



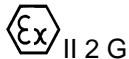
EU Type Examination Certificate CML 20ATEX3044U Issue 1

- 1 Components intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **EUROMOLD Separable Connectors**
- 3 Manufacturer **Nexans Network Solutions N.V. – div. EUROMOLD**
- 4 Address **Zuid III – Industrielaan 12, 9320 Erembodegem, Belgium**
- 5 The component is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 The 'U' suffix after the certificate number indicates that the component is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN IEC 60079-7:2015+A1:2018

- 10 The equipment shall be marked with the following:



II 2 G

Ex eb IIC Gb

Ts= -20°C to 95°C





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11 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 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: Ts = -20°C to +95°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.

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



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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



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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

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This variation introduces the following modifications:

- i. To assess and permit additional model 400AR-4BC.
- ii. To update the certificate to IEC 60079-7:2017 Ed.5.1 / EN IEC 60079-7:2015+A1:2018

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	27 Feb 2020	R12424A/00	Issue of Prime Certificate
1	02 May 2022	R15158A/00	Introductions of Variation 1.

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- 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.

14 Schedule of Limitations

The following conditions relate to safe installation and/or use of the equipment.

- 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.

Certificate Annex

Certificate Number CML 20ATEX3044U
Equipment EUROMOLD Separable Connectors
Manufacturer Nexans Network Solutions N.V. – div. EUROMOLD



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
C0534	1 of 1	B	27 Feb 2020	676 Bipa (Cu insert)
C0674	1 of 1	B	27 Feb 2020	1250A Bushing 670AR-2
C0726	1 of 1	B	27 Feb 2020	Conductive housing 400BT
C0727	1 of 1	B	27 Feb 2020	400BT molded & tested
C0729	1 of 1	B	27 Feb 2020	400 Bipa
C0739	1 of 1	B	27 Feb 2020	Conductive insert for 400BT
C0766	1 of 1	B	27 Feb 2020	400 AR-3 bushing
C0926	1 of 1	B	27 Feb 2020	Clamping screw
C0954	1 of 1	B	27 Feb 2020	400A in air bushing
C0991	1 of 1	B	27 Feb 2020	680 CP epoxy part
C0992	1 of 1	B	27 Feb 2020	680 CP metalized
C1042	1 of 1	B	27 Feb 2020	Conductive jacket 650 BLR (1)
C1043	1 of 1	B	27 Feb 2020	Conductive insert 650 BLR (1)
C1044	1 of 1	B	27 Feb 2020	Insulation molding 650 BLR
C1216	1 of 1	B	27 Feb 2020	400 TB/TE & marking
C1760	1 of 1	B	27 Feb 2020	K 600 BE & K 675 BE
C1781	1 of 1	B	27 Feb 2020	VD cap 600 A
C1933	1 of 1	B	27 Feb 2020	Conductive insert 440TB
C1934	1 of 1	B	27 Feb 2020	Insulation molding 440TB
C1982	1 of 1	C	27 Feb 2020	411CA-xx molded
C1987	1 of 1	B	27 Feb 2020	RLT mastic strip
C1990	1 of 1	C	27 Feb 2020	611CA-xx Molded
C2186	1 of 1	A	27 Feb 2020	Conductive insert 400SA
C2213	1 of 1	B	27 Feb 2020	1250A connecting plug 440CP
C2318	1 of 1	A	27 Feb 2020	400PBxSA-N assy
C2326	1 of 1	B	27 Feb 2020	400AR-4/MP501 epoxy molding
C2446	1 of 1	A	27 Feb 2020	Jacket-944BT
C2447	1 of 1	A	27 Feb 2020	Insert-944BT
C2448	1 of 1	A	27 Feb 2020	944BT
C2455	1 of 1	A	27 Feb 2020	Bimetallic contact for 944BT

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Manufacturer Nexans Network Solutions N.V. – div. EUROMOLD



Drawing No	Sheets	Rev	Approved date	Title
C2642	1 of 1	A	27 Feb 2020	900TBC-xx-11-2
C2667	1 of 1	A	27 Feb 2020	300BIPR
C2672	1 of 1	A	27 Feb 2020	Conductive jacket 430BT
C2673	1 of 1	A	27 Feb 2020	K (M) 430BT
C2674	1 of 1	A	27 Feb 2020	300 BP insert
C2696	1 of 1	B	27 Feb 2020	430CA
C2787	1 of 1	A	27 Feb 2020	K (M) 430BT/G
C2801	1 of 1	A	27 Feb 2020	CAP 430TB
C2802	1 of 1	A	27 Feb 2020	Clamping screw
C2806	1 of 1	A	27 Feb 2020	Conductive insert 300SA
C2844	1 of 1	A	27 Feb 2020	Conductive insert for 430TB
C2946	1 of 1	A	27 Feb 2020	Bushing interface C 400AR-6
C2975	1 of 1	B	27 Feb 2020	Conductive housing 400SA
C2976	1 of 1	B	27 Feb 2020	400SA
C3013	1 of 1	A	27 Feb 2020	Conductive housing 804BP
C3014	1 of 1	A	27 Feb 2020	804BP
C3015	1 of 1	A	27 Feb 2020	Conductive housing 484BT
C3016	1 of 1	A	27 Feb 2020	(K) (M) (P) 484BT
C3063	1 of 1	B	27 Feb 2020	Conductive insert 804BP
C3099	1 of 1	-/-	27 Feb 2020	800/858Bipa
C3126	1 of 1	-/-	27 Feb 2020	Stud/nut/washer
C3150	1 of 1	A	27 Feb 2020	800SA
C3151	1 of 1	-/-	27 Feb 2020	Conductive housing 800SA
C3165	1 of 1	A	27 Feb 2020	900AR-1
C3166	1 of 1	A	27 Feb 2020	900AR-2
C3167	1 of 1	A	27 Feb 2020	900AR-3
C3168	1 of 1	A	27 Feb 2020	900AR-4
C3271	1 of 1	A	27 Feb 2020	Conductive insert 484BT
C3277	1 of 1	-/-	27 Feb 2020	804PB/809PB contact assy
C3290	1 of 1	A	27 Feb 2020	(K) (M) (P) 484TB/G
C3291	1 of 1	A	27 Feb 2020	(K) (M) (P) 804PB/G
C3296	1 of 1	-/-	27 Feb 2020	Conductive housing (jacket) 489BT
C3297	1 of 1	-/-	27 Feb 2020	Insert 489BT

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Drawing No	Sheets	Rev	Approved date	Title
C3298	1 of 1	-/-	27 Feb 2020	Insulation 489BT
C3324	1 of 1	-/-	27 Feb 2020	Insulation 809PB
C3345	1 of 1	-/-	27 Feb 2020	Insert 809PB
C3348	1 of 1	-/-	27 Feb 2020	Insert 909BT
C3349	1 of 1	-/-	27 Feb 2020	Insert 909PB
C3352	1 of 1	-/-	27 Feb 2020	Insulation 900BT
C3353	1 of 1	-/-	27 Feb 2020	Insulation 909PB
C3354	1 of 1	-/-	27 Feb 2020	Conductive housing (jacket) 809PB
C3357	1 of 1	-/-	27 Feb 2020	Conductive housing (jacket) 909BT
C3358	1 of 1	-/-	27 Feb 2020	Conductive housing (jacket) 909PB
C3359	1 of 1	-/-	27 Feb 2020	911CA-XX
C3364	1 of 1	A	27 Feb 2020	800SA-10-xN (1)
C3365	1 of 1	A	27 Feb 2020	800SA-10-xN (2)
C3378	1 of 1	-/-	27 Feb 2020	900Bipa (outsourced)
C3381	1 of 1	A	27 Feb 2020	Conductive jacket 300sa / 300PB
C3383	1 of 1	A	27 Feb 2020	300BP modular connector
C3384	1 of 1	A	27 Feb 2020	300SA insulation, molding & testing
C3385	1 of 1	A	27 Feb 2020	300SA-10-xN (1)
C3386	1 of 1	A	27 Feb 2020	300SA-10-xN (2)
C3392	1 of 1	-/-	27 Feb 2020	VD CAP 900
C3407	1 of 1	-/-	27 Feb 2020	BUS 909PB
C3408	1 of 1	-/-	27 Feb 2020	909BP contact assy
C3448	1 of 1	-/-	27 Feb 2020	(M)/(P)-489TB/G
C3495	1 of 1	-/-	27 Feb 2020	909BT/G
C3496	1 of 1	-/-	27 Feb 2020	909PB/G
C3511	1 of 1	-/-	27 Feb 2020	Stud-nut/washer F-interface
C3536	1 of 1	-/-	27 Feb 2020	480BT
C3537	1 of 1	-/-	27 Feb 2020	(K)(M)(P) 800PB
C3620	1 of 1	-/-	27 Feb 2020	400BE
C3625	1 of 1	-/-	27 Feb 2020	480BE
C3628	1 of 1	-/-	27 Feb 2020	900BE
C3684	1 of 1	-/-	27 Feb 2020	Conductive insert 784BT
C3685	1 of 1	-/-	27 Feb 2020	Conductive housing (jacket) 784BT

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Drawing No	Sheets	Rev	Approved date	Title
C3686	1 of 1	-/-	27 Feb 2020	784BT Insulation
C3687	1 of 1	-/-	27 Feb 2020	STUD-NUD 5/8" & washer
C3703	1 of 1	-/-	27 Feb 2020	400BE/G
C3704	1 of 1	-/-	27 Feb 2020	400BE/G-Groundlead assy
C3705	1 of 1	-/-	27 Feb 2020	900BE/G
C3740	1 of 1	-/-	27 Feb 2020	784TB/G
C4025	1 of 1	-/-	27 Feb 2020	CAO-xx
CA0894	1 to 4	C	27 Feb 2020	400TB and 400AR-3 connector
IS003	1 to 4	7	27 Feb 2020	Product lot identification markings
M2767	1 of 1	D	27 Feb 2020	ATEX marking sticker
M2787	1 of 1	L	27 Feb 2020	K(M)430BT/G
M3694	1 of 1	A	27 Feb 2020	(K) (M) (P) 480BT/G
SD 500/E	1 of 1	1	27 Feb 2020	Connecting plug
SD 575/E	1 of 1	1	27 Feb 2020	Connecting plug
S-SD 022	1 of 1	2	27 Feb 2020	Type C, D & E - Tee connectors
S-SD 023	1 of 1	1	27 Feb 2020	Type C, D & E - Tee connectors
S-SD 024	1 of 1	1	27 Feb 2020	Type C, D & E - Tee connectors
S-SD 025	1 of 1	1	27 Feb 2020	Type C, D & E - Tee connectors

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Drawing No	Sheets	Rev	Approved date	Title
C4117	1 of 1	A	02 May 2022	400AR-4BC/J
-	1 to 14	-	02 May 2022	Certification file
FM198	1 to 16	1	02 May 2022	ATEX, IECEx & UKEx Certification File K400AR-4BC