



CERTIFICATE NUMBER	21-2090433-PDA
EFFECTIVE DATE	09-Mar-2021
EXPIRY DATE	08-Mar-2026
ABS TECHNICAL OFFICE	London Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

CMP PRODUCTS LTD.

located at

**36 NELSON WAY, NELSON PARK EAST, CRAMLINGTON, United
Kingdom, NE23 1WH**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Cable, Glands and Accessories
Model: A2E, CWe, CXe, C2KX, and C2K
Endorsements:
Tier: 3 - Type Approved, unit certification not required

This Product Design Assessment (PDA) Certificate remains valid until 08/Mar/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping


Steve A.A.P Brincat, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

CMP PRODUCTS LTD.

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Web: www.cmp-products.com

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Product: Cable, Glands and Accessories
Model: A2E, CWe, CXe, C2KX, and C2K
Endorsements:

Intended Service:

ABS Classed Vessels and Offshore Installations in accordance with the listed ABS Rules and International Standards.

Description:

Cable Gland models A2E, CWe, CXe, C2KX, C2K are designed for explosive atmospheres.

A2E glands are metallic and are intended to terminate circular braided or unarmored cables into a threaded entry point within enclosures without compromising the explosion protection. They consist of a male-threaded front entry component and a seal actuation nut. The seal actuation nut provides a flameproof and environmental seal onto the cable outer sheath.

CWe glands consists of a male-threaded front entry component, which is intended to screw into an entry point of an associated enclosure. Fitted with a single plain armor cone and reversible armor sleeve to suit S.W.A. armored cables. An outer seal threads onto the main body and creates an environmental seal around a cables outer sheath. An optional O-Ring may be fitted to the entry thread, providing improved ingress protection.

CXe glands consists of a male-threaded front entry component, which is intended to screw into an entry point of an associated enclosure. Fitted with a single grooved armor cone and reversible armor sleeve to suit S.W.A., S.T.A., P.W.A., strip armored and braided armored cables. An outer seal threads onto the main body and creates an environmental seal around a cables outer sheath. An optional O-Ring may be fitted to the entry thread, providing improved ingress protection.

C2K glands consists of a male-threaded front entry component, which is intended to screw into an entry point of an associated enclosure. A deluge seal is assembled between the entry item and body components. Fitted with a reversible armor cone and reversible armor sleeve to suit S.W.A., S.T.A., P.W.A., strip armored and braided armored cables. An outer seal threads onto the main body and creates an environmental seal around a cables outer sheath. An optional O-Ring may be fitted to the entry thread, providing improved ingress protection.

C2KX consists of a male-threaded front entry component, which is intended to screw into an entry point of an associated enclosure. A deluge seal is assembled between the entry item and body components. Fitted with a single grooved armor cone and reversible armor sleeve braided armored cables. An outer seal threads onto the main body and creates an environmental seal around a cables outer sheath. An optional O-Ring may be fitted to the entry thread, providing improved ingress protection.

Rating:

A2E

Type of Protection:Flameproof, Increased Safety, Restricted Breathing, and Dust Protection

Marking:Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da (IECEx CML 18.0179X)

EX II 2G Ex db IIC Gb, Ex eb IIC Gb, EX II 1D Ex ta IIIC Da (CML 18ATEX1321X)

EX II 3G Ex nR IIC Gc (CML 18ATEX4313X)

CWe, CXe , C2KX and C2K

Type of Protection:Increased Safety, Restricted Breathing and Dust Protection

Marking:Ex eb IIC Gb / Ex ta IIIC Da, Ex nR IIC Gc (not applicable to CXe and CWe) (IECEx CML 18.0180X)

EX II 2G Ex eb IIC Gb, Ex II 1D ta IIIC Da CML (18ATEX1323X)

EX II 3G Ex nR IIC Gc (18ATEX4315X) (not applicable to CXe and CWe)

Ingress Protection:IP66, IP67 & IP68 (10m depth)

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Tier: 3 - Type Approved, unit certification not required

Ambient temperature: -60 C to +130 C degrees when fitted with the standard seal and -20 C to +200 C degrees when fitted with the high temperature seal.

Service Restriction:

Unit Certification is not required for this product.

If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

1. For NEC installations, marine shipboard cable may be used instead of rigid conduit, if installed fittings are approved for the specific hazardous location and cable type.
2. Explosion Proof and Flameproof equipment - Explosion Proof equipment must be approved as meeting UL 1203. Flameproof equipment must be approved as meeting IEC 60079-1.
3. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
4. The installation of cable glands has to be inline with "Specific Conditions of Use" described in Ex Certificates.

Notes/Drawing/Documentation:

Drawing No. CML 18ATEX1321X, EU Type Examination Certificate - Cable Gland Types A**, Revision: 1, Pages:6

Drawing No. CML 18ATEX1323X, EU Type Examination Certificate - Cable Gland Types C**, Revision: 0, Pages: 6

Drawing No. CML 18ATEX4313X, Type Examination Certificate - Cable Gland Types A**, Revision: 1, Pages: 6

Drawing No. CML 18ATEX4315X, EU Type Examination Certificate - Cable Gland Types C**, Revision: 0, Pages: 6

Drawing No. IECEx CML 18.0179X, IEC Certification - Cable Gland Types A**, Revision: 1, Pages: 8

Drawing No. IECEx CML 18.0180X, IEC Certification - Cable Gland Types C**, Revision: 0, Pages: 8

Drawing No. CMP_EN 62444 IEC62444 Sira_Certificate IOY9 I 48U _lss3, Revision: -, Pages: 3

Drawing No. 2012I016-E200163, UL Certificate of compliance, Revision: -, Pages: 1

Terms of Validity:

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STANDARDS

ABS Rules:

- Marine Vessels Rules (2021): 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/13.3, 4-8-4/27.5.1;
- Facilities on Offshore Installations (2021): 1-1-4/9.7, 1-1-A2, 1-1-A3;
- Mobile Offshore Units (2021): 1-1-4/9.7, 1-1-A3, 1-1-A4, 6-1-1/9, 6-1-1/13; 4-3-1/9, 4-3-1/11, 4-3-1/17;
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2021): 1-1-4/7.7, 1-1-A3, 1-1-A4;
- High Speed Crafts (2021): 1-1-4/11.9, 1-1-A2, 1-1-A3; 4-6-3/9.1;
- Steel Barge Rules (2021): 1-1-4/7.9, 1-1-A3, 1-1-A4;

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National:

UL514B (Only C2KX)

International:

A2E, CXe, CWe, C2K, C2KX

EN 62444:2013

A2E

IEC 60079-0 Ed 7.0 :2017, IEC 60079-1 Ed 7.0:2014-06, IEC 60079-7 Ed 5.1:2017, IEC 60079-15 Ed 5.0:2017, IEC 60079-31 Ed 2.0:2013

EN 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A12018, EN 60079-15:2019, EN 60079-31:2014

CXe, CWe, C2K, C2KX

IEC 60079-0 Ed 7.0 :2017, IEC 60079-7 Ed 5.1:2017, IEC 60079-15 Ed 5.0:2017, IEC 60079-31 Ed 2.0:2013

EN 60079-0:2018, EN 60079-1:2014, EN 60079-7:2015+A12018, EN 60079-31:2014 (EN 60079-15:2019 is not applicable to CXe and CWe)

Government:

NA

EUMED:

NA

OTHERS:

NA