IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx CML 15.0058X

Issue No: 3

Status: **Current**

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Date of Issue: **2019-05-16**

Certificate history:
Issue No. 3 (2019-05-16)
Issue No. 2 (2018-03-01)
Issue No. 1 (2017-11-03)
Issue No. 0 (2016-08-11)

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

Equipment: **HTS1FAR-A Series Resistance Round Longline (LLR / Longline R)**

Optional accessory:

Type of Protection: **Electrical Resistance Trace Heating & Dust**

Marking:

Ex 60079-30-1 IIC T* Gb
Ex 60079-30-1 IIIC T**°C Db
IP67
* & ** Refer to Equipment Description for temperature class/assigned maximum surface temperature options
Maximum withstand temperature Tp = 230°C.

Approved for issue on behalf of the IECEx Certification Body: A C Smith

Position: Technical Operations Director

Signature:
(for printed version)

Date: 2019-05-16

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 the Official IECEx Website.

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

Additional Manufacturing location(s):

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 apparatus 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 electrical 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:

GB/CML/ExTR16.0040/00 GB/CML/ExTR17.0189/00 GB/CML/ExTR17.0218/00
GB/CML/ExTR18.0306/00

Quality Assessment Report:

GB/SIR/QAR11.0008/07

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Longline Round (LLR) is a series of round electric resistance heating cables for long cross country pipelines.

See annex for full description and Conditions of Manufacture

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment comprises previously certified parts; the user and/or installer shall install and commission the equipment taking into account any restrictions or specific conditions of use that are applicable to the previously certified devices/parts that are fitted to the equipment.

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

Issue 1

1. To permit the introduction of the LLRS splice to the HTS1FAR-A Series Resistance Round Longline (LLR / Longline R). The introduction provides a method for the splicing of heating cables and for splicing heating cables with supply cables. The previous restriction that cables must be terminated in a non-hazardous area is therefore removed.
2. To remove specific conditions of use following the introduction of the LLRS.

Issue 2

1. To increase the maximum withstand temperature to +90°C when fitted with LLRS splices.

Issue 3

1. To assess and permit the addition of optional materials for the outer jacket.
2. At the applicant's request to remove HTS1FAR-A 1.2 and 1.7 sizes from the certificate.
3. To recognise the replacement of drawing LLR-05/C Rev.0 with drawing TK/HTS1FAR/C Rev.0.
4. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the document previously listed, IEC 60079-0:2011 Ed. 6, is replaced by IEC 60079-0:2017 Ed. 7.
5. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the document previously listed, IEC 60079-30-1:2007 Ed. 1, is replaced by IEC/IEEE 60079-30-1:2015-09 Ed. 1; as a result, the markings of the equipment were updated.

Annex:

Annex IECEx CML 15_0058X Issue 3.pdf

Annexe to:	□□□□□M□15□005□□□□□□□
Applicant:	□□□□□r□□□□□□□□d
Apparatus:	□□□1□□R-□□□r□□R□□□□□□□□R□□□d □□□□□□□□□R□□□□□□□□□R□

Description

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Product Type	Conductor Size (mm)	Conductor Resistance (OHM/KM @ 20°C)
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Product Type	Nominal Output (W/m)	Maximum Permissible Workpiece Temperatures (°C)					
		T6 T85°C	T5 T100°C	T4 T135°C	T3 T200°C	T2 T300°C	T1 T450°C
□□□1□□R-□ □1	10 20 □0 □0	□□	51 12	9□ □9 6	190 166 110 6□	225 215 16□ 129	225 215 16□ 129
□□□1□□R-□ □1	10 20 □0 □0	□2 5	59 20	101 60 26	1□5 15□ 115 □9	226 199 16□ 1□9	226 199 16□ 1□9
□□□1□□R-□ 12□6	10 20 □0 □0 50	□9	59 □	106 6□ 20	1□6 1□1 1□□ 101 6□	226 20□ 1□5 160 1□1	226 20□ 1□5 160 1□1
□□□1□□R-□ 19□6	10 20 □0	□1	61 9	10□ □1 26	1□□ 1□1 1□□	226 205 1□□	226 205 1□□

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Company Reg No. 8554022 VAT No. GB163023642

Product Type	Nominal Output (W/m)	Maximum Permissible Workpiece Temperatures (°C)					
		T6 T85°C	T5 T100°C	T4 T135°C	T3 T200°C	T2 T300°C	T1 T450°C
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Without LLRS/HLRS	With LLRS or HLRS fitted
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Conditions of Manufacture

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