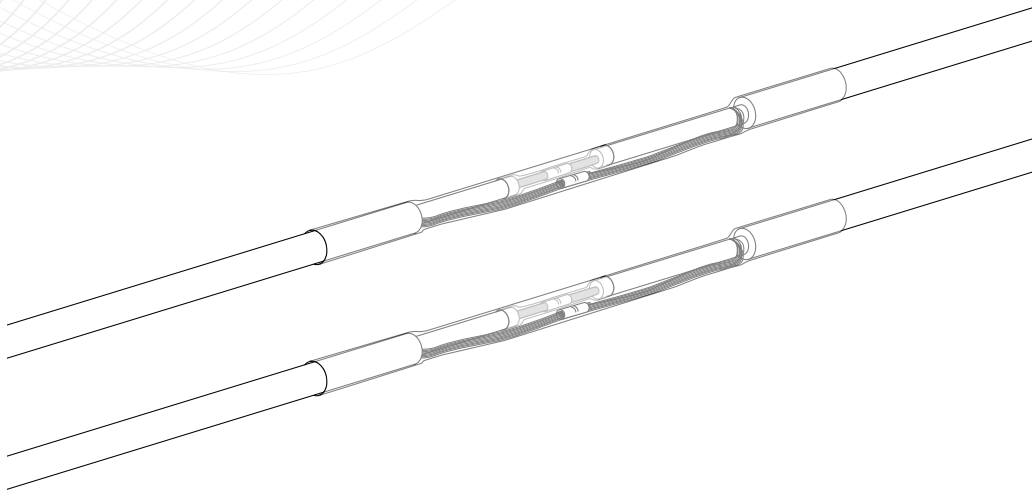


ASSEMBLY INSTRUCTIONS



ELVB-30-1A

Connection-Set for single core heating cable
ELKM-AS; -AE; -AG
with single core supply lead $2,5\text{mm}^2$ to 6mm^2

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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

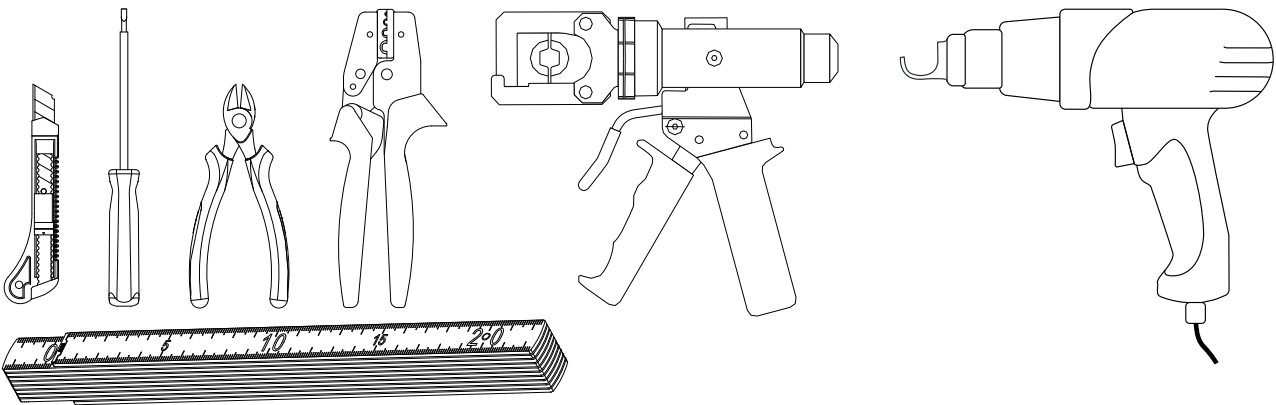
Refers to a dangerous situation.
If it is not prevented there is risk of injury or at least a high risk of material damage.

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.

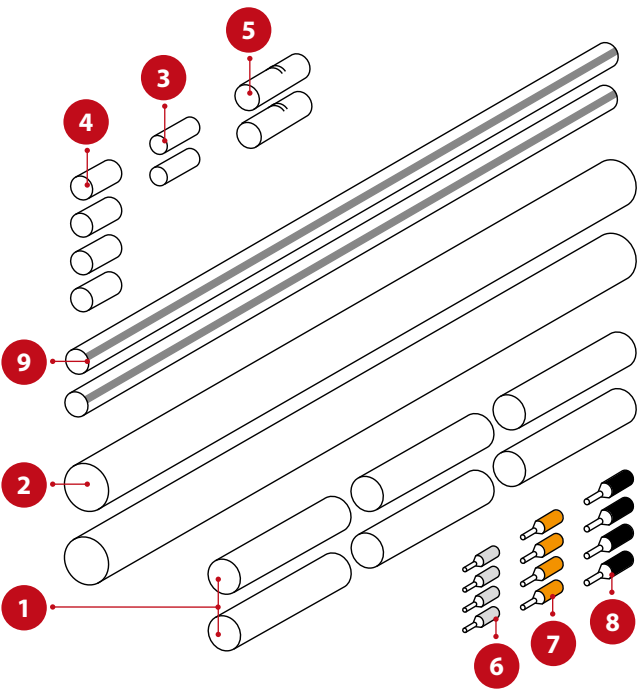
eltherm GmbH Ernst-Heinkel-Str. 6-10 57299 Burbach T.: +49 2736 4413-0 F.: +49 2736 4413-50 info@eltherm.com	Document: 8643040911059		Assembly instructions ELVB-30-1A	
	Author:	Felix Kind	Date:	20.05.2016
	Revision: 04	Detlef Matthes	Date:	29.01.2024

RECOMMENDED TOOLS



CONTENTS OF CONNECTING SET

ELVB-30-1A (art. no. 0911059) for ELKM-AE; AS & ELKM-AG)



Nº.	Type	Units
1	PTFE-FEP sleeve Ø 6,4 mm; l = 35 mm; transp.	6 Units
2	PTFE-FEP sleeve Ø 8,9 mm; l = 125 mm; transp.	2 Units
3	Nickel sleeve 4,0 x 0,4 x 9,0 mm; blank	2 Units
4	Nickel sleeve 4,8 x 0,4 x 9,0 mm; blank	4 Units
5	Parallel connector 6,0 mm ² ; E-CU nickel plated	2 Units
6	Wire end ferrules 2,5 mm ² ; grey	4 Units
7	Wire end ferrules 4,0 mm ² ; orange	4 Units
8	Wire end ferrules 6,0 mm ² ; black	4 Units
9	Shrink tubing Ø = 4,8 mm; l = 120 mm; gn/ye	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)).

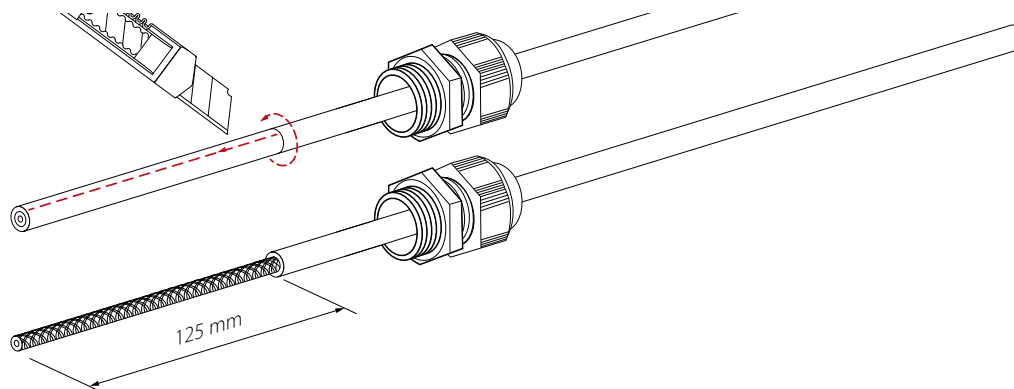


WARNUNG

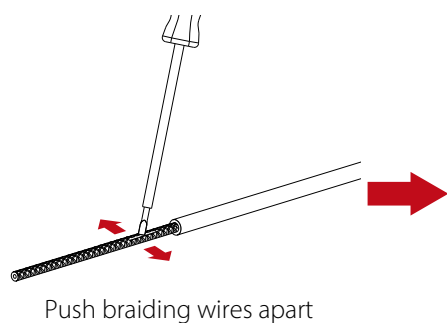
Heat the shrink tubing to 400°C up to 450°C for optimum shrinking results. Avoid temperatures over 500°C: Danger of damage to the outer jacket of the heating cable! We recommend using an adjustable heat gun with baffle plate! Determine a suitable temperature setting of the heat gun by trial and error!

PREPARATION

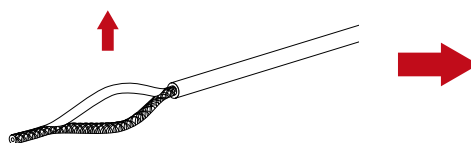
Preparation cold lead (Junction box side, two times)



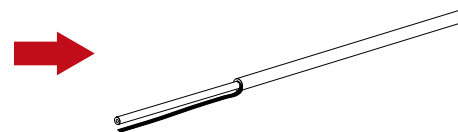
Attach the cable gland (part of the junction box). Remove the outer sheath.



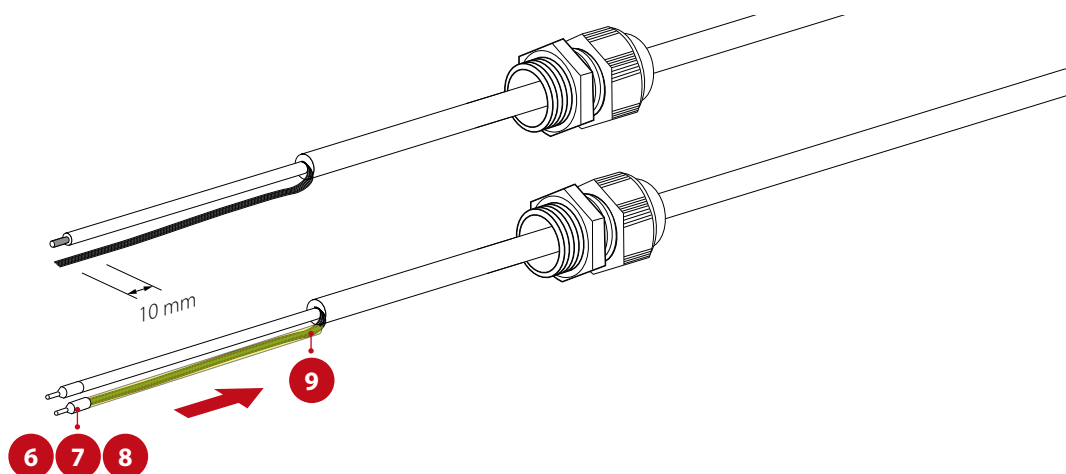
Push braiding wires apart



Pull cold lead through



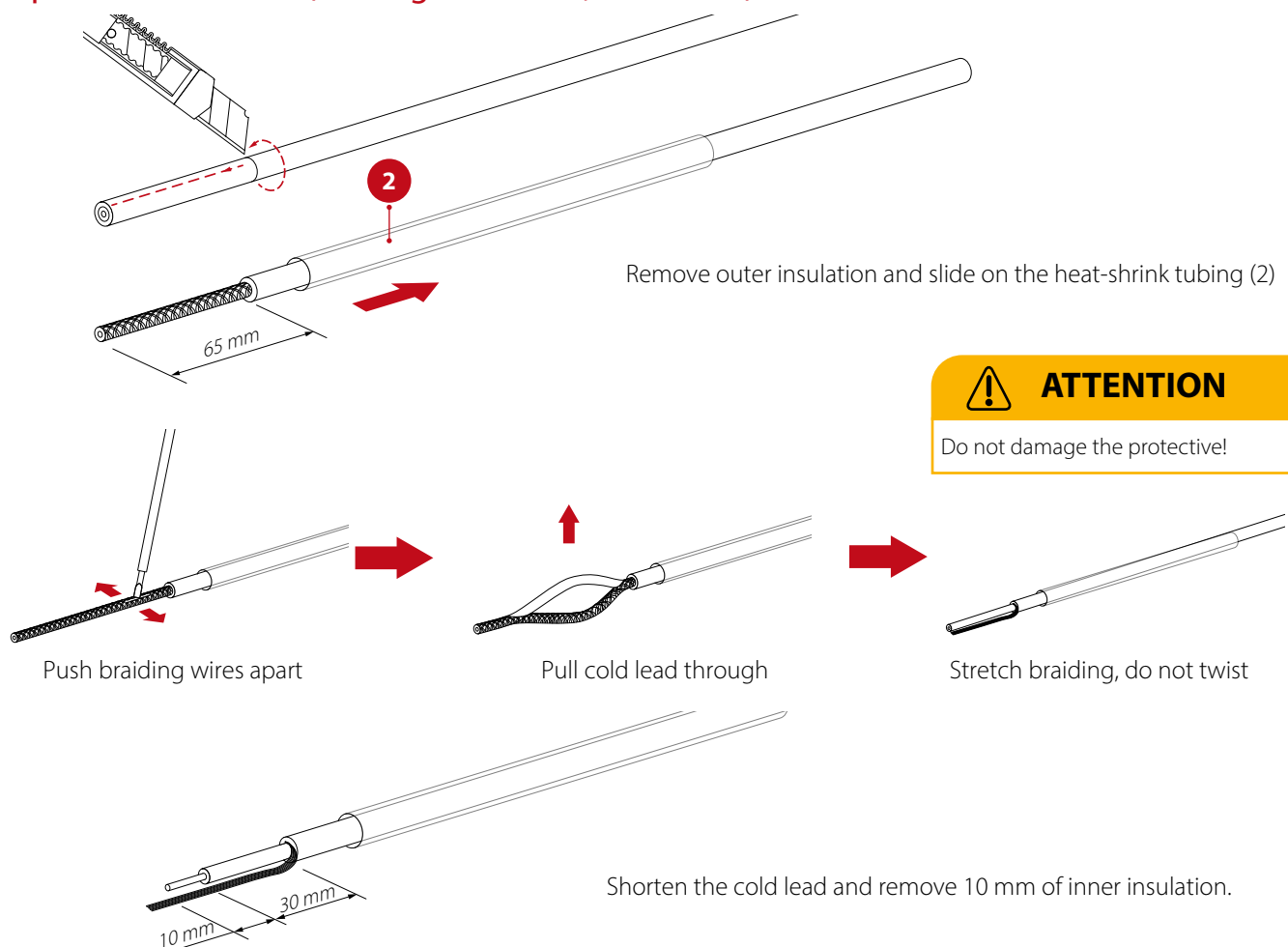
Stretch braiding, do not twist



- Slide on the heat-shrink tubing (1)
- Push wire end ferrules (6; 7 or 8 according used cross section) and crimp.



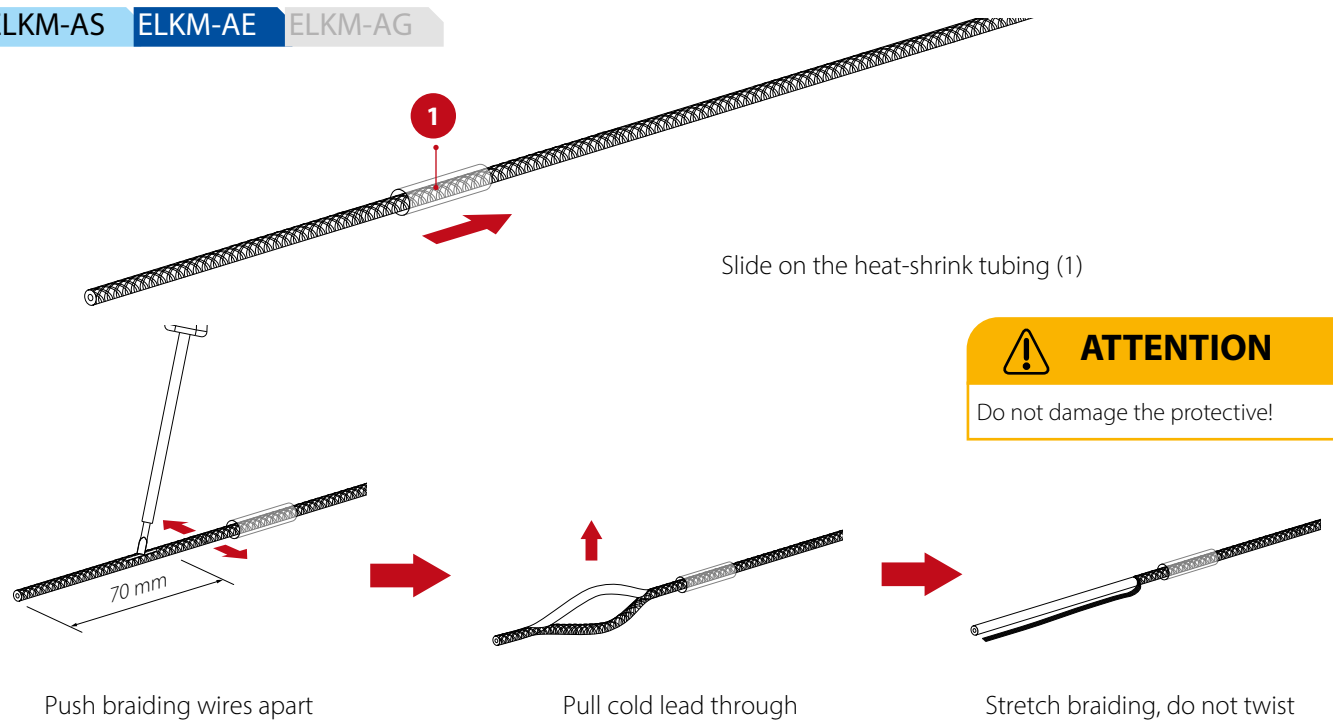
Preparation cold lead (heating cable side, two times)



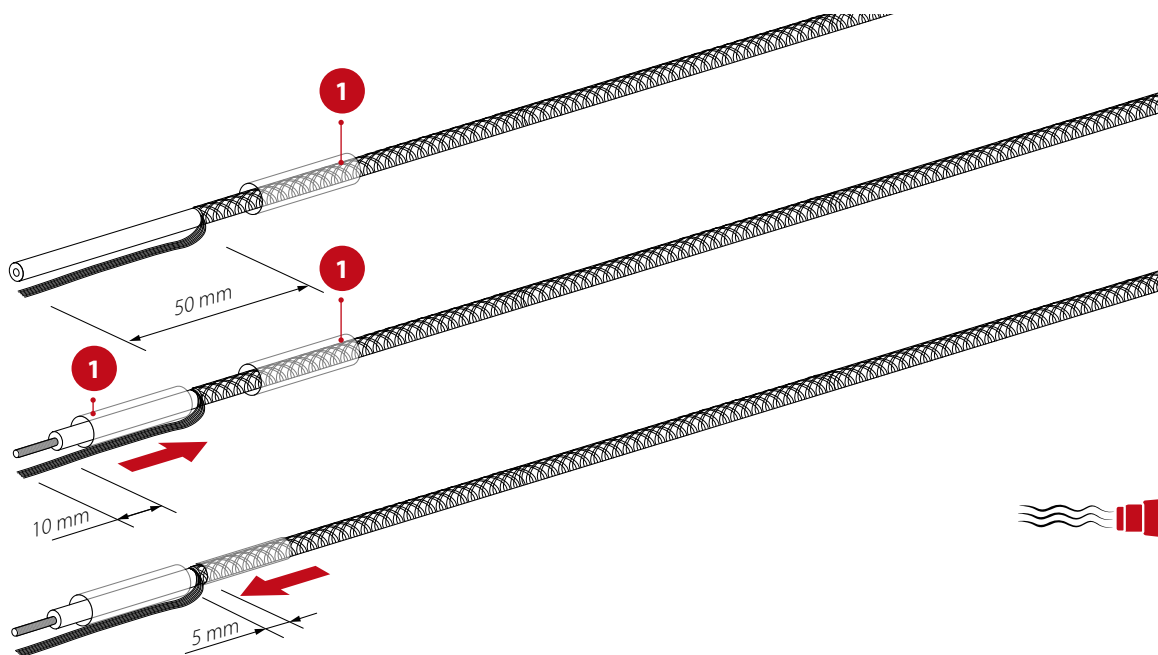
ATTENTION
Do not damage the protective!

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

ELKM-AS ELKM-AE ELKM-AG

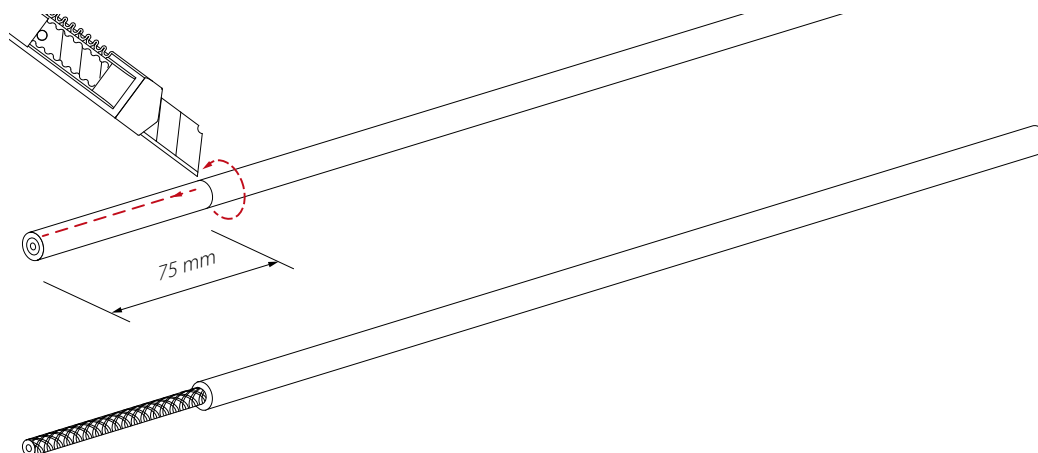


ATTENTION
Do not damage the protective!

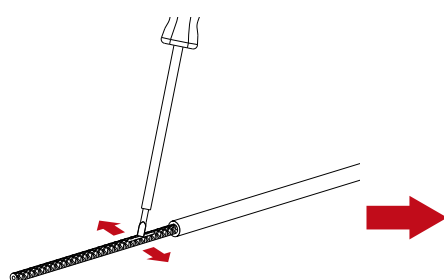


- Shorten heating cable to 50 mm and expose 10 mm of supply cable, slide on heat-shrink tubing (1)
- Push the heat-shrink tubing (1) to 5 mm onto the loosened braid and shrink.

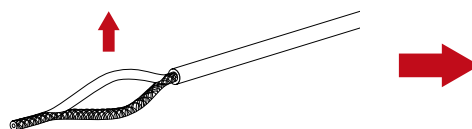
ELKM-AS ELKM-AE **ELKM-AG**



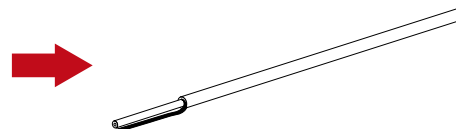
Remove the outer sheath.



Push braiding wires apart



Pull cold lead through

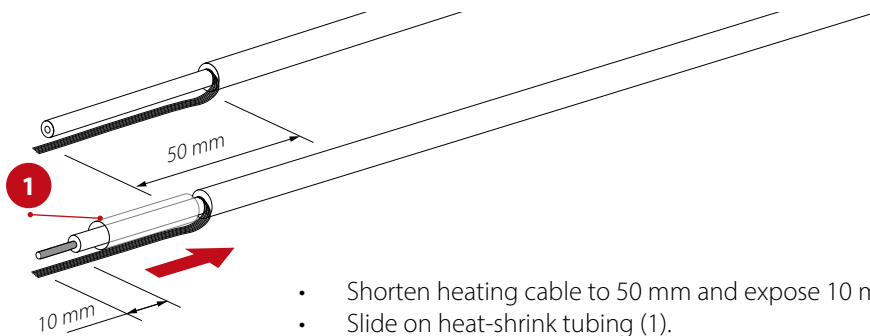


Stretch braiding, do not twist



ATTENTION

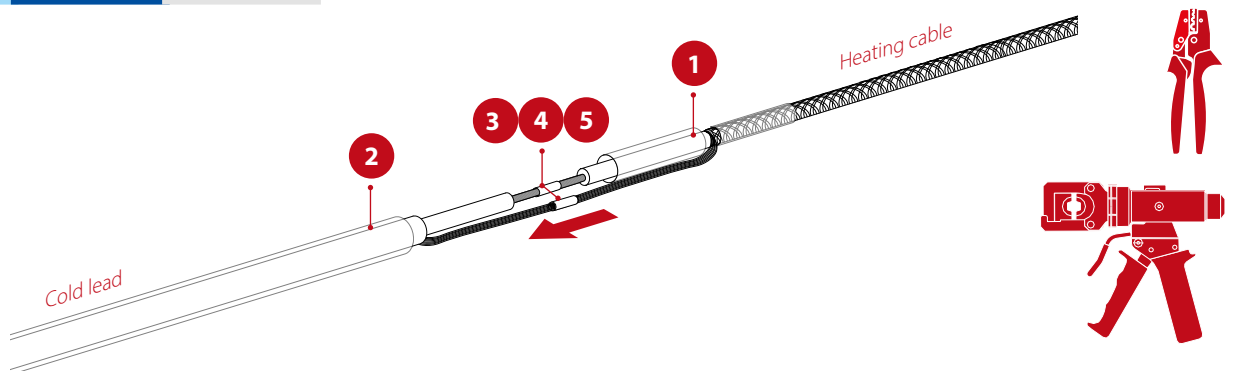
Do not damage the protective!



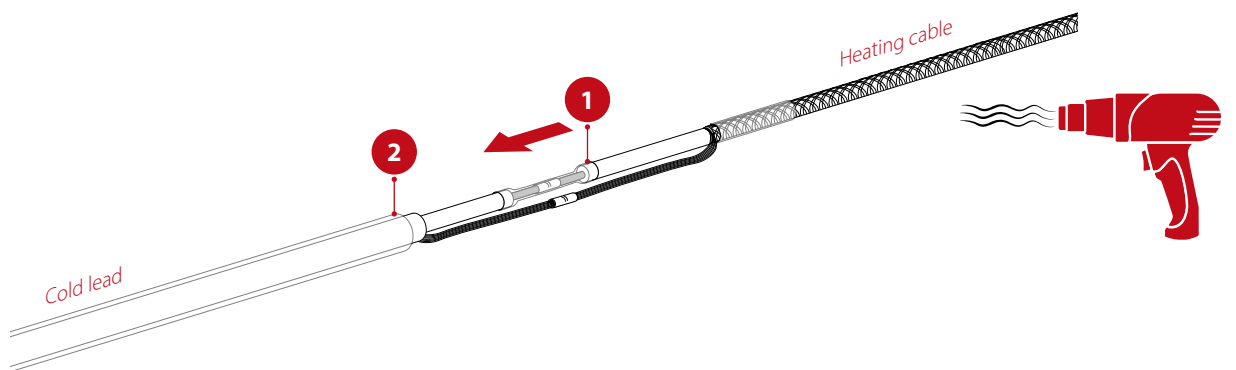
- Shorten heating cable to 50 mm and expose 10 mm of supply cable
- Slide on heat-shrink tubing (1).

CONNECTION COLD LEAD - HEATING CABLE

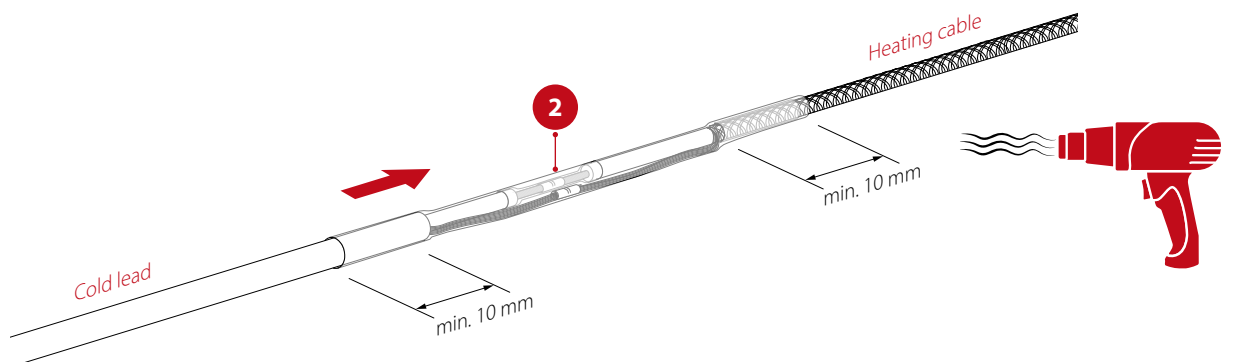
ELKM-AS ELKM-AE ELKM-AG



Attach Nickel-Sleeve/Parallel connector (3; 4 or 5 according used cross section) and crimp.
For parallel connectors, please use Klauke EK 35/4 or Klauke HK 4 with HR 4/6 insert.

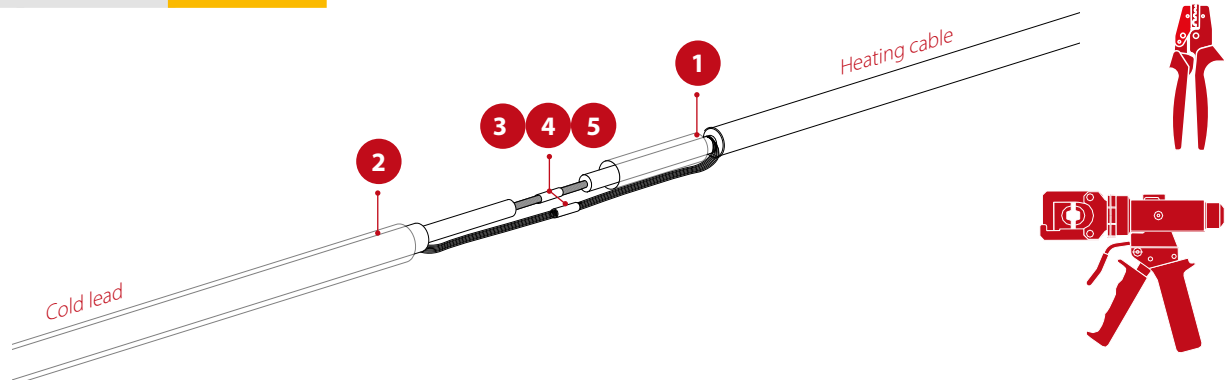


Push the PTFE-FEP sleeve $\varnothing$ 6.4 mm; l = 35 mm (1) onto the centre of the cable connection and shrink.

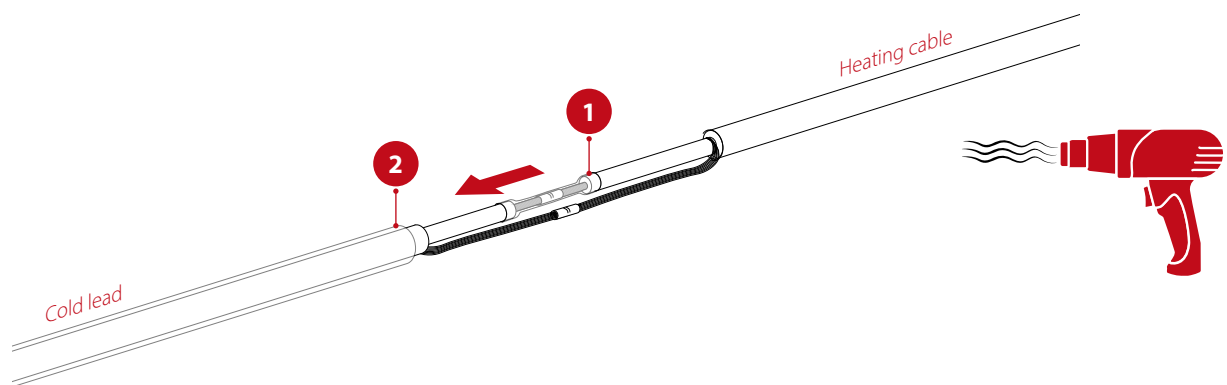


Push the PTFE-FEP sleeve $\varnothing$ 8.9 mm; l = 125 mm (2) onto the centre of the cable connection and shrink.

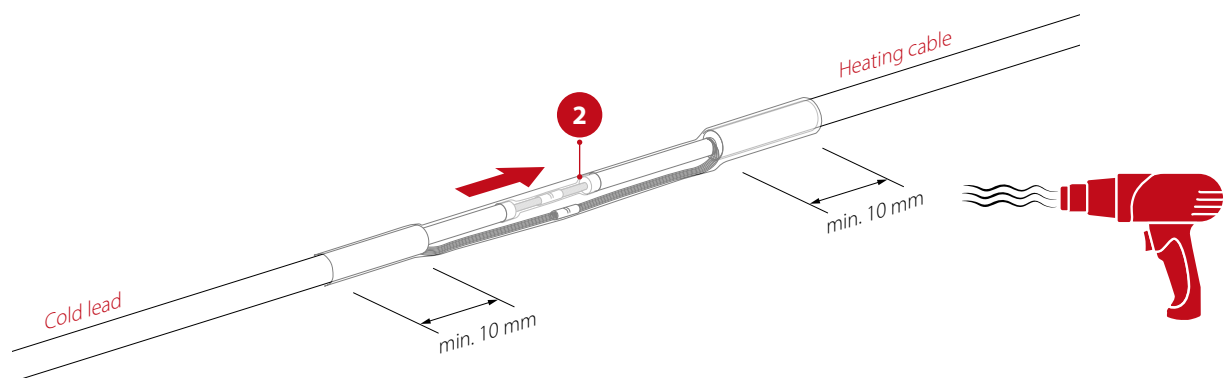
ELKM-AS ELKM-AE **ELKM-AG**



Attach Nickel-Sleeve/Parallel connector (3; 4 or 5 according used cross section) and crimp.
For parallel connectors, please use Klauke EK 35/4 or Klauke HK 4 with HR 4/6 insert.



Push the PTFE-FEP sleeve (1) onto the centre of the cable connection and shrink.



Push the PTFE-FEP sleeve (2) onto the centre of the cable connection and shrink.



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



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