



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

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 04 ATEX 1076 U

(4) Equipment: Heating cable connection system, type X-TRACE ATEX ...

(5) Manufacturer: INTERTEC-Hess GmbH

(6) Address: Raffineriestraße 8, 93333 Neustadt, Germany

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

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 04-13416.

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

EN 50014:1997+A1+A2

EN 50019:2000

EN 50281-1-1:1998

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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

II 2 G (or G/D) EEx e II (IP 65)

Zertifizierungsstelle Explosionsschutz

Braunschweig, 12. November 2004

By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor



(13) **SCHEDULE**

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 1076 U**

(15) Description of equipment

Heating cable connection system, type X-TRACE ATEX ... , for mineral-insulated single-wire heating cables, used for factory-produced complete heating systems, e.g. pipe trace heating systems.

Technical data

Rated voltage, max.	300 or 500 V *
Rated current, max.	10 A
Bending radius, min.	6 x d
Ambient temperature	-50 ... +60 °C
Operating temperature range (rated service)	-50 ... +180 °C

* depends on the heating cable used

(16) Test report PTB Ex 04-13416

(17) Special conditions for safe use

None

Additional notes for manufacturing and operation

1. The temperature class shall be defined in the EC type-examination certificate for the complete heating system.
2. For explosive dust atmospheres, the designs the manufacturer has provided with the required marking (II 2 G/D marking, see name plate) must be used.
3. The connecting cable shall be installed to provide for permanent wiring and protection against mechanical damage.
4. If connection is made in the potentially explosive area, the connecting lead (open-ended line) shall be connected by means of an enclosure that meets the requirements of a type of protection specified in EN 50014, section 1.2.
5. The maximum admissible ambient temperature, the self-heating rate and, if required, the thermal conduction (medium) shall be considered in determining the temperature for the operating temperature range (max. 180°C).
6. The manufacturer's instructions for operation shall be considered.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

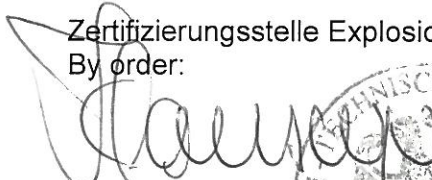
SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 1076 U

(18) Essential health and safety requirements

Met by compliance with the aforementioned Standards.

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. U. Klausmeyer
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Braunschweig, 12. November 2004