



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx EPS 24.0030X	Page 1 of 4	<u>Certificate history:</u> Issue 0 (2024-06-24)
Status:	Current	Issue No: 1	
Date of Issue:	2026-01-28		
Applicant:	eltherm production GmbH Ernst-Heinkel-Str. 6-10 57299 Burbach Germany		
Equipment:	Ex heating cable system ELSR-H+		
Optional accessory:			
Type of Protection:	Electrical resistance trace heating		
Marking:	Ex 60079-30-1 IIC T3...T6 Gb Ex 60079-30-1 IIIC T200°C...T80°C Db		

Approved for issue on behalf of the IECEx
Certification Body:

Ulrich Feike

Position:

Head of Certification

Signature:
(for printed version)

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany





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Manufacturer: **eltherm production GmbH**
Ernst-Heinkel-Str. 6-10
57299 Burbach
Germany

Manufacturing
locations: **eltherm production GmbH**
Ernst-Heinkel-Str. 6-10
57299 Burbach
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 7.0

IEC/IEEE 60079-30-1:2015 Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements
Edition: 1.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/EPS/ExTR24.0041/01

Quality Assessment Report:

FR/INE/QAR12.0007/09



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The heating cable system ELSR-H+ Ex consists of IECEx approved components and is suitable for use on pipes, vessels and associated equipment in areas with combustible gas or dust (Equipment Group II, Equipment Protection Level Gb and Db for T-Class T6...T3 or T85°C...T200°C). Within the associated T-Class, the system can be operated without the need of a separate temperature limiter due to the self-limiting characteristic of the heating cable. In T-Classes with lower temperature limits, the system can be operated either according to the controlled design or the stabilized design.

The system assembly consists of:

- Self-regulating heating cable ELSR-H+ with power 15, 30, 45, 60 and 75 W/m at 5 °C (IECEx EPS 12.0004U)
- Cable gland M25x1.5 (IECEx IBE 12.0023X)
- Cable gland EL-GSR (IECEx IBE 25.0014X)
- Ex d cable gland Peppers A8** (IECEx CML 19.0104X)
- Endcap EL-ECSH (IECEx EPS 17.0063U)
- Cable Joint Ex-Con SR (IECEx IBE 13.0012X)
- Mounting foot Ex-It (IECEx IBE 12.0024U)

Electrical data:

- Voltage: 230 V AC

- Power: 15, 30, 45, 60 and 75 W/m

SPECIFIC CONDITIONS OF USE: YES as shown below:

Application temperature, depending on system components: max. -60 °C to +210 °C

When the system ELSR-H+ is to be used in one of the T-Classes T4, T5 or T6, determination of the T-Class and of the maximum permitted maintain temperature needs to be done by eltherm or by use of the design software "eltherm designer 2.0". In Zone 1 or Zone 21, the system is then operated in controlled or in stabilized design as per IEC/IEEE 60079-30-2.

When determining the limit temperature, the operating temperature ranges for the system components that have direct contact with heated equipment must be considered.

Heating cable ELSR-H+	-60 °C to +210 °C
Cable gland M25x1.5	-25 °C to +70 °C (7 J)
	-55 °C to +70 °C (4 J)
Cable gland EL-GSR	-60 °C to +130 °C
Ex d cable gland Peppers A8**	-60 °C to +180 °C
Endcap EL-ECSH	-60 °C to +250 °C
Cable Joint Ex-Con SR	-32 °C to +200 °C
Mounting foot Ex-It	-20 °C to +200 °C

At temperatures below -25 °C, the cable gland M25 x 1.5 shall be installed protected against mechanical stress.

The Ex-Con-SR cable joint shall be installed to protect it from mechanical stress.

The system components shall be combined so that all free ends of the heating cable are closed or contacted.

Installation and commissioning shall only be carried out by trained specialist personnel in accordance with the requirements of IEC 60079-14, Annex F and in accordance with the manufacturer's specifications.

The free cable ends are to be connected to separate junction boxes (which are approved according to a recognised type of protection) via the system cable gland or to the system junction boxes type ELAK-Ex-3 via the system mounting assembly Ex-It.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Addition of a further cable gland and correction of a typo.