

# CERTIFICATE

## (1) EU-Type Examination

(2) **Component intended for use on/in equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 10ATEX0035 U** Issue Number: **3**

(4) Product: **Resistance Heating Cables and Cold Leads EKL Medium and EKL Premium Type 27-582\*-756\*/\*\*\*\***

(5) Manufacturer: **BARTEC GmbH**

(6) Address: **Max-Eyth-Straße 16, 97980 Bad Mergentheim, Germany**

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

(8) DEKRA Certification B.V., Notified Body number 0344 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 product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/KEM/ExTR10.0019/02.

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

**EN 60079-0 : 2012 + A11 : 2013**

**EN 60079-30-1 : 2017**

except in respect of those requirements listed at item 18 of the Schedule.

(10) The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



**II 2 G Ex 60079-30-1 IIC Gb**  
**II 2 D Ex 60079-30-1 IIC Db**

Date of certification: 26 September 2017

DEKRA Certification B.V.

R.H.D. Pommé  
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 10ATEX0035 U**

Issue No. 3

(15) **Description**

The series resistance Heating Cables and Cold Leads EKL Medium and EKL Premium Type 27-582\*-756\*/\*\*\*\* form electrical resistance trace heating which is used to raise or maintain the temperature of a work piece where it is externally applied to.

For thermal data, product ratings and nomenclature see Annex 1 to EU-Type Examination Certificate KEMA 10ATEX0035 U.

**Installation instructions**

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/KEM/ExTR10.0019/02.

(17) **Schedule of Limitations**

The maximum sheath temperatures of the series resistance Heating Cables and Cold Leads EKL Medium and EKL Premium Type 27-582\*-756\*/\*\*\*\* have not been verified. For application in ATEX Categories 2 G and 2 D the maximum sheath temperatures have to be verified by a Notified Body. Two methods are available:

1. By controlled design according to EN 60079-30-1 clause 4.5.3, verification of calculations in accordance with EN 60079-30-1 clause 5.1.13.3;
2. By stabilized design according to EN 60079-30-1 clause 4.5.2, verification of calculations in accordance with EN 60079-30-1 clauses 5.1.13.3.

Connections and terminations for installation with the heating and cold connection cables, EKL Medium und EKL Premium Type 27-582\*-756\*/\*\*\*\* have, shall be certified according to the requirements of the applicable standards for their types of protection for potential flammable gas or combustible dust atmosphere, or according to the requirements of EN 60079-30-1 as integral parts of this trace heating system.

When used in TT and TN systems a residual current device according to EN 60079-30-1, clause 4.4 point c) 1) shall be installed. When used in IT systems an insulation monitoring device according to EN 60079-30-1, clause 4.4 point c) 2) shall be used.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR10.0019/02.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 10ATEX0035 U**

Issue No. **3**

(20) **Certificate history**

Issue 1 - 213248400	Initial certificate.
Issue 2 - 218221300	Certification according to EN 60079-0:2012, EN 60079-31:2009 and addition of changed material identifier overjacket.
Issue 3 - 221595200	Certification according to A11:2013 of EN 60079-0:2012, EN 60079-30-1:2017 which replaced EN 60079-30-1:2007 as well as EN 60079-31:2009 and addition of 8 new resistances to the heating cables and cold leads.