



EU Type Examination Certificate CML 19ATEX3033 Issue 1

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **HSB+**
- 3 Manufacturer **BARTEC GmbH**
- 4 Address Max-Eyth-Straße 16,
97980,
Bad Mergentheim
Germany
- 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 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, 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 60079-0:2012:A11:2013 EN 60079-30-1:2007 EN 60079-31:2014
- 10 The equipment shall be marked with the following:



II 2 G D

Ex e IIC T3 Gb

Ex tb IIIC T200°C Db

Applicable for products rated up to 75 W/m and 277 V max

Ex e IIC T2 Gb

Ex tb IIIC T300°C Db

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

IP66 / IP67



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11 Description

The HSB+ 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 or MFA/PFA 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 a.c.

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 an ExNB as appropriate.

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

- i. To assess and permit the addition of an alternative size of braid (0.180).
- ii. To assess and permit the addition of an alternative copper grade for the braid wire.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	22/02/2019	R12229C/00	Issue of CML BV Prime Certificate
1	25/04/2019	R12474B/00	Introduction of Variation 1

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.

- 13.1 An electric strength of $2 U + 1000V$ rms shall be applied between the conductors and the outer braid or sheath as appropriate for 60 seconds as required by EN 60079-30-1:2007 clause 5.1.2.
- 13.2 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.
- 13.3 The manufacturer shall verify the output rating for each cable manufactured in accordance with EN 60079-30-1:2007 clause 5.2.2.
- 13.4 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.

14 Specific Conditions of Use (Special Conditions)

None.

Certificate Annex



Certificate Number CML 19ATEX3033

Equipment HSB+

Manufacturer BARTEC GmbH

The following documents describe the equipment defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
01-584B-650001	1 of 1	A	22/02/2019	Label drawing Heating Cable HSB+ 07-584B-****/****
01-584B-650002	1 to 2	-	22/02/2019	Drum-Label Heating Cable HSB+ 07-584B-****/****

Issue 1

No Drawings.