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 CML 18.0206**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 1	Issue 0 (2019-06-14)
Date of Issue:	2023-02-07		
Applicant:	**Heat Trace Lmited** Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ **United Kingdom**		
Equipment:	**MCN Mineral Insulated Heating Cable**		
Optional accessory:			
Type of Protection:	**Trace Heating "Ex 60079-30-1"**		
Marking:	Ex 60079-30-1 IIC T1 to T6 Gb Ex 60079-30-1 IIIC T450°C to T85°C Db IP67 Minimum Installation Temperature: -80°C		

Approved for issue on behalf of the IECEx Certification Body: **A Snowdon**

Position: **Certification Manager**

Signature: (for printed version)

Date: (for printed version) 2023-02-07

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:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom

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Certificate No.: **IECEx CML 18.0206** Page 2 of 4

Date of issue: 2023-02-07 Issue No: 1

Manufacturer: **Heat Trace Limited**
Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ
United Kingdom

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 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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC/IEEE 60079-30-1:2015 Edition:1.0	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements

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 Reports:

GB/CML/ExTR18.0263/00 GB/CML/ExTR23.0020/00

Quality Assessment Report:

GB/CML/QAR19.0027/05

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

*NOTE: This certificate was temporarily SUSPENDED over the period of **2021-08-21 to 2023-01-27** at the request of the issuing IECEx Certification Body (ExCB) following their consultation with the Applicant. This suspension does NOT affect products manufactured prior to **2021-08-21** or after **2023-01-27** . Any product manufactured during the suspension period of **2021-08-21 to 2023-01-27** cannot be considered to be IECEx Certified under this Certificate. Any comment may be directed to the Applicant or ExCB.*

The MCN mineral insulated heating cable is a range of copper-nickel sheathed series resistance heating cables for long circuit length application. All cables from the range are offered as single core (one heating conductor) or dual core (two heating conductors). Single core cables are rated at 600 V and dual core cables may be rated at 300 V or 600 V.

Refer to Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 1

This issue introduced the following modifications:

i. The certificate has had the standards updated to the latest editions.

ii. The applicant has updated their trademark.

iii. The conditions of manufacture have changed, to refer to the latest standards.

Annex:

Certificate Annex IECEx CML 18.0206 Iss 1.pdf

Annexe to:	**IECEx CML 18.0206, Issue 1**
Applicant:	**Heat Trace Limited**
Apparatus:	**MCN Mineral Insulated Heating Cable**

Description

The MCN mineral insulated heating cable is a range of copper-nickel sheathed series resistance heating cables for long circuit length application. All cables from the range are offered as single core (one heating conductor) or dual core (two heating conductors). Single core cables are rated at 600 V and dual core cables may be rated at 300 V or 600 V.

The heating conductor are round in constructions and offered in the following materials: copper (C); copper alloy (K, K1, K2); or nickel chromium (N). A magnesium oxide insulation is utilised along with a copper-nickel sheath.

The cables range in diameter and length according to specification. All cables may be supplied with brazed end seals, glands, earth tags and/or cold leads according to customer specification.

MCN mineral insulated heating cables should be installed directly onto pipeline; under insulation; in accordance with the manufacturer's installation instructions (-80°C to +40°C).

MCN cable has a withstand temperature of 400°C. All cables will be supplied marked with a T Class (T1, T2, T3, T4, T5 or T6) and T Rating (T450°C, T300°C, T200°C, T135°C, T100°C or T85°C).

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Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

i. Where the product incorporates certified parts or safety critical components, the manufacturer of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

ii. An electric strength test of 2U +500 V shall be applied between the conductors and the outer braid or jacket as appropriate for 60 seconds as required by clause 5.2.1 of IEC/IEEE 60079-30-1:2015.

iii. An electric strength test of the polymeric sheath (outer jacket) used for corrosion resistance shall be carried out in accordance with the requirements of IEC/IEEE 60079-30-1:2015 clause 5.2.1.

iv. The manufacturer shall verify the output rating for each cable manufactured in accordance with IEC/IEEE 60079-30-1:2015 clause 5.2.2.

v. The manufacturer shall demonstrate, through their quality programme, the thermal safety of the trace heating cable with respect to time as per IEC/IEEE 60079-30-1:2015 clause 5.1.12.

vi. T Class and T Rating shall be assigned with consideration to the graph shown in document Ex-MHC-0223-01. The following temperatures shall not be exceeded:

- o T1 = 440°C
- o T2 = 290°C
- o T3 = 195°C
- o T4 = 130°C
- o T5 = 95°C
- o T6 = 80°C

vii. A copy of this certificate will be provided with the equipment or available on request.

Specific Conditions of Use

None.