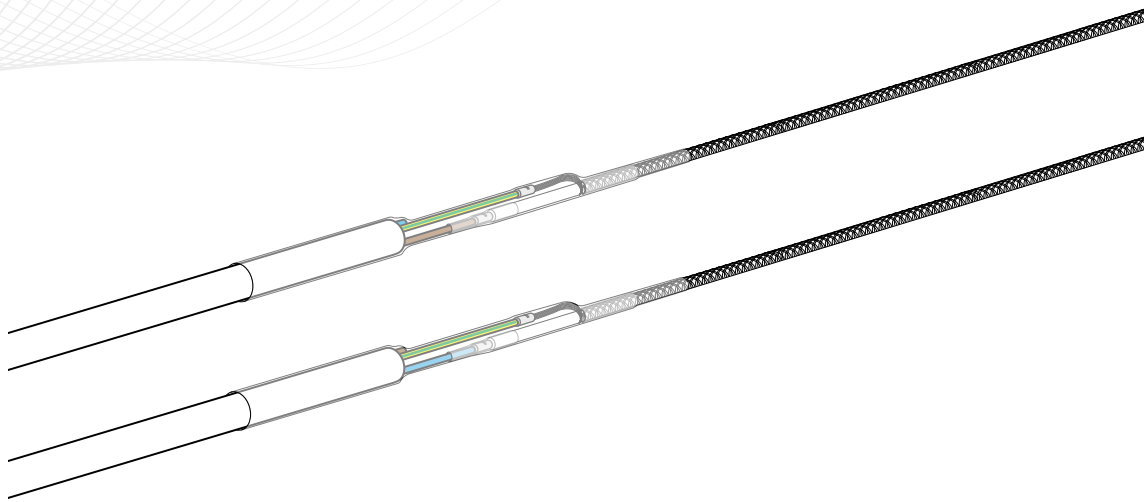


ASSEMBLY INSTRUCTIONS



ELVB-26

Connection-Set for single core heating cable
ELKM -AS; -AE
with 1.5mm² single core cold supply lead /
supply cable 3x1.5mm²

CONTENTS

Topics	Page
RECOMMENDED TOOLS	3
CONTENTS OF CONNECTION SET	3
OPTION 1: HEATING CABLE - COLD CABLE	4
PREPARATION	4
Preparation heating cable (on both sides of the heating cable)	4
Preparation cold cable junction box side (prepare 2 times)	5
Preparation cold cable heating cable side (prepare 2 times)	5
CONNECTION HEATING CABLE - COLD CABLE	6
OPTION 2: HEATING CABLE - POWER CABLE 3x1.5mm²	6
PREPARATION	6
Preparation heating cable (on both sides of the heating cable)	6
Preparation power cable (prepare 2 pices)	7
CONNECTION HEATING CABLE - POWER CABLE 3x1.5mm ²	7

IMPORTANT INFORMATION

- RETAIN FOR LATER USE



For proper and safe use of the ELVB-30-1A connection sets, 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

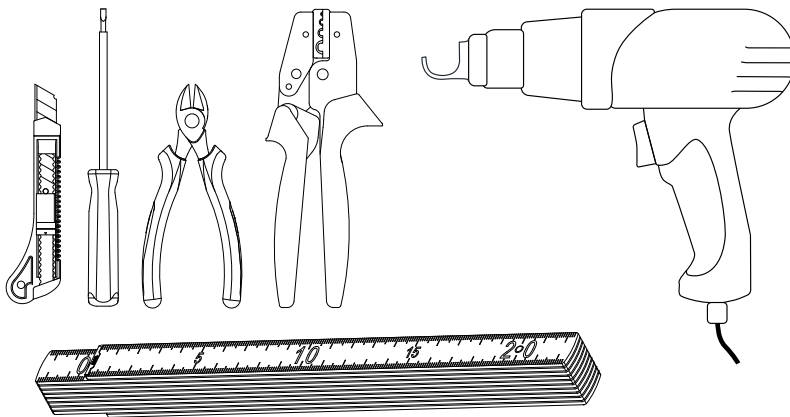
Refers to a dangerous situation. If it is not prevented there is risk of injury or at least a high risk of material damage.

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.

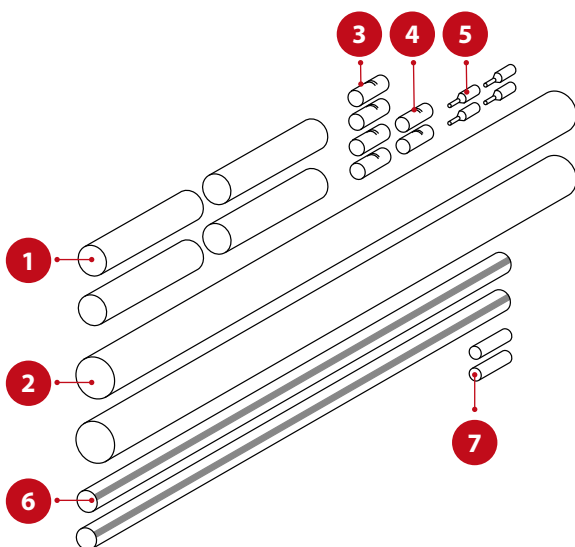
eltherm GmbH Ernst-Heinkel-Str. 6-10 57299 Burbach T.: +49 2736 4413-0 F.: +49 2736 4413-50 info@eltherm.com	Document:		QAA-026	
	86430409110XX		Assembly instructions ELVB-26	
	Author:	Felix Kind	Date:	20.05.2016
	Revision: 05	Detlef Matthes	Date:	13.02.2024

RECOMMENDED TOOLS



CONTENTS OF CONNECTION SET

ELVB-26 (Art.No. 0911052, for ELKM-AE & AS)



Nº.	Type	Units
1	PTFE-FEP shrink sleeve Ø 6.4 mm; l = 35 mm; transp.	4 Units
2	PTFE-FEP shrink sleeve Ø 8.9 mm; l = 130 mm; transp.	2 Units
3	Nickel sleeve 4.0 x 0.4 x 9.0 mm; blank	4 Units
4	Nickel sleeve 3.2 x 0.4 x 9.0 mm; blank	2 Units
5	Wire end ferrules 1.5 mm ² ; l = 8 mm; schwarz	4 Units
6	Shrink tubing Ø = 4.8 mm; l = 120 mm; gn/ge	2 Units
7	Shrink tubing PTFE-FEP; Di = 4 mm	2 Units



ATTENTION

- Work may only be performed by authorised and qualified specialists!
- After work is complete, check the resistance and insulation resistance!
- Use a suitable tool for crimp connector to crimp the nickel sleeves (for example Stocko WZ100 with insert E66 and Klauke EK 35/4 or Klauke HK 4 with die HR 4/6 or equivalent (6mm²)).



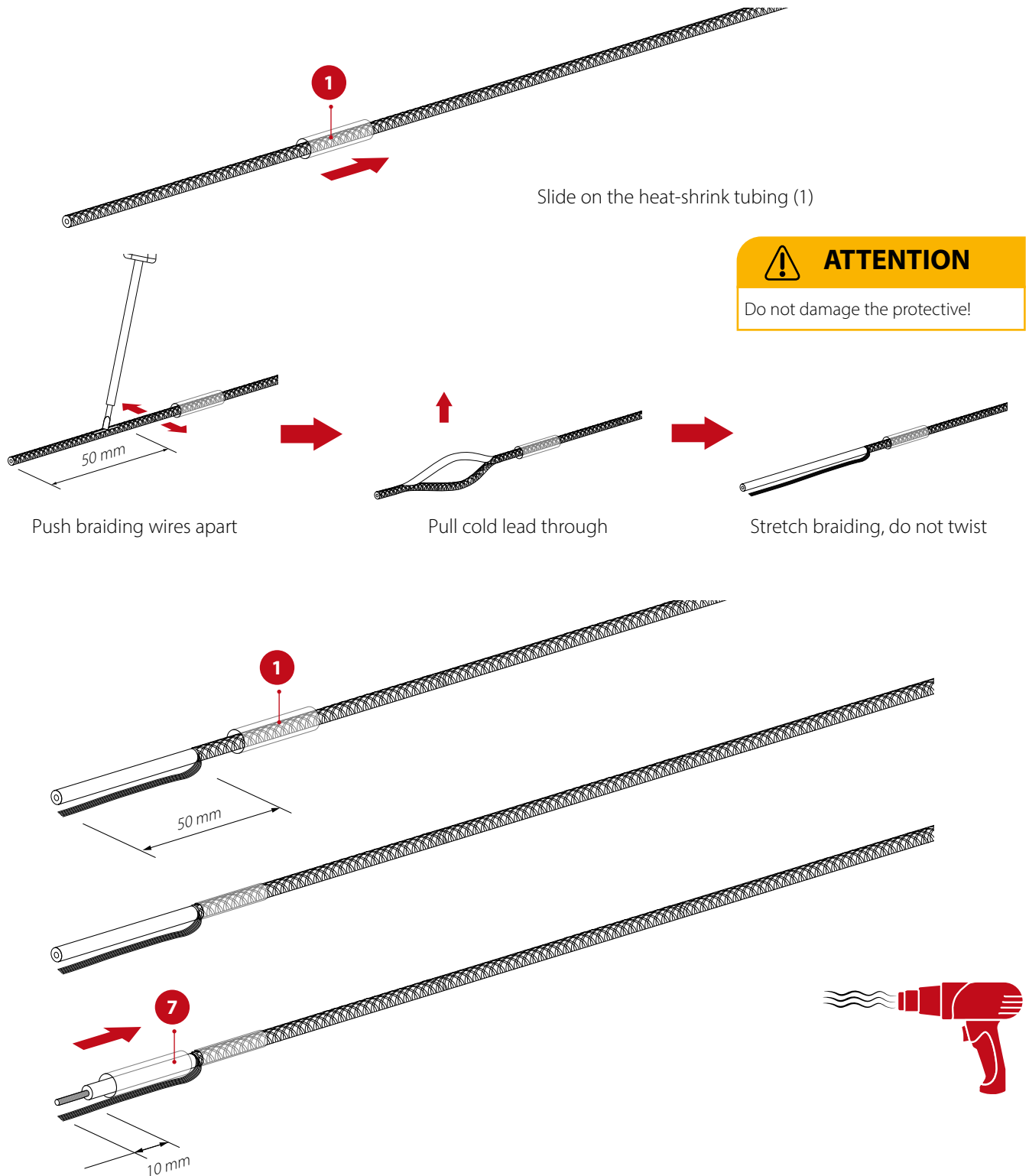
WARNING

Heat the shrink tubing to 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!

OPTION 1: HEATING CABLE - COLD CABLE

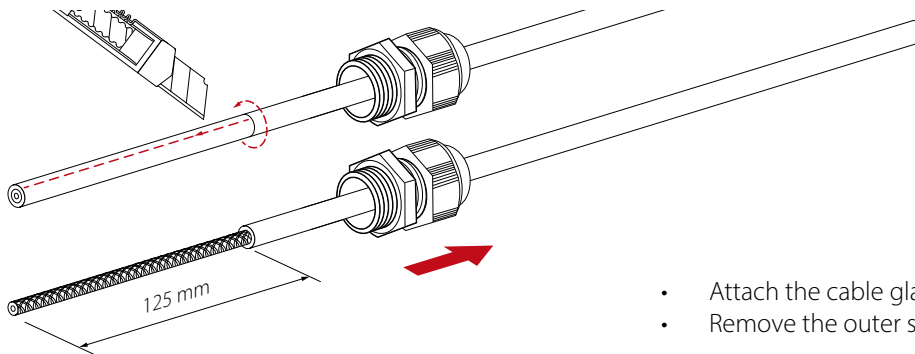
PREPARATION

Preparation heating cable (on both sides of the heating cable)

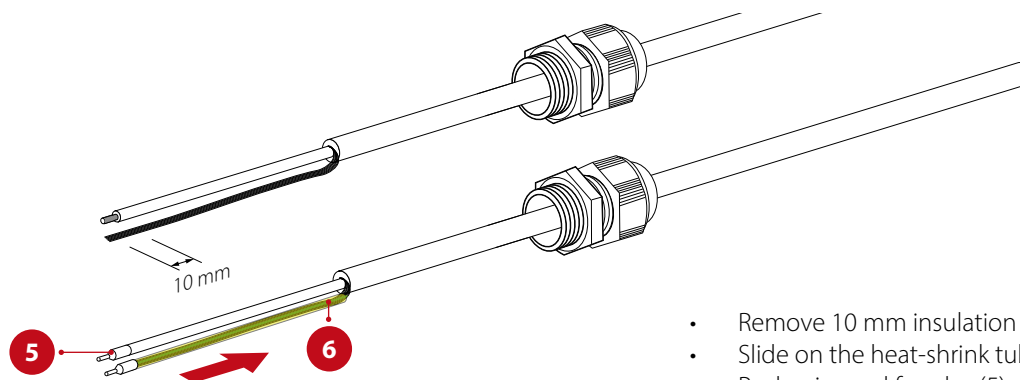
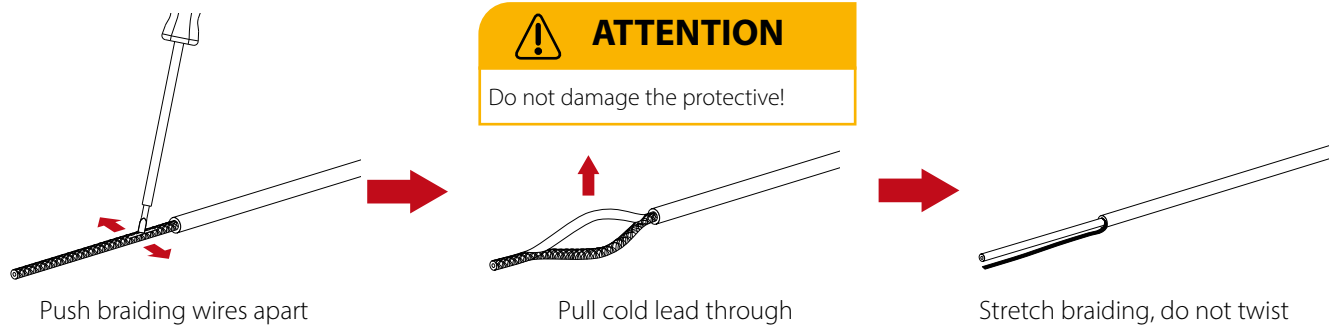


- Slide the shrink tubing (1) onto the loosened braid and shrink it,
- Slide the shrink tubing (6),
- Expose 10 mm of supply cable.

Preparation cold cable junction box side (prepare 2 times)



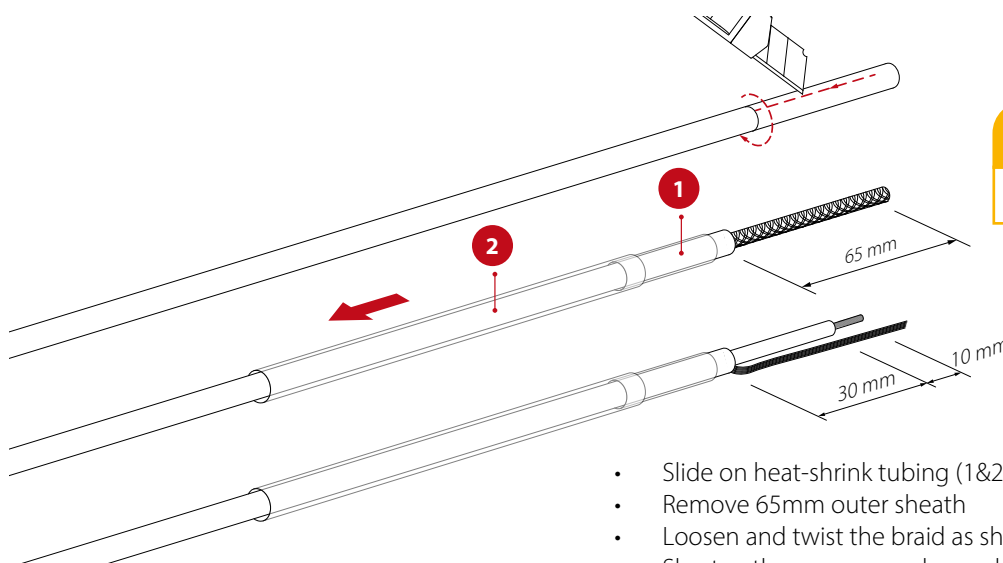
- Attach the cable gland (part of the junction box).
- Remove the outer sheath.



- Remove 10 mm insulation from supply conductor
- Slide on the heat-shrink tubing (6) over the braid
- Push wire end ferrules (5) and crimp.

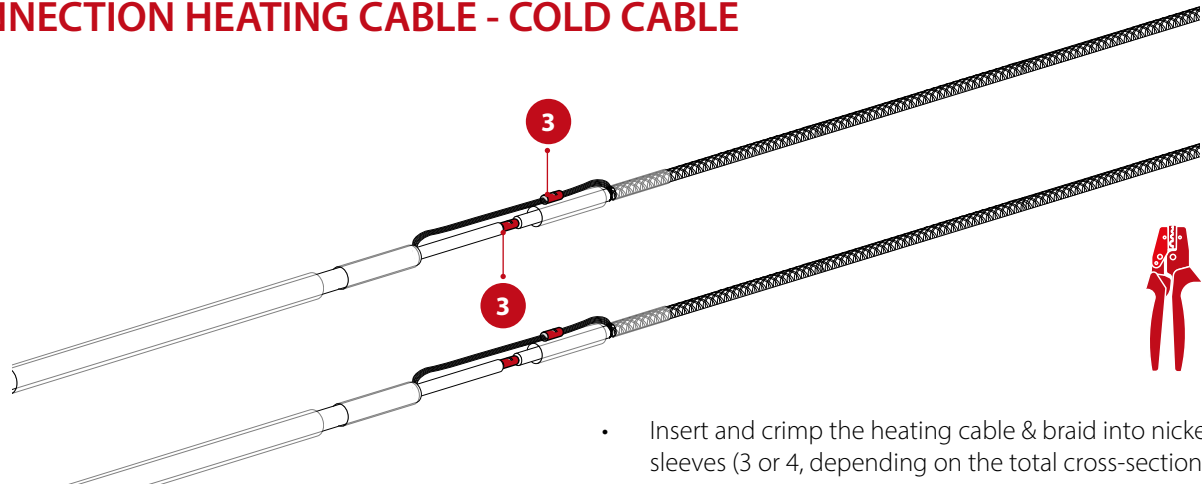


Preparation cold cable heating cable side (prepare 2 times)

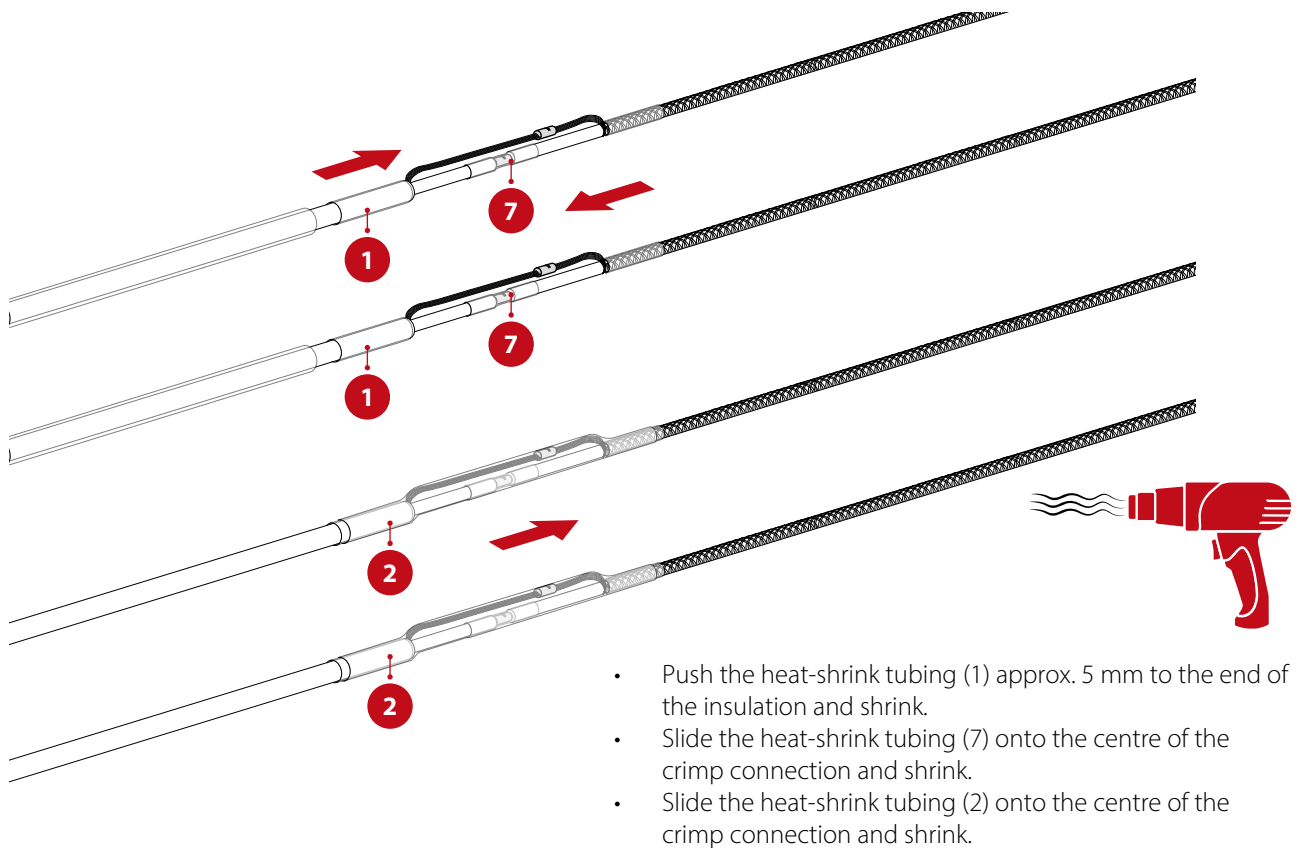


- Slide on heat-shrink tubing (1&2),
- Remove 65mm outer sheath
- Loosen and twist the braid as shown on the side of the housing..
- Shorten the power supply conductor to 40 mm.
- Remove 10 mm insulation

CONNECTION HEATING CABLE - COLD CABLE



- Insert and crimp the heating cable & braid into nickel sleeves (3 or 4, depending on the total cross-section).



- Push the heat-shrink tubing (1) approx. 5 mm to the end of the insulation and shrink.
- Slide the heat-shrink tubing (7) onto the centre of the crimp connection and shrink.
- Slide the heat-shrink tubing (2) onto the centre of the crimp connection and shrink.

OPTION 2: HEATING CABLE - POWER CABLE 3x1.5mm²

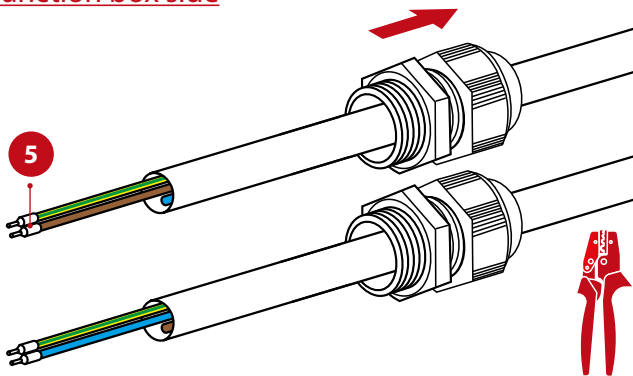
PREPARATION

Preparation heating cable (on both sides of the heating cable)

Prepare the heating cable as described in „OPTION 1: HEATING CABLE - COLD CABLE“.

Preparation power cable 3x1.5mm² (prepare 2 pices)

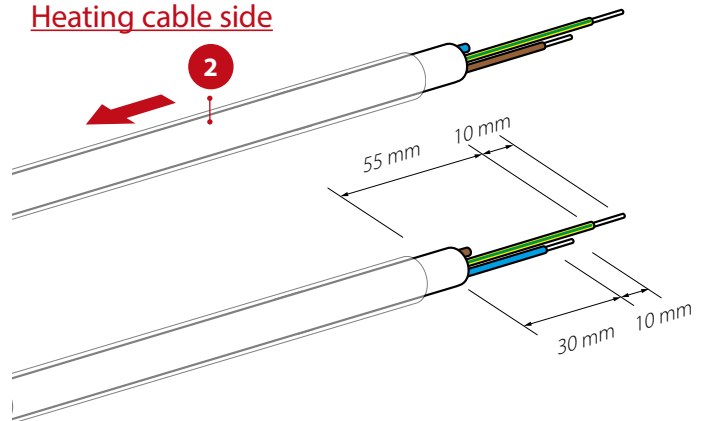
Junction box side



Push on the cable gland (part of the housing).

- For **230V** applications:
Remove 1x blue & 1x brown wire from both supply cable.
 - For **400V** applications:
Remove the blue wire from both supply cable.
- Fit the wire end ferrules and crimp.

Heating cable side



Slide on the shrink tubing (2)

- For **230V** applications:
Remove 1x blue & 1x brown wire from both supply cable.
 - For **400V** applications:
Remove the blue wire from both supply cable.
- Shorten the wire.



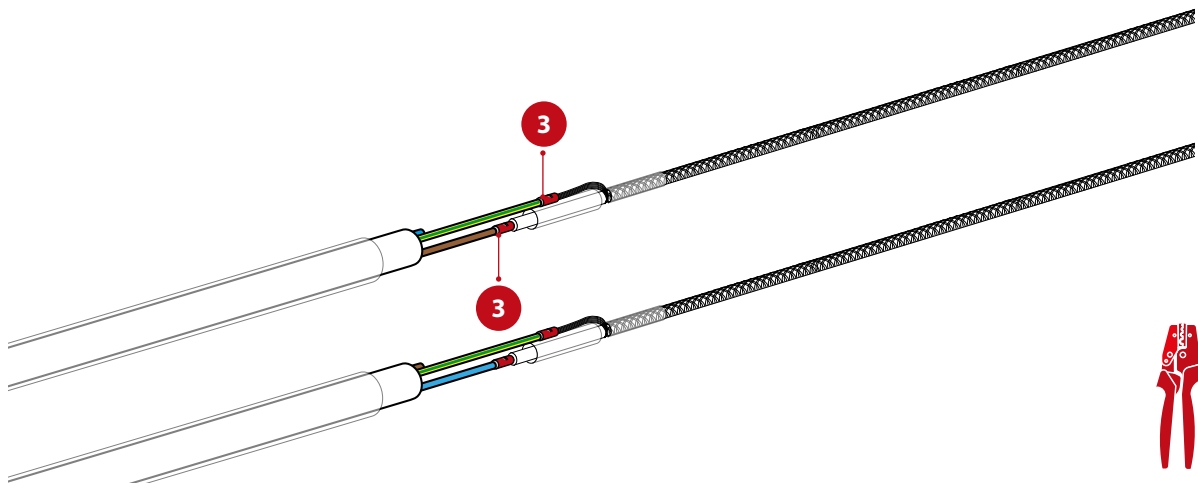
DANGER

Danger of short circuit. Please be sure to check the colours of the conductors before installation.

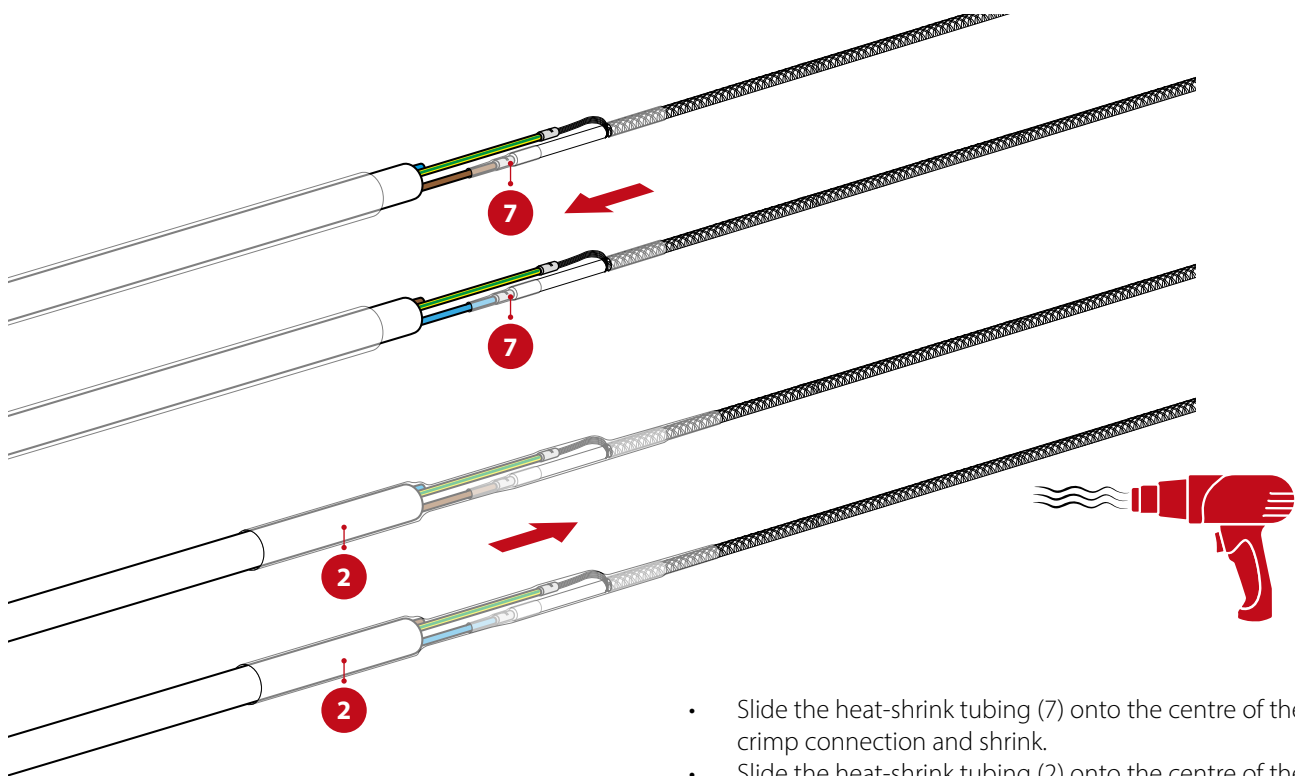
When using **230 V**, one supply cable must have the **green/yellow** & **blue** conductors on both sides for connection, the other supply cable must have the **green/yellow** & **brown** conductors on both sides for connection.

For **400 V** applications, both supply cable must have the **green/yellow** & **brown** supply conductors on both sides for connection.

CONNECTION HEATING CABLE - POWER CABLE 3x1.5mm²



- Insert and crimp the heating cable into nickel sleeves (3 or 4, depending on the total cross-section).



- Slide the heat-shrink tubing (7) onto the centre of the crimp connection and shrink.
- Slide the heat-shrink tubing (2) onto the centre of the crimp connection and shrink.

eltherm[®]



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

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



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