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 08.0050U**

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Certificate history:
Issue 2 (2020-10-01)
Issue 1 (2014-08-19)
Issue 0 (2008-10-29)

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: Coupler type CS-150-..-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: **Electrical Resistance Trace Heating '60079-30-1'**

Marking: Ex 60079-30-1 IIC Gb

Ex tb 60079-30-1 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
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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 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-31:2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC/IEEE 60079-30-1:2015 Edition:1.0	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements

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/ExTR08.0062/02

Quality Assessment Report:

GB/BAS/QAR07.0053/11

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

General product information

CS-150-xx-PI is a connection sleeve for polymer-insulated single wire plastic heating cable. CS-150-xx-PI is designed to connect a PI cold lead cable to a XPI series heating cable as well as a splice two XPI heating cables.

Technical data

Rated voltage	XPI and XPI-S	450 / 750 Vac (U0 / U)
	XPI-F	300 / 500 Vac (U0 / U)
Rated current (for use with cold lead)*	2,5 mm²	32 A
	6 mm²	54 A
	25 mm²	129 A
Rated current (for use as a splice)	the max. allowed current is to be determined by the cable type and parameters like specific power and exposure temperature	
Resistance range**	0.8 ... 8000 Ohm/km	

* for more information see instruction manual

** depending on the heating cable used

Nomenclature

CS-150-xx-PI

xx stands for the area of the connecting sleeve: max. 2,5 mm² / 4 … 6 mm² / 10 … 25 mm²

SCHEDULE OF LIMITATIONS:

1. The temperature class has to be defined in the Certificate for the heating system.
2. The connection sleeve must be fixed. To avoid tensile stresses, the heating- and connection cables have to be fixed directly next to the sleeve.
3. The minimum bend radius is 2.5x the cable diameter for cables less than or equal to 6mm in diameter or the minimum bend radius is 6x the cable diameter for cables greater than 6mm in diameter.
4. The XPI- or XPI-F-cable is for use in areas with low risk of mechanical damage, therefore appropriate installation consideration shall be taken. The XPI-S-cable is for use in areas with normal risk of mechanical damage.
5. The electrical crimp connections have to be performed with the PI-TOOL-xx.
6. The manufacturer’s operating instructions must be complied with.

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