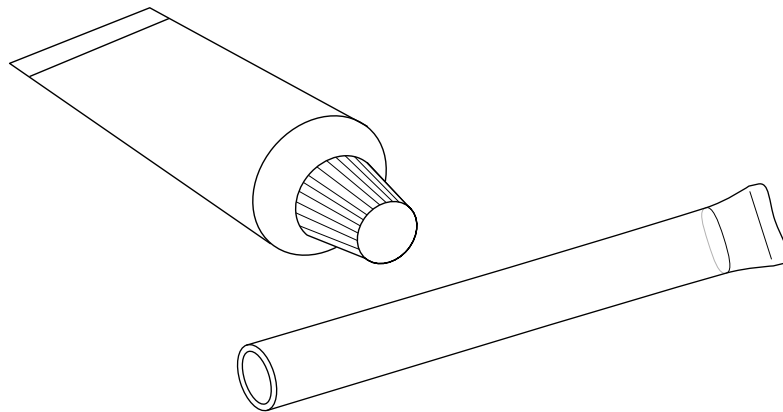


ASSEMBLY INSTRUCTIONS



EL-EC

End termination set of
self-regulating heating cables type ELSR
for use in ordinary and hazardous areas

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IMPORTANT NOTES AND SAFETY INFORMATION



WARNING

Installation and connections must be made in compliance with NEC, CEC and local wiring regulations and electrical codes.

Component approvals and performance ratings are based on the use of approved eltherm parts and accessories only. Assembly to be performed by properly trained and qualified personnel.

- RETAIN FOR LATER USE



For orderly and safe use of the EL-EC termination sets, please follow these instructions.
Please retain these instructions for later reference purposes (for example in the system documentation).

APPLICATION

The end cap EL-EC... is used for the termination of eltherm parallel heating cable type ELSR-...
It is suitable for outer jackets of either **fluoropolymer** or polypropylene (**PP**) construction.

Assembly instructions are provided in the following pages.

Special care should be taken with appropriate creeping distances and integrity of the end cap.



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

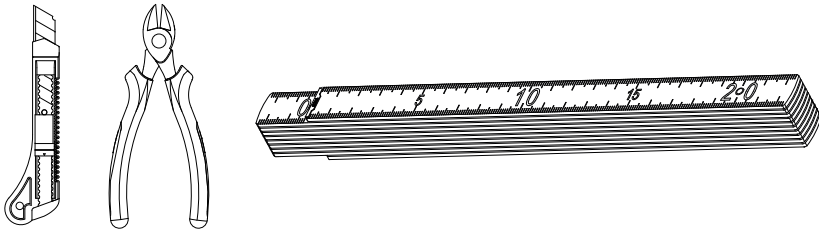
Refers to a dangerous situation. If it is not prevented there is risk of injury or at least a high risk of material damage.

Proviso

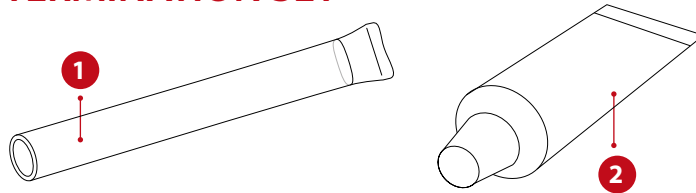
We reserve the right to make technical changes. Changes, errors or misprints shall not form the basis for any claim to compensation for damages. Comply with the applicable and currently valid standards and regulations for safety-related components and systems.

eltherm Canada Inc. 1155 Appleby Line, Unit E7 Burlington ON L7L 5H9 Canada P.: +1 (289) 812-6631 1 F.: +1 (844) 325-6750 info@eltherm.com	Document: 86430409CA02X		Assembly instructions EL-ECH-Ex, EL-ECSH-Ex, EL-ECN-Ex, EL-ECM, EL-ECMF, EL-ECW	
	Author:	Peter Schmidt	Datum:	30.04.2015
	Revision: 03	Jonas Schmidt	Datum:	30.09.2025

RECOMMENDED TOOLS



CONTENTS OF TERMINATION SET



ELSR

Type EL-ECN Ex (09CA022) termination for self-regulating heating cables ELSR-NA	No.	Quantity
End cap EL-ECN, Silicone, black	1	1 Unit
Silicone adhesive; „EC“ blue, 5 gr.	2	1 Unit
Type EL-ECH Ex (09CA021) termination for self-regulating heating cables ELSR-HA	No.	Quantity
End cap EL-ECH, Silicone, red	1	1 Unit
Silicone adhesive; „ECH“ red, 5 gr.	2	1 Unit
Type EL-ECSH Ex (09CA024) termination for self-regulating heating cables ELSR-HA & -SH+	No.	Quantity
End cap EL-ECSH, Silicone, red	1	1 Unit
Silicone adhesive; „ECH“ red, 5 gr.	2	1 Unit
Type EL-ECM (09CA041) termination for self-regulating heating cables ELSR-MA	No.	Quantity
End cap EL-ECM, Silicone, transparent	1	1 Unit
Silicone adhesive; „EC“ blue, 5 gr.	2	1 Unit
Type EL-ECMF (09CA042) termination for self-regulating heating cables ELSR-MA-...-BF	No.	Quantity
End cap EL-ECMF, Silicone, transparent	1	1 Unit
Silicone adhesive; „EC“ blue, 5 gr.	2	1 Unit
Type EL-ECW (09CA043) termination for self-regulating heating cables ELSR-WA	No.	Quantity
End cap EL-ECW, Silicone, transparent	1	1 Unit
Silicone adhesive; „EC“ blue, 5 gr.	2	1 Unit



ATTENTION

- Termination to be done only by personnel that is trained, qualified and knowledgeable in trace heating installations in Hazardous Areas!
- After installation inspect visually to ensure tight fit and for leaks.
- After completion check insulation resistance (min. 500VDC, recommended 2500VDC => min. 20 MOhm) and heater resistance!



NOTE

An end termination set does not include a power connection set. If a power connection set is needed, it must be ordered separately.

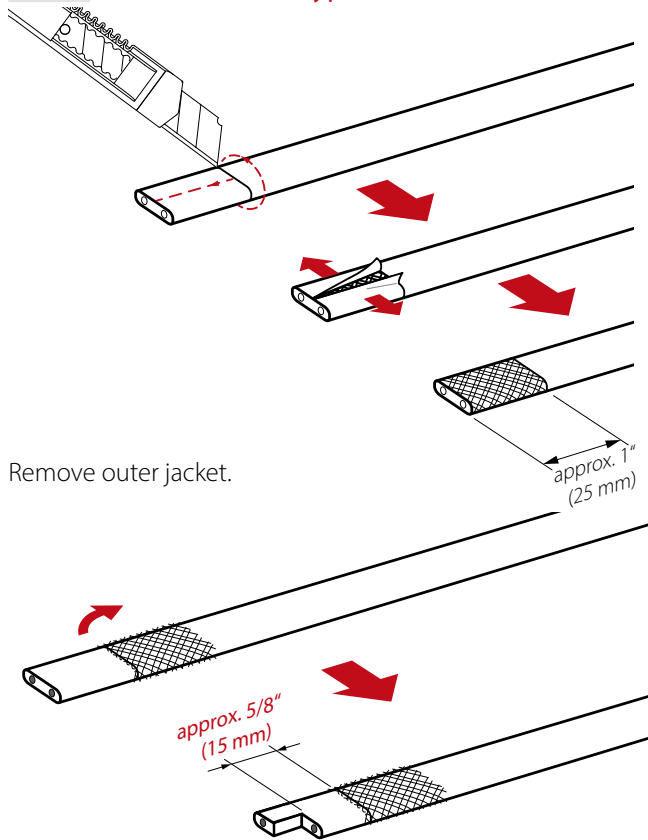


WARNING

De-energize trace heater prior to termination work!

Preparation of ELSR (except -SH+)

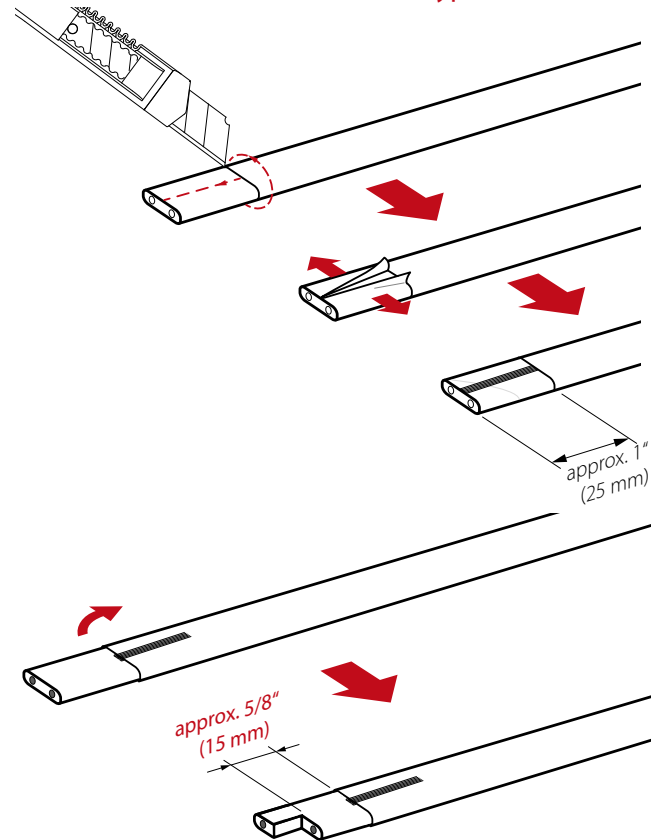
1.1 ELSR with braid (type "BO" & "BOT")



Remove outer jacket.

Turn braid / turn earthing wire and remove aluminium foil.
Shorten matrix & supply conductors on one side.

ELSR with aluminium foil (type "AO")

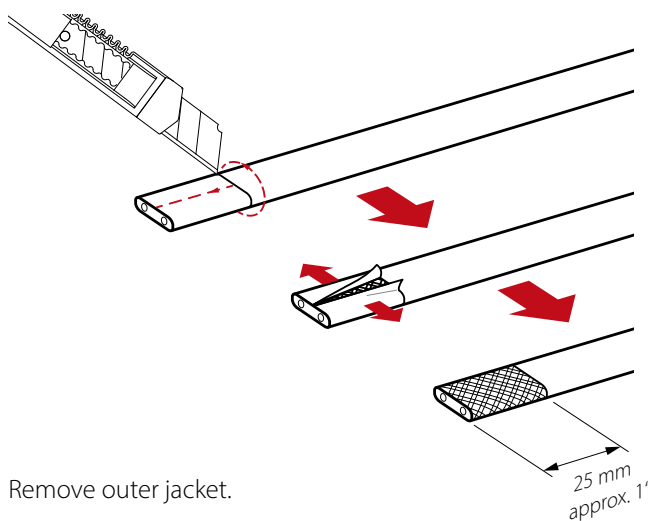


ATTENTION

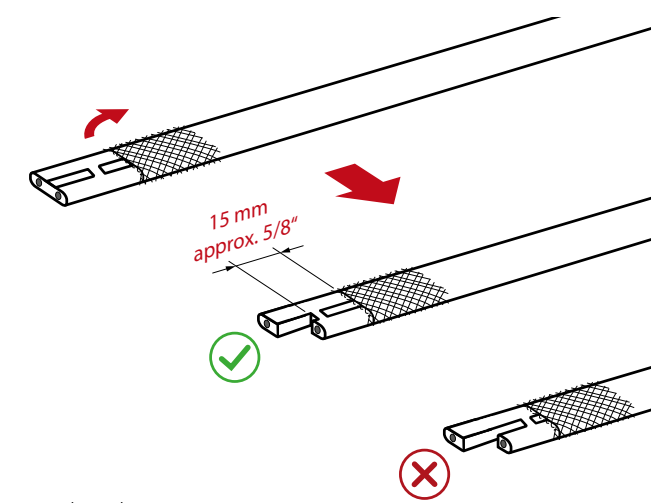
Keep clean and dry!

Preparation of ELSR-SH+

1.2



Remove outer jacket.



Turn braid.

Shorten matrix & supply conductors at the start of a cut-out on one side. The cut must not be made in the middle.



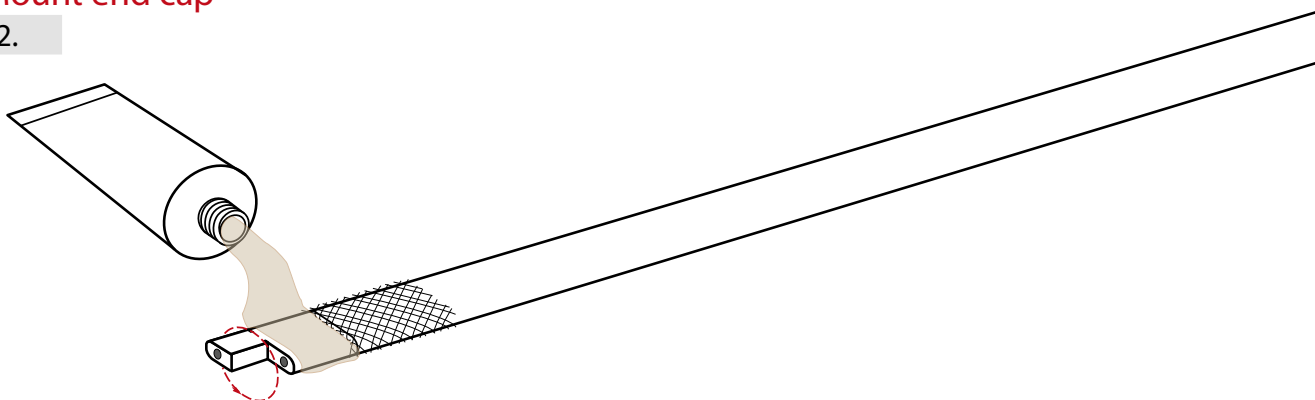
DANGER

The 15 mm / 5/8" must be kept as **minimum creeping distance!**

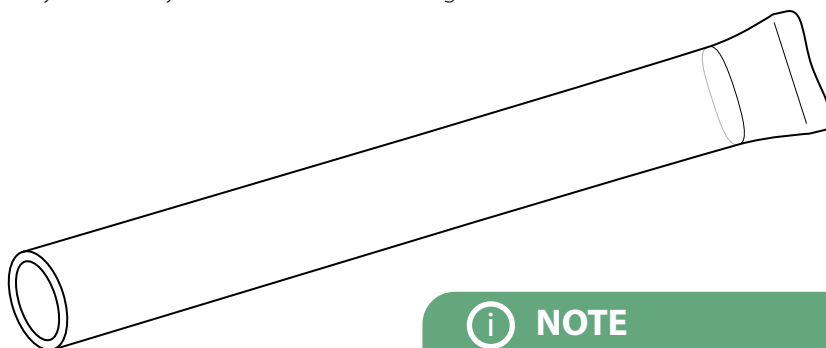
All wires of the braid need to be bent back. Otherwise there is a **risk of short circuit!**

Mount end cap

2.

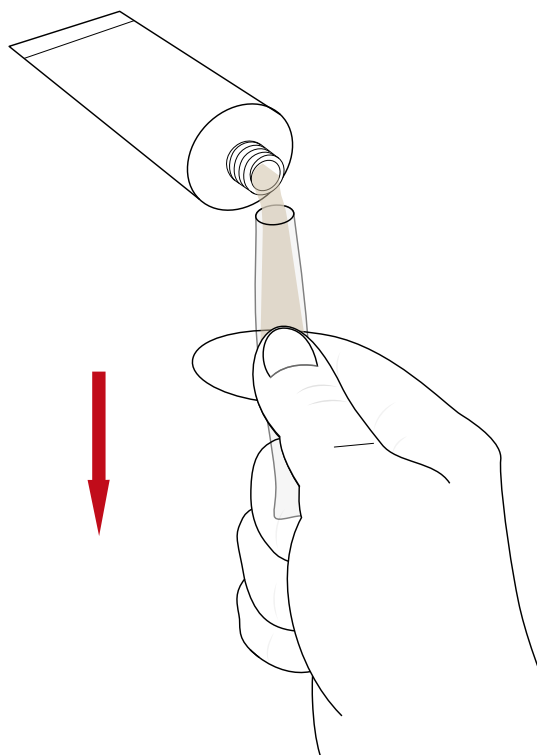


Distribute silicone completely and evenly on the end of the heating cables.



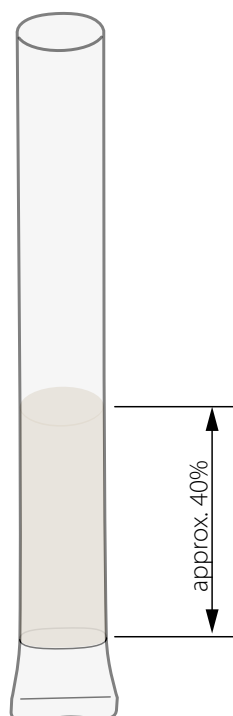
Check end cap to ensure it is not damaged.

3.



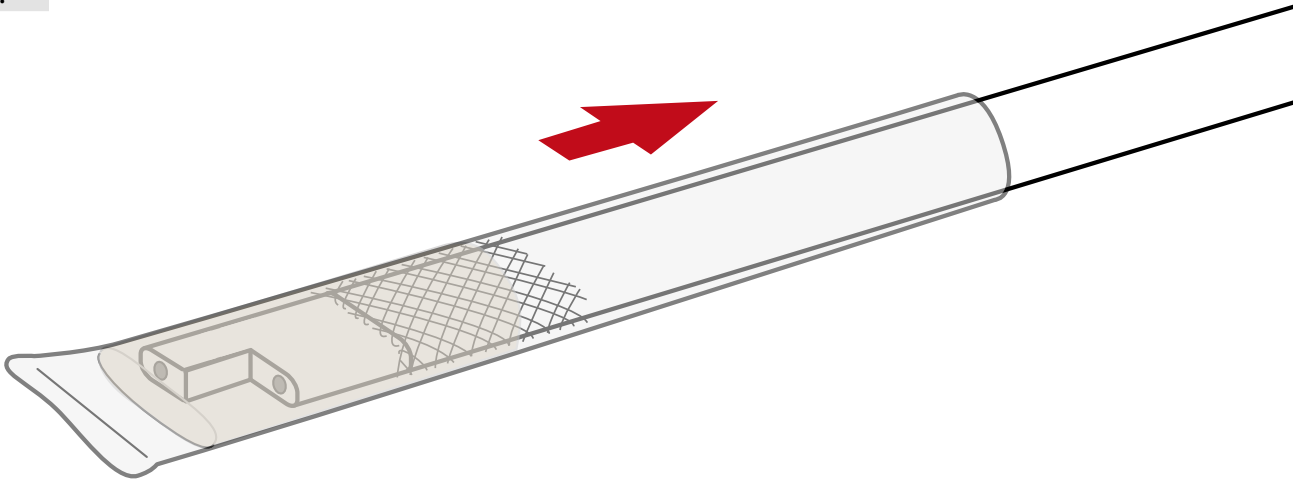
NOTE

The end caps EL-ECM, EL-ECMF and EL-ECW are transparent.
The end caps for ELSR-NA are **black** (EL-ECN-Ex), for ELSR-HA and -SH+ are **red** (EL-ECH-Ex & EL-ECSH-Ex) and are shown transparent to simplify the illustration of the assembly step.



To fill the silicone, squeeze the end cap so that the silicone is drawn into the end cap by the suction effect.

4.



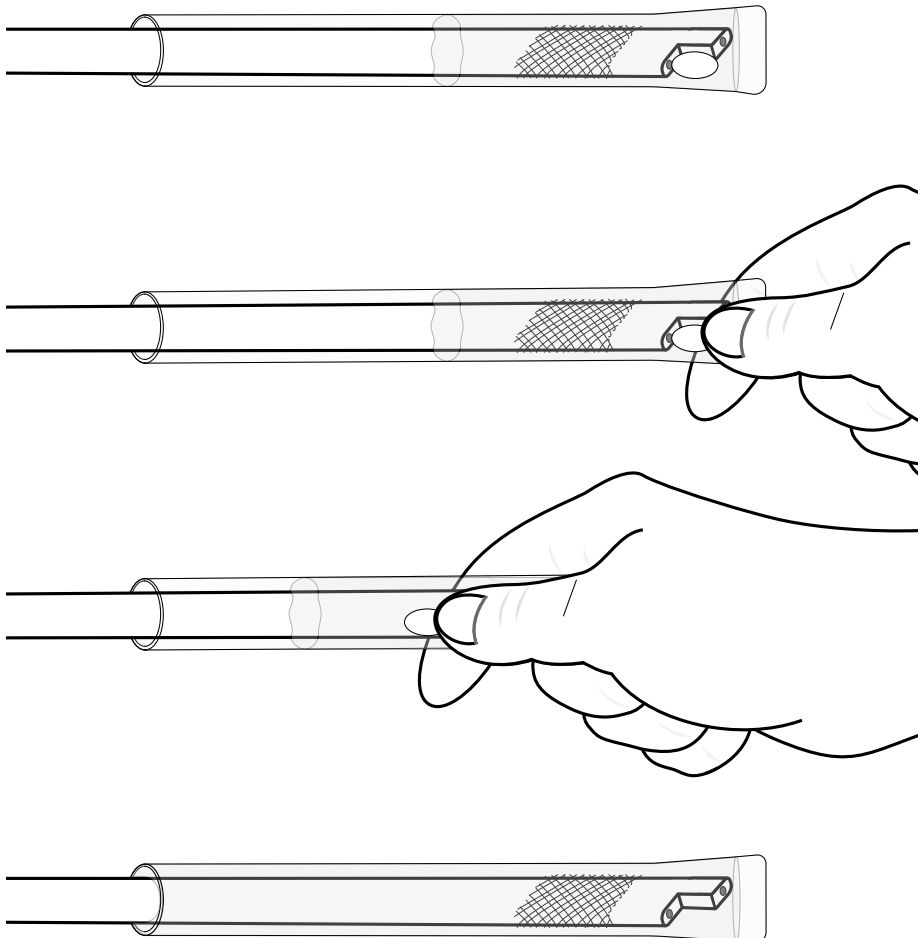
Push the entire length of the end cap onto the end of the heating cable.



WARNING

Installation of a termination set by sliding on the silicone end cap **without** adhesive is not permitted!

5.



Press out any air pockets in the silicone adhesive by hand and spread the silicone adhesive in the end cap. Inspect visually to ensure tight fit and for leaks. Then the heating tape is ready for operation immediately.



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