



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 CML 20.0024U** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 1 [Issue 0 \(2020-02-27\)](#)
Date of Issue: 2022-05-02
Applicant: **Nexans Network Solutions N.V. Division Euromold**
Zuid III Industrielaan 12
9320 Erembodegem
Belgium
Ex Component: EUROMOLD Separable Connectors
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"**
Marking: Ex eb IIC Gb
Ts = -20°C to +95°C

Approved for issue on behalf of the IECEx
Certification Body:

L A Brisk

Position:

Certification Officer

Signature:
(for printed version)

Date:
(for printed version)

2022-05-02

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:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: **IECEX CML 20.0024U**

Page 2 of 4

Date of issue: 2022-05-02

Issue No: 1

Manufacturer: **Nexans Network Solutions N.V. Division Euromold**
Zuid III Industrielaan 12
9320 Eredebodegem
Belgium

Manufacturing locations: **Nexans Network Solutions N.V. Division Euromold**
Zuid III Industrielaan 12
9320 Eredebodegem
Belgium

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 60079-7:2017](#) 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 Reports:

[GB/CML/ExTR20.0033/00](#)

[GB/CML/ExTR22.0067/00](#)

Quality Assessment Report:

[GB/CML/QAR19.0041/01](#)



IECEX Certificate of Conformity

Certificate No.: **IECEX CML 20.0024U**

Page 3 of 4

Date of issue: 2022-05-02

Issue No: 1

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

The EUROMOLD separable connectors are intended for cable attachment. They form an air and watertight seal around the connection. Refer to Annex for full description and conditions of manufacture.

SCHEDULE OF LIMITATIONS:

Refer to Annex for schedule of limitations.



IECEX Certificate of Conformity

Certificate No.: **IECEX CML 20.0024U**

Page 4 of 4

Date of issue: 2022-05-02

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Issue 1

This variation introduces the following modifications:

1. To assess and permit additional model 400AR-4BC.
2. To update the certificate to IEC 60079-7:2017 Ed.5.1

Annex:

[IECEX CML 20.0024U, Issue 1 Certificate Annex IECEx.pdf](#)

Annexe to: IECEx CML 20.0024U Issue 1
Applicant: Nexans Network Solutions N.V. – div. EUROMOLD
Apparatus: EUROMOLD Separable Connectors

Description

EPDM Product (Tee connector)

The EUROMOLD separable connectors are intended for cable attachment. They form an air and watertight seal around the connection.

With creepage paths eliminated by the moulded cable connector, creepage distances and clearances may be disregarded.

The connector has two functions:

- to connect a voltage cable to the equipment with a bushing,
- to protect the connection against external influences.

Some parts are cross section dependant. A cable reducer (CA) may be chosen according to the diameter over the core insulation.

The housing, with its inner conducting EPDM layer, keeps the interior of the totally enclosed connector system field-free. The outer EPDM layer is 3 mm thick and acts as outer conducting layer. At the same time this layer has a grounding lead ensuring continuous earthed connection between the cable screen and equipment earth.

The conductive EPDM jacket holds the exterior of the cable connector at earth potential.

The connector and equipment bushing have a conical fit, which functions according to the principle of the electrical seal.

Ratings:

Connection: Metric M16 or Imperial 5/8"

Service Temperature range: $T_s = -20^{\circ}\text{C}$ to $+95^{\circ}\text{C}$

Type of protection: Ex eb – Voltage: Up to 11 kV

Epoxy product (Bushing)

Outer-cone connector systems consisting of two separate parts: the separable, bolted connector and the receptacle or bushing. This bushing comes with a fixing flange/ring clamp and has a threaded contact.



Certificate Annex IECEx
 Version: 9.0 Approval: Approved

Eurofins E&E CML Limited
 Newport Business Park
 New Port Road
 Ellesmere Port
 CH65 4LZ

T +44 (0) 151 559 1160
 E info@cmlex.com

www.cmlex.com

Company Reg No. 8554022 VAT No. GB163023642

The electrical connection of the outer-cone connector system is done by screwing the moulded cable connector housing to the receptacle. Thus, the interface between the connector and the bushing is electrically sealed.

Type of connectors (EPDM)

K400TB(/G)	K430TB/G	K480TB/G	K440TB(/G)	K484TB/G
K489TB/G	K300PBM/G	K800PB/G	K804PB/G	K809PB/G
K440PB/G	400PB-XSA	300SA	800SA	400BE
480BE	K676LRA(/G)	K675BE	K784TB/G	K909TB
K944TB	K909PB	900BE	K900DR-B/G	

Type of bushings (Epoxy)

K400AR-3	K400AR-4	K400AR-6	400A-24B	K400CP-SC
K440CP	K670AR-2	K680CP	K900AR-1, -2, -3, -4	400AR-4BC

Capacity

Product / component	Conductor sizes (mm ²)		Max current (A)
	Minimum	Maximum	
K400TB(/G)	35	300	800
K430TB/G	35	300	1250
K480TB/G	35	300	1250
K440TB(/G)	185	630	1250
K484TB/G	240	630	1250
K489TB/G	630	1200	1250
K300PBM/G	35	300	800
K800PB/G	35	300	1250
K804PB/G	240	630	1250
K809PB/G	630	1200	1250
K440PB/G	185	630	800
400PB-XSA	N/A	N/A	N/A
300SA	N/A	N/A	N/A
800SA	N/A	N/A	N/A

K400BE/G	N/A	N/A	800
K480BE/G	N/A	N/A	1250
K676LRA(/G)	35	630	1250
K675BE	N/A	N/A	1250
K784TB/G	35	630	800/1250
K909TB/G	400	1200	2500
K944TB/G	95	800	2500
K909PB/G	400	1200	2500
K900BE/G	N/A	N/A	2500
K400AR-3	N/A	N/A	630
K400AR-4	N/A	N/A	1250
400AR-4BC	N/A	N/A	1250
K400AR-6	N/A	N/A	630
400A-24B	N/A	N/A	630
K400CP-SC	N/A	N/A	630
K440CP	N/A	N/A	1250
K670AR-2	N/A	N/A	1250
K680CP	N/A	N/A	1250
K900AR-1, -2, -3 & -4	N/A	N/A	1250/630/2500
K900DR-B/G	N/A	N/A	N/A

Conditions of Manufacture

- i. Each connector shall be subjected to a dielectric strength in accordance with EN/IEC 60079-7 Clause 7.1. The test shall be carried out at a voltage of 23 kV for at least 1 minute.

Specific Conditions of Use

- i. The service temperature range of the separable connectors is -20°C to +95°C. When used as part of equipment, this range shall not be exceeded.
- ii. A connector/bushing mated combination shall not carry the weight of the connected cable. The cable shall be clamped as close as possible to the connection.
- iii. The connector shall be additionally protected by a suitably certified enclosure that provides UV protection, impact protection and has an ingress protection rating of at least IP54
- iv. The separable connectors shall be tightened to a torque of 50 Nm in accordance with the instruction manual.
- v. Each connector shall be fitted with only one conductor. When several conductors are required, interface connectors shall be used.