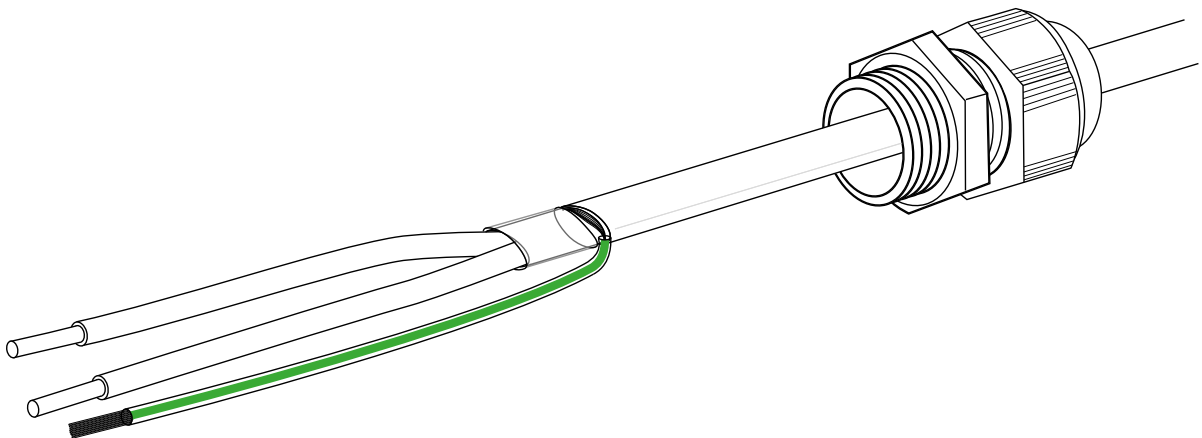


ASSEMBLY INSTRUCTIONS



ELVB-SRAP-Ex

Power termination set with cable gland
for ELP/PFA

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General display conventions

Particularly important points in these instructions are indicated by the following symbols:

**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 T.: +1 (289) 812-6631 1 F.: +1 (844) 325-6750 info@eltherm.com	Document: 86430409CA073		Assembly instructions ELVB-SRAP & ELVB-SRAP-Ex	
	Author:	Peter Schmidt	Date:	28.11.2024
	Revision: 00	Jonas Schmidt	Date:	28.11.2024

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



Please follow these instructions for proper and safe use of the ELVB-SRAP & ELVB-SRAP-Ex power termination sets. Please retain these instructions for later reference purposes (for example in the system documentation).

PACKAGING LABEL

ELVB-SRAP-Ex M20 BR [09CA073]



eltherm GmbH Power Termination Kit
ELVB-SRAP-Ex M20 BR

Item-Nº.: 09CA073 <yyyy-MM-dd>

max. 600V, max. 40W/m, max. 40A

Zone 1 AEx eb IIC Gb / Ex eb IIC Gb
Zone 21 AEx tb IIIC Db / Ex tb IIIC Db
Class II Div 1 Grp E,F,G / Class III Div 1



DEKRA 24CAUS 40-144991

Use with eltherm ELP/PFA heaters only.
Refer to installation instructions.

Trace heater set -WS min. installation Temperature -60 °C / -76 °F

eltherm GmbH
Ernst-Heinkel-Straße 6-10
57299 Burbach, Germany
T: +49 (0)2736 4413-0
info@eltherm.com

www.eltherm.com

CAUTION: for industrial use only. Temperature at the point of connection to the branch circuit may exceed 60 °C
ATTENTION: pour usage industriel seulement. La température au point de connexion au circuit de dérivation peut dépasser 60 °C

864A0709CA073 Packaging label ELVB-SRAP-Ex M20 BR

ELVB-SRAP-Ex 1/2" BR [09CA074]



eltherm GmbH Power Termination Kit
ELVB-SRAP-Ex 1/2" BR

Item-Nº.: 09CA074 <yyyy-MM-dd>

max. 600V, max. 40W/m, max. 40A

Zone 1 AEx eb IIC Gb / Ex eb IIC Gb
Zone 21 AEx tb IIIC Db / Ex tb IIIC Db
Class II Div 1 Grp E,F,G / Class III Div 1



DEKRA 24CAUS 40-144991

Use with eltherm ELP/PFA heaters only.
Refer to installation instructions.

Trace heater set -WS min. installation Temperature -60 °C / -76 °F

eltherm GmbH
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ATTENTION: pour usage industriel seulement. La température au point de connexion au circuit de dérivation peut dépasser 60 °C

864A0709CA074 Packaging label ELVB-SRAP-Ex 1/2" BR

ELVB-SRAP-3/4" ST [09CA075]



eltherm GmbH Power Termination
ELVB-SRAP 3/4" ST

Item-Nº.: 09CA075 <yyyy-MM-dd>

max. 600V, max. 40W/m, max. 40A



DEKRA 24CAUS 40-144991

Use with eltherm ELP/PFA heaters only.
Refer to installation instructions.

Trace heater set -WS min. installation Temperature -60 °C / -76 °F

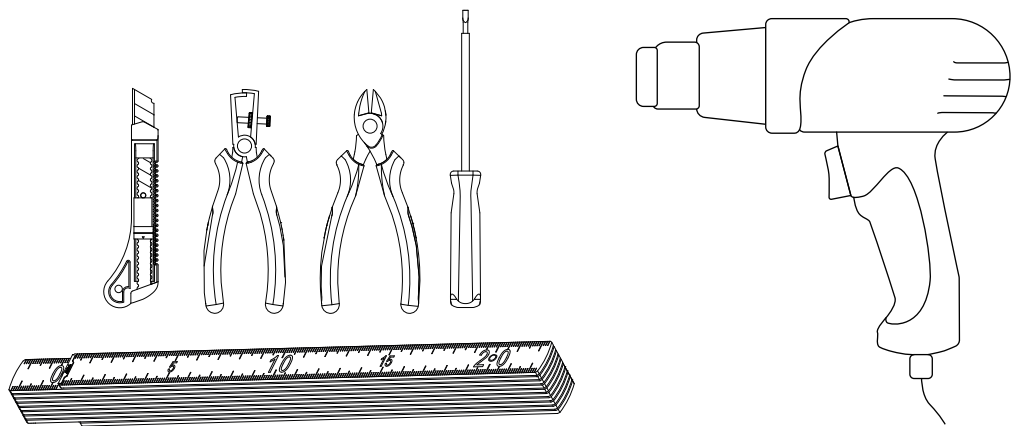
eltherm GmbH
Ernst-Heinkel-Straße 6-10
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ATTENTION: pour usage industriel seulement. La température au point de connexion au circuit de dérivation peut dépasser 60 °C

864A0709CA075 Packaging label ELVB-SRAP 3/4" ST

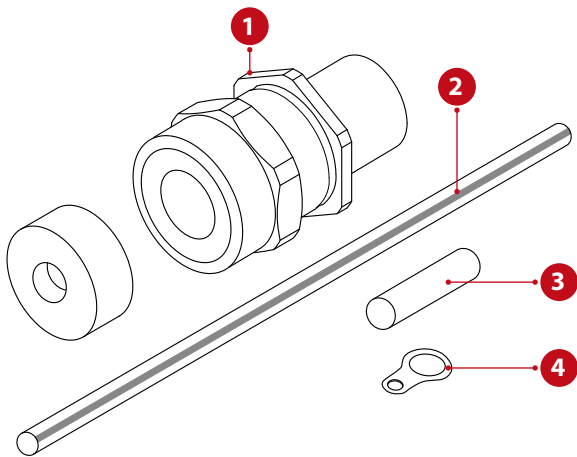
RECOMMENDED TOOLS



CONTENTS OF POWER TERMINATION SET

ELVB-SRAP & ELVB-SRAP-Ex

Suitable for use with ELP/PFA



No.	Type	Quantity
1	Cable gland Ex db eb tb M20x1,5 or ½" NPT (differs; see table to the right)	1 unit
2	Heat shrink Øi=3/16" (4.8 mm); 4,7" (120 mm); gn/ye	1 unit
3	Silicone sleeve Ø4/6, 1,18" (30 mm)	1 unit
4	Earth kit (optional, separate)	(1) unit

NOTE

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

Set types and compatibilities

Article no.	Type / Entry Thread Size	suitable for use with
09CA073	ELVB-SRAP-Ex M20 BR / M20x1,5 cable gland	ELP/PFA
09CA074	ELVB-SRAP-Ex ½" BR / ½" NPT cable gland	ELP/PFA
09CA075	ELVB-SRAP-¾" ST / without cable gland	ELP/PFA

NOTE

In case of kit ELVB-SRAP-¾" ST, the required glands must be ordered separately:

Article no.	Type	Approved for use with gland
09CA075	ELVB-SRAP-¾" ST	T&B 2237

WARNING

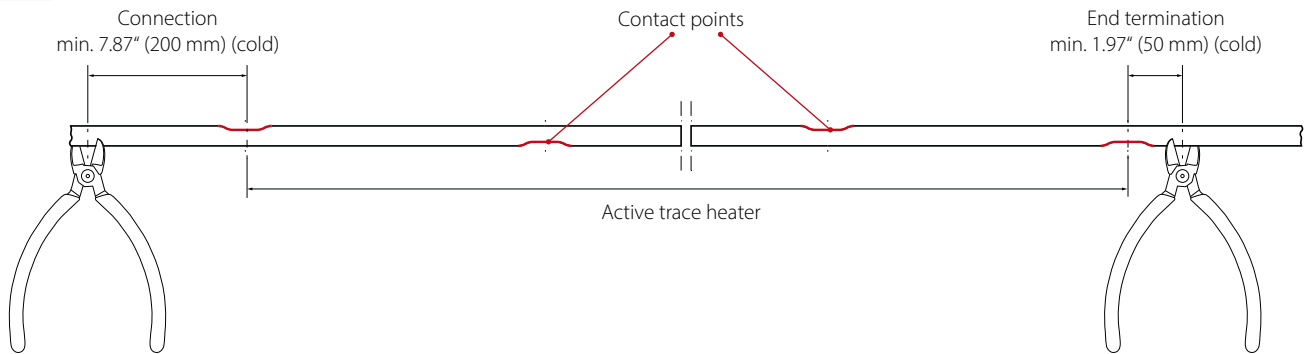
The cable glands included in kits „ELVB-SRAP...BR“, when installed into devices which are not subject to overloading (Class II), should not be used where the surface temperature exceeds +165°C

ATTENTION

- Termination to be done only by personnel that is trained, qualified and knowledgeable in trace heating installations in Hazardous Areas!
- After work is complete, check the insulation resistance (min. 500VDC, recommended 2500VDC, min. 20 MOhms) and measure heater resistance!
- Make sure to use appropriate tools for connections of wires and end sleeves!

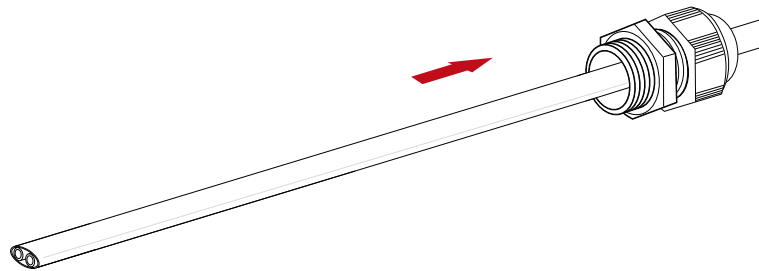
PREPARATION & ASSEMBLY

1.



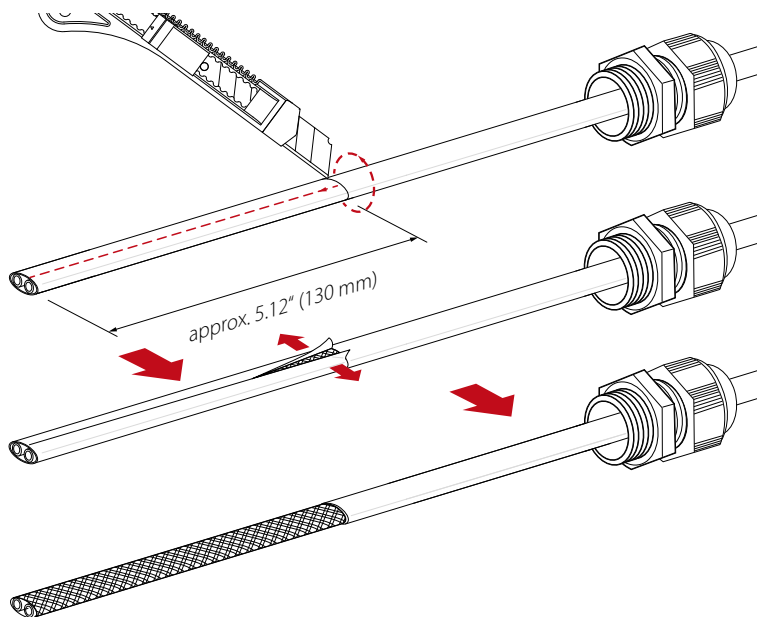
Cut the trace heater ELP

2.



Slide on cable gland. It will not be possible to slide it on later.

3.

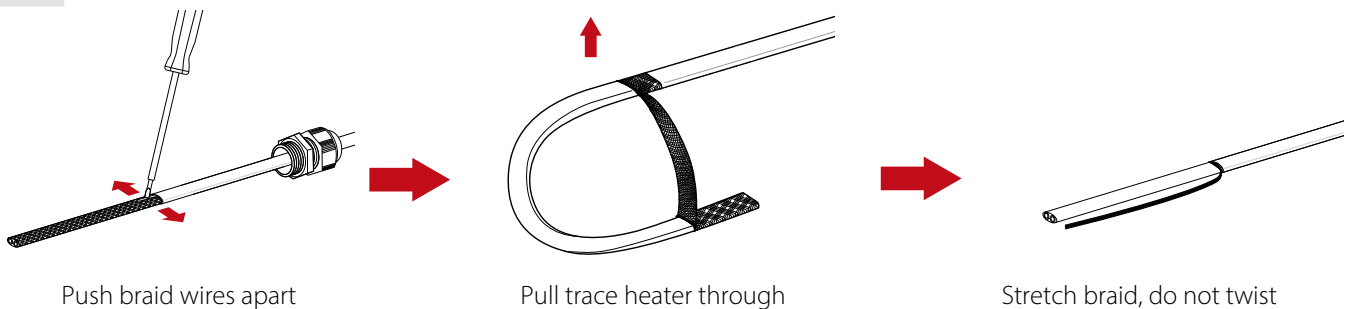


ATTENTION

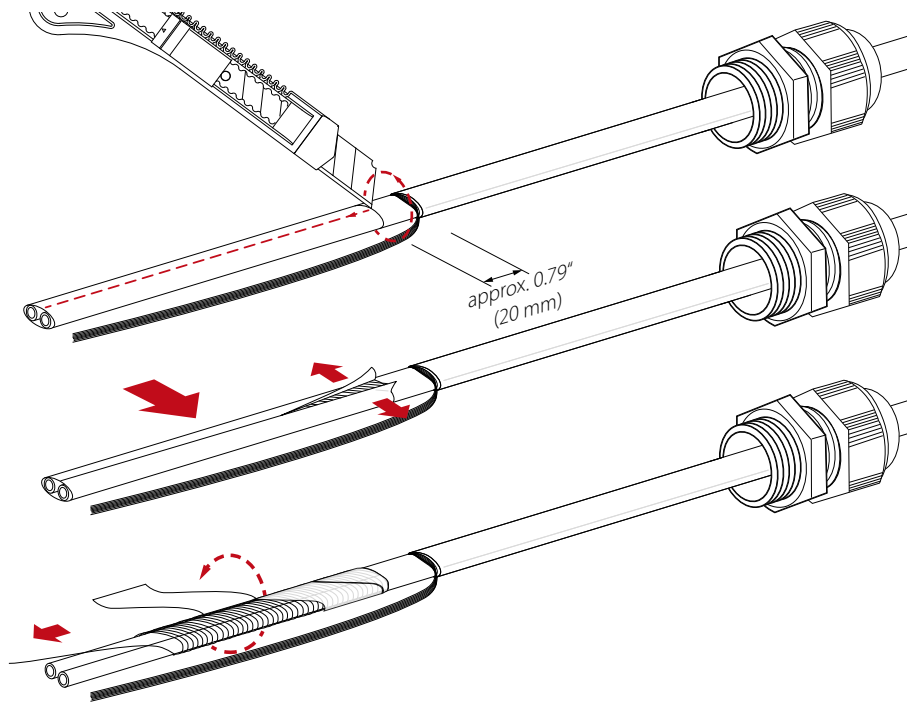
Do not damage the protective braid!

Remove outer jacket

4.

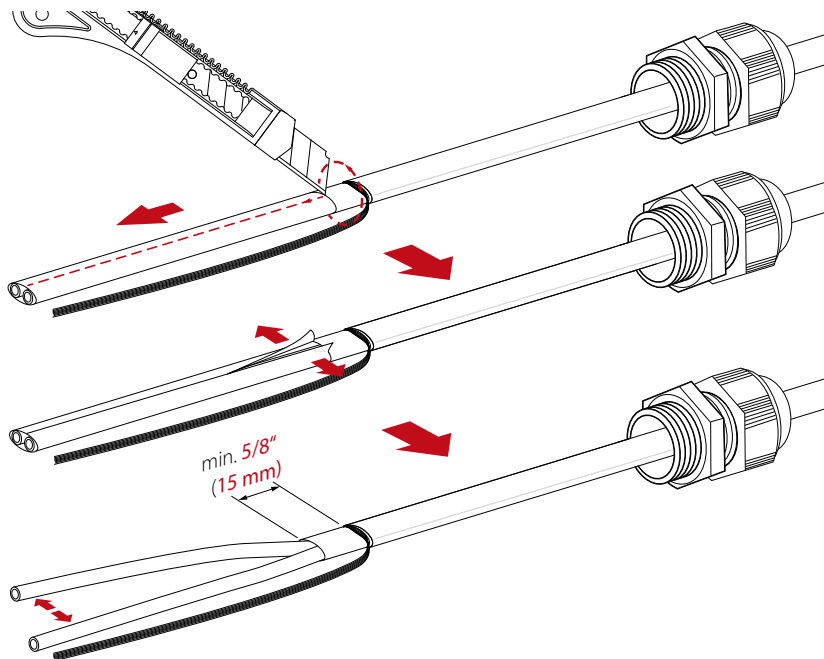


5.



Remove inner insulation and white foil, unwind and cut heater wire.

6.



Expose and separate the bus wire.



DANGER

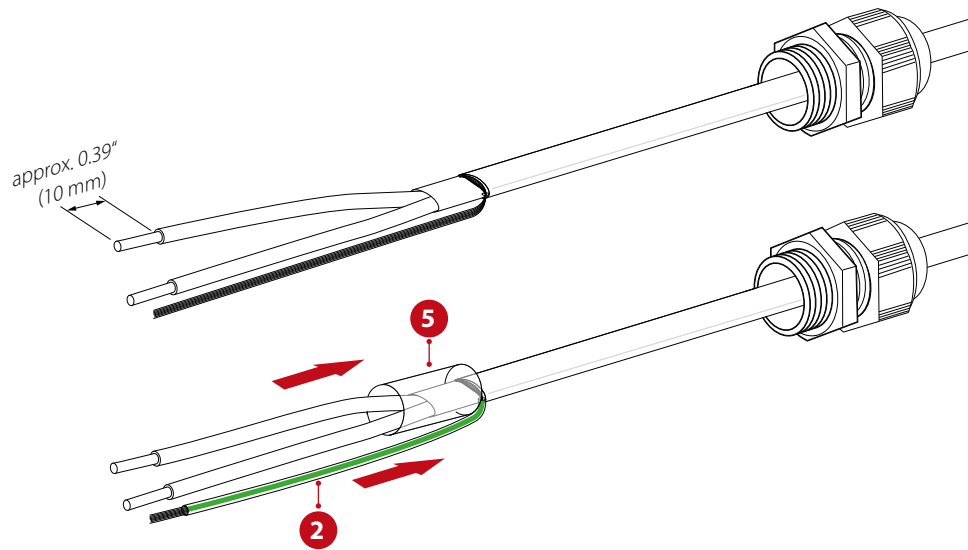
The 5/8" (15 mm) must be kept as **minimum creeping distance!**



ATTENTION

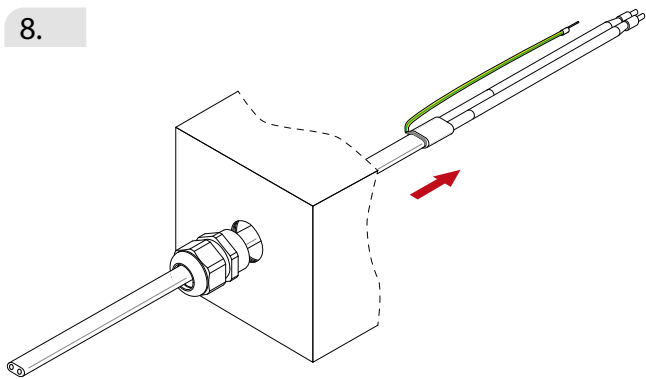
- Make sure not to damage the insulation of the separated bus wires.
- Keep heater wire away from protection braid!

7.

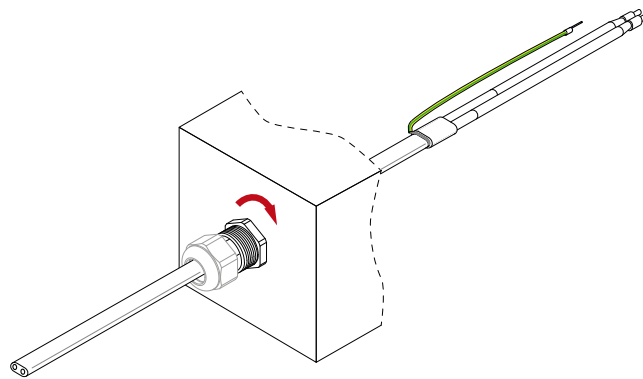


Remove 0.39" (10 mm) of insulation from the bus wire. Push the heat-shrink tubing gn/ye (2) and silicone sleeve (5) up to the braid and shrink them.

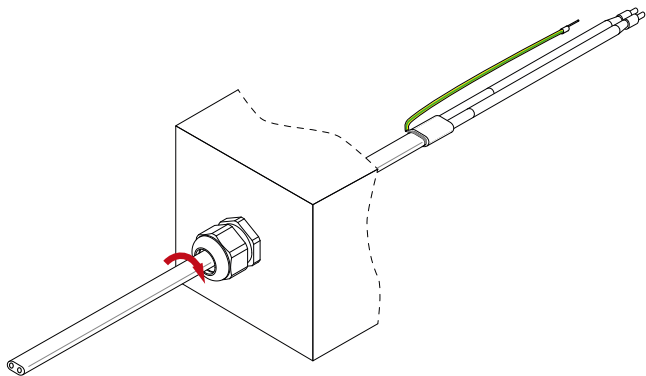
8.



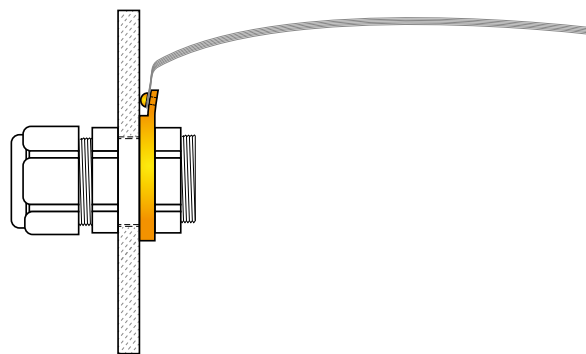
1. Insert the fully assembled trace heater into the enclosure.



2. Screw the cable gland into the enclosure.



3. Tighten the cable gland.



For installation of metal cable glands in plastic enclosure:
Earth the cable gland with an earthing kit!



WARNING

In the hazardous area always follow the instructions for the cable gland. These instructions also contain important information for safe use!



NOTE

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



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