IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEx PTB 09.0042U**

Certificate history:
Issue 2 (2020-12-14)
Issue 1 (2014-08-19)
Issue 0 (2010-01-08)

Status: **Current**

Issue No: 3

Date of Issue: 2025-08-18

Applicant: **Chemelex Belgium NV**
Research Park
Haasrode - Zone 2
Romeinse straat 14
Leuven B-3001
Belgium

Ex Component: Terminal and connection system type CS-150-UNI-PI

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased Safety 'eb', Protection by Enclosure 'tb'**

Marking: Ex eb IIC Gb

Ex tb IIIC Db

Approved for issue on behalf of the IECEx Certification Body: **Dr.-Ing. Stefan Essmann**

Position: **Head of Department "Explosion Protection in Energy Technology"**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany

Physikalisch-Technische Bundesanstalt
Braunschweig und Berlin

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Manufacturer:
Chemelex Belgium NV
Research Park
Haasrode - Zone 2
Romeinse straat 14
Leuven B-3001
Belgium

Manufacturing locations:

Chemelex Belgium NV
Research Park
Haasrode - Zone 2
Romeinse straat 14
Leuven B-3001
Belgium

Chemelex LLC
899 Broadway St.
Redwood City CA 94063
United States of America

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 component 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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

TEST & ASSESSMENT REPORTS:
A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/PTB/ExTR09.0049/02

Quality Assessment Reports:

GB/BAS/QAR06.0030/11 GB/BAS/QAR07.0053/11

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Ex Component(s) covered by this certificate is described below:

Description of the Ex Component

CS-150-UNI-PI is a universal low profile heating cable connector for the direct connection of XPI, XPI-S and XPI-F series heating cables. It can be used in different configurations: for the connection of a cold lead to a heating cable (Variant C), as an under insulation connecting system for the connection of a three core power cables to a heating cable loop (Variant L), as well as for splicing two heating cables (Variant S).

Technical data

Max. voltage:	
Variant S and C	750 Vac
Variant L	420 Vac
Max. current:	
Variant S	32 A
Variant C with 1 x 2.5 mm² cold lead	25 A
Variant C with 1 x 4 mm² cold lead	32 A
Variant L with 3 x 2.5 mm² cold lead	25 A
Min. installation temperature	-50 °C
Max. ambient temperature	+40 °C
Max. operating temperature:	
Power on	+180 °C
Power off	+210 °C

SCHEDULE OF LIMITATIONS:

1. CS-150-UNI-PI is used for installation with single core plastic insulated heating conductors, and the kit is for one time use only.
2. Only heating conductors should be used that are provided with a separate IECEx certificate. The installation instructions and technical data provided have to be considered.
3. The manufacturer shall prove that suitable measures have to be taken to safeguard safe and permanent clamping of heating conductors of a small across section.
4. The temperature class of each heat-tracing system shall be established separately.
5. The specific heating rate of the heating system shall be established with due regard to the voltage and spec. conductor resistance variations. Due regard shall also be given to the permissible current ratings.
6. The connecting cable(s) shall be selected with due regard, above all, to the maximum current rating, the permissible diameter of the rubber gaskets and the temperature conditions.
7. The required rubber gaskets shall be selected on the basis of the specifications in the installation instructions.
8. The installation of CS-150-UNI-PI shall be done by suitably trained installer, and the nVent's installation instruction must be followed at all times.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Name change to Chemelex Belgium NV and Chemelex LLC