



CERTIFICATE NUMBER  
16-LD1478091-PDA

DATE  
23 Feb 2016

ABS TECHNICAL OFFICE  
London Engineering Department

# CERTIFICATE OF DESIGN ASSESSMENT

This is to certify that a representative of this Bureau did, at the request of  
**CMP PRODUCTS LTD.**

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: **CWe, CXe, A2E, C2KX, B2KX, C2K**

This Product Design Assessment (PDA) Certificate 16-LD1478091-PDA, dated 23/Feb/2016 remains valid until 22/Feb/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

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 the terms and conditions as contained in ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010).

**CMP PRODUCTS LTD.**

36 NELSON WAY

NELSON PARK EAST

CRAMLINGTON

United Kingdom NE23 1WH

Telephone: +44 191 265 7411

Fax: +44 1670 715 646

Email: customerservices@cmp-products.com

Web: www.cmp-products.com

**Tier: 3 - Type Approved, unit certification not required**

TC

**Product:** Cable, Glands and Accessories**Model:** CWe, CXe, A2E, C2KX, B2KX, C2K**Intended Service:**

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

**Description:**

Cable Glands and connectors Certified for Increased-Safety Type, Models CWe, CXe, A2E, C2KX, B2KX (when installed in compliance with NEC requirements), C2K

**Rating:**

A2E: Ex e IIC Gb; Ex ta IIIC Da, Ex nR IIC Gc.

C2K: Ex e IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc.

CWe &amp; CXe: Ex e IIC Gb &amp; Ex ta IIIC Da.

C2KX: Ex e IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc.

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:**

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.

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.

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**

Drawing No. CMP\_EN62444\_IEC62444 Sira\_Certificate 10Y9148U\_Iss3, Sira\_Certificate 10Y9148U\_Iss3,

Revision: -, Pages: 3

Drawing No. CMP\_A2F\_A2FRC\_A2E\_A2FFC\_IECEX SIR 13, Sira\_certificate IECEX Sir 13.0023X, Revision: 3, Pages: 8

Drawing No. CMP\_CWe\_CXe\_C2K\_IECEX SIR 13, Sira\_Certificate IECEX SIR 13.0023X, Revision: 0, Pages: 5

Drawing No. GB-SIR\_EXTR14.0282.00, Variation to certificate numbers IECEX SIR 13.0023X, Sira 13ATEX1068X and Sira 13ATEX4074X

Drawing No. GB/SIR/ExTR13.0066/00, Assessment of a number of ranges of cable glands for ATEX and IECEX certification, Revision: 0, Pages: 62

Drawing No. GB/Sir/ExTR14.0307/00, Variation to certificate numbers IECEX SIR 13.0023X, Sira 13ATEX1068X and Sira 13ATEX4074X, Revision: 0, Pages: 14

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate 16-LD1478091-PDA, dated 23/Feb/2016 remains valid until 22/Feb/2021 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

**CMP PRODUCTS LTD.**

36 NELSON WAY

NELSON PARK EAST

CRAMLINGTON

United Kingdom NE23 1WH

Telephone: +44 191 265 7411

Fax: +44 1670 715 646

Email: customerservices@cmp-products.com

Web: www.cmp-products.com

**Tier: 3 - Type Approved, unit certification not required**

---

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

**STANDARDS**

**ABS Rules:**

- Steel Vessel Rules (2016): 1-1-4/7.7, 1-1-A3&A4, 4-8-3/13.3, 4-8-4/27.5.1
- Steel Vessels Under 90 Meters (295 Feet) in Length (2016): 1-14/7.7, 1-1-A3&A4, 4-6-1/3.9.2
- Offshore Support Vessels (2016): 1-1-4/7.7, 1-1-A3&A4, 1-1-A3&A4, 4-8-3/13.3, 4-8-4/27.5.1
- Mobile Offshore Drilling Units Rules (2016): 1-1-4/9.7, 1-1-A2&A3, 4-3-1/3.7
- Steel Vessels for Service on Rivers and Intracoastal Waterways (2015): 1-1-4/7.7, 1-1-A3&A4
- High-Speed Craft (2016): 1-1-4/11.9, 1-1-A2&A3
- Steel Barge Rules (2016): 1-1-4/7.7, 1-1-A3&A4

**National:**

EN 62444:2013, BS 6121, BS EN 60079 Part 0, 7; UL514B (Only C2KX, B2KX)

**International:**

USCG CFR - 46 (Section 33 of IEC Std 45);  
EN 60079-1: 2007 Ed. 6.0; EN 60079-7:2006 ed. 4.0 ; EN 60079-15: 2010 Ed. 4.0; EN 60079-31:2008 Ed. 4.0; IEC 62444: 2010 Ed 1.0

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA

TC