



EU Type Examination Certificate CML 19ATEX3386 Issue 3

1	Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU							
2	Equipment	FreezStop Ultimo Wide/FailSafe Ultimo Wide (FSUw) Self-Regulating Heating Cable						
3	Manufacturer	Heat Trace Limited						
4	Address	Mere's Edge, Chester Road, Helsby, Frodsham, Cheshire, WA6 0DJ,	Cromwell Road, Bredbury, Stockport, SK6 2RF,	Unit 9 Southside, Bredbury Industrial Estate, Bredbury, Stockport, SK6 2SP,	United Kingdom	United Kingdom	United Kingdom	Heat Trace Hitech Co., Ltd
								527-54, Daegotbuk-ro, Daegot-myeon Gimpo-si, Gyeonggi-do, 10028, Republic of Korea

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V., Chamber of Commerce No 67386717, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 12.

- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-30-1:2017

10 The equipment shall be marked with the following:

Ex II 2 GD

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Ex 60079-30-1 IIC T3 Gb¹

Ex 60079-30-1 IIC T2 Gb²

Ex 60079-30-1 IIIC T200°C Db¹

Ex 60079-30-1 IIIC T300°C
Db²

Withstand temp range: -40°C to +250°C

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

² Products rated above 75 W/m and for nominally rated 250 V products powered to a maximum 277 V







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11 Description

The FreezStop Ultimo Wide/FailSafe Ultimo Wide (FSUw) 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. An optional outer jacket of MFA, PFA or Silicone can be specified. The cables are rated at up to 140 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 the Heat Trace termination kits approved under CML 19ATEX3390U and CML 19ATEX3391U or any suitably certified type termination kit which fully isolate, insulate and seal the conductive cores.

Description	Temperature
Max. continuous exposure temperature (Power ON)	250°C
Max. permissible exposure temperature (Power OFF)	250°C
T- Rating	T3 up to and including 75W/m
	T2 above 75W/m
Minimum installation temperature	-40°C

Variation 1

This variation introduced the following changes:

- i. To update the standard reference from EN 60079-30-1:2007 to EN 60079-30-1:2017 and to update the equipment marking accordingly

Variation 2

This variation introduced the following changes:

- i. Introduction of alternative braid options with new product references
- ii. Correction from previous assessment to include additional manufacturing locations
- iii. Typographical correction to the product description

Variation 3

- i. To assess and permit a change to the sizes of the insulation jackets, conductive covering, and optional outer jackets.
- ii. To recognise a change to the trademark.



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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	09 Dec 2019	R12696A/00	Issue of Prime Certificate
1	19 May 2020	R13195A/00	Introduction of Variation 1
2	29 Jun 2022	R15271A/00	Introduction of Variation 2
3	29 Mar 2023	R16375A/00	Introduction of Variation 3

Note: Drawings that describe the equipment or component are listed in the Annex.

13 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 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 EN 60079-30-1:2017 clause 5.1.2.
- iii. When fitted, an electric strength test of the polymeric sheath (over jacket) used for corrosion resistance shall be carried out in accordance with the requirements of EN 60079-30-1:2017 clause 5.2.1.
- iv. The manufacturer shall verify the output rating for each cable manufactured in accordance with the requirements of EN 60079-30-1:2017 clause 5.2.2.
- v. The manufacturer shall demonstrate, through their quality program, the thermal safety of the trace heating cable with respect to time in accordance with the requirements of EN 60079-30-1:2017 clause 5.1.12

14 Specific Conditions of Use (Special Conditions)

None

Certificate Annex

Certificate Number CML 19ATEX3386

Equipment FreezStop Ultimo Wide/FailSafe Ultimo Wide (FSUw)
Self-Regulating Heating Cable

Manufacturer Heat Trace Limited



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
HC3410/C	1 of 1	10	09 Dec 2019	Certification Drawing for FreezStop/FailSafe Ultimo Wide
FSUw Markings	1 of 1	0	09 Dec 2019	FSUw Heating Cable – ATEX and IECEx Markings
FSUw Drum Label	1 of 1	0	09 Dec 2019	Cable Drum Label – For Cable Type FSUw
HTML-09/C	1 of 1	0	09 Dec 2019	Certification Drawing for FSUw Marking Label
HTML-10/C	1 of 1	0	09 Dec 2019	FSUw ATEX & IECEx Label

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
FSUw Markings	1 of 1	1	19 May 2020	FSUw Heating Cable – ATEX and IECEx Markings
HTML-09/C	1 of 1	1	19 May 2020	Certification Drawing for FSUw Marking Label
HTML-10/C	1 of 1	1	19 May 2020	FSUw ATEX & IECEx Label

Issue 2

Drawing No	Sheets	Rev	Approved date	Title
HC3410/C	1 of 1	12	28 Jun 2022	Certification Drawing for Freezstop/Failsafe Ultimo wide
FSUw Markings	1 to 2	2	28 Jun 2022	FSUw Heating Cable- ATEX and IECEx Markings

Certificate Annex

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Equipment FreezStop Ultimo Wide/FailSafe Ultimo Wide (FSUw)
Self-Regulating Heating Cable

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Drawing No	Sheets	Rev	Approved date	Title
HC3410/C	1 of 1	13	29/03/2023	CERTIFICATION DRAWING FOR FREEZSTOP/FAILSAFE ULTIMO WIDE
HTML-09/C	1 of 1	4	29/03/2023	CERTIFICATION DRAWING FOR FSUw MARKING LABEL
HTML-10/C	1 of 1	4	29/03/2023	FSUw ATEX, IECEEx UKEx LABEL
FSUw DRUM LABEL	1 of 1	2	29/03/2023	DRUM CABLE LABEL – FOR CABLE TYPE FSUw
FSUw MARKINGS	1 of 1	4	29/03/2023	FSUw HEATING CABLE – ATEX, IECEEx and UKEx MARKINGS
FSUw MARKINGS	2 of 2	4	29/03/2023	FSUw HEATING CABLE – ATEX, IECEEx and UKEx MARKINGS