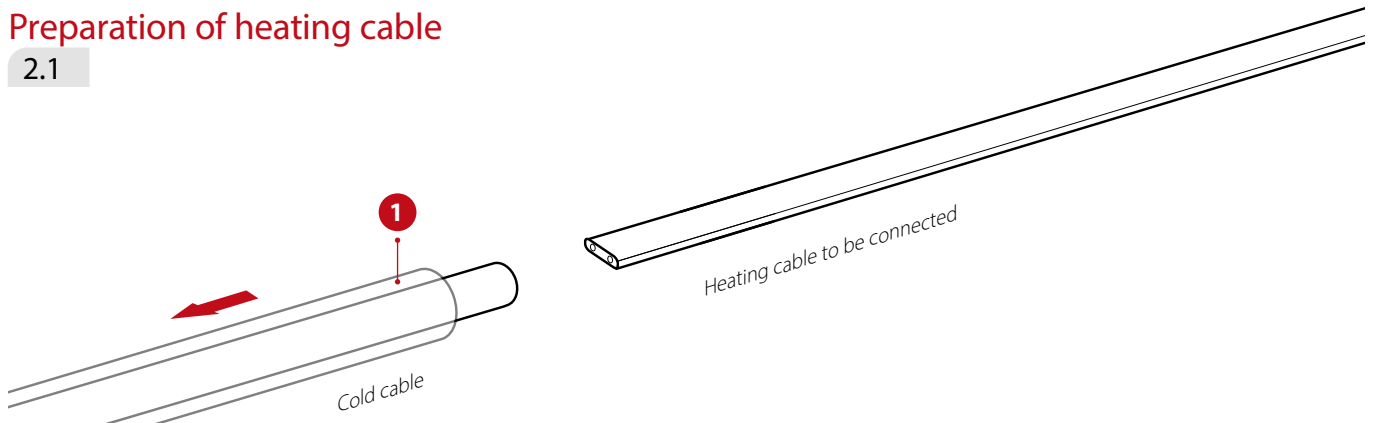


Slide on the shrink tubing over the centre and shrink it.

OPTION 2: CONNECTION OF HEATING WITH COLD CABLE

Preparation of heating cable

2.1



Heating cable - remove outer jacket

2.2

See 1.2 Remove outer jacket. **ATTENTION** - When connecting with cold cable, only remove 100 mm outer sheath!

Heating cable - loosen protective braid

2.3

See 1.3 Loosen protective braiding.

Heating cable - remove insulating cover

2.4

See 1.4 Remove insulating cover.

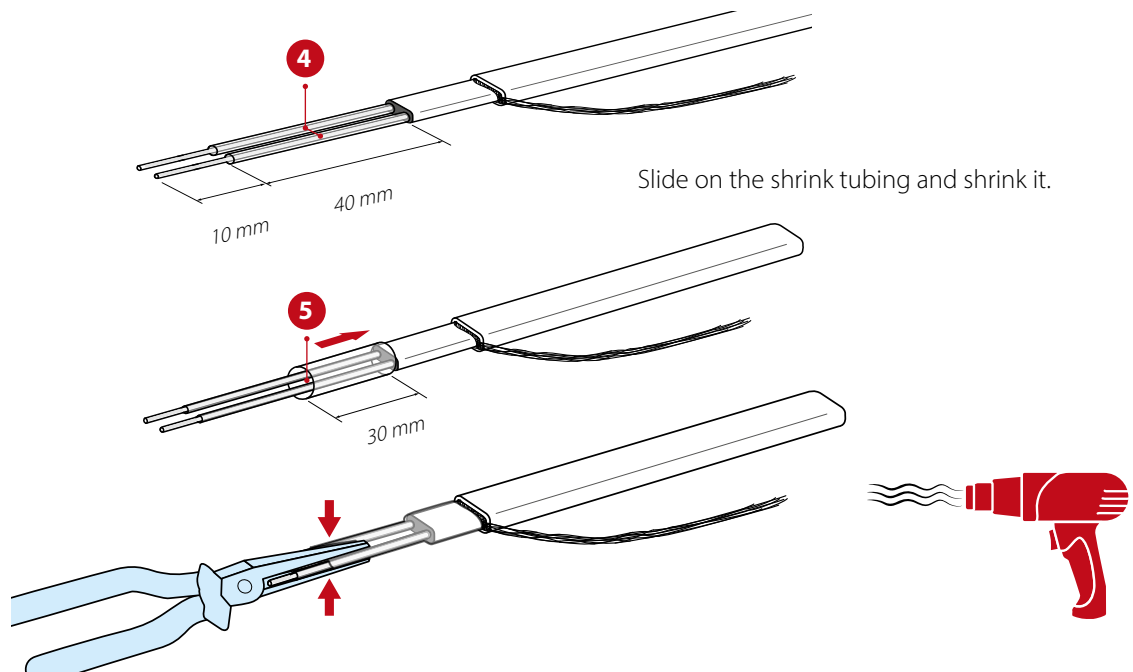
Heating cable - expose supply conductors

2.5

See 1.5 Expose supply conductors and shorten to 100 mm.

Heating cable - shrink outer shrink tubing

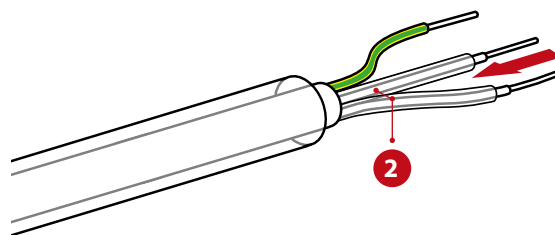
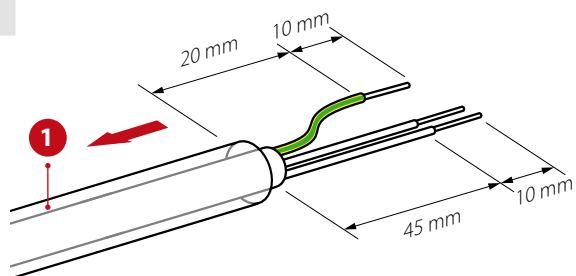
2.6



Slide on shrink tubing up to the braid, shrink it and while it is still hot press it together between the supply conductors with long nose pliers.

Cold lead - preparation

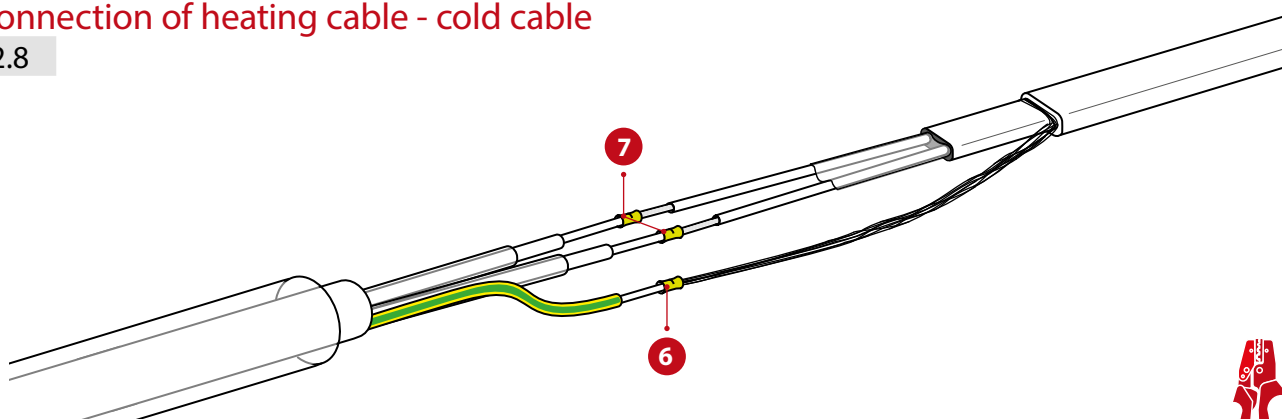
2.7



Expose individual wires, shorten and strip insulation.

Connection of heating cable - cold cable

2.8

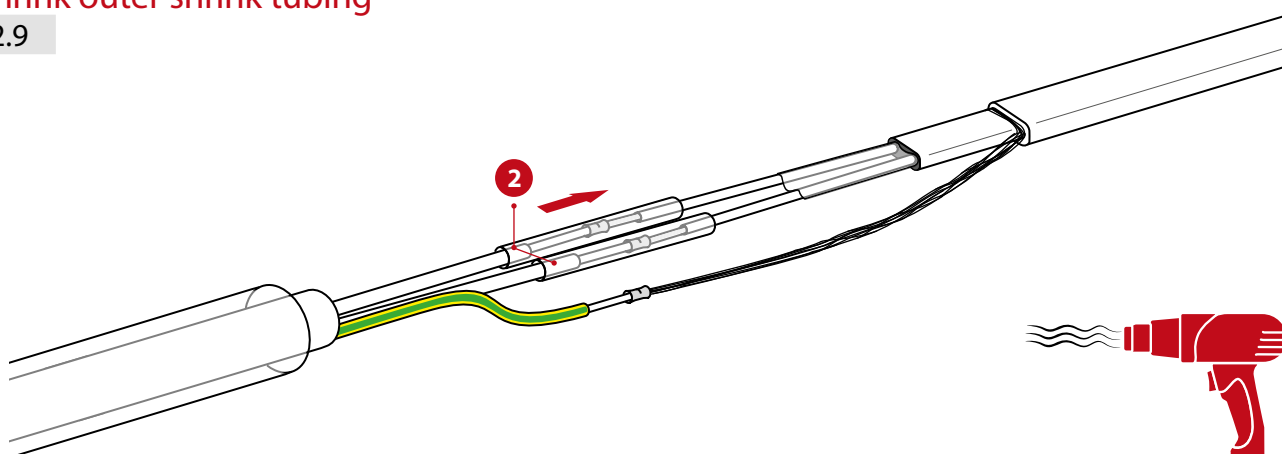


Guide the supply conductors and braiding into the corresponding nickel sleeve and crimp with crimping pliers.



Shrink outer shrink tubing

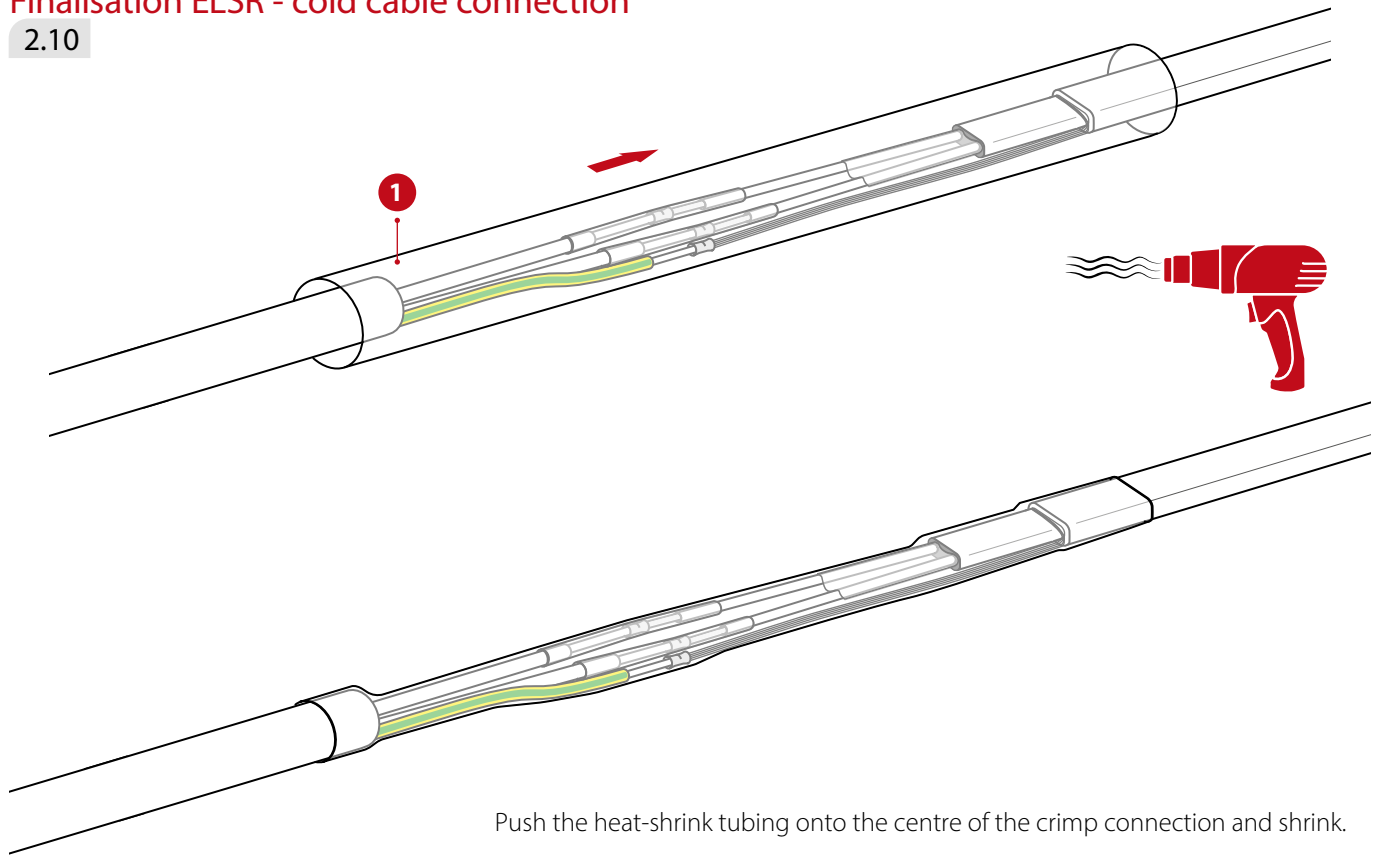
2.9



Push the heat-shrink tubing onto the centre of the crimp connection and shrink.

Finalisation ELSR - cold cable connection

2.10



NOTES



This document can also be found on the eltherm website.
Visit our download area.



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