

(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (2) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 02ATEX2327 U**
- (4) Components: : **Self Limiting Parallel-Heating Cable Type HSB 07-5803-xxxA**
- (5) Manufacturer: **BARTEC GmbH**
- (6) Address: **Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany**
- (7) These components and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that these components have been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the directive.

The examination and test results are recorded in confidential report no. 2025169.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 50014 : 1997**

**EN 50019 : 2000**

- (10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified components according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of these components. These are not covered by this certificate.
- (12) The marking of the components shall include the following:



**II 2 G EEx e II**

Arnhem, 18 March 2003  
KEMA Quality B.V.



T. Pijker  
Certification Manager

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## SCHEDULE

to EC-Type Examination Certificate KEMA 02ATEX2327 U

### Description

The Self Limiting Parallel-Heating Cable HSB type 07-5803-xxxA is used to set up electro-heat installations in potentially explosive atmospheres, e.g. for heating of piping, tanks or free surfaces.

Ambient temperature range of the heating cable (switched on): -40 °C +120 °C

Maximum surface temperature of the heating cable (switched on): +200 °C (temperature class T3)

Limiting temperature ( $T_p$ ) of the heating cable (switched off): +200 °C

### Electrical data

#### Rated voltage

- Type 07-5803-1xxA	110 Vac
- Type 07-5803-2xxA	230 Vac

#### Rated power

- Type 07-5803-x10A	10 W/m
- Type 07-5803-x15A	15 W/m
- Type 07-5803-x20A	20 W/m
- Type 07-5803-x25A	25 W/m
- Type 07-5803-x30A	30 W/m
- Type 07-5803-x45A	45 W/m
- Type 07-5803-x60A	60 W/m

### Installation instructions

To assure proper operation of the self limiting heating cables the installation instructions of the manufacturer are to be followed.

As applicable, the heating cable may be winded as a spiral around the heated object or longitudinal of the object. Where possible, for a better heat conduction the heating cable shall be applied flat to the heated object.

### Routine tests

According to Clause 7.1 of EN 50019, an electric strength test between live parts and the outer sheath shall be conducted, using a test voltage of 1460 (-0 %, +5 %) Vac and a test time of 1 minute or a voltage of 1,2 x 1460 V (-0 %, +5 %) for a test time between 3 - 5 seconds.

### Report

KEMA No. 2025169.

### (17) Special conditions for safe use

To prevent creases the minimum bending radius shall not be less than 25 mm.

The terminations of the heating cables shall comply with the requirements of an appropriate standard for electrical apparatus to be used in potentially explosive atmospheres.

In combination with terminations and if other accessories are used the applicable creepage distances and clearances shall be met.

(13)

## SCHEDULE

to EC-Type Examination Certificate KEMA 02ATEX2327 U

### Essential Health and Safety Requirements

Covered by the standards listed at (9)

(19) Test documentation

EC-Type Examination Certificate KEMA 02ATEX2285 U

	<u>dated</u>
2 Description (4 pages)	15.10.2002/ 14.03.2003
3 Example product marking (1 page)	14.03.2003