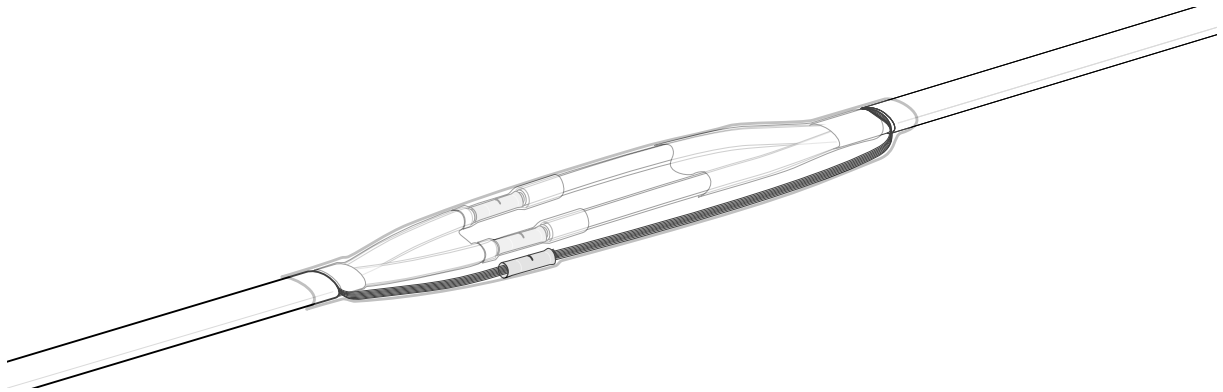


ASSEMBLY INSTRUCTIONS



ELVB-SRV-ELP

Splice kit for ELP/PFA, ELP/FEP & ELP/Si

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IMPORTANT INFORMATION

- RETAIN FOR LATER USE



Please follow these instructions for proper and safe use of the ELVB-SRV-ELP splice kits.
Please retain these instructions for later reference purposes (for example 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

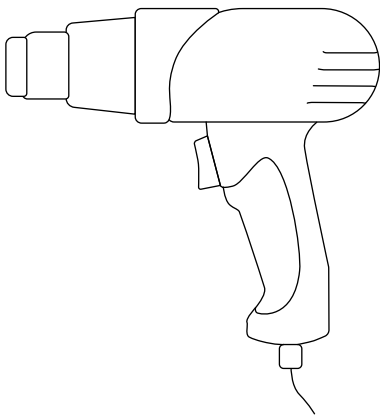
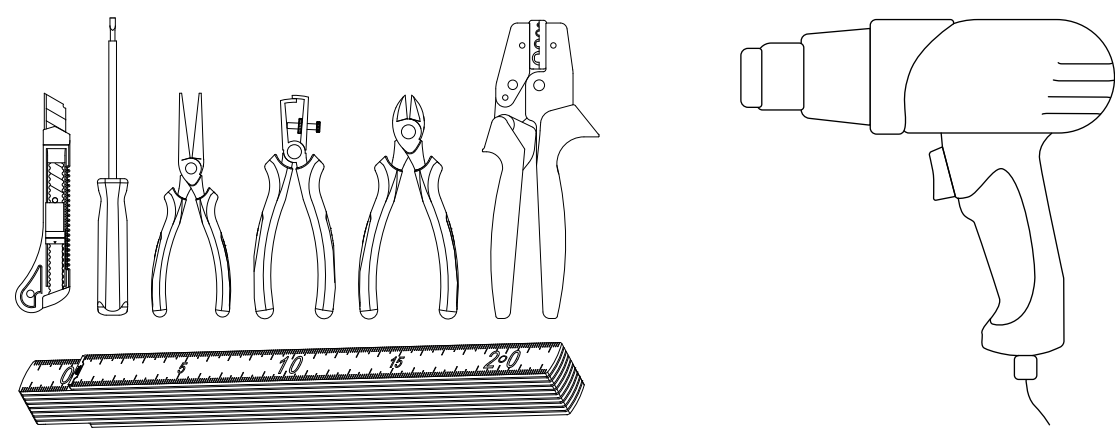
Refers to a dangerous situation. If it is not prevented there is risk of injury or at least a high risk of material damage.

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.

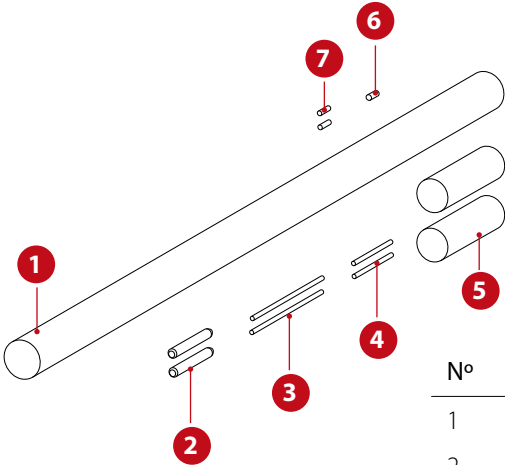
eltherm GmbH Ernst-Heinkel-Str. 6-10 57299 Burbach T.: +49 2736 4413-0 F.: +49 2736 4413-50 info@eltherm.com	Document: 8643040911118		Assembly instructions ELVB-SRV-ELP	
	Author:	Matthias Schumacher	Date:	16.06.2016
	Revision: 02	Julian Engel	Date:	13.06.2024

RECOMMENDED TOOLS



CONTENTS OF CONNECTION SET

1.1 ELVB-SRV-ELP (article no. 0911118, suitable for use with ELP/PFA, ELP/FEP & ELP/Si)



NOTE

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

N°	Type	Quantity
1	Shrink tubing PTFE-FEP Ø = 11,4 mm; l = 200 mm; natur	1 Unit
2	Shrink tubing 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!
- Make sure that glue is emerging the shrink sleeves while shrinking!
- After work is complete, check the insulation resistance (min. 500VDC, recommended 2500VDC, min. 20 Mohms)!
- Crimp the nickel sleeves and terminal pins with a suitable tool (e.g. Stocko WZ100 with insert E66 or similar).



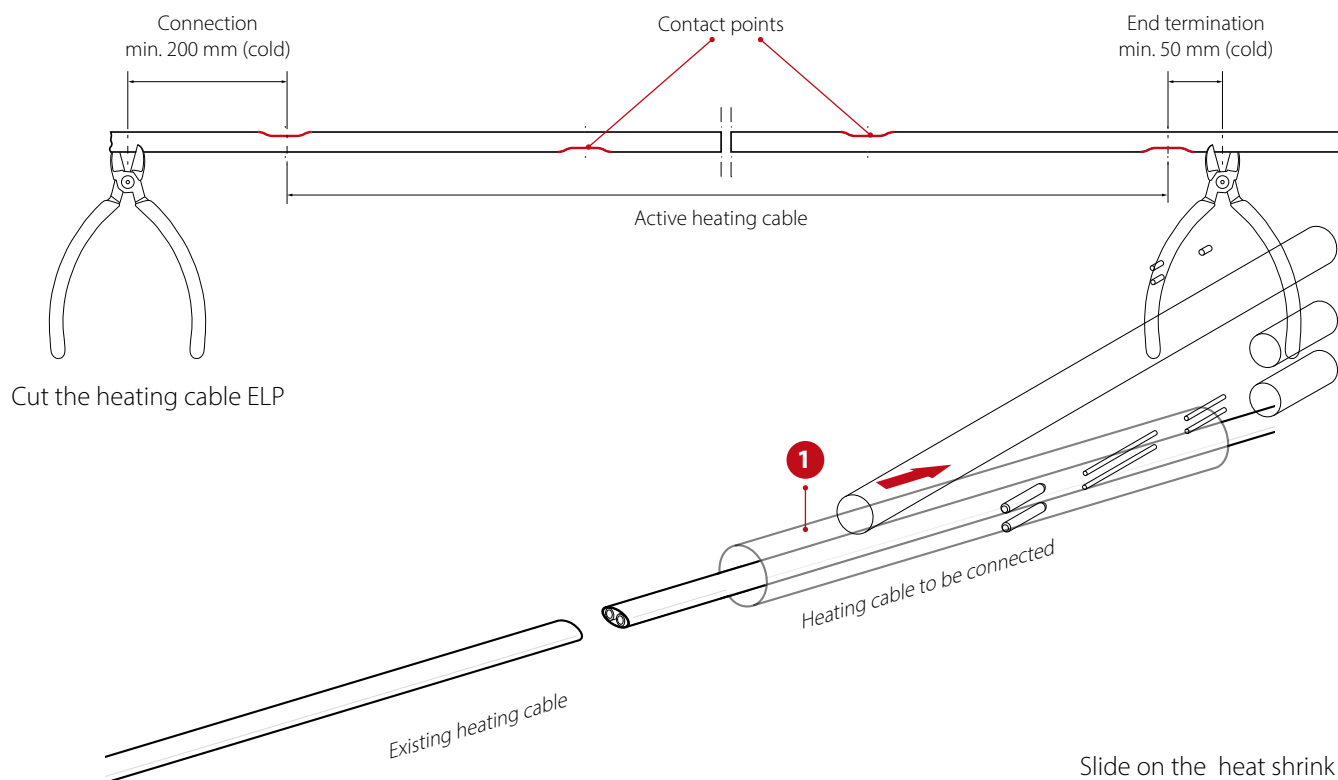
WARNING

Heat PTFE-shrink sleeve with 400°C – 450°C for best results. Avoid temperatures above 500°C: risk of damage to the overjacket of the trace heater! We recommend using adjustable hot air gun with a deflection plate!
In case of adjustable hot air guns: Empirically determine suitable temperature settings!

OPTION 1: Splice of trace heaters

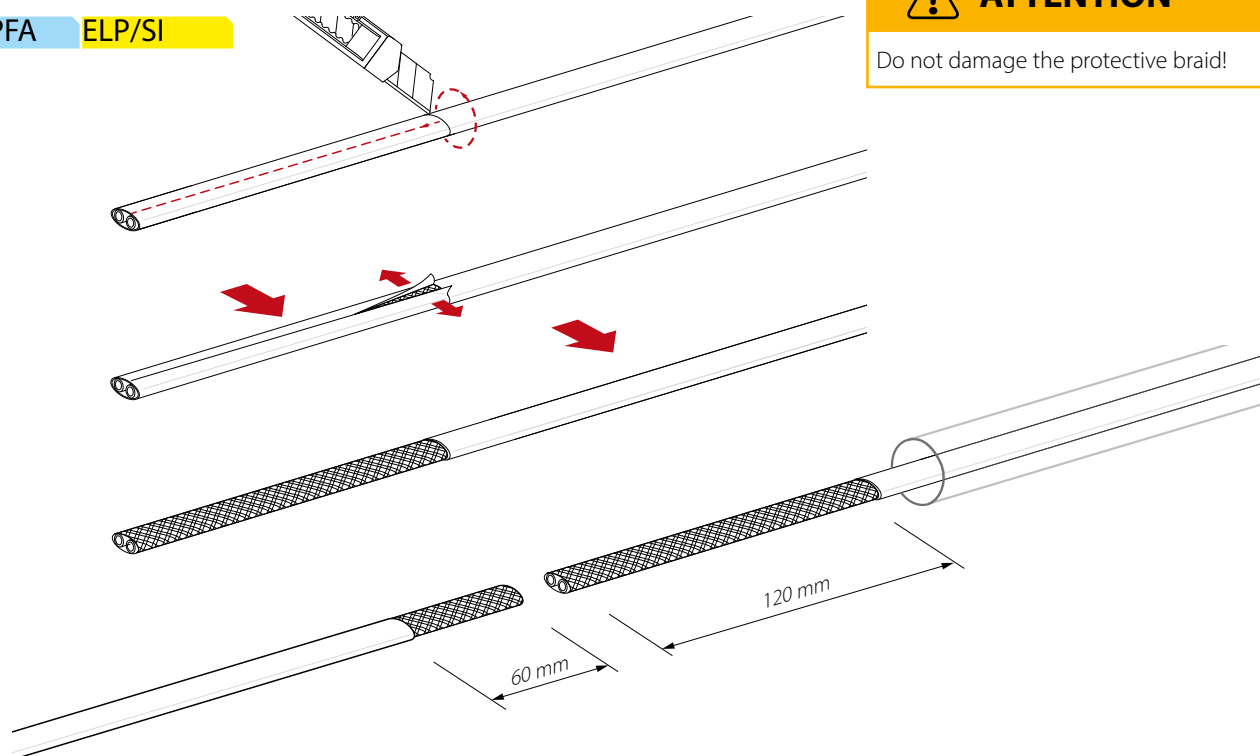
PREPARATION

ELP/PFA **ELP/SI**



REMOVE THE OUTER JACKET

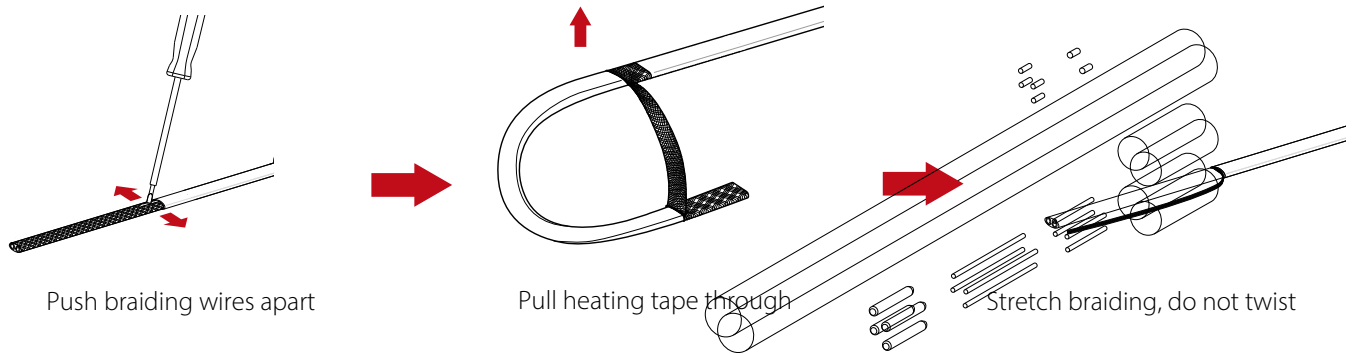
ELP/PFA **ELP/SI**



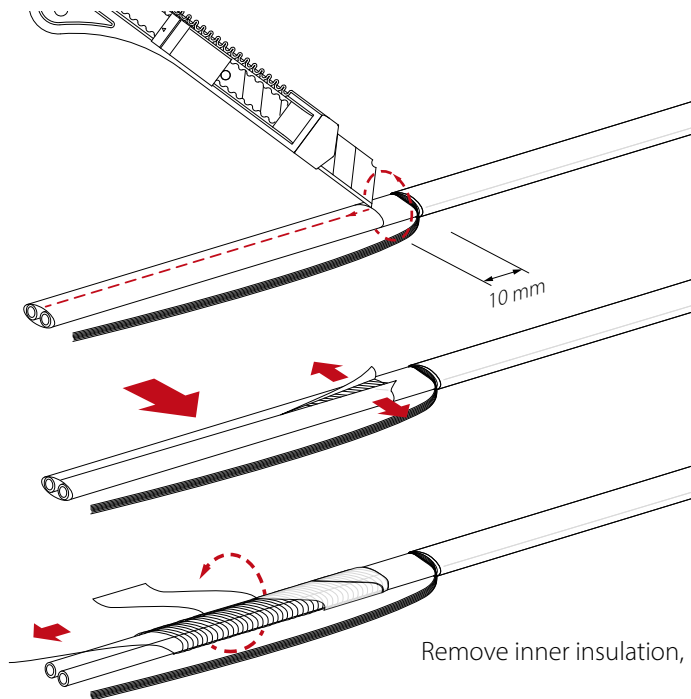
ATTENTION

Do not damage the protective braid!

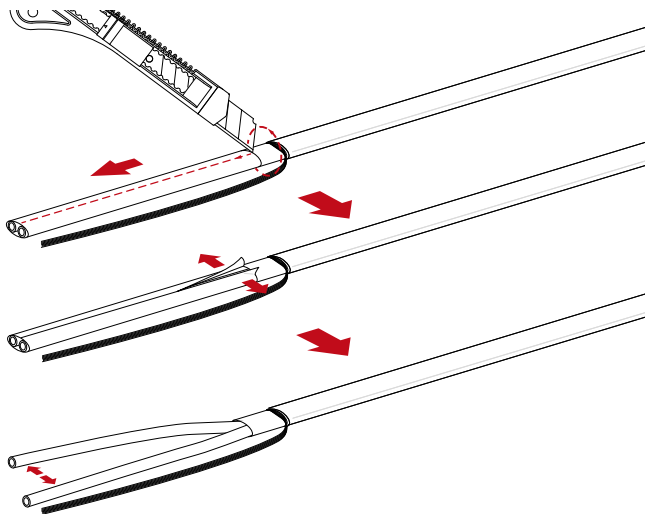
LOOSEN PROTECTIVE BRAID



EXPOSE SUPPLY CONDUCTORS

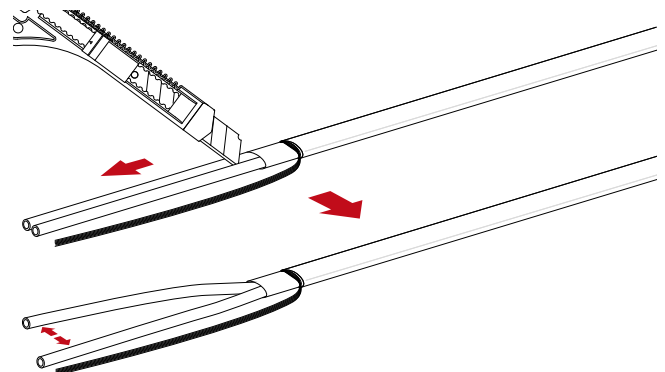


ELP/PFA



Expose and separate the supply conductors.

ELP/SI



Separate the supply conductors.

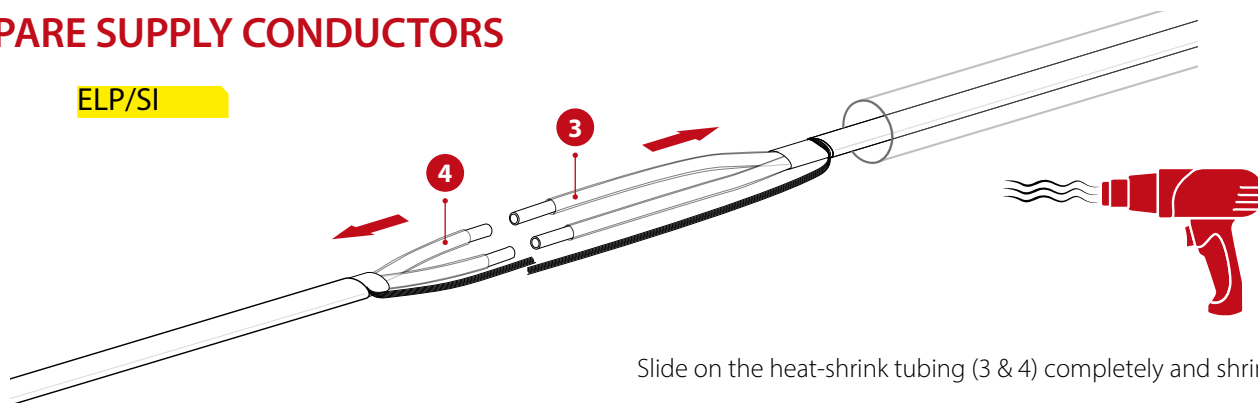


ATTENTION

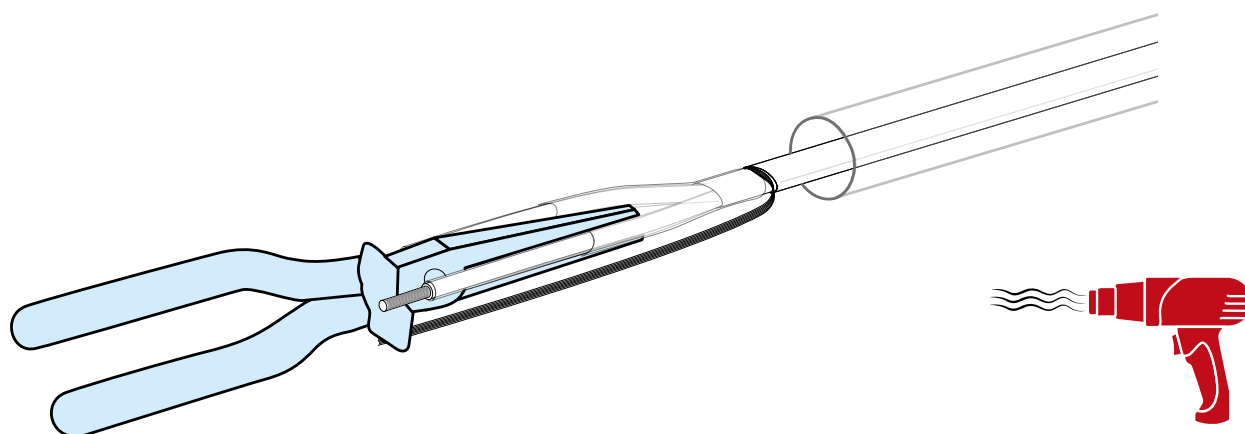
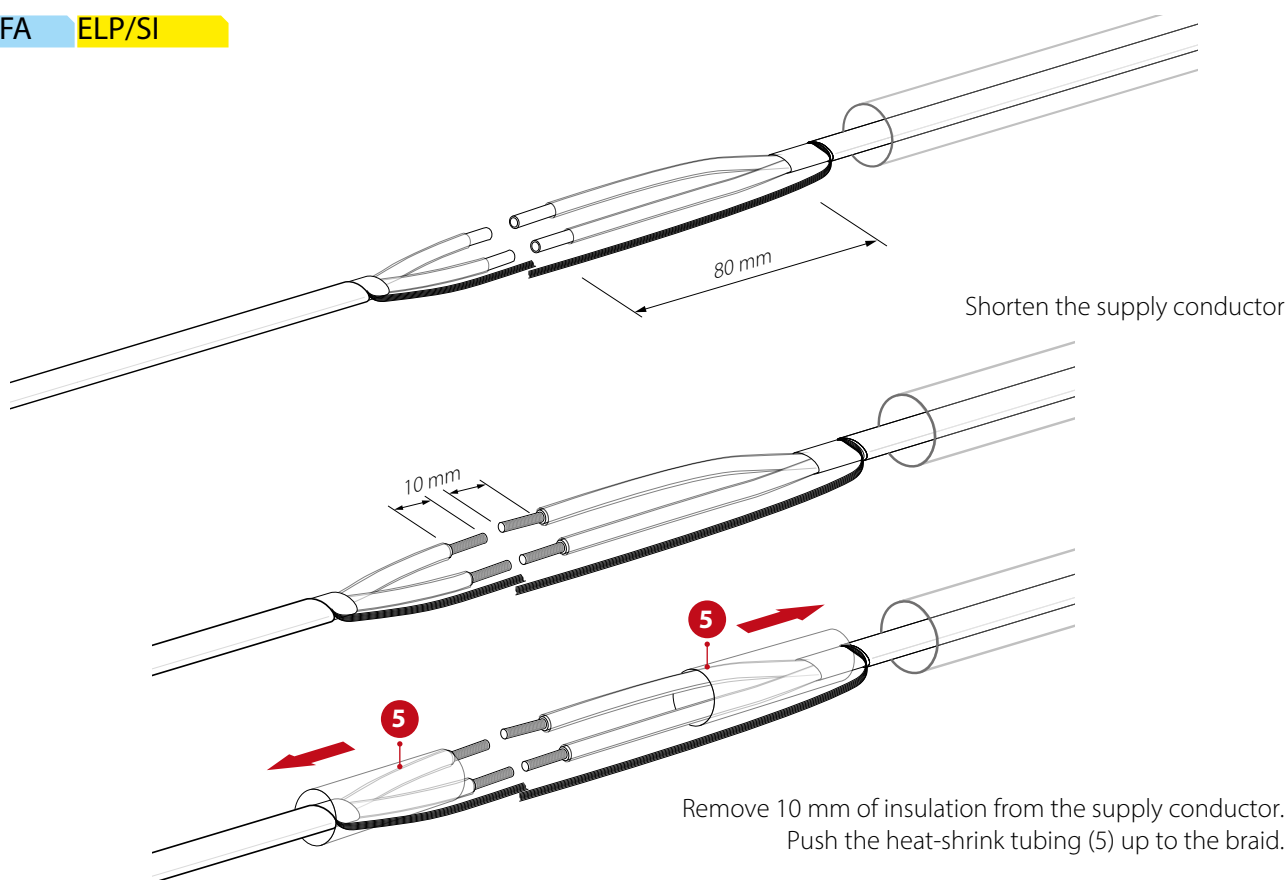
- Make sure not to damage the insulation of the separated bus wires.
- Keep heater wire away from protection braid!

PREPARE SUPPLY CONDUCTORS

ELP/SI

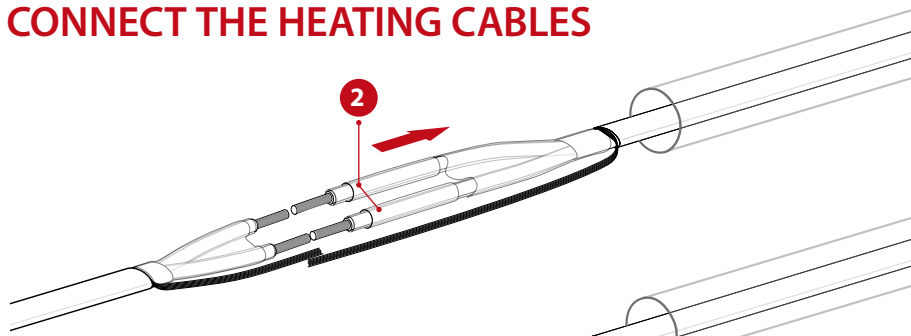


ELP/PFA ELP/SI

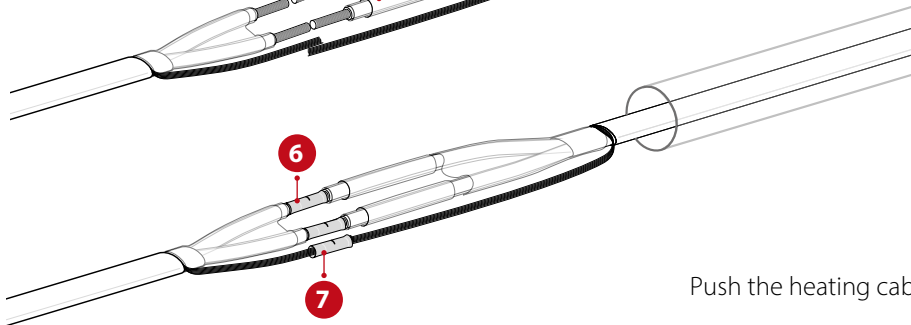


Shrink the heat-shrink tubing (5) on both heating cables. Press the heat shrink with long-nose-pliers while still warm.

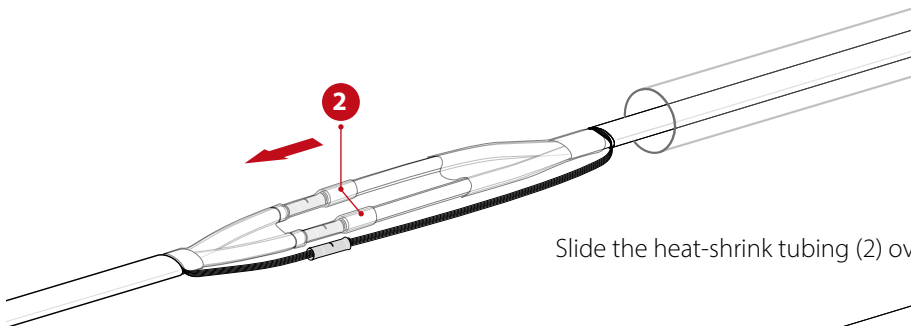
CONNECT THE HEATING CABLES



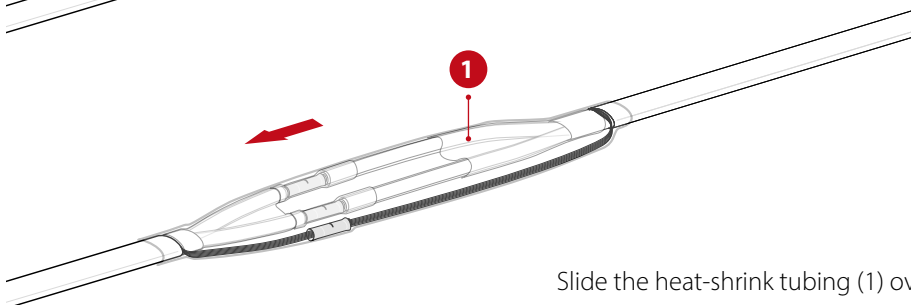
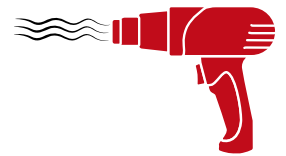
Slide the heat-shrink tubing (2).



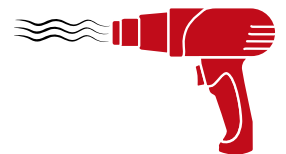
Push the heating cable into the nickel sleeve (6), insert the braid into the nickel sleeve (7) and crimp.



Slide the heat-shrink tubing (2) over the centre of the connection and shrink.



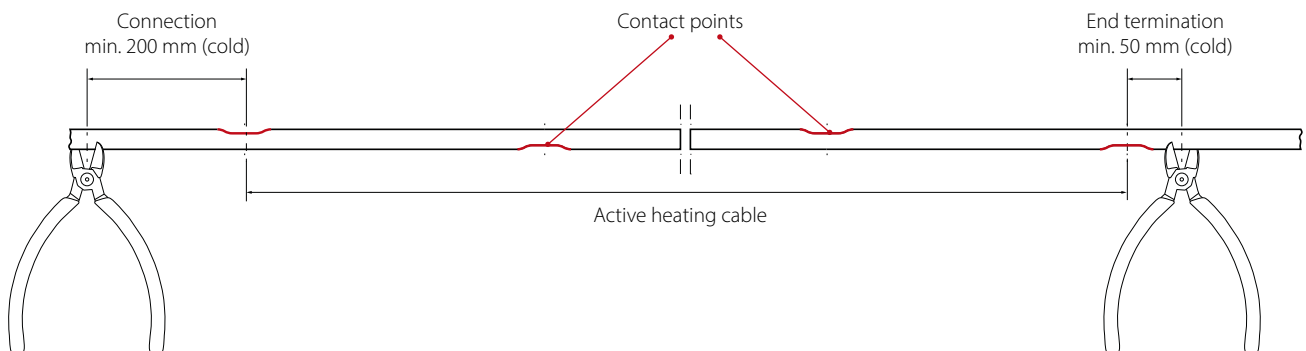
Slide the heat-shrink tubing (1) over the centre of the connection and shrink.



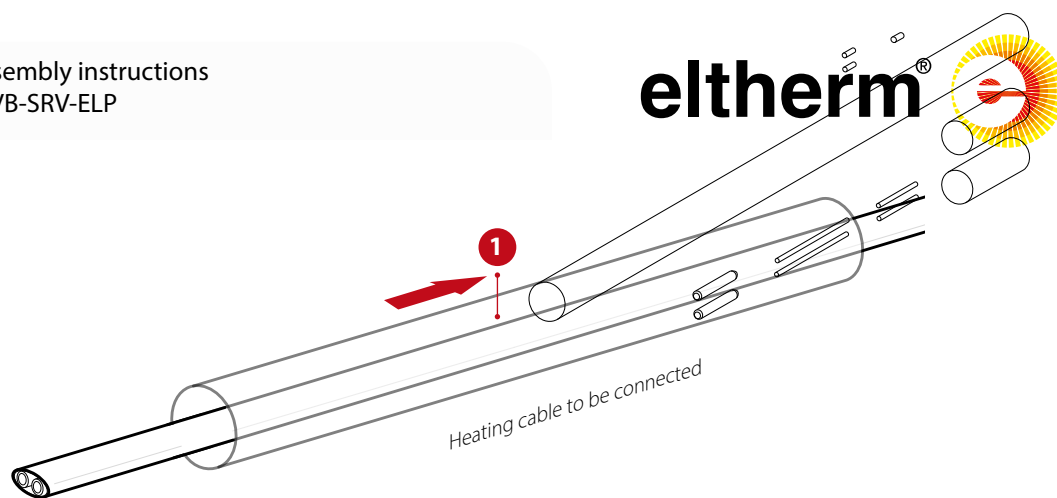
OPTION 2: Connection of heating cable with cold cable

PREPARATION HEATING CABLE

ELP/PFA ELP/SI



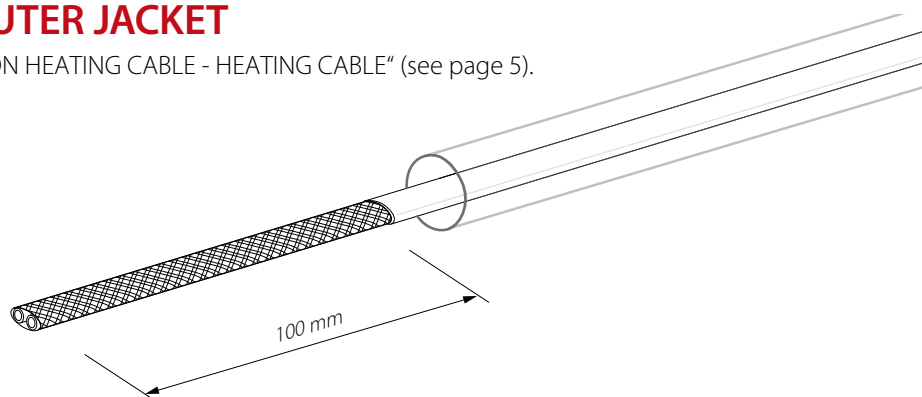
Cut the heating cable ELP



Slide on the heat shrink (1).

REMOVE THE OUTER JACKET

As in option 1 „CONNECTION HEATING CABLE - HEATING CABLE“ (see page 5).

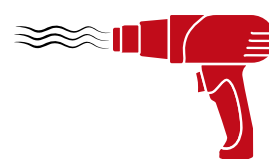
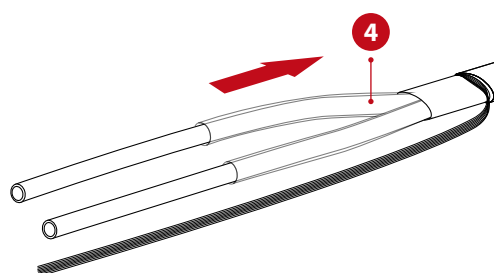


LOOSEN PROTECTIVE BRAID

As in option 1 „CONNECTION HEATING CABLE - HEATING CABLE“ (see page 5).

PREPARE SUPPLY CONDUCTOR

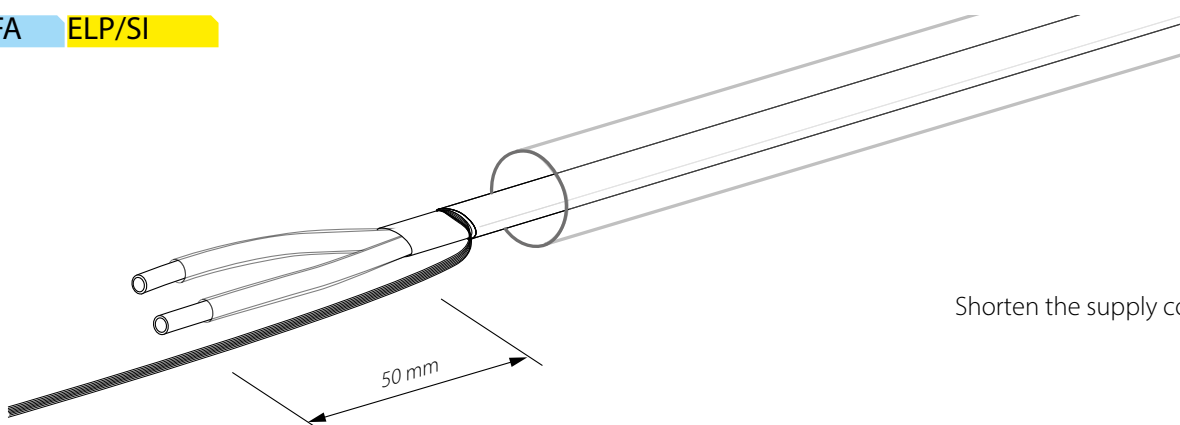
ELP/SI



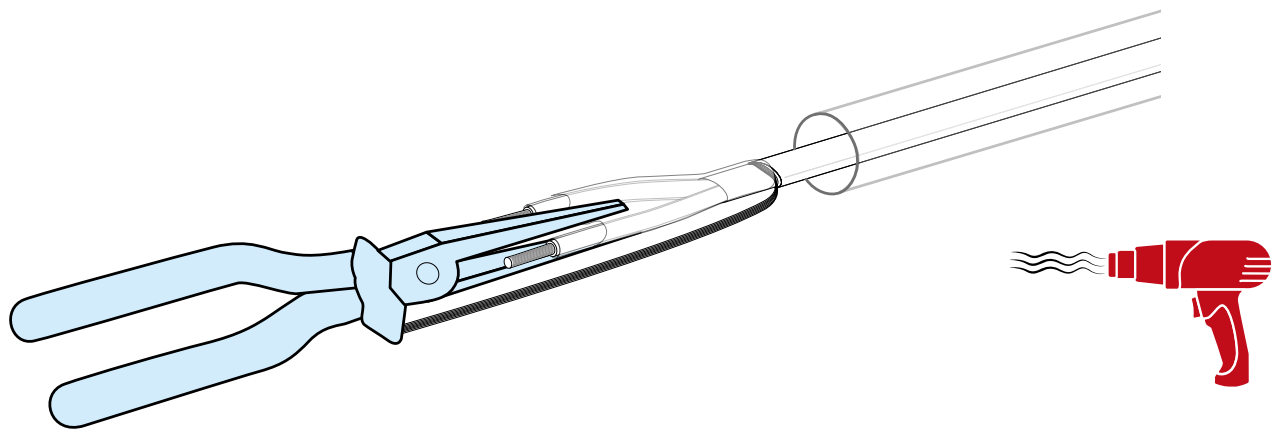
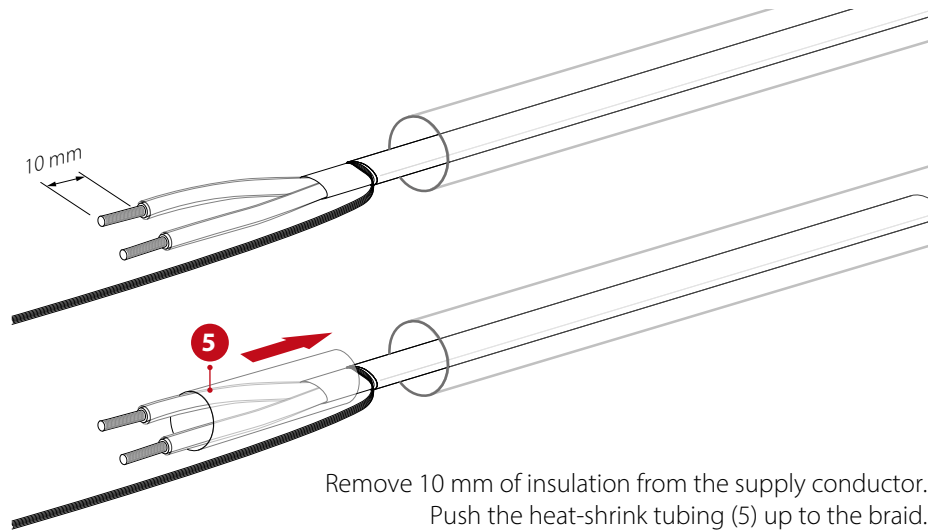
Slide on the heat-shrink tubing (4) completely and shrink.

ELP/PFA

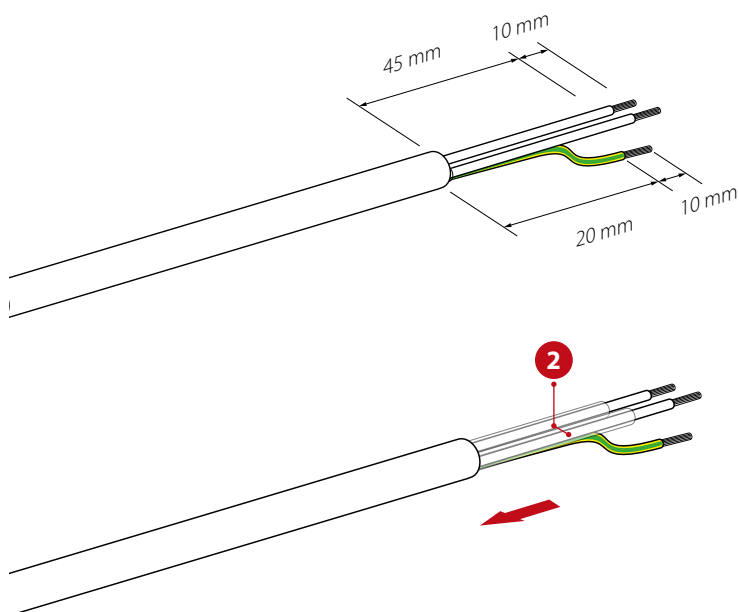
ELP/SI



Shorten the supply conductor

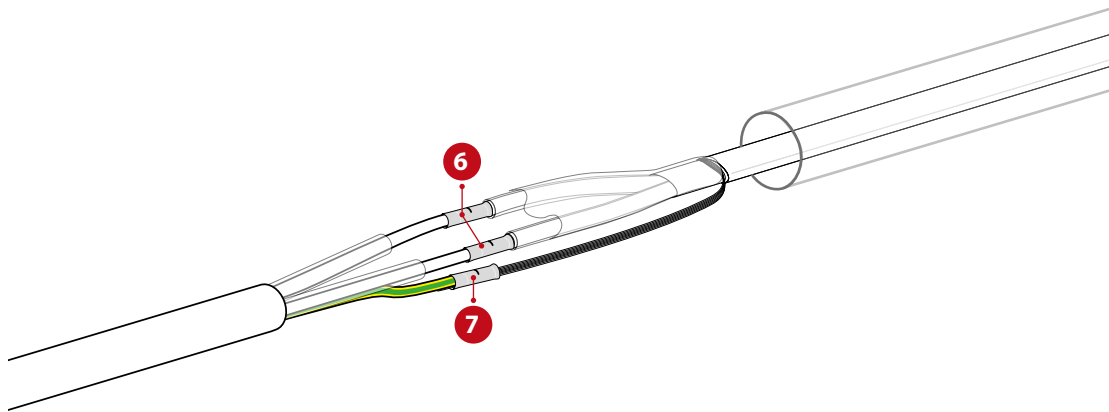


PREPARATION COLD CABLE

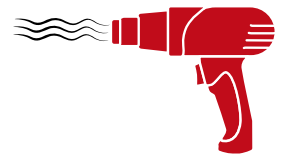
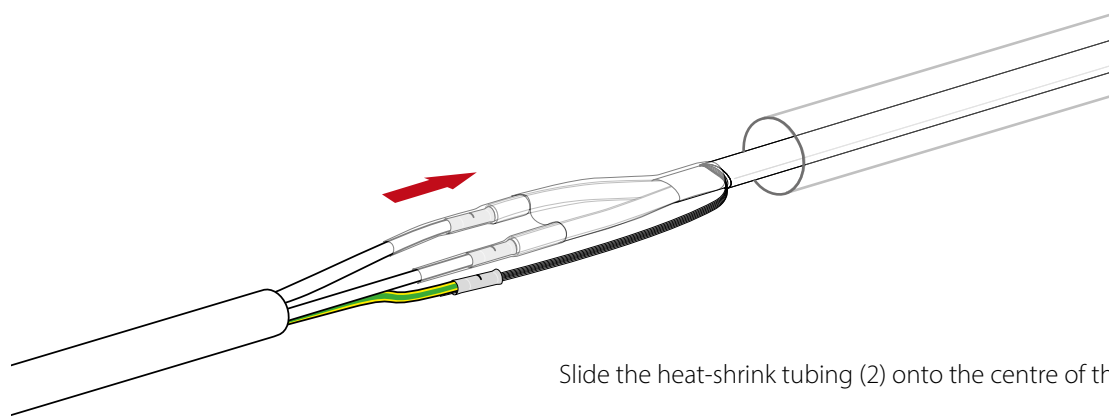


- Remove outer insulation to 55 mm
- Shorten PE core to 30 mm
- Expose wire ends 10 mm

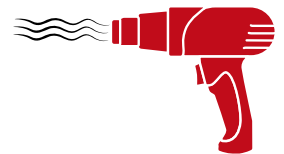
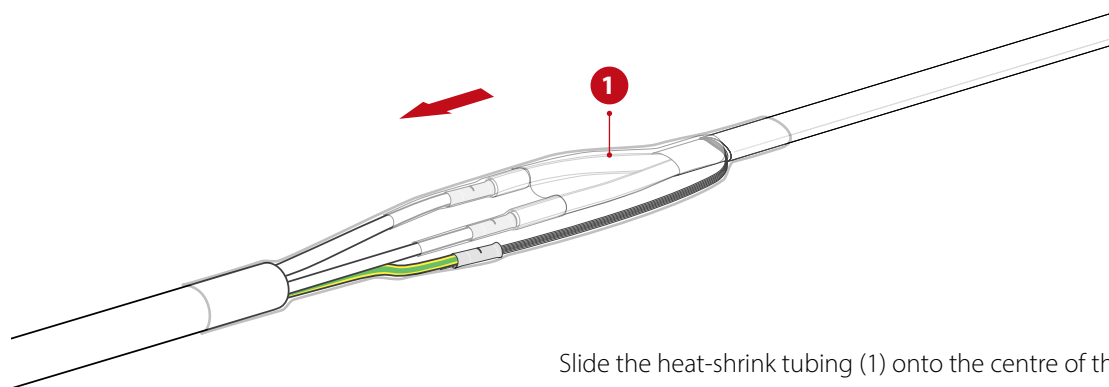
CONNECT HEATING CABLE & COLD CABLE



- Push the nickel sleeve (6) onto the supply conductors and the nickel sleeve (7) onto the braid.
- Insert the supply conductor of the cold lead into the sleeve (6) and the PE conductor into the sleeve (7) and crimp.



Slide the heat-shrink tubing (2) onto the centre of the connection and shrink.



Slide the heat-shrink tubing (1) onto the centre of the connection and shrink.



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



eltherm GmbH
Ernst-Heinkel-Straße 6-10
57299 Burbach, Germany

T.: +49 2736 4413-0
F.: +49 2736 4413-50
info@eltherm.com