



Mining And Surface Certification CC

CC 2008/202081/23



Certificate Number: MASC 11-303(R2)
Issue: 08 April 2013
Expire: 17 January 2022
Page: 1 of 6

IA – CERTIFICATE (Revision 2 – Temperature adjustment)

IN TERMS OF REGULATION 21.17.2 OF THE MINERALS ACT (INCORPORATION THE MINE HEALTH AND SAFETY ACT) AND REGULATION 9 (1) OF THE ELECTRICAL MACHINERY REGULATIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT

Type Examination

Certificate number: MASC 11-303(R2)
Equipment: E1W, E1W Insulated, E1W Lead Seal, E1W INTEGRAL EARTH, E1X/Z, D1W, A2, A2X, CW, CW Insulated, CW INTEGRAL EARTH, IPlus, Posi Flex, BW and CX/CZ ranges of cable glands
Serial No: N/A
Certificate Holder: CCG CABLE TERMINATIONS (PTY) LTD
Address: 33-37 Forge Road,
Spartan Industrial Area
Kempton Park
1619
Manufacturer: CCG CABLE TERMINATIONS (PTY) LTD
Address: 33-37 Forge Road,
Spartan Industrial Area
Kempton Park
1619

DESCRIPTION OF EQUIPMENT:

E1W, E1W Lead Seal, E1W Integral Earth, E1X/Z metallic gland range

The E1W gland consists of an inner, body, cone, cone ring, outer nut, lock nut, outer seal, inner seal, skid ring and a sealing gasket. The gland is mainly used for industrial purposes, engaged into a threaded hole or secured with a locknut.

Variations:

E1W Lead seal – Inner lead sheath and cone ring
E1W Integral Earth – Integral earth bolt fitted to nut
E1W Insulated – Non metallic insulation ring
E1X/Z – specifically for braided and steel tape cable

D1W metallic gland range

The D1W gland consists of an inner, outer, cone, cone ring, lock nut, inner seal and a sealing gasket. The gland is mainly used for industrial purposes, engaged into a threaded hole or secured with a locknut.

This document may only be reproduced in full
This certificate is not transferable and remains the property of the issuing body

A2, A2X metallic gland range

The A2 gland consists of an inner, outer, bush, lock nut, gripper seal, skid ring and a sealing gasket. The gland is mainly used for industrial purposes, engaged into a threaded hole or secured with a locknut.

Variations:

A2X – Double gripper seal

CW, CW Insulated, CX/CZ and CW Integral Earth metallic gland range

The CW gland consists of an inner, body, cone, cone ring, lock nut, bush, outer nut, skid ring, outer seal and a sealing gasket. The gland is mainly used for industrial purposes, engaged 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

CW Insulated – Insulation ring

CX/CZ – for use with braided and steel tape cable

IPlus metallic gland range

The I Plus gland consists 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 gland is mainly used for industrial purposes, engaged into a threaded hole or secured with a locknut.

Posi Flex composite gland range

The Posi Flex gland consists of an inner, insert, lock nut, outer, nipple nut mould, Gripper seal, skid ring, nipple seal and a gasket. The gland is mainly used for industrial purposes, engaged into a threaded hole or secured with a locknut.

BW metallic gland range

The BW gland consists of an inner, outer, cone, bush, and lock nut. The gland is mainly used for industrial purposes, engaged into a threaded hole or secured with a locknut.

Notes:

1. The manufacturer's documents refer to different configurations of thread form and thread size on each gland range. The manufacturer's documents also further specify the type of cables allowed for use on the different ranges of cable glands.
2. See attached schedule for specific classification of each gland series.

MARKING:

The glands contain the following marking:

- Manufacturer's trademark
- IP marking (as applicable)
- Entry threads form and size

This document may only be reproduced in full
This certificate is not transferable and remains the property of the issuing body

The evaluation was conducted according to the requirements of:

IEC 62444: 2010, Edition 1.0 – Cable glands for electrical installations

CONDITIONS OF CERTIFICATION / MANUFACTURE:

1. The apparatus must be additionally marked in a clear, legible, visible and indelible manner with the marking details as described above.
2. All production units must be conducted under a third party quality system.
3. This certificate relates only to the component specified herein as executed in the samples supplied for evaluation.
4. In affixing the marking to the component, the manufacturer attests on its own responsibility that the component conforms to the documents listed herein.
5. It is a condition of certification that a copy of the Certificate and instructions must be made available for the equipment. The instructions must include relevant application information including, thread form, type / size of cables etc.

SPECIAL CONDITIONS FOR SAFE USE:

A service temperature range of -65°C to 175°C (silicone seals and PTFE gasket) and -20°C to 125°C (EPDM and HDPE or PTFE gasket) is applicable for the washers and seals utilized to maintain the IP rating.

COMPLIANCE:

The samples of the gland ranges as described above are deemed to be in compliance with the IEC62444:2010 standards and has been tested and assessed according to the relevant clauses of this standard. See attached schedule.



R Viljoen
MANAGING MEMBER

Mining And Surface Certification

This document may only be reproduced in full
This certificate is not transferable and remains the property of the issuing body

Schedule

GLAND CLASSIFICATION (CLAUSE 6 of IEC62444)

Non Armoured cable retention or anchorage

NON-ARMoured GLANDS					
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	Metallic for unarmoured cable	Impact category 8 Anchorage type B	No requirement	IP66/67/68 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals) Single seal	Single sealing system
A2X	Metallic for unarmoured cable	Impact category 8 Anchorage type B	No requirement	IP66/67/68 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals) Single seal	Multi sealing system
Posi Flex	Composite for unarmoured cable	Impact category 7 Anchorage type B	No requirement	IP66/67/68 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals) UV Single seal	Single sealing system

This document may only be reproduced in full
This certificate is not transferable and remains the property of the issuing body

IA CERTIFICATE NUMBER: MASC 11-303(R2)

Various standard gland range approval
(Revision 1 – Temperature adjustment)

Page 5 of 6

Armoured cable anchorage

ARMoured CABLE GLANDS					
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	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 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals)	Multi seal and cone for cable clamping.
E1W Integral Earth E1W Insulated	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category C	IP66/67/68 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals)	Multi seal and cone for cable 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 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals)	Single seal and cone for cable clamping
CW	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 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals)	Single seal and cone for cable clamping

This document may only be reproduced in full
This certificate is not transferable and remains the property of the issuing body

IA CERTIFICATE NUMBER: MASC 11-303(R2)

Various standard gland range approval
(Revision 1 – Temperature adjustment)

Page 6 of 6

ARMoured CABLE GLANDS					
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
CW Integral Earth CW Insulated	Metallic for SWA cable	Impact category 8 Anchorage type D	Calculated to Category C	IP66 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals)	Single seal and cone for cable clamping
IPlus CG	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 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals) UV resistant	Multi seal and cone for cable 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)	Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals)	No sealing system. Cone for cable clamping
CX/CZ	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 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals)	Single seal and cone for cable 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 Temp range: -65°C to 175°C (Silicone seals) Temp range: -20°C to 125°C (EPDM Seals)	Single seal and cone for cable clamping

This document may only be reproduced in full
This certificate is not transferable and remains the property of the issuing body