



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx EPS 19.0070U**

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Certificate history:

Status: **Current**

Issue No: 1

[Issue 0 \(2019-07-08\)](#)

Date of Issue: 2022-09-28

Applicant: **eltherm production GmbH**
Ernst-Heinkel-Straße 6-10
57299 Burbach
Germany

Ex Component: Trace Heater Type ELKM-AG-E

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **'60079-30-1'**

Marking: Ex 60079-30-1 IIC Gb

Ex 60079-30-1 IIIC Db

Approved for issue on behalf of the IECEx
Certification Body:

Ulrich Feike

Position:

Certification Manager

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



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-Straße 6-10
57299 Burbach
Germany

Manufacturing
locations:

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 component 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 component listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/EPS/ExTR19.0067/01

Quality Assessment Report:

FR/INE/QAR12.0007/07



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Ex Component(s) covered by this certificate is described below:

Fluoropolymer insulated series trace heater type ELKM-AG-E as a component with different resistances.

The heater will be used as part of a separately certified heat tracing system for frost protection and temperature maintenance up to 260 °C of pipes, vessels and associated equipment in hazardous areas.

See annex for technical data and type key.

SCHEDULE OF LIMITATIONS:

Min. admissible ambient temperature: -60 °C

Max. admissible service (operating) temperature: +260 °C

The connection method, the temperature class and the requirements made on the qualification of the staff putting the installation regulations into practice, have to be defined in the final certification of the respective heat tracing system.

The manufacturer's instructions must be followed.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Retesting with alternative material for electrical insulation and jacket.

Annex:

[IECEx EPS 19.0070U - Annex_1.pdf](#)



Annex to Certificate
IECEx EPS 19.0070U Issue No.: 1



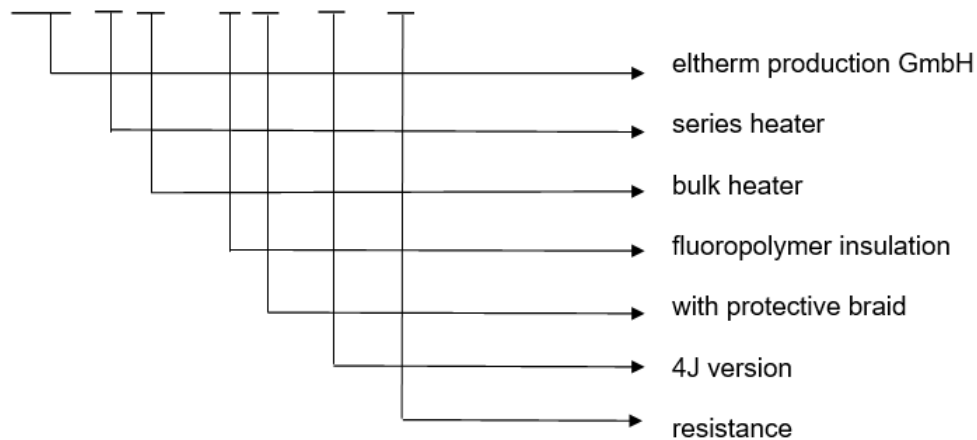
Technical Data:

Nominal voltage	750 V
Mechanical resistance	4 J
Min. bend radius	2,5 x heater diameter
Conductor material	copper, heater alloys
Insulation and jacket material	PFA

Design	Outer diameter approx. [mm]	Range of resistances [Ω /m]
ELKM-AG-E spiraled conductor	max. 5,2 min. 4,3	min. 9 max. 1500
ELKM-AG-E stranded conductor	max. 5,6 min. 3,5	min. 0,0044 max. 8

Type key:

E L K M - A G - E



Example: ELKM-AG-E 0,26