



Mining And Surface Certification (Pty) Ltd

2015/021934/07

THIS CERTIFICATE IS ISSUED AS AN I.A. CERTIFICATE IN TERMS OF THE MINE HEALTH AND SAFETY ACT, ACT NO 29 OF 1996 (AND REGULATIONS), THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT 85 OF 1993) AND REGULATION 17 OF THE ELECTRICAL MACHINERY REGULATIONS

IA CERTIFICATE	MASC 26-9013	Issue	0
Issue Date	25 March 2026	Expiry Date	25 March 2036
Applicant	CCG Cable Termination (Pty) Ltd 33-37 Forge Road, Spartan Industrial Area, Kempton Park, 1619, South Africa		
Manufacturer	CCG Cable Termination (Pty) Ltd 33-37 Forge Road, Spartan Industrial Area, Kempton Park, 1619, South Africa		
Description (See "Annex A" below)			
Equipment	Cable Glands for Multi Armoured / Unarmoured Cable	Type	Refer to Annex below
Description	Range of Brass (Nickel Plated), Aluminium, Stainless Steel 316/316L Bronze, Mild Steel Cable Glands for Multi Armoured / Unarmoured Cable. Refer to Annex below for a full description.		
MARKING: <i>Must be additionally applied to the equipment</i>	Applicant / Manufacturer Type Ex Marking IA Number Serial Number Rating	CCG Cable Termination (Pty) Ltd Refer to Annex below As per SANS 1213 requirement MASC 26-9013 See "Annex A" below As per description below	
WARNING(S)	As per conditions below		
Compliance:			
The equipment as described above and in documentation MASC 18-2047, CML 14CA364, MASC S/20-9022, MASC MS/22-9001X , has been allocated the rating <u>Explosion Protected as above</u> utilizing the principals in the following SANS Standards:			
<ul style="list-style-type: none"> SANS 1213: 2023 (Ed 3.1): Mechanical Cable Glands ARP 0108: 2018 Regulatory requirements for explosion protected apparatus NCoP 2398: 2022 National Code of Practice for Electrical Machinery in Hazardous Locations - Regulatory requirements for explosion-protected apparatus 			
Conditions:			
<ul style="list-style-type: none"> This certificate covers only a national implementation of above standards for use in South African industry. It is up to the manufacturer to ensure that the product complies to all relevant standards for the application. This document will not be supported by MASC outside the borders of South Africa and may not be used for other/international certification purposes. This certificate may only be reproduced in full, is not transferable and remains the property of the issuing body. This certificate only covers the sample submitted and does not cover production units. According to the relevant requirements of the MHS Act and the OHS Act, production units of explosion protected equipment are required to comply with third party quality assurance (an approved markscheme or batch testing by an accredited test laboratory). 			
Special conditions of safe use X:		Conditions of manufacture:	
• See "ANNEX A" below		• See "ANNEX A" below	
Mark Sadler TECHNICAL SPECIALIST		Regardt Zeelie TECHNICAL SPECIALIST	



Apparatus in hazardous locations is subject to the following provisions as applicable, which shall be adhered to:

- SANS 10086 requirements;
- Any conditions mentioned in the above certificate;
- Any relevant requirements of the MHS Act;
- Any restrictions and conditions enforced by the chief inspector of mines, principal inspector (Group I equipment) or chief inspector of factories (Group II equipment).



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ANNEX A

Description	
Range of Brass (Nickel Plated), Aluminium, Stainless Steel 316/316L Bronze, Mild Steel Cable Glands for Multi Armoured / Unarmoured Cable are issued with instructions / brochures, fully describing the sizes, functionality and construction of the gland(s). The range comprise of the following – see below: See Annex B for Gland classification.	
Standard compliance	See “certificate” above
Warnings	See “certificate” above
Conditions of Certification:	
Special Conditions of safe use (X)	<ul style="list-style-type: none"> • The service temperature range is detailed within the Annex A of the certificate for each product type
Conditions of manufacture	<ul style="list-style-type: none"> • The cable glands shall be marked the information as above as a minimum, the marking shall be done in a clear, legible, visible and indelible manner. • All production shall be conducted under a third-party quality system. • This certificate relates only to the cable glands specified herein as executed in the samples supplied for evaluation under MASC Report 11-303, CML Reports R979A/00, R979A/01, R11591A/00, R12476A/00, R15091A/00, R15093A/00, R16749A/00, and R17358A/00. • In applying the marking to the glands, the manufacturer attests on its own responsibility that the product conforms to the documentation listed herein. • The manufacturer shall make a copy of the certificate and instructions available. The instructions must include relevant application information including, thread form, type / size of cables, etc.

This document is issued based on Mining and Surface Certification’s Standard Contract terms and conditions available on request.

While every endeavour is made to ensure that a test / assessment / inspection is representative and accurately performed, and that a report / certificate is accurate in the quoted results and conclusions drawn from the test / assessment / inspection, MASC or its directors/employees shall in no way be liable for any error made in carrying out the test / assessment or for any erroneous statement, whether in fact or in opinion, contained in a report / certificate issued pursuant to a test / assessment / inspection.

MASC takes no responsibility for any non-conformances, exclusions or any results / assessments / inspections not in compliance with the standards. By marking the equipment in accordance with the documentation / standard, the manufacturer / applicant attests on his own responsibility that the equipment / installation has been designed and constructed in accordance with the applicable requirements of the relevant standards and documentation, that the routine verifications / routine tests have been correctly completed and the equipment / installation complies with the documentation and standard(s).

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IA CERTIFICATE: MASC 26-9013
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Annex B

ARMOURED CABLE GLAND

Description	Certification
Armortex Captive Component Gland	MASC MS/22-9001X
BW Captive Cone Gland	MASC 18-2047 & CML 14CA364
CW Captive Component Gland	MASC 18-2047 & CML 14CA364
CW Insulated Captive Component Gland	MASC 18-2047 & CML 14CA364
CW Integral Earth Captive Component Gland	MASC 18-2047 & CML 14CA364
CW Integral Earth Insulated Captive Component Gland	MASC 18-2047 & CML 14CA364
CW LSOH Captive Component Gland	MASC 18-2047 & CML 14CA364
CX-Z Captive Component Gland	MASC 18-2047 & CML 14CA364
CX-Z Insulated Captive Component Gland	MASC 18-2047 & CML 14CA364
CXe Captive Component Gland	MASC MS/22-9001X
CWe Captive Component Gland	MASC MS/22-9001X
D1EX Captive Component Gland	MASC MS/22-9001X
D1W Captive Component Gland	MASC 18-2047 & CML 14CA364
E1EX Captive Component Gland	MASC MS/22-9001X
E1EX Lead Seal Captive Component Gland	MASC MS/22-9001X
E1EX Universal Captive Component Gland	MASC MS/22-9001X
E1EX Universal Lead Seal Captive Component Gland	MASC MS/22-9001X
E1EX Universal VS Captive Component Gland	MASC MS/22-9001X
E1EX VS Captive Component Gland	MASC MS/22-9001X
E1EX-D Captive Component Gland	MASC MS/22-9001X
E1EX-D VS Captive Component Gland	MASC MS/22-9001X
E1U Captive Component Gland	MASC 18-2047 & CML 14CA364
E1W Captive Component Gland	MASC 18-2047 & CML 14CA364
E1W Insulated Captive Component Gland	MASC 18-2047 & CML 14CA364
E1W Integral Earth Captive Component Gland	MASC 18-2047 & CML 14CA364
E1W Lead Seal Captive Component Gland	MASC 18-2047 & CML 14CA364
E1W Lead Seal Insulated Captive Component Gland	MASC 18-2047 & CML 14CA364
E1W LSOH Captive Component Gland	MASC 18-2047 & CML 14CA364
E1W VS Captive Component Gland	MASC 18-2047 & CML 14CA364
Ex Corrosion Guard Captive Component Gland	MASC MS/22-9001X
Ex Corrosion Guard Lead Captive Component Gland	MASC MS/22-9001X
Ex Corrosion Guard VS Captive Component Gland	MASC MS/22-9001X
FLP Captive Component Captive Component Gland	MASC MS/22-9001X
IPLUS Corrosion Guard Captive Component Gland	MASC 18-2047 & CML 14CA364
Unitex Captive Component Gland	MASC MS/22-9001X
Unitex D Captive Component Gland	MASC MS/22-9001X
Unitex D Lead Seal Captive Component Gland	MASC MS/22-9001X
Unitex D VS Captive Component Gland	MASC MS/22-9001X
Unitex-F Captive Component Gland	MASC MS/22-9001X

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IA CERTIFICATE: MASC 26-9013
Equipment: Armoured / Compression glands
Expiry date: 25 March 2036

ARMOURED BARRIER CABLE GLAND

Description	Certification
Armortex QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
Armortex VORTEX Barrier Captive Component Gland	MASC MS/22-9001X
D1EX QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
D1EX VORTEX Barrier Captive Component Gland	MASC MS/22-9001X
E1EX QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
E1EX Universal QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
E1EX Universal VORTEX Barrier Captive Component Gland	MASC MS/22-9001X
E1EX Universal VS QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
E1EX Universal VS VORTEX Barrier Captive Component Gland	MASC MS/22-9001X
E1EX VORTEX Barrier Captive Component Gland	MASC MS/22-9001X
E1EX VS QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
E1EX VS VORTEX Barrier Captive Component Gland	MASC MS/22-9001X
E1EX-D QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
Ex Corrosion Guard QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
Ex Corrosion Guard VORTEX Barrier Captive Component Gland	MASC MS/22-9001X
Ex Corrosion Guard VS QuickStop-Ex Captive Component Gland	MASC MS/22-9001X
Ex Corrosion Guard VS VORTEX Barrier Captive Component Gland	MASC MS/22-9001X
FLP QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
FLP VORTEX Barrier Captive Component Gland	MASC MS/22-9001X
Unitex QuickStop-Ex Captive Component Gland	MASC MS/22-9001X
Unitex VORTEX Barrier Captive Component Gland	MASC 18-2047 & CML 14CA364
Unitex-F QuickStop-Ex Barrier Captive Component Gland	MASC MS/22-9001X
Unitex-F VORTEX Barrier Captive Component Gland	MASC MS/22-9001X

UNARMOURED CABLE GLAND

Description	Certification
A2 Compression Gland	MASC 18-2047 & CML 14CA364
A2 EMC Compression Gland	MASC 18-2047 & CML 14CA364
A2 FHC Compression Gland	MASC 18-2047 & CML 14CA364
A2 LSOH Compression Gland	MASC 18-2047 & CML 14CA364
A2 LSOH EMC Compression Gland	MASC 18-2047 & CML 14CA364
A2-R Compression Gland	MASC 18-2047 & CML 14CA364
A2EX Compression Gland	MASC S/20-9022
A2EX FHC Compression Gland	MASC S/20-9022
A2EX FHC Lead Seal Gland	MASC S/20-9022
A2EX FHC VS Compression Gland	MASC S/20-9022
A2EX VS Compression Gland	MASC S/20-9022
A2F Compression Gland	MASC S/20-9022
A2F FHC Compression Gland	MASC S/20-9022

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A2F HTF Compression Gland	MASC S/20-9022
A2F-H Compression Gland	MASC S/20-9022X
A2F-H-R Compression Gland	MASC MS/22-9001X
A2F-HTF-FC Compression Gland	MASC S/20-9022
A2F-R Compression Gland	MASC S/20-9022
A2FX-R Compression Gland	MASC S/20-9022
A2FX Double Compression Gland	MASC 18-2047 & CML 14CA364
A2FX-H Compression Gland	MASC 18-2047 & CML 14CA364
A2FX-H-R Compression Gland	MASC 18-2047 & CML 14CA364
A2X Compression Gland	MASC 18-2047 & CML 14CA364
FLP-TR-R Compression Gland	MASC MS/22-9001X
FLP TR FHC Compression Gland	MASC MS/22-9001X
FLP-Hose Compression Gland	MASC MS/22-9001X
FLP-R Hose Compression Gland	MASC MS/22-9001X
FLP-TR Compression Gland	MASC MS/22-9001X
FLP-TR-KHDE Compression Gland	MASC MS/22-9001X
Posi Braid Compression Gland	MASC 18-2047 & CML 14CA364
Posi Flex Compression Gland	MASC 18-2047 & CML 14CA364
Posi Grip Compression Gland	MASC S/20-9022
Posi Grip VS Compression Gland	MASC S/20-9022
Radoflex A Compression Gland	MASC 18-2047 & CML 14CA364
Radoflex Compression Gland	MASC 18-2047 & CML 14CA364
VARITEx Compression Gland	MASC S/20-9022
TMC Cable Connector	MS/22-9001X
VARITEx SWA Compression Gland	MASC 18-2047, CML 14CA364, MASC S/20-9022
VARITEx-D Compression Gland	MASC S/20-9022

UNARMoured BARRIER CABLE GLAND

Description	Certification
A2EX FHC QuickStop-Ex Barrier Compression Gland	MASC S/20-9022
A2EX FHC VORTEX Barrier Compression Gland	MASC S/20-9022
A2EX QuickStop-Ex Barrier Compression Gland	MASC S/20-9022
A2EX VORTEX Barrier Compression Gland	MASC S/20-9022
A2EX VS QuickStop-Ex Barrier Compression Gland	MASC S/20-9022
A2EX VS VORTEX Barrier Compression Gland	MASC S/20-9022
A2F FHC QuickStop-Ex Barrier Compression Gland	MASC S/20-9022
A2F FHC VORTEX Barrier Compression Gland	MASC S/20-9022
A2F VORTEX Barrier Compression Gland	MASC S/20-9022
A2F VORTEX FC Barrier Compression Gland	MASC S/20-9022
A2F-F VORTEX Barrier Compression Gland	MASC S/20-9022
FLP Hose QuickStop-Ex Compression Gland	MASC MS/22-9001X
FLP Hose VORTEX Compression Gland	MASC MS/22-9001X

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FLP-TR QuickStop-Ex Barrier Compression Gland	MASC MS/22-9001X
FLP-TR VORTEX Barrier Compression Gland	MASC MS/22-9001X
FLP-TR-KHDE QuickStop-Ex Compression Gland	MASC MS/22-9001X
FLP-TR-KHDE VORTEX Barrier Compression Gland	MASC MS/22-9001X
Posi Grip QuickStop-Ex Barrier Compression Gland	MASC S/20-9022
Posi Grip VORTEX Barrier Compression Gland	MASC S/20-9022
RadofEx Bar Barrier Compression Gland	MASC 18-2047 & CML 14CA364
TMCX QuickStop-Ex Barrier Compression Gland	MASC MS/22-9001X
VARITEx-D VORTEX Barrier Compression Gland	MASC S/20-9022

Description as covered by CML 14CA364 Issue 7:

Range:

E1W, E1W Insulated, E1W Lead Seal, E1W Integral Earth, E1X/Z, E1EX (VS)(QS), E1EX-U (VS)(QS)(VX), E1E Lead Seal, E1EX-SP (QS)(VX), ARMORTEC (QS)(VX), D1EX (QS)(VX), FLP (QS)(VX), A2, A2 EMC A2F-VX, A2F-F-VX, A2X, A2FX-R, A2F-H, A2F-H-R, A2FHC, A2F-FHC~(QS)(VX), A2F-HTF, A2F-VX, A2F-F-VX, A2X, A2FX, A2F-R, A2FX-H, A2FX-H-R, A2EX (VS)(QS)(VX), A2EX FHC (VS)(QS)(VX), FLP-TR(QS)(VX), FLP Hose UNITEx-E, UNITEx~(QS)(VX), UNITEx-F, UNITEx-F~(QS)(VX), VARITEx-D, VARITEx-D-VX, CW, CW e, CW Insulated, CW INTEGRAL EARTH, IPlus CG, EXCG (VS)(QS)(VX), EXCG-Lead Seal, Posi Flex, Posi-Grip (VS), Posi Grip~QS(VX)(VS), RADOFLEx, RADOFLEx-BAR, BW, TMC, TMCX, CX/CZ and CXe ranges of cable glands.

Description of Equipment

E1W, E1W Insulated, E1W Lead Seal, E1W Integral earth, E1X/Z, E1EX (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, E1EX-SP (QS)(VX), UNITEx-D (VS), UNITEx-E, UNITEx~(QS)(VX), UNITEx-F, UNITEx-F~(QS)(VX), and ARMORTEC (QS) (VX) metallic gland ranges

The E1W, E1X/Z, E1EX, E1EX-U, UNITEx-D, UNITEx-E, UNITEx-F and ARMORTEC type glands consist of an inner, body, cone, cone ring, outer nut, outer seal, inner seal, skid ring and a sealing gasket.

The E1W and E1X/Z type glands are mainly intended for industrial purposes with the E1EX, E1EX-U, UNITEx-D, UNITEx-E, UNITEx-F and the ARMORTEC type glands being intended for use in hazardous areas, engaged into a threaded hole or secured with a locknut.

Variations:

- Lead Seal - Glands with inner lead seal
- (VS) - Glands with an internal contact for use with variable speed drive cables and lead sheath cables. Note that a standard cable gland type can be converted to a (VS) variant by retrofitting the internal contact components. The product marking does not need to be changed when these components are retro-fitted.
- -FC - variant with an outer seal nut that has an additional female thread to allow a flexible conduit to be attached to the gland.
- (QS) - Barrier glands using QuickStop Ex barrier material
- (VX) - Barrier glands using Vortex barrier material
- E1W Integral earth - Integral earth bolt fitted to nut
- E1W Insulated - Non-metallic insulation ring
- E1X/Z - Specifically for braided and steel tape cable

See Annex C for specific classification of gland series.

D1W, D1EX (QS)(VX) and FLP (QS)(VX) metallic gland ranges

The D1W, D1EX and FLP glands consist of an inner, outer, cone, cone ring, inner seal and a sealing gasket.

The D1W type glands are mainly intended for industrial purposes with the D1EX and FLP type glands being intended for use in hazardous areas, engaged into a threaded hole or secured with a locknut.

Variations:

- (QS) - Barrier glands using QuickStop Ex barrier material
- (VX) - Barrier glands using Vortex barrier material
- See Annex C for specific classification of gland series.

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A2, A2 EMC, A2X, A2F, A2F-R, A2F-H, A2F-H-R, A2F-HTF, A2F-FHC, A2F-FHC~(QS)(VX), A2F-VX, A2F-F-VX, A2FX, A2FX-R, A2FX-H, A2FX-H-R, A2EX (VS)(QS)(VX), A2EX FHC (VS)(QS)(VX), FLP-TR (QS)(VX), FLP-TR-KHDE (QS)(VX) and FLP Hose (QS)(VX) metallic gland ranges

The A2 and A2F type glands consist of an inner, outer, bush, lock nut, gripper seal, skid ring and a sealing gasket. The A2F-FHC and A2F-FHC~(QS)(VX) glands have a coupler to connect them to a conduit system. The A2 and A2X glands can optionally have an entry component comprising a metal shell with a close-fitting plastic insert such that the assembly has the same shape as an all-metal component. The material of the plastic insert shall match the material of the sealing gasket to maintain the temperature range.

The A2X, A2FCG, A2FX, A2FX-R, A2FX-H, A2FX-H-R, A2EX, A2EX-FHC, FLP-TR and FLP Hose have two gripper seals.

The A2 and A2X type glands are mainly intended for industrial purposes with the A2F, A2EX and FLP type glands being intended for use in hazardous areas, engaging into a threaded hole or secured with a locknut.

Variations:

- (QS) - Barrier glands using QuickStop Ex barrier material
- (VX) - Barrier glands using Vortex barrier material
- -FC - variant with an outer seal nut that has an additional female thread to allow a flexible conduit to be attached to the gland.

See Annex C for specific classification of gland series.

CW, CW Insulated, CW Integral Earth, CWe, CXe and CX/CZ metallic gland ranges

The CW, CWe, CX/CZ and CXe glands consist of an inner, body, cone, cone ring, lock nut, bush, outer nut, skid ring, outer seal and a sealing gasket.

The CW and CX type glands are mainly intended for industrial purposes with the CWe and CXe type glands being intended for use in hazardous areas, engaging into a threaded hole or secured with a locknut.

Variations:

- CW Insulated - Non-metallic isolation ring
- CW Integral Earth - Integral earth bolt fitted to nut
- CX/CZ - For use with braided and steel tape cable
- -FC - variant with an outer seal nut that has an additional female thread to allow a flexible conduit to be attached to the gland.

See Annex C for specific classification of gland series.

IPlus CG, EXCG Lead Seal and EXCG (VS)(QS)(VX) metallic gland ranges

The IPlus CG and EXCG type glands consist of an inner, body, cone, cone ring, lock nut, IP corrosion guard outer, IP corrosion guard nut, skid ring, corrosion guard sealing ring, inner seal and outer seal.
(The inner seal of the EXCG Lead Seal gland is made from lead.)

The IPlus CG type glands are mainly intended for industrial purposes with the EXCG type glands being intended for use in hazardous areas, engaging into a threaded hole or secured with a locknut.

Variations:

- (VS) - Glands with an internal contact for use with variable speed drive cables and leadsheath cables. Note that a standard cable gland type can be converted to a (VS) variant by retrofitting the internal contact components. The product marking does not need to be changed when these components are retro-fitted.
- (QS) - Barrier glands using QuickStop Ex barrier material
- (VX) - Barrier glands using Vortex barrier material

See Annex C for specific classification of gland series

Posi Flex, Posi Grip (VS) and Posi Grip~QS(VX)(VS) composite gland ranges

The Posi Flex, Posi Grip (VS) and Posi Grip~QS(VX)(VS) glands consist of an inner, insert, lock nut, outer, nipple nut mould, Gripper seal, skid ring, nipple seal and a gasket.

The Posi Flex type glands are mainly intended for industrial operations with the Posi Grip type glands being intended for use in hazardous areas, engaging into a threaded hole or secured with a locknut.

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- (QS) - Barrier glands using QuickStop Ex barrier material
- (VX) - Barrier glands using Vortex barrier material
- -FC - variant with an outer seal nut that has an additional female thread to allow a flexible conduit to be attached to the gland.

See Annex C for specific classification of gland series.

BW metallic gland range

The BW glands consist of an inner, outer, cone and bush.

The glands are mainly intended for industrial operations, engaged into a threaded hole or secured with a locknut.

See Annex C for specific classification of gland series.

VRTX and VRTX-SWA gland ranges.

The VRTX (VariTex) gland consists of an inner, spacer, body, outer nut, skid ring, outer seal and a sealing gasket. There is an internal earthing arrangement to allow the gland to be used with VSD (Variable Speed Drive) cable.

The VRTX-SWA gland additionally has a cone and cone ring to allow the gland to be used with armoured VSD cable.

VARITEx-D and RADOFLEx gland ranges.

The VARITEx-D and RADOFLEx glands consist of an inner, spacer assembly, seal, skid ring and an outer compression nut. The spacer assembly includes an earthing device. The VARITEx-D VX and RADOFLEx-BAR glands also have a barrier resin sleeve assembly. The VARITEx and RADOFLEx gland ranges are intended for use in hazardous areas.

TMC and TMCX gland ranges

The TMC type glands consist of an inner, spacer, clamping spring, seal, skid ring and body. The TMCX uses similar components but added a barrier resin sleeve assembly and a clamping nut.

The TMC and TMCX type glands are intended for use in hazardous areas with MC, MC-HL and Teck type cables

Annex C – Gland Classification

Non-Armoured							
Gland Range	According to material and cable	According to mechanical properties	According to electrical properties	According to resistance to external influences			According to sealing system
A2 A2 EMC	Metallic, or metal & plastic assembly for unarmoured cable	Impact category 8 Anchorage type B	No requirement	IP66/67/68 Seals Silicone EPDM EPDM Single seal	Gasket PTFE: HDPE: Nylon:	Temp range -65°C to +175°C -65°C to +120°C -65°C to +120°C	Single sealing system
A2F, A2F-R, A2F-H, A2F-H-R, VRTX, A2F-FHC, A2F-HTF VARITEx-D, RADOFLEx	Metallic for unarmoured cable	Impact category 8 Anchorage type B	No requirement	IP66/67/68 Seals Silicone EPDM EPDM Single Seal	Gasket PTFE: HDPE: Nylon:	Temp range -60°C to +160°C -60°C to +95°C -60°C to +100°C	Single sealing system
A2F-FHC (QS)(VX)	Metallic for unarmoured cable	Impact category 8 Anchorage type B	No requirement	IP66/67/68 Seals Silicone EPDM EPDM QS/VX resin Single Seal	Gasket PTFE: HDPE: Nylon: All:	Temp range -60°C to +160°C -60°C to +95°C -60°C to +100°C -60°C to +100°C	Single sealing system
A2X	Metallic, or metal & plastic assembly for	Impact category 8 Anchorage type B	No requirement	IP66/67/68 Seals Silicone EPDM EPDM	Gasket PTFE: HDPE: Nylon:	Temp range -65°C to +175°C -65°C to +120°C -65°C to +120°C	Double sealing system

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	unarmoured cable			Double seal	
A2FX-H, A2FX-H-R, A2FX, A2FX-R, A2EX(VS)(QS)(VX), A2EX-FHC (VS)(QS)(VX), A2F-VX, A2F-F-VX, FLP-TR (QS)(VX), FLP Hose (QS)(VX), VARITEx-D VX, RADOFLEx BAR	Metallic for unarmoured cable	Impact category 8 Anchorage type B	No requirement	IP66/67/68-Temp range: Seals Gasket Temp range Silicone PTFE: -60°C to +160°C EPDM HDPE: -60°C to +95°C EPDM Nylon: -60°C to +100°C QS/VX All: -60°C to +100°C resin Double seal	Multi sealing system
Posi Flex	Composite for unarmoured cable	Impact category 7 Anchored type B	No requirement	IP66/67/68 Seals Gasket Temp range Silicone PTFE: -65°C to +175°C EPDM HDPE: -65°C to +120°C EPDM Nylon: -65°C to +120°C UV resistant Single seal	Single sealing system
Posi Grip Posi Grip (QS)(VX)	Composite for unarmoured cable	Impact category 7 Anchored type B	No requirement	IP66/67/68 Seals Gasket Temp range All All: -20°C to +95C UV resistant Double Seal	Single sealing system

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Armoured							
Gland Range	According to material and cable	According to mechanical properties	According to electrical properties	According to resistance to external influences			According to sealing system
E1W E1W Lead Seal E1W Insulated	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66/67/68 Seals Silicone EPDM EPDM Double Seal	Gasket PTFE: HDPE: Nylon:	Temp range -65°C to +175°C -65°C to +120°C -65°C to +120°C	Multi seal and cone for clamping
E1Ex (VS)(QS)(VX), E1EX-U (VS)(QS)(VX), E1EX Lead Seal, E1EX-SP (QS)(VX), UNITEx-D (VS), UNITEx-E UNITEx~(QS)(VX), UNITEx~F~(QS)(VX), UNITEx-F ARMORTEX (QS)(VX)	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66/67/68 Seals Silicone EPDM EPDM QS/VX resin Double Seal	Gasket PTFE: HDPE: Nylon: All:	Temp range -60°C to +160°C -60°C to +95°C -60°C to +100°C -50°C to +95°C	Multi seal and cone for clamping
E1W Integral Earth	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category C	IP66/67/68 Seals Silicone EPDM EPDM Double Seal	Gasket PTFE: HDPE: Nylon:	Temp range -65°C to +175°C -65°C to +120°C -65°C to +120°C	Multi seal and cone for clamping
D1W	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66/67/68- Seals Silicone EPDM EPDM Single Seal	Gasket PTFE: HDPE: Nylon:	Temp range -65°C to +175°C -65°C to +120°C -65°C to +120°C	Single seal and cone for clamping
D1EX (QS)(VX) FLP (QS)(VX)	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66/67/68 Seals Silicone EPDM EPDM QS/VX resin Single Seal	Gasket PTFE: HDPE: Nylon: All:	Temp range -60°C to +160°C -60°C to +95°C -60°C to +100°C -50°C to +95°C	Single seal and cone for clamping
CW CW Insulated	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66 Seals Silicone EPDM EPDM Single Seal	Gasket PTFE: HDPE: Nylon:	Temp range -65°C to +175°C -65°C to +120°C -65°C to +120°C	Single seal and cone for clamping
CWe VRTX-SWA	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66: Seals Silicone EPDM EPDM Single Seal	Gasket PTFE: HDPE: Nylon:	Temp range -60°C to +160°C -60°C to +95°C -60°C to +100°C	Multi seal and cone for clamping
CW Integral Earth	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category C	IP66 Seals Silicone EPDM EPDM Single Seal	Gasket PTFE: HDPE: Nylon:	Temp range -65°C to +175°C -65°C to +120°C -65°C to +120°C	Single seal and cone for clamping
IPlus CG	Metallic gland with composite	Impact category 8	Calculated to Category A (no earth tag)	IP66/67/68 Seals Silicone	Gasket PTFE:	Temp range -65°C to +175°C	Multi seal and cone

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Armoured						
Gland Range	According to material and cable	According to mechanical properties	According to electrical properties	According to resistance to external influences		According to sealing system
	screw on shroud for SWA cable	Anchorage type D	Calculated to Category B (with earth tag)	EPDM EPDM UV resistant Double Seal	HDPE: -65°C to +120°C Nylon: -65°C to +120°C	for clamping
EXCG (VS)(QS)(VX) EX CG Lead Seal	Metallic gland with composite screw on shroud for SWA cable	Impact category 8 Anchorage type D	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66/67/68 Seals Silicone EPDM EPDM QS/VX resin UV resistant Double Seal	Gasket PTFE: -60°C to +160°C HDPE: -60°C to +95°C Nylon: -60°C to +100°C All: -50°C to +95°C	Multi seal and cone for clamping
BW	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	Seals - - - -	Gasket PTFE: -65°C to +175°C HDPE: -65°C to +120°C Nylon: -65°C to +120°C -	No sealing system. Cone for clamping
CX/Z	Metallic for Braid Tape cable	Impact category 8 Anchorage type C	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66 Seals Silicone EPDM EPDM Single seal	Gasket PTFE: -65°C to +175°C HDPE: -65°C to +120°C Nylon: -65°C to +120°C	Single seal and cone for clamping
CXe	Metallic for Braid Tape cable	Impact category 8 Anchorage type C	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66 Seals Silicone EPDM EPDM Single seal	Gasket PTFE: -60°C to +160°C HDPE: -60°C to +95°C Nylon: -60°C to +100°C	Single seal and cone for clamping
E1X/Z	Metallic for Braid Tape cable	Impact category 8 Anchorage type C	Calculated to Category A (no earth tag) Calculated to Category B (with earth tag)	IP66/67/68 Seals Silicone EPDM EPDM Double seal	Gasket PTFE: -65°C to +175°C HDPE: -65°C to +120°C Nylon: -65°C to +120°C	Multi seal and cone for clamping
TMC	Metallic for MC, MC-HL and Teck cable	Impact category 8 Anchorage type D	Category B	IP66/67/68 Seals Silicone EPDM EPDM Single Seal	Gasket PTFE: -60°C to +160°C HDPE: -60°C to +95°C Nylon: -60°C to +100°C	Single seal and clamping spring for clamping
TMCX	Metallic for MC, MC-HL and Teck cable	Impact category 8 Anchorage type D	Category B	IP66/67/68 Seals QS/VX resin Single Seal	Gasket All: -50°C to +95°C	Single seal and clamping spring for clamping

Note: The temperature ranges of the cable glands also certified for use in hazardous areas are defined by their hazardous area certification.

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