



## EU Type Examination Certificate CML 19ATEX3386 Issue 3

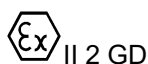
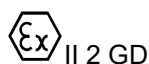
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **FreezStop Ultimo Wide/FailSafe Ultimo Wide (FSUw) Self-Regulating Heating Cable**
- 3 Manufacturer **Heat Trace Limited** **Heat Trace Hitech Co., Ltd**
- 4 Address 

|   |   |   |   |
|---|---|---|---|
| <b>Mere's Edge,<br/>Chester Road,<br/>Helsby, Frodsham,<br/>Cheshire, WA6 0DJ,<br/>United Kingdom</b> | <b>Cromwell Road,<br/>Bredbury,<br/>Stockport,<br/>United Kingdom</b> | <b>Unit 9 Southside,<br/>Bredbury Industrial<br/>Estate, Bredbury,<br/>Stockport, SK6 2SP,<br/>United Kingdom</b> | <b>527-54, Daegotbuk-ro,<br/>Daegot-myeon<br/>Gimpo-si,<br/>Gyeonggi-do, 10028,<br/>Republic of Korea</b> |
|---|---|---|---|
- 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 60079-30-1 IIC T3 Gb<sup>1</sup>

Ex 60079-30-1 IIC T2 Gb<sup>2</sup>

Ex 60079-30-1 IIIC T200°C Db<sup>1</sup>

Ex 60079-30-1 IIIC T300°C  
Db<sup>2</sup>

Withstand temp range: -40°C to +250°C

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

<sup>2</sup> 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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### Issue 3

| 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, IECEx 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, IECEx and UKEX MARKINGS       |
| FSUw MARKINGS   | 2 of 2 | 4   | 29/03/2023    | FSUw HEATING CABLE – ATEX, IECEx and UKEX MARKINGS       |