



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 12ATEX3136** Issue: **2**

4 Equipment: **FS+ Self-Regulating Heating Tape**

5 Applicant: **Heat Trace Limited**

6 Address: Meres Edge
Chester Road
Helsby
Frodsham WA6 0DJ
UK

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2009 EN 60079-7: 2007 EN 60079-30-1:2007 IEC 60079-31:2008

The above list of documents may detail standards that do not appear on the UKAS Scope of Accreditation, but have been added through Sira's flexible scope of accreditation, which is available on request.

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2GD
Ex e IIC T3 Gb
Ex tb IIIC T200°C Db IP67

Project Number 70063648

C Ellaby
Deputy Certification Manager

This certificate and its schedules may only be reproduced in its entirety and without change.

Sira Certification Service

Unit 6, Hawarden Industrial Park,
Hawarden, CH5 3US, United Kingdom



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

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13 DESCRIPTION OF EQUIPMENT

The FS+ 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 Silicone 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 75 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 suitably certified cable entries and junction boxes in accordance with the manufacturer's installation instructions. Termination can be made using termination kits suitable for the application and appropriately certified by a Notified Body.

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

Variation 1 - This variation introduced the following change:

- i. To recognise a correction of the cable cross-sectional dimensions on drawing no. HC2510.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	21 May 2012	R27152A/00	The release of the prime certificate.
1	17 December 2015	R70046968B	Issued to correct a typographical error in Condition 17.3
2	12 April 2016	R70063648A	The introduction of Variation 1.

15 SPECIAL CONDITIONS FOR SAFE USE (denoted by X after the certificate number)

None

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.



SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 12ATEX3136
Issue 2

17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.
- 17.3 An electric strength test of $2 U + 1000$ V rms shall be applied between the conductors and the outer braid or sheath as appropriate for 60 seconds as required by clause 5.1.2 of EN 60079-30-1:2007.
- 17.4 When fitted, an electric strength test of the polymeric sheath (overjacket) used for corrosion resistance shall be carried out in accordance with the requirements of EN 60079-30-1:2007 clause 5.2.1.
- 17.5 The manufacturer shall verify the output rating for each cable manufactured in accordance with EN 60079-30-1-2007 clause 5.2.2.
- 17.6 The manufacturer shall demonstrate, through their quality program, the thermal safety of the trace heating cable with respect to time as per EN 60079-30-1:2007 clause 5.1.12.

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Certificate Annexe



Certificate Number: Sira 12ATEX3136
Equipment: FS+ Self-Regulating Heating Tape
Applicant: Heat Trace Limited

Issue 0

Drawing No.	Sheets	Rev.	Date (Sira Stamp)	Title
HC2510/AE	1 of 1	1	10 Apr 12	Sira Certification for FS+

Issue 1 No new drawings were introduced.

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Description
HC2510	1 of 1	2	17 Mar 16	Sira Certification Drawing for Failsafe +

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