



CERTIFICATE NUMBER
EFFECTIVE DATE
EXPIRY DATE
ABS TECHNICAL OFFICE

25-0285992-PDA
20-May-2025
19-May-2030
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: A2F, A2FFC, E**series, E**-Series (2024 Range), T**-Series (2024 Range), CT **-Series (2024 Range), C **-Series (2024 Range), PX** series, SS2K, SS2K/PB, T3CDS, T3CDS/PB, TE1FU, TM...

Endorsements:

Tier: 3 - Type Approved, unit certification not required

This Product Design Assessment (PDA) Certificate remains valid until 19/May/2030 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

SBarua

Siddharth Barua, 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)

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Product: Cable, Glands and Accessories

Model: A2F, A2FFC, E**series, E**-Series (2024 Range), T**-Series (2024 Range), CT **-Series (2024 Range), C **-Series (2024 Range), PX** series, SS2K, SS2K/PB, T3CDS, T3CDS/PB, TE1FU, TMC, TMCX

See the attachment for size charts

Endorsements:

Intended Service:

ABS Classed Vessels and Offshore Facilities in accordance with the listed ABS Rules and International/National standards.

Description:

A2F series products are globally certified, explosive atmosphere cable glands, for all types of braided and unarmored cable.

A2FFC series products are globally certified, explosive atmosphere cable glands, for all types of braided and unarmored cable using flexible metallic conduit.

C **-Series (2024 Range) products (for example CWE (2024), CXE (2024)) are globally certified, explosive atmosphere cable glands for use with all types of unarmoured, armoured and braided cables.

CT **-Series (2024 Range) products (for example CTUE (2024), CTWE (2024), CTXE (2024)) are globally certified, explosive atmosphere cable glands for use with all types of unarmoured, armoured and braided cables.

E** series products (for example E1FU, E1FW, E1FX, E2FU, E2FW, E2FX) are globally certified, explosive atmosphere cable glands, for all types of braided and armored cable notably where the inner bedding of the cable could be susceptible to cold flow.

E**-Series (2024 Range) products (for example E1FW (2024), E1FX (2024), E1WE (2024), E1XE (2024)) are globally certified, explosive atmosphere cable glands for use with all types of unarmoured, armoured and braided cables, notably where the inner bedding of the cable could be susceptible to cold flow.

PX** series (for example PX2K, PX2KW, PX2KX, PX2KPB, PX2KWPB, PX2KXPB, PXRC, PXSS2K, PXSS2KPB) products are globally certified, explosive atmosphere barrier cable glands, for all types of braided, armored, and unarmored cable.

SS2K and SS2K/PB series products are globally certified, explosive atmosphere cable glands, for all types of braided and unarmored cable.

T3CDS, T3CDS/PB, and TE1FU series are globally certified, explosive atmosphere cable glands, which utilize an elastomeric Compensating Displacement Seal (CDS) system for all types of braided and armored cable, notably where the inner bedding of the cable could be susceptible to cold flow.

T**-Series (2024 Range) products (for example TFU (2024), TFW (2024), TFX (2024), TUE (2024), TWE (2024), TXE (2024)) are globally certified, explosive atmosphere cable glands for use with all types of unarmoured, armoured and braided cables, notably where the inner bedding of the cable could be susceptible to cold flow.

TMC and TMCX series products are globally certified, explosive atmosphere cable glands, for use with metal clad, interlocked, and Teck armored cable.

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Rating:

A2F and A2FFC

Product ratings as per ATEX/IECEX/CSA certificates: CML 18ATEX1321X, CML 18ATEX4313X, IECEX CML 18.0179X, and CSA 1211841.

E Series**

Product ratings as per ATEX/IECEX/CSA certificates: CML 18ATEX1324X, CML 18ATEX4316X, IECEX CML 18.0179X and CSA 1310517

E Series (2024 Range)**

Product ratings as per ATEX/IECEX/CSA certificates: CML 24CA17921 ,IECEX CML 24.0137X ,CML 24ATEX1333X,CML 24ATEX4334X

T-Series (2024 Range)**

Product ratings as per ATEX/IECEX/CSA certificates:CML 24CA17921 ,IECEX CML 24.0137X ,CML 24ATEX1333X,CML 24ATEX4334X

CT **-Series (2024 Range)

Product ratings as per ATEX/IECEX/CSA certificates: CML 24CA17921 ,IECEX CML 24.0137X ,CML 24ATEX1333X,CML 24ATEX4334X

C **-Series (2024 Range)

Product ratings as per ATEX/IECEX/CSA certificates: CML 24CA17921 ,IECEX CML 24.0137X ,CML 24ATEX1333X,CML 24ATEX4334X

PX Series**

Product ratings as per ATEX/IECEX/CSA certificates: CML 18ATEX1325X, CML 18ATEX4317X, IECEX CML 18.0182X, and CSA 2288626.

SS2K and SS2K/PB

Product ratings as per ATEX/IECEX/CSA certificates: CML 18ATEX1322X, CML 18ATEX4314X, IECEX CML 18.0178X, and CSA 1211841.

T3CDS and TE1FU

Product ratings as per ATEX/IECEX/CSA certificates: CML 18ATEX1326X, CML 18ATEX4318X, IECEX CML 18.0183X, and CSA 1310517.

T-Series (2024 Range)**

Product ratings as per ATEX/IECEX/CSA certificates: IECEX CML 18.0183X ,CML 24ATEX1333X,CML 24ATEX4334X

TMC and TMCX

Product ratings as per ATEX/IECEX/CSA certificates: CML 18ATEX1337X, IECEX CML 18.0184X, and CSA 1129339.

Service Restriction:

Unit Certification is not required for this product.

Comments:

The component marking is to include the Code such as Ex db IIC, Ex eb IIC or Ex eb II as applicable. The gland is to be assembled strictly in accordance with the fitting instructions supplied with each gland. Applicable class of the

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hazardous location is to be in accordance with the Certificate to cover the gland. 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 2225. Flameproof equipment must be approved as meeting IEC 60079-1.

All electrical equipment intended for installation in hazardous areas are to be of a certified safe type based on the class of the hazardous area at its location of installation. Certificates in this regard are to be presented to the ABS Surveyor for verification and any specific instructions regarding installation are to be adhered to.

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

Notes/Drawing/Documentation:

Drawing Submitted During this Review

Drawing No. IECEx CML 24.0137X , CMP_E T CT C TR, Eurofins E&E CML Limited UK, Dated:25 – Mar-2025 , Revision: 0, Pages: 17

Drawing No. CML 24CA17921 , CMP_E T CT C B BL TR, Eurofins E&E CML Limited UK, Dated:25-Mar-2025 , Revision: 0, Pages: 17

Drawing No. IECEx CML 18.0183X , CMP_T3CDS TE1FU TR, Eurofins E&E CML Limited UK, Dated:19 – Feb-2025 , Revision: 1, Pages: 9

Drawing No. IECEx CML 18.0179X, CMP_A2F A2FRC A2E A2FFC TR, Eurofins E&E CML Limited UK, Dated:22 – Dec-2023 , Revision: 2, Pages: 8

Drawing No. IECEx CML 18.0183X, CMP_T3CDS TE1FU TR, Eurofins E&E CML Limited UK, Dated:19 – Feb-2025 , Revision: 1, Pages: 9

Drawing No. IECEx CML 18.0178X, CMP_SS2K TR, Eurofins E&E CML Limited UK, Dated:20– April-2020 , Revision: 1, Pages: 8

Drawing No. IECEx CML 18.0182X, CMP_PX2K PXRC PXSS2K TR, Eurofins E&E CML Limited UK, Dated:02 – Jun-2021 ,Revision: 1, Pages: 11

Drawing No. IECEx CML 18.0181X, CMP_E Type TR, Eurofins E&E CML Limited UK, Dated:28 – Mar 2024 ,Revision: 1, Pages: 8

Drawing No. CML 24ATEX1333X, CMP_E T CT C - CML 24ATEX1333X TR, Eurofins E&E CML Limited UK, Dated:28 – Mar 2024 ,Revision: 0, Pages: 18

Drawing No. CML 24ATEX4334X, CMP_E T - Ex nR - CML 24ATEX4334X TR, Eurofins E&E CML Limited UK, Dated:28 – Mar 2024 ,Revision: 0, Pages: 15

Drawing No. GAP, -7 and -31 Gap Analysis, Pages: 1

Drawing No. CMP Statement - IEC 60079-7 2017 & IEC 60079-31 2022 Gap Analysis,Pages: 1

Drawing No. Declaration of Conformity, Pages: 1

Drawing No. SCH0622-1, EDP0002 - Seal B, Revision: 1, Pages: 1

Drawing No. SCH0614, Schedule Entry C, Revision: 0, Pages: 1

Drawing No. IECEx CML 18.0179X, CMP_A2F A2FRC A2E A2FFC - IECEx CML 18.0179X Iss. 2, Revision: 2, Pages: 1

Drawing No. SCH0629-1, EDP0002 - Cone D, Revision: 1, Pages: 1

Drawing No. SCH0665-1, EDP0002 - Body B, Revision: 1, Pages: 1

Drawing No. SCH0635, Schedule Sleeve Clip A, Revision: 0, Pages:1

Drawing No. SCH0639, Schedule Ferrule A, Revision: 1, Pages: 1

Drawing No. SCH0685-1, EDP0002 - Cone Adaptor A, Revision: 0, Pages:1

Drawing No. GA2933-1, E1 Series Range, Revision: 2, Pages: 1

Drawing No. SCH0700-1, EDP0002 - Braid Cone F, Revision: 0, Pages:1

Drawing No. GA2934, General Arrangement 16-75 Triton Series Range, Revision: 2, Pages: 1

Drawing No. SCH0686, Schedule Cap B, Revision: 0, Pages: 1

Drawing No. GA3760, General Arrangement 90-130 Triton Series Range, Revision: 2, Pages: 1

Drawing No. SCH0703-1, EDP0002 – Braid Cone G (EMC), Revision: 0, Pages: 1

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Drawing No. SCH0701, Schedule Cone C (EMC), Revision: 0, Pages: 1
Drawing No. SCH0706, Schedule Grounding Spring, Revision: 0, Pages: 1
Drawing No. IECEx CML 18.0181X, CMP_E Type - IECEx CML 18.0181X Iss 1, Revision: 1, Pages: 1
Drawing No. GA3828-1, 90-130 CT Series Range, Revision: 3, Pages: 1
Drawing No. SCH0627, Schedule Braid Cone A, Revision: 0, Pages: 1
Drawing No. SCH0613-1, EDP0002 - Entry B, Revision: 1, Pages: 1
Drawing No. GA2933, General Arrangement E1 Series Range, Revision: 2, Pages: 1
Drawing No. SCH0685, Schedule Cone Adaptor A, Revision: 0, Pages: 1
Drawing No. GA2930-1, C Series Range - Dimensions, Revision: 2, Pages: 1
Drawing No. SCH0665, Schedule Body B, Revision: 1, Pages: 1
Drawing No. SCH0700, Schedule Braid Cone F, Revision: 0, Pages: 1
Drawing No. GA3827-1, 16-75 CT Series Range, Revision: 5, Pages: 1
Drawing No. SCH0702-1, EDP0002 - SWA Cone G (EMC), Revision: 1, Pages: 1
Drawing No. SCH0705, Schedule Braid Cone H (EMC), Revision: 0, Pages: 1
Drawing No. GA3828, General Arrangement 90-130 CT Series Range, Revision: 3, Pages: 1
Drawing No. SCH0705-1, EDP0002 - Braid Cone H (EMC), Revision: 0, Pages: 1
Drawing No. SCH0703, Schedule Braid Cone G (EMC), Revision: 0, Pages: 1
Drawing No. SCH0626-1, EDP0002 - SWA Cone A, Revision: 2, Pages: 1
Drawing No. SCH0629, Schedule Cone D (Reversible), Revision: 0, Pages: 1
Drawing No. SCH0613, Schedule Entry B, Revision: 0, Pages: 1
Drawing No. SCH0622, Schedule Seal B, Revision: 0, Pages: 1
Drawing No. SCH0634-1, EDP0002 - Sleeve B, Revision: 0, Pages: 1
Drawing No. SCH0638-1, EDP0002 - Seal A, Revision: 2, Pages: 1
Drawing No. SCH0702, Schedule SWA Cone G (EMC), Revision: 0, Pages: 1
Drawing No. OD7, E. T. CT. C. B.BL Range of Cable Glands Operational Document Front Sheet, Revision: 1, Pages: 1
Drawing No. GA3827, General Arrangement 16-75 CT Series Range, Revision: 2, Pages: 1
Drawing No. SCH0704-1, EDP0002 - SWA Cone H (EMC), Revision: 1, Pages: 1
Drawing No. SCH400, General Arrangement Ingress Disc, Revision: 0, Pages: 1
Drawing No. SCH0633-1, EDP0002 - Sleeve A, Revision: 0, Pages: 1
Drawing No. SCH0636-1, EDP0002 - Body A, Revision: 1, Pages: 1
Drawing No. SCH0628, Schedule Cone B (Universal), Revision: 0, Pages: 1
Drawing No. SCH0623-1, EDP0002 - Sock A, Revision: 0, Pages: 1
Drawing No. SCH0628-1, EDP0002 - Cone B, Revision: 0, Pages: 1
Drawing No. SCH0626, Schedule SWA Cone A, Revision: 0, Pages: 1
Drawing No. SCH0612-1, EDP0002 - Entry A, Revision: 2, Pages: 1
Drawing No. SCH0638, Schedule Seal A, Revision: 1, Pages: 1
Drawing No. SCH0634, Schedule Sleeve B, Revision: 0, Pages: 1
Drawing No. CML 24CA17921, CMP_E T CT C B BL - CML 24CA17921 Iss. 0, Revision: 0, Pages: 1
Drawing No. SCH0615-1, EDP0002 - Entry Schedule D, Revision: 1, Pages: 1
Drawing No. SCH0640-1, EDP0002 - Nut A, Revision: 2, Pages: 1
Drawing No. SCH0699-1, EDP0002 - SWA Cone F, Revision: 1, Pages: 1
Drawing No. GA2930, General Arrangement C Series Range, Revision: 2, Pages: 1
Drawing No. SCH0684-1, EDP0002 - Nut C, Revision: 0, Pages: 1
Drawing No. M001, E. T. CT. C. Range of Cable Glands - Marking - Hazardous, Revision: 1, Pages: 1
Drawing No. SCH0623, Schedule Sock A, Revision: 0, Pages: 1
Drawing No. SCH0627-1, EDP0002 - Braid Cone A, Revision: 1, Pages: 1
Drawing No. SCH0636, Schedule Body A, Revision: 1, Pages: 1
Drawing No. SCH0639-1, EDP0002 - Ferrule A, Revision: 1, Pages: 1
Drawing No. SCH0633, Schedule Sleeve A, Revision: 0, Pages: 1
Drawing No. SCH0614-1, EDP0002 - Entry C, Revision: 2, Pages: 1
Drawing No. SCH0673, Schedule Cap A, Revision: 0, Pages: 1

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Drawing No. SCH0640, Schedule Nut A, Revision: 1, Pages: 1

Drawing No. SCH0615, Schedule Entry D, Revision: 0, Pages: 1

Drawing No. GA2934-1, 16-75 Triton Series Range, Revision: 3, Pages: 1

Drawing No. CN001, E. T. CT. C. Range of Cable Glands - Compliance Notes - Hazardous, Revision: 1, Pages: 1

Drawing No. SCH0684, Schedule Nut C, Revision: 0, Pages: 1

Drawing No. SCH0701-1, EDP0002 - Cone C (EMC), Revision: 0, Pages: 1

Drawing No. SCH0699, Schedule SWA Cone F, Revision: 0, Pages: 1

Drawing No. SCH0704, Schedule SWA Cone H (EMC), Revision: 0, Pages: 1

Drawing No. SCH0612, Schedule Entry A, Revision: 0, Pages: 1

Drawing No. GA3760-1, 90-130 Triton Series Range, Revision: 2, Pages: 1

Previously Submitted Drawings and Documentation

Drawing No. GB_CML_ExTR18.0255, Cable Gland Types E** Certification, Revision:-, Pages: -

Drawing No. GB_CML_ExTR19.0038_00, Evaluation Report Type, PX** Cable Glands, Revision:-, Pages: -

Drawing No. GB_CML_ExTR19.0052, Transfer of Cable Glands, Thread Adaptors and Breathing/Draining Devices, Revision: -, Pages: -

Drawing No. GB_SIR_EXTR07.0105_00, TMC Range of Cable Glands, Revision:-, Pages: -

Drawing No. GB_SIR_EXTR07.0115, IECEX Ex TEST REPORT COVER, Revision:-, Pages: -

Drawing No. GB_SIR_EXTR14.0162_00, Variation to IECx and ATEX certificate numbers, Revision:-, Pages: -

Drawing No. GB_SIR_EXTR14.0282.00, Variation to IECx and ATEX certificate numbers, Revision:-, Pages: -

Drawing No. GB_SIR_EXTR14.0307_00, Variation to IECx and ATEX certificate numbers, Revision:-, Pages: -

Drawing No. GB_SIR_ExTR16.0025, Variation to certificate numbers IECEX SIR 07.0083X and SIRA 07ATEX1122X, Revision:-, Pages: -

Drawing No. GB_SIR_ExTR16.0018, IECEX and ATEX Certification, Revision:-, Pages: -

Certificates:

A2F and A2FFC: CML 18ATEX1321X, CML 18ATEX4313X, IECEX CML 18.0179X, and CSA 1211841;

E** Series: CML 18ATEX1324X, CML 18ATEX4316X, IECEX CML 18.0181X, and CSA 1310517;

PX** Series: CML 18ATEX1325X, CML 18ATEX4317X, IECEX CML 18.0182X, and CSA 2288626;

SS2K and SS2K/PB: CML 18ATEX1322X, CML 18ATEX4314X, IECEX CML 18.0178X, and CSA 1211841;

T3CDS and TE1FU: CML 18ATEX1326X, CML 18ATEX4318X, IECEX CML 18.0183X, and CSA 1310517;

TMC and TMCX: CML 18ATEX1337X, IECEX CML 18.0184X, and CSA 1129339.

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STANDARDS

ABS Rules:

Marine Vessels Rules (2025): 1-1-4/7.7, 1-1-A3, 1-1-A4 which covers the following:

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4-8-3/1.7, 4-8-3/13, 4-8-4/27.5

Offshore Rules (2025) 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

4-1-1/7.9, 4-3-1/11, 6-1-1/13

National:

BS 6121,

BS EN 62444:2013,

BS EN 60079-0 :2017,

BS EN 60079-1:2014,

BS EN 60079-7:2015 (except TMC, TMCX),

C22.2 (except PXRC);

UL 2225 (PX2K, PX2KPB, PX2KWPB, PX2KX, PX2KXPB, PX2KW, PXSS2K, TMCX)

International:

IEC 60079-0:2017,

IEC 60079-1:2014,

IEC 60079-7:2015,

IEC 60079-15:2017,

IEC 60079-31:2022,

IEC 61914:2021,

IEEE Std 45:2015 Sec 33

Government:

NA

EUMED:

NA

OTHERS:

NA