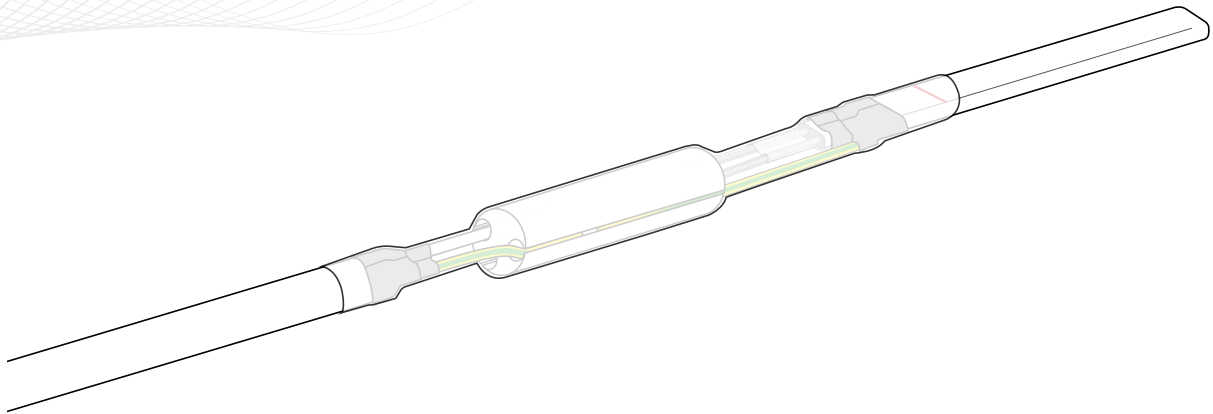


ASSEMBLY INSTRUCTIONS



ELVB-SRV-RAMP

Heat shrink connection set
for ELSR-RAMP

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IMPORTANT INFORMATION

- RETAIN FOR LATER USE



For proper and safe use of the ELVB-SRV-RAMP heat shrink connection sets for ELSR-RAMP 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

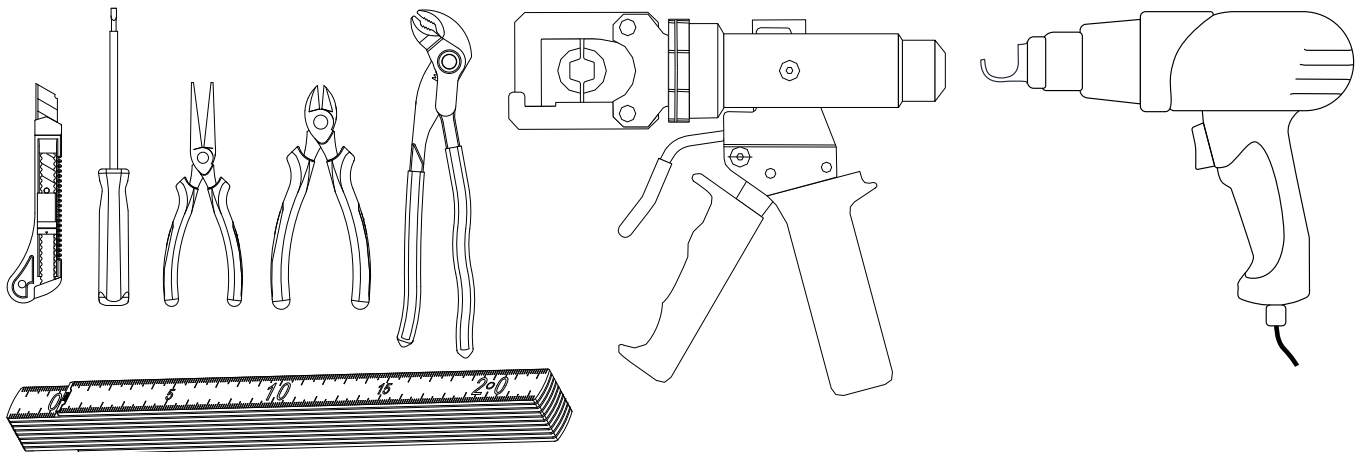
Refers to a dangerous situation.
If it is not prevented there is risk of injury or at least a high risk of material damage.

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.

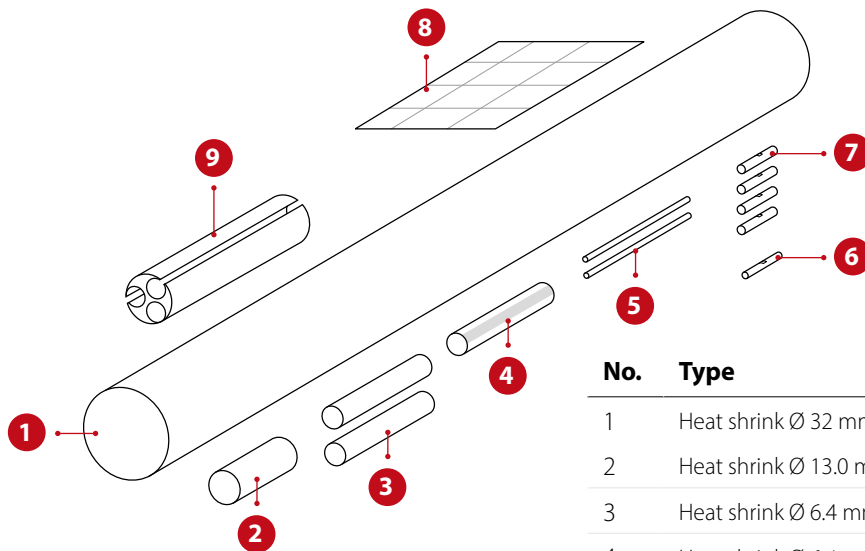
eltherm GmbH Ernst-Heinkel-Str. 6-10 57299 Burbach T.: +49 2736 4413-0 F.: +49 2736 4413-50 info@eltherm.com	Document: 8643040911124		Assembly instructions ELVB-SRV-RAMP	
	Author:	Peter Schmidt	Date:	05.02.2014
	Revision: 03	Julian Engel	Date:	03.06.2025

RECOMMENDED TOOLS



CONTENTS OF CONNECTION SET

ELVB-SRV-RAMP (article no. 0911124)



No.	Type	Quantity
1	Heat shrink Ø 32 mm; l = 300 mm; black	1 Unit.
2	Heat shrink Ø 13.0 mm; l = 30 mm; black	1 Unit.
3	Heat shrink Ø 6.4 mm; l = 50 mm; black	2 Units.
4	Heat shrink Ø 6.4 mm; l = 60 mm; green / yellow	1 Unit.
5	Heat shrink Ø 3.2 mm; l = 50 mm; black	2 Units.
6	4/6mm² joint; l = 25 mm; E-Cu nickel plated	1 Unit.
7	2,5/6mm² joint; l = 21 mm; E-Cu tinned	2 Units.
8	Sealing tape ; 80 x 35 mm	4 Units.
9	Silicone spacer; l = 80 mm	1 Unit.



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 MOhm)!
- Make sure that glue is emerging the shrink sleeves while shrinking!
- Hydraulic pliers Klauke EK35/4 with insert HN446 for (f) and (g) or equivalent are to be used.



NOTE

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

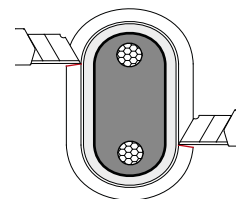
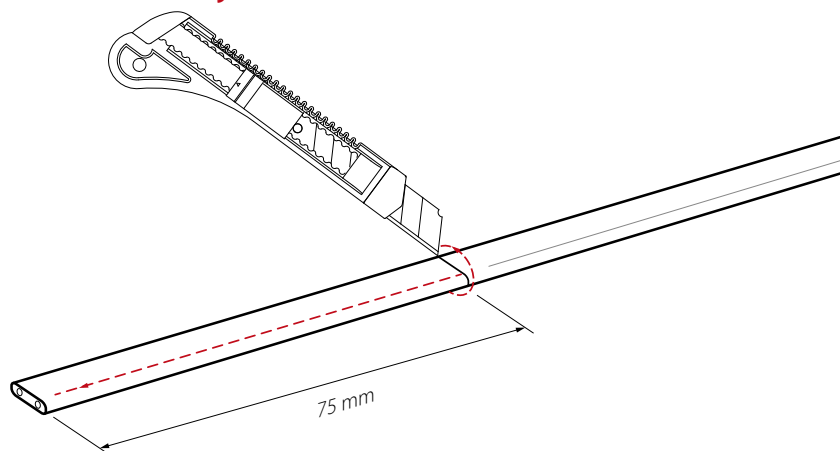


WARNING

Heat the shrink tubing to about 350°C for optimum shrinking results. **Avoid temperatures over 400°C.** Danger of damage to the outer jacket of the heating cable!

PREPARE HEATING CABLE

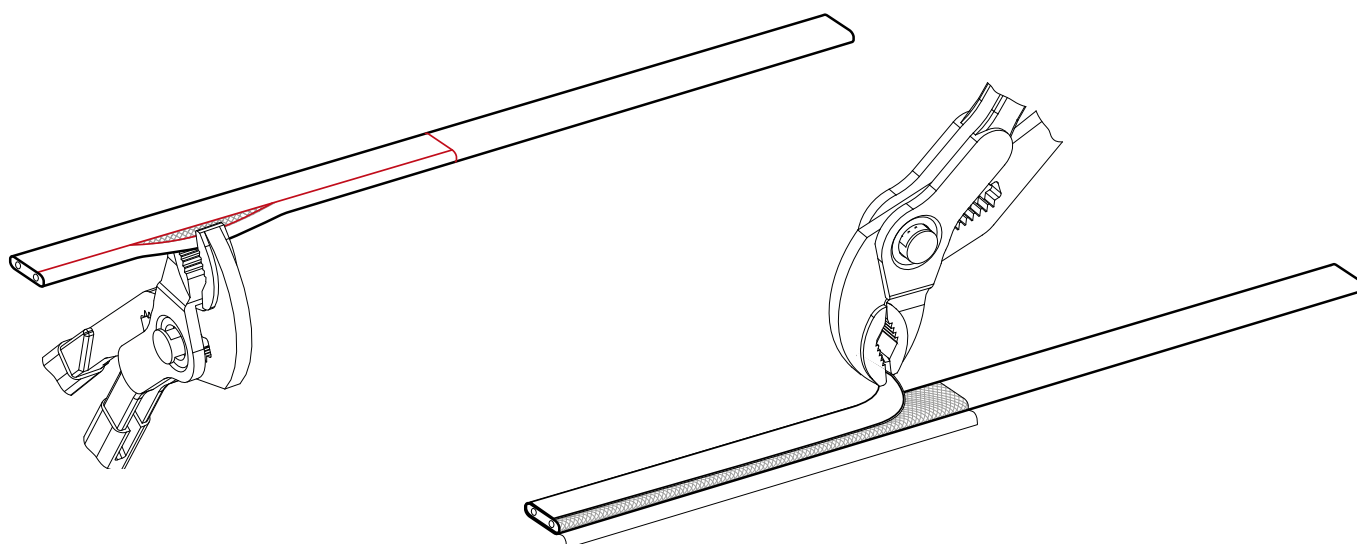
Remove outer jacket



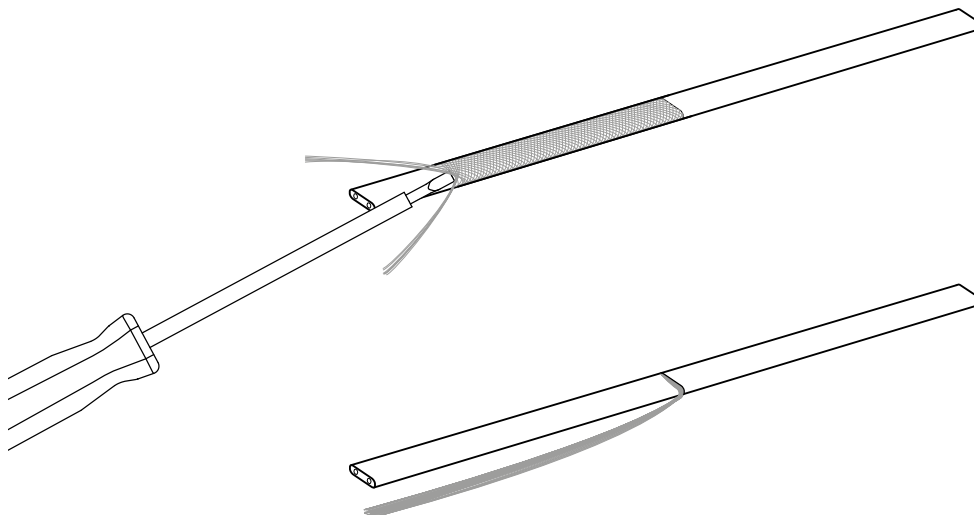
ATTENTION

Do not damage the protective braiding!

- Carefully cut the outer sheath radially.
Carefully cut the outer sheath lengthwise on each side.

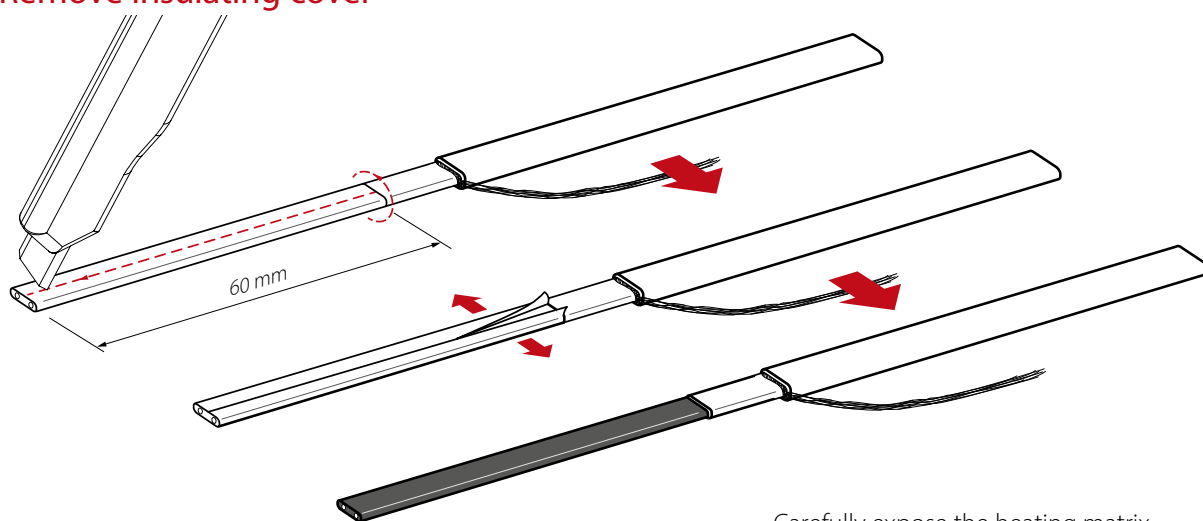


Carefully remove the outer sheath, do not damage the protective braiding!
(Repeat on the opposite side)



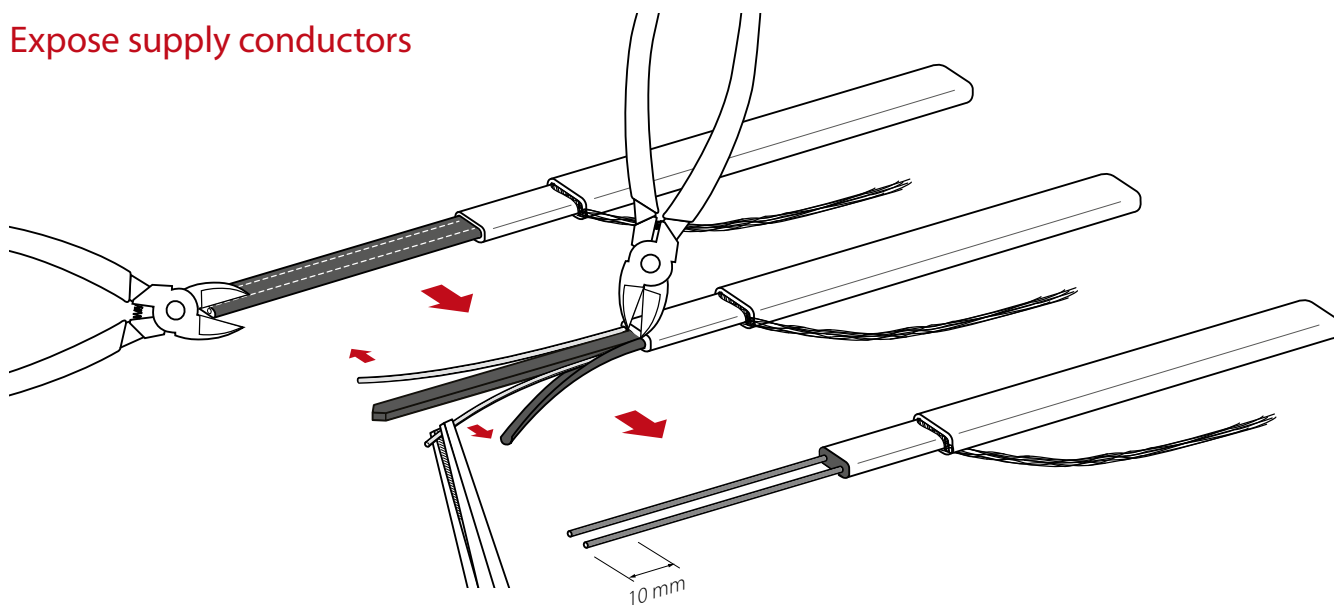
Unpick braid carefully, Pull straight and twist.

Remove insulating cover

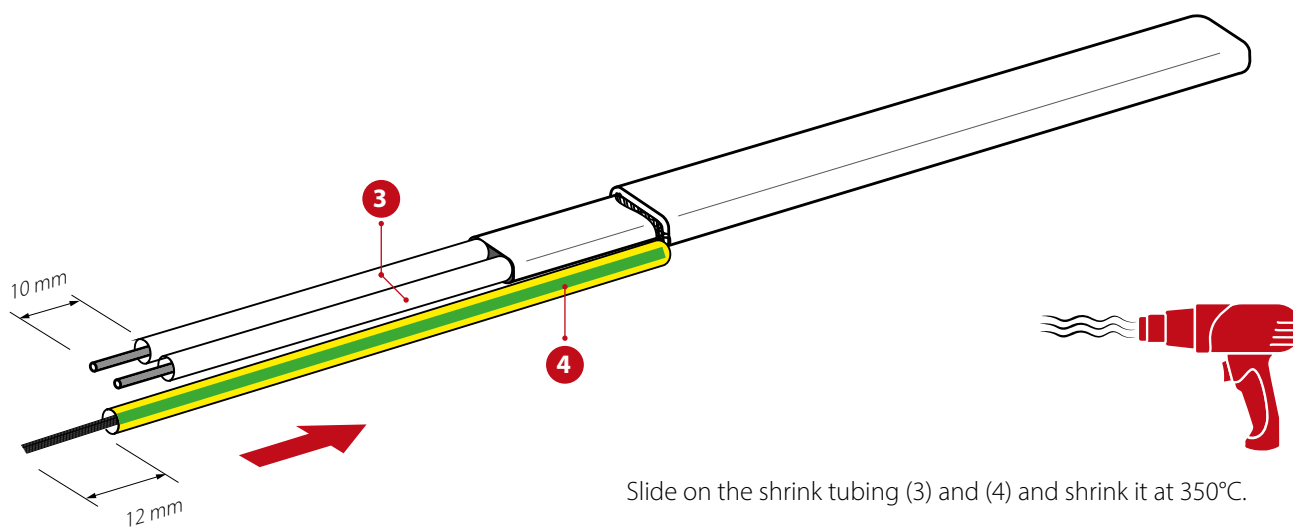


Carefully expose the heating matrix.

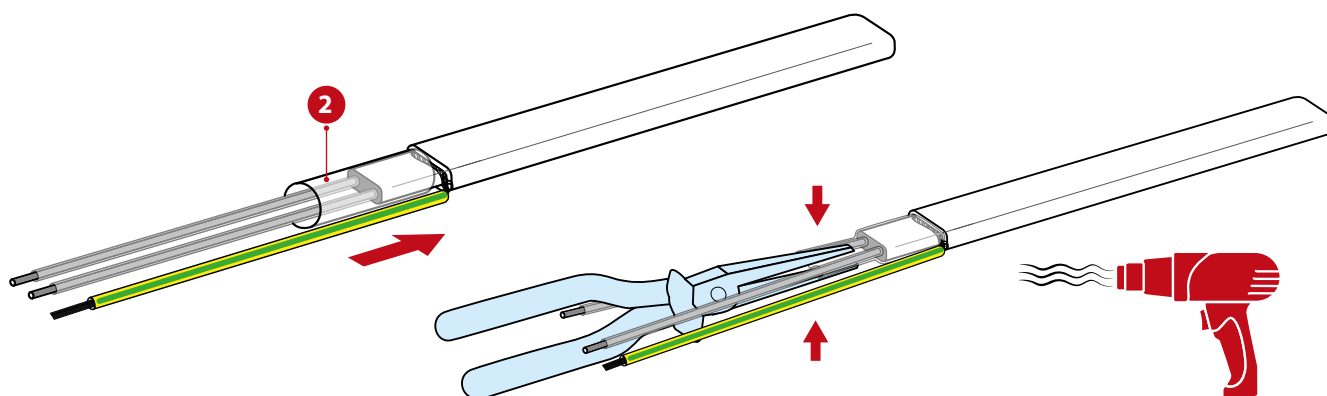
Expose supply conductors



Carefully expose the supply conductors and clean them on min. 10mm!



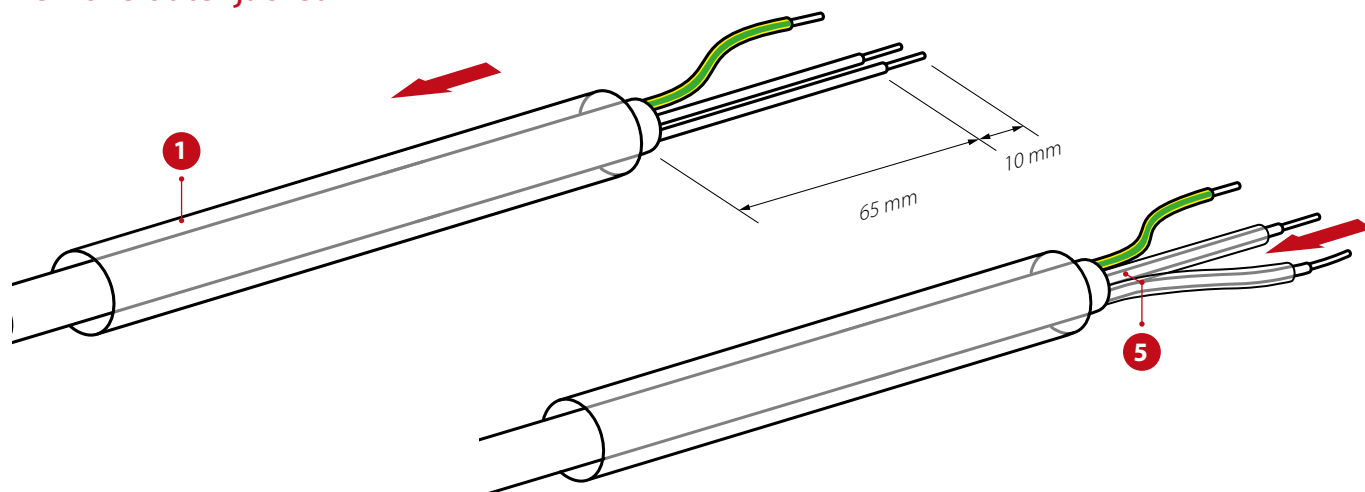
Slide on the shrink tubing (3) and (4) and shrink it at 350°C.



Slide on shrink tubing (5), shrink it at 350 °C and while it is still hot press it together between the supply conductors with long nose pliers.

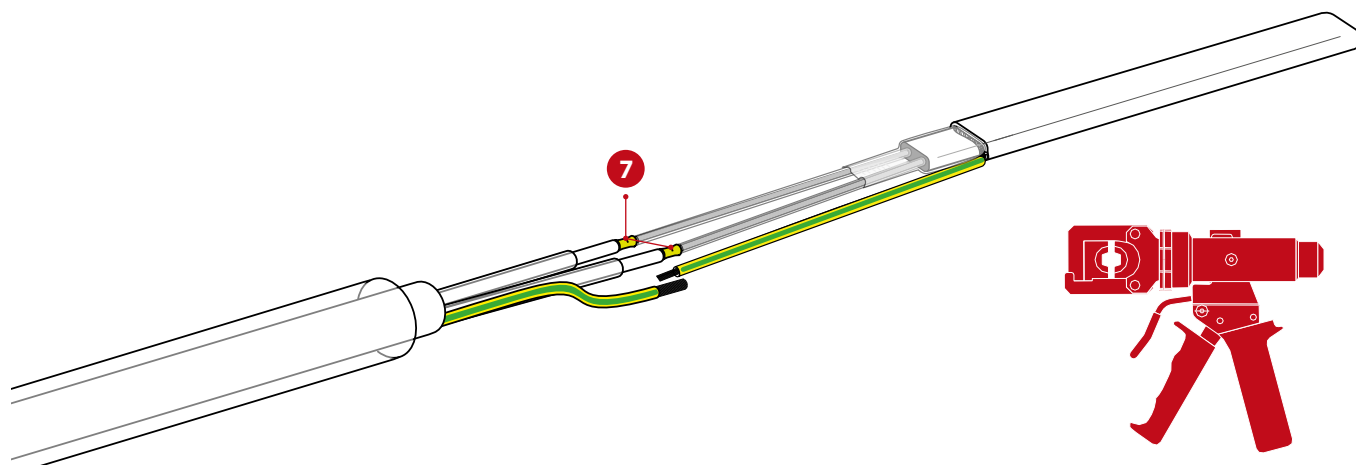
PREPARE COLD LEAD

Remove outer jacket

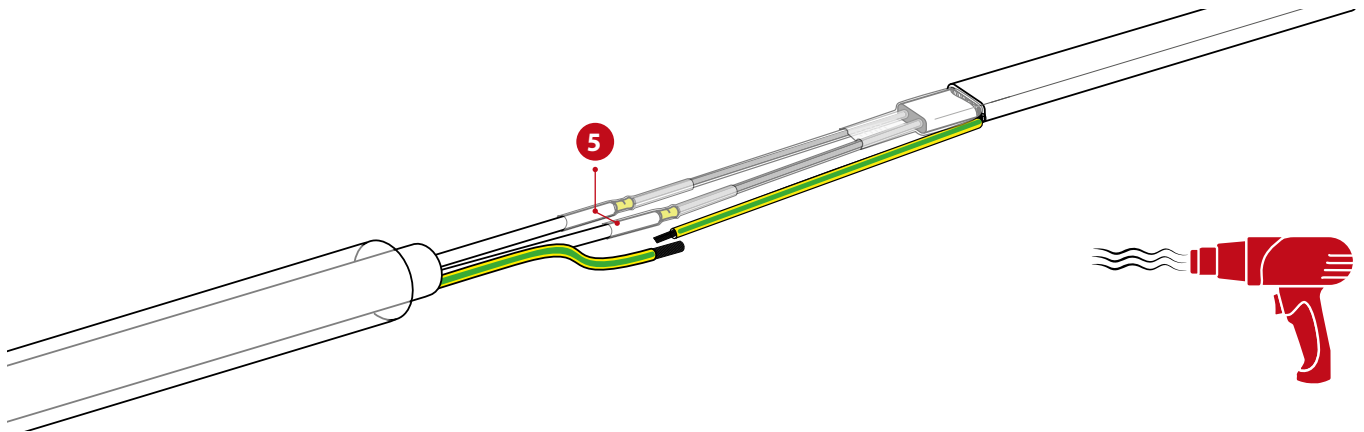


Remove the outer jacket, strip the supply conductor and protective conductor and slide on the heat-shrink tubes (1 & 5).

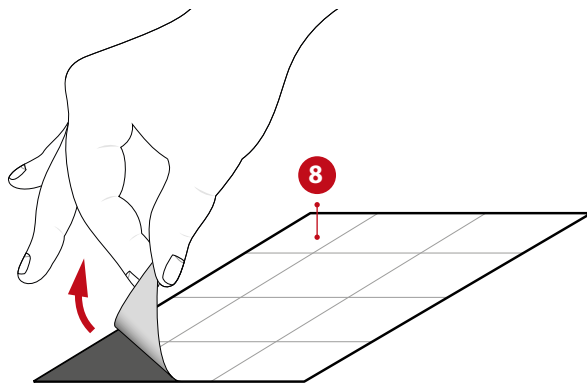
HEATING CABLE CONNECTION



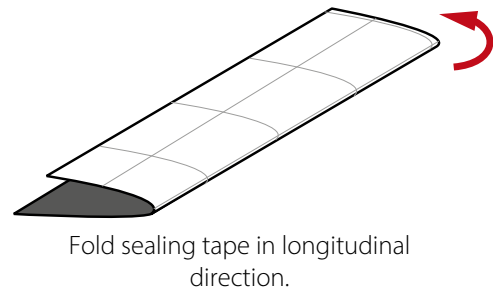
Insert the supply conductor into the butt connector (7) and crimp.



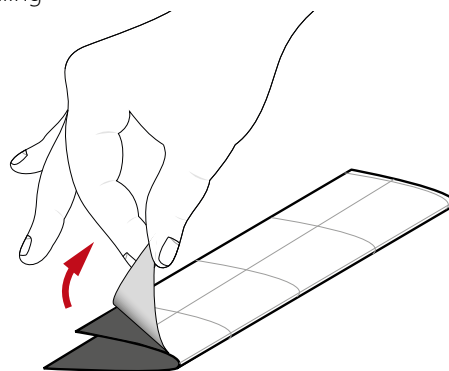
Slide the heat-shrink tubes (5) onto the centre of the joints and shrink at 350 °C.



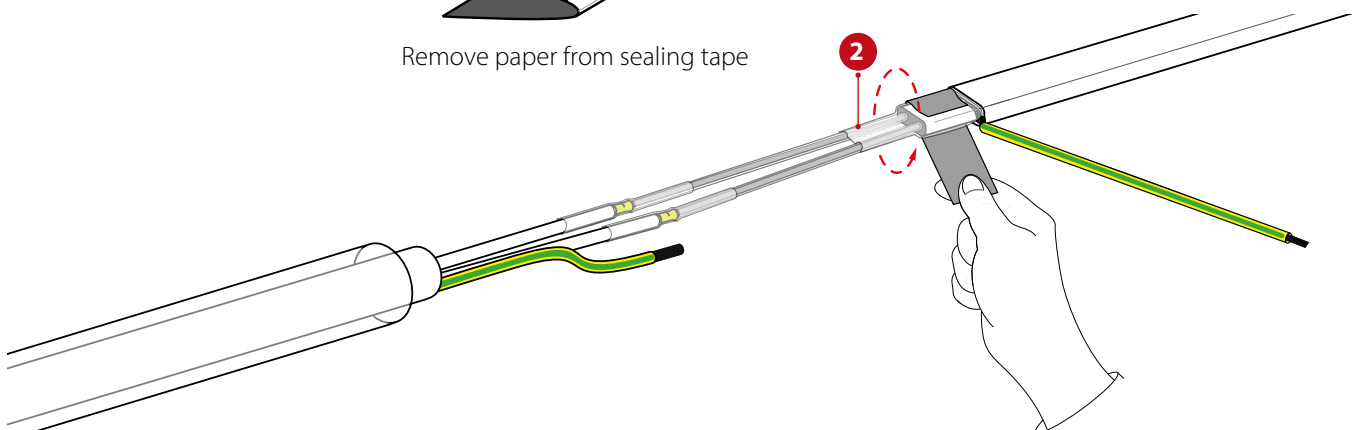
(2x) Remove masking paper from sealing tape (8).



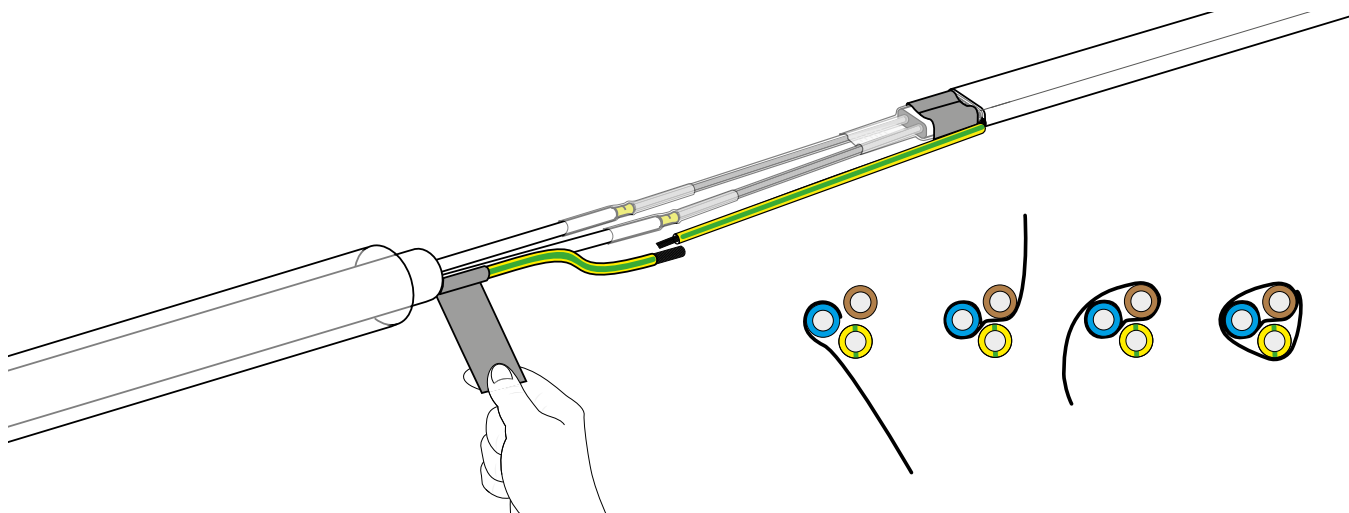
Fold sealing tape in longitudinal direction.



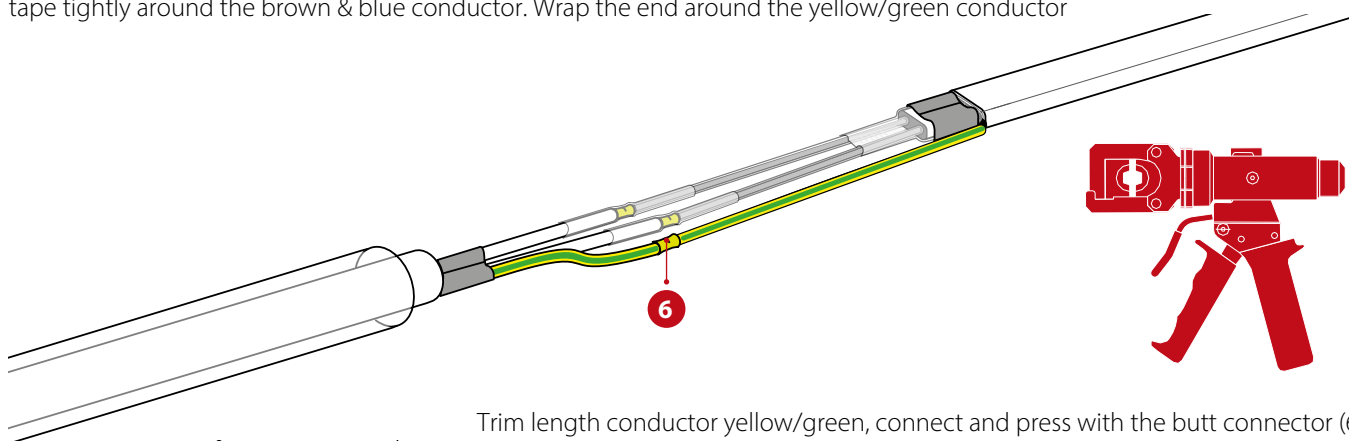
Remove paper from sealing tape



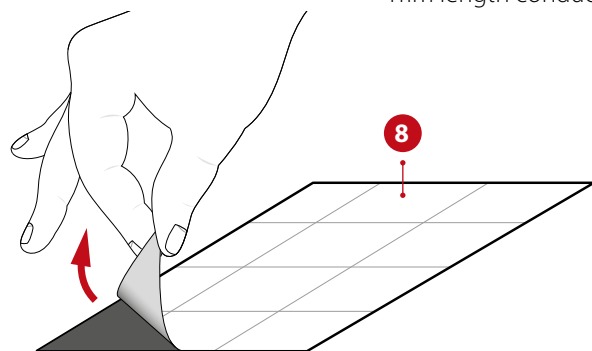
Wrap folded sealing tape around shrink sleeve (2) next to braid.



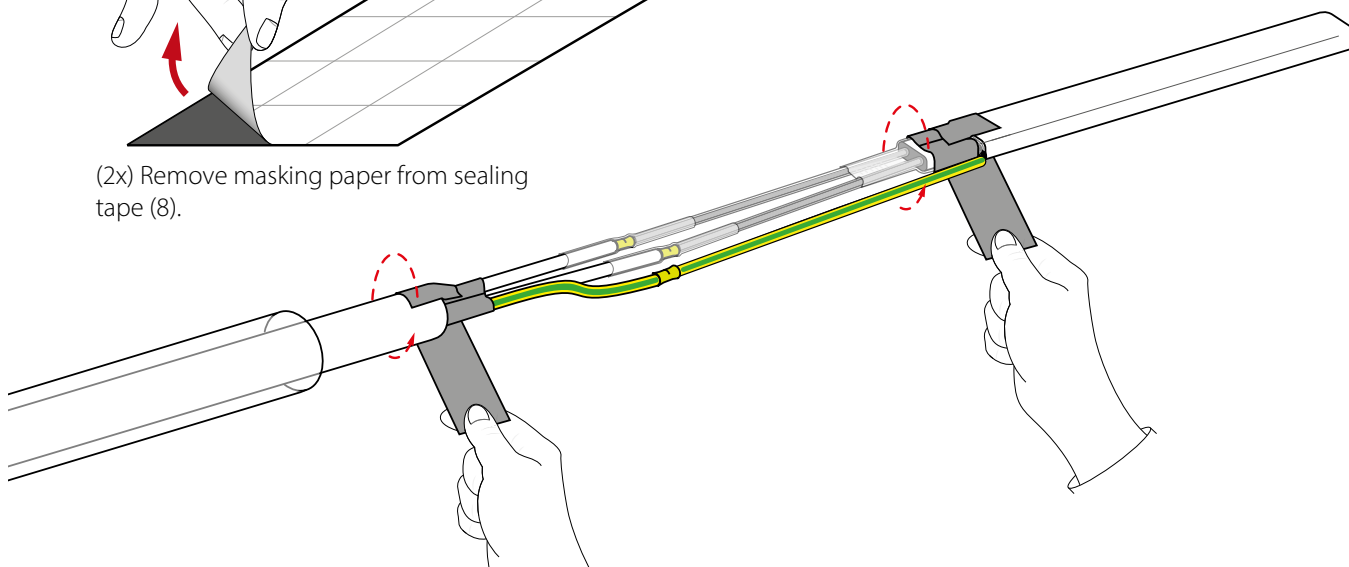
Place end of folded sealing tape between cold lead phase conductors, press conductor firmly into sealing tape . Wrap sealing tape tightly around the brown & blue conductor. Wrap the end around the yellow/green conductor



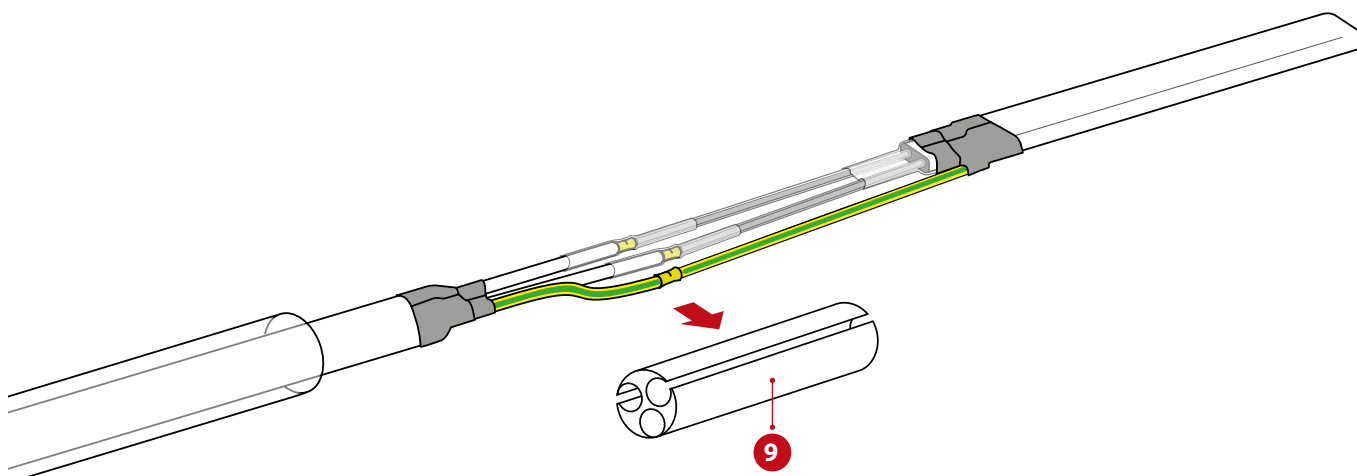
Trim length conductor yellow/green, connect and press with the butt connector (6).



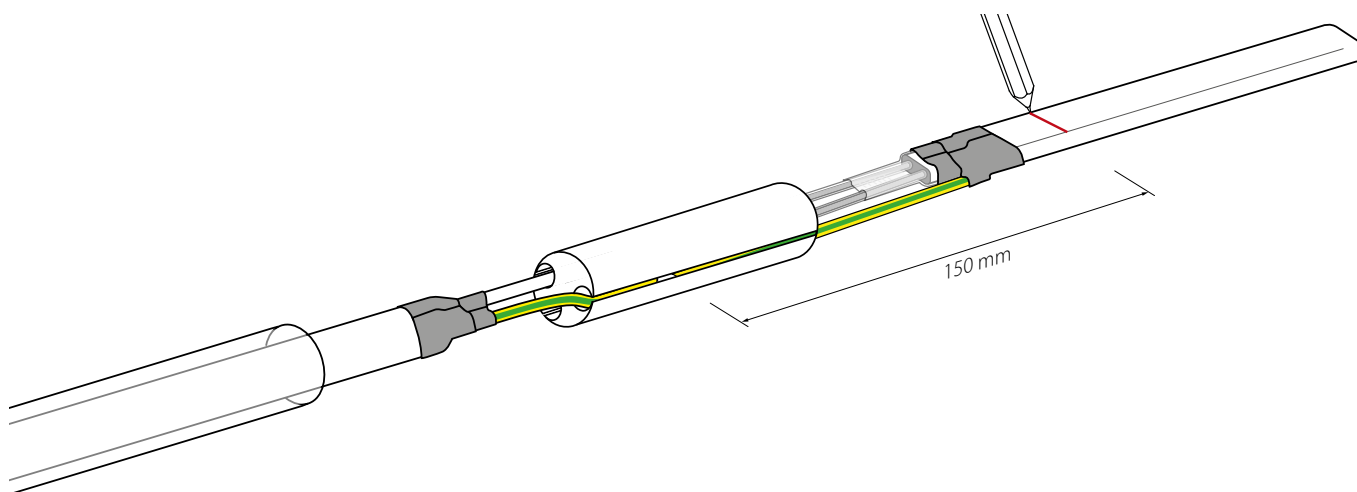
(2x) Remove masking paper from sealing tape (8).



Place the sealing tape in the centre of the transitions, wrap tightly around the connection cable or heating tape and press on.

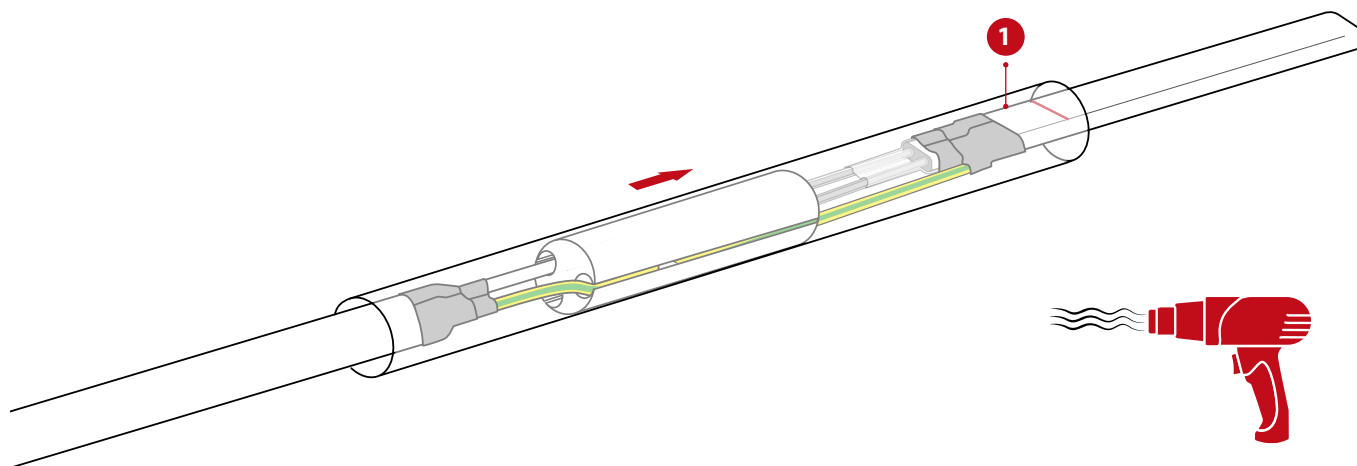


Place the silicone spacer (9) centrally over the connections.

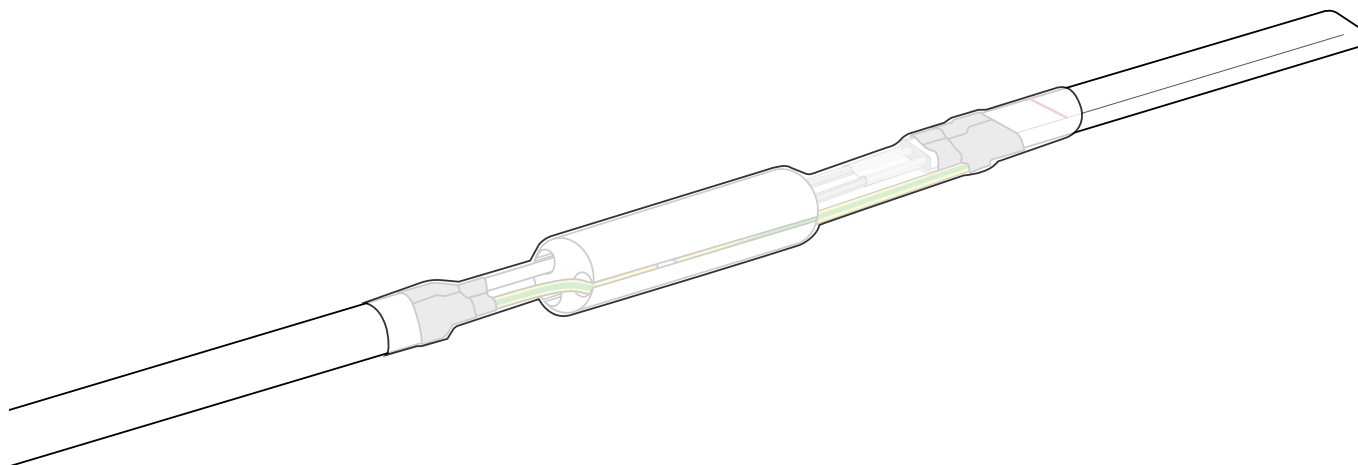


Mark the heating tape 150 mm from the centre of the silicone spacer (9).

COMPLETE CONNECTION



Push the heat shrink tube (1) onto the connection up to the marking, shrink at 350°C beginning in centre towards each end, until adhesive appears.



NOTES



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