

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 20.0129 Page 1 of 3 Certificate history:

Status: Current Issue No: 0

Date of Issue: 2021-01-13

Applicant: Flexelec S.A.
10 Rue des Freres Lumiere

Z.A. du Bois Rond St Bonnet de Mure 69720

France

Equipment: FSX Self-Regulating Heating Cable

Optional accessory:

Type of Protection: Trace Heating "Ex 60079-30-1"

Marking: Ex 60079-30-1 IIC T3 Gb¹

Ex 60079-30-1 IIIC T200°C Db¹

Ex 60079-30-1 IIC T2 Gb²

Ex 60079-30-1 IIIC T300°C Db²

IP67

Withstand Temperature Range: -40°C to +225°C

¹ Products rated up to 75 W/m and 277 V max

² Products rated above 75 W/m and for nominally rated 230 V products powered up to a maximum of 277 V

S. Roumbedakis

Approved for issue on behalf of the IECEx

Certification Body:

Position: Technical Manager

Signature:

(for printed version)

Date: 2021-01-13

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.

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







IECEx Certificate of Conformity

Certificate No.: IECEx CML 20.0129 Page 2 of 3

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Manufacturer: Flexelec S.A.

10 Rue des Freres Lumiere Z.A. du Bois Rond St Bonnet de Mure 69720

France

Additional 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 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

IEC/IEEE

Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements

60079-30-1:2015 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:

GB/CML/ExTR20.0176/00

Quality Assessment Report:

GB/SIR/QAR11.0002/06



IECEx Certificate of Conformity

Certificate No.: IECEx CML 20.0129 Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The FSX Self-regulating Heating Cable comprises two parallel buswires housed within a semi-conductive self-limiting matrix. The semi-conductive self-limiting matrix is covered with a fluoropolymer insulation jacket which is then protected by an aluminium sheath or a metallic braid of either tinned copper or nickel-plated copper. An optional outer jacket of MFA, PFA or Silicone can be specified. The cables are rated at up to 100 W/m and 277 V.

Refer to Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: NO

Annex:

IECEx CML 20.0129 lss. 0 Certificate Annex.pdf

IECEx CML 20.0129 Issue 0 Annexe to:

Applicant: Flexelec S.A.

Apparatus: FSX Self-regulating Heating Cable



Description

The FSX Self-regulating Heating Cable comprises two parallel buswires housed within a semiconductive self-limiting matrix. The semi-conductive self-limiting matrix is covered with a fluoropolymer insulation jacket which is then protected by an aluminium sheath or a metallic braid of either tinned copper or nickel-plated copper. An optional outer jacket of MFA, PFA or Silicone can be specified. The cables are rated at up to 100 W/m and 277 V.

The cable is intended to be cut to length on site and the equipment is designed to be connected to a supply by means of suitable certified cable entries and junction boxes (i.e. Ex e or Ex d) in accordance with the manufacturer's installation instructions. Termination can be made using any suitably certified type termination kit which fully isolate, insulate and seal the conductive cores.

Description	Temperature
Max. continuous exposure temperature (Power ON)	225°C
Max. permissible exposure temperature (Power OFF)	225°C
Minimum installation temperature	-40°C

Conditions of Manufacture

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

- An electric strength test of 2 U+1000V rms shall be applied between the conductors and the outer braid or sheath as appropriate for 60 seconds in accordance with the requirements of IEC/IEEE 60079-30-1:2015 Ed. 1, clause 5.1.2.
- When fitted, an electric strength test of the polymeric sheath (over jacket) used for corrosion ii. resistance shall be carried out in accordance with the requirements of IEC/IEEE 60079-30-1:2015 Ed. 1, clause 5.2.1.
- iii. The manufacturer shall verify the output rating for each cable manufactured in accordance with the requirements of IEC/IEEE 60079-30-1:2015 Ed. 1, clause 5.2.2.
- The manufacturer shall demonstrate, through their quality program, the thermal safety of the iv. trace heating cable with respect to time in accordance with the requirements of IEC/IEEE 60079-30-1:2015 Ed. 1, clause 5.1.12.

Specific Conditions of Use

None.

Unit 1, Newport Business Park New Port Road Ellesmere Port CH65 4LZ



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