

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification Scheme for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx BVS 13.0042	2U issue No.:0	Certificate history:
Status:	Current		
Date of Issue:	2013-04-19	Page 1 of 4	
Applicant:	BARTEC GmbH Max-Eyth-Str. 16 97980 Bad Mergenth Germany	neim	
Electrical Apparatus: Optional accessory:	EMK single-core mi	ineral-insulated heating circuit Type	27-3641-*2**/****/***
Type of Protection:		e trace heating - General and testing by enclosure 't', Equipment protection	
Marking:	Ex e IIC Gb Ex tb IIIC Db		
Approved for issue on be Certification Body:	half of the IECEx	Dr. F. Eickhoff	
Position:		Deputy Head of Certification Body	у
Signature: (for printed version)		Qu'ello f	
Date:		2013 - 04-11	3
This certificate and scl	nedule may only be rep	produced in full.	

This certificate is not transferable and remains the property of the issuing body.
The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

DEKRA EXAM GmbH Dinnendahlstrasse 9 44809 Bochum Germany





IECEx Certificate of Conformity

Certificate No.:

IECEx BVS 13.0042U

Date of Issue:

2013-04-19

Issue No.: 0

Page 2 of 4

Manufacturer:

BARTEC GmbH Max-Evth-Str. 16 97980 Bad Mergentheim Germany

Additional Manufacturing location

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0: 2007-10

Explosive atmospheres - Part 0:Equipment - General requirements

Edition: 5

IEC 60079-30-1: 2007-

01

Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and

testing requirements

Edition: 1

IEC 60079-31: 2008

Edition: 1

IEC 60079-7: 2006-07

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition: 4

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report: DE/BVS/ExTR13.0045/00

Quality Assessment Report:

DE/TUN/QAR06.0017/04



IECEx Certificate of Conformity

Certificate No.:

IECEx BVS 13.0042U

Date of Issue:

2013-04-19

Issue No.: 0

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

1.) Subject and Type

EMK single-core mineral-insulated heating circuit type 27-3641-*2**/****/****

2.) Description

The EMK single-core mineral-insulated heating circuit type 27-3641-*2**/**** is a cable which is ready for connection. Cold leads are connected to both ends of the heating cable with the aid of welded or soldered pipe couplings

The ends of the cold leads are equipped with terminations. These terminations seal the MI-cable and they are also used as a cable entry to lead the ends of the cold leads into an enclosure in type of protection Increased safety "e" (for Gb) or into an enclosure in type of protection by enclosure "t" (for Db).

The mineral insulated heating cables are manufactured in various lengths and with various diameters, sheath materials and electrical resistances.

Temperature control and temperature monitoring is not a subject of this certificate of the heating cable.

3.) Parameters

rated voltage rated current	up to	AC 5	00 V
with cold lead 2.5 mm ²	up to		30 A
with cold lead 6 mm ²	up to		55 A
resistance of the cold leads	160 Ω/km 3 Ω/km 5x cable	up to	7 Ω/km
Permissible operating temperature at the terminations	-55	up to	70 °C

Permissible operating temperature of the cable -70 up to 650 °C Minimum installation temperature

-55°C

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.:

IECEx BVS 13.0042U

Date of Issue:

2013-04-19

Issue No.: 0

Page 4 of 4

EQUIPMENT(continued):

4.) Schedule of limitations

The installation has to comply with the parameters given in clause 3 (minimum bending radius, minimum installation temperature)

The cold leads of the heating cable have to be led into an enclosure in type of protection Increased safety "e" (for Gb) or into an enclosure in type of protection Protection by enclosure "t" (for Db).