



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 CML 18.0180X Issue No: 0 Certificate history:
Issue No. 0 (2019-03-26)

Status: **Current** Page 1 of 3

Date of Issue: **2019-03-26**

Applicant: **CMP Products Ltd**
Unit 36 Nelson Way, Nelson Park East, Cramlington, Northumberland, NE23 1WH
United Kingdom

Equipment: **Cable Gland Types C****
Optional accessory:

Type of Protection: **Increased Safety "eb", Equipment by type of protection "nR", Dust Ignition "ta"**

Marking:
Ex eb IIC Gb
Ex nR IIC Gc (not applicable to CXe and CWe)
Ex ta IIIC Da
Ta= -60°C to +130°C (standard seal) / -20°C to +200°C (high temperature seal)

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:
(for printed version)

Date:

2019-03-26

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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Manufacturer: **CMP Products Ltd**
Unit 36 Nelson Way, Nelson Park East, Cramlington, Northumberland, NE23 1WH
United Kingdom

Additional Manufacturing location(s):

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 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 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-15 : 2017 Edition:5.0	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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:

[GB/CML/ExTR19.0052/00](#)

Quality Assessment Report:

[GB/CML/QAR19.0001/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The C** series Type ranges of cable glands consist of a male-threaded front entry component, which is intended to screw into an entry point of its associated enclosure in accordance with relevant codes of practice. Clamping of the armour or braid is affected by a combination of the front entry component, main body and the different optional armour cone and armour sleeve combinations being fastened together. An outer seal nut, containing an elastomeric sealing ring and a Nylon 6 ferrule, threads onto the main body and effects environmental sealing onto the cable outer sheath.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for specific conditions of use.

Annex:

[IECEX CML 18.0180X Iss. 0 Certificate Annex.pdf](#)

Annexe to: IECEx CML 18.0180X Iss. 0
Applicant: CMP Products Ltd
Apparatus: Cable Gland Types C**



Description

The C** series Type ranges of cable glands consist of a male-threaded front entry component, which is intended to screw into an entry point of its associated enclosure in accordance with relevant codes of practice. Clamping of the armour or braid is affected by a combination of the front entry component, main body and the different optional armour cone and armour sleeve combinations being fastened together. An outer seal nut, containing an elastomeric sealing ring and a Nylon 6 ferrule, threads onto the main body and effects environmental sealing onto the cable outer sheath

Design options

The front entry component may be manufactured with a profiled groove to captivate an O-ring seal which locates on the mating face with the associated enclosure. This option having the gland type designation prefixed with the letter R, e.g. 25RC2K

The C2K can be supplied with a cone dedicated to SWA cable and known as the C2KW, or with a cone dedicated to braid or tape armours and known as the C2KX.

Materials of manufacture:

The standard material supplied is:

Brass	BS EN 12164:2011/ BS EN 12168:2011 Grade CuZn39Pb3 (CW614N) All brass manufactured component parts can be optionally nickel plated to a maximum of 0.008mm
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Alternate materials are:

Stainless steel	BS EN 10088-3:2014 Grades 316S11, 316S13, 316S31, 316S33, 316L
Mild steel	BS EN 10277-2:2008 Grades 220M07, 230M07 (EN1A) / 220M07Pb, 230M07Pb (EN1APb)
Aluminium	BS EN 573-3:2013 / BS EN 755-1-3:2008 Grade 6082 T6, 6262 T6 / BS EN 1676:2010 Grade LM25 TF Aluminium will contain less than 6% magnesium

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Alternative entry component thread forms:

Metric	ISO 965-1, ISO 965-3 medium fit (6g) for external threads
ET (Conduit)	BS31:1940 (1979), Table A
PG	DIN 40430:1971
BSPP	BS2779:1986 class A full form for external threads
BSPT	BS21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
ISO	ISO 7/1:1994, gauging to ISO 7/2 clause 6.3 for external threads
NPT	ANSI/ASME B1.20.1-2013 gauging to clause 3.2 for external threads
NPSM	ANSI/ASME B1.20.1-2013 gauging to clause 6.4 for external threads

The option to manufacture glands with entry threads that are one size up from the nominal quoted gland size.

The use of alternative armour clamping components. The various arrangements vary the cable gland suitability for differing armour or braided type cables.

The use of a component having an alternative profile allowing an integral earthing facility. The type designation identifying the cable gland being fitted with this option.

The use of an earthing device component specified by the cable gland type designation for use with variable speed drive (VSD)/variable frequency drive (VFD) cables.

Alternative material of manufacture of the ferrule or skid washer to be the same as the gland material.

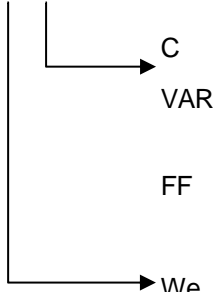
Alternative outer seal arrangement to allow the glands to be attached to flexible conduit.

The gland and seal sizes are determined by the entry thread and cable range take sizes:

The option to fit a flat blanking disc between the outer seal and the main body to maintain a minimum IP66 rating. The disc is to be marked 'Ex e only'.

Type designation code:

C *** ***

	<p>C Fitted with the alternative cast integral earth lug entry component</p> <p>VAR Fitted with an additional metallic continuity device for use with variable speed drive (VSD) / variable frequency drive (VFD) cables</p> <p>FF Fitted with seals suitable for use with flat form cables</p> <p>We Fitted with single plain armour cone and reversible armour sleeve to suit S.W.A. armoured cables</p> <p>Xe Fitted with single grooved armour cone and reversible armour sleeve to suit S.W.A., S.T.A., P.W.A., and strip armoured and braided cables</p> <p>2K Fitted with a deluge seal, reversible armour cone and reversible armour sleeve to suit S.W.A., S.T.A., P.W.A., and strip armoured and braided cables</p> <p>2KW Fitted with a deluge seal, a single plain armour cone and reversible armour sleeve to suit S.W.A. armoured cables</p> <p>2KX Fitted with a deluge seal, a single plain armour cone and reversible armour sleeve to suit S.W.A., S.T.A., P.W.A., and strip armoured and braided cables</p> <p>VAR Optional construction where the cone and sleeve assembly are replaced by a metallic continuity device for use with variable speed drive (VSD) / variable frequency drive (VFD) cables</p>
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The gland and seal sizes are determined by the entry thread and cable range take sizes:

Gland size	Entry thread	Entry thread 'B' version	Cable inner sheath Ø (mm)	SWA (mm)		SWA, STA, strip armour, pliable wire armour* & wire braid (mm)		Outer seal sheath range (mm)	
				Max.	Min.	Max.	Min.	Max.	Min.
16	M16 x 1.5	-	8.7	0.8	1.25	0	0.8	6.1	13.2
20s/16	M20x1.5	M25 x 1.5	8.7	0.8	1.25	0	0.8	6.1	13.2
20s	M20 x 1.5	M25 x 1.5	11.7	0.8	1.25	0	0.8	9.5	15.9
20	M20 x 1.5	M25 x 1.5	14.0	0.8	1.25	0	0.8	12.5	20.9
25s	M25 x 1.5	M32 x 1.5	20.0	1.25	1.6	0	1.1	14.0	22.0
25	M25 x 1.5	M32 x 1.5	20.0	1.25	1.6	0	1.1	18.2	26.2
32	M32 x 1.5	M40 x 1.5	26.3	1.6	2.0	0	1.2	23.7	33.9
40	M40 x 1.5	M50 x 1.5	32.2	1.6	2.0	0	1.2	27.9	40.4
50s	M50 x 1.5	M63 x 1.5	38.2	2.0	2.5	0	1.5	35.2	46.7
50	M50 x 1.5	M63 x 1.5	44.1	2.0	2.5	0	1.0	40.4	53.1
63s	M63 x 1.5	M75 x 1.5	50.0	2.0	2.5	0	1.0	45.6	59.4
63	M63 x 1.5	M75 x 1.5	56.0	2.0	2.5	0	1.0	54.6	65.9
75s	M75 x 1.5	M90 x 2.0	62.0	2.0	2.5	0	1.0	59.0	72.1
75	M75 x 1.5	M90 x 2.0	68.0	2.5	3.0	0	1.0	66.7	78.5
90	M90 x 2.0	M100 x 2.0	80.0	3.0	3.5	0	1.6	76.2	90.4
100	M100 x 2.0	M115 x 2.0	91.0	3.15	4.0	0	1.6	86.1	101.5
115	M115 x 2.0	M130 x 2.0	98.0	3.15	4.0	0	1.6	101.5	110.3
130	M130 x 2.0	N / A	115.0	3.15	4.0	0	1.6	110.2	123.3

* - 'Xe' and '2K versions only

C*-FF in these sizes only.

Gland Size	Entry Thread	Entry thread 'B' version	Cable Outer Sheath Ø (mm)	
			Min.	Max.
20s	M20x1.5	M25x1.5	4.4 x 7.8	6.8 x 11.7
20	M20x1.5	M25x1.5	4.4 x 10.9	8.7 x 16.0

**Notes:**

- Sira 13ATEX1070X, Sira 13ATEX4076X and IECEx SIR 13.0025X is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 13ATEX1070X, Sira 13ATEX4076X and IECEx SIR 13.0025X.
- Where Sira 13ATEX1070X, Sira 13ATEX4076X and/or IECEx SIR 13.0025X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

Conditions of Manufacture

None.

Specific Conditions of Use (Special Conditions)

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

- i. When the cable glands are supplied with an entry thread that is one size up from the nominal gland size, designated with the letter 'B' after the gland size, e.g. 32B****, they shall not be used with any adaptor device.
- ii. The glands when used for terminating braided cables are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.
- iii. When assembled for fitting to flexible conduit, the conduit shall be effectively clamped to prevent pulling or twisting.