

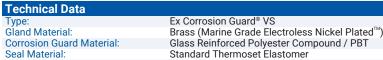
Ex Corrosion Guard® VS

Ex db IIC, Ex eb IIC, Ex nR IIC, Ex ta IIIC

CAPTIVE COMPONENT GLAND® for Steel Wire Armour, Aluminium, Copper Tape or Lead Sheathed Cable

Features and Benefits

- For highly corrosive, wet locations, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas. Factory-fitted captive elastomeric seals for Built-in Safety™ .
- A two-part handling, freely rotating captive cone and inspectable cone ring provides an armour clamp and earth bond on steel wire and aluminium armour.
- Corrosion Guard® screws onto the gland body and seals over the outer sheath of the cable, giving an IP68 and deluge-proof seal protecting the armour and metal parts of the gland.
- Provides 360° earthing to copper tape or lead sheath.
- Cable Gland is precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™).
- Supplied with a thread-sealing gasket (parallel threads only).



Sealing Gasket Material: HDPE, Nylon 66 or PTFE Cable Type: Armour Clamping: Steel Wire Armour, Aluminium Armour, Copper Tape or Lead Sheathed Captive Rotating Cone and Inspectible Cone Ring

Inner Sheath, Outer Sheath and total enclosure of gland Sealing Area: **Optional Accessories:** Adaptor, Reducer, Locknut and Serrated Washer

The installer should ensure that the materials are suitable for the installation environment.

Standards and Certifications

IECEx/INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da ATEX/UKEX: ② II 2/3G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc **Equipment Protection Levels** TR CU: 🖫 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex tb IIIC Db X Standard Seals: -60°C to +95°C /100°C (HDPE/ Nylon Sealing Gasket) Continuous Operating Temp:

Extreme Temp. Seals: -60°C to +120°C (PTFE Sealing Gasket) Conformance: Standard: Certificate IEC/BS EN IEC/BS EN 62444 CML 14CA364 IEC 60079 Part 0, 1, 7, 15, 31 IECEx CML 18.0018X **IECE**x EN 60079 Part 0, 1, 7, 31 CML 16ATEX1001X **ATEX** EN 60079 Part 0, 15 CML 16ATEX4002X **UKEX**

BS EN 60079 Part 0, 1, 7, 31 CML 21UKEX1011X BS EN 60079 Part 0, 15 CML 21UKEX4006X INMETRO (Brazil) ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31 TÜV 15.0483X

EA9C RU C-ZA.HA91.B.00245/21 TR CU (Russia) ΓΟCT 31610-0, 15, ΓΟCT IEC 60079-1 ГОСТ Р МЭК 60079-7, 31

SANS/IEC 60079 Part 0, 1, 7, 15, 31 MASC MS/22-9001X IP66/68 100m - Parallel IFC 60529

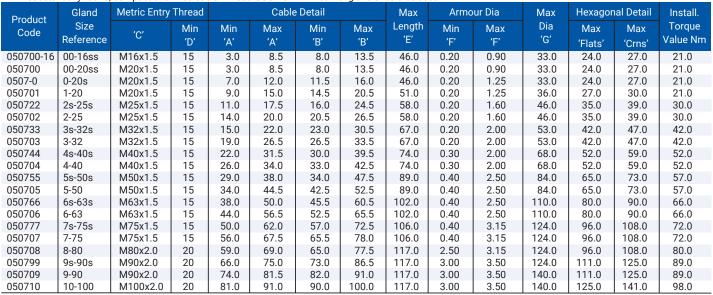
CML 15Y728 CML 19Y12327 IP68 - Tapered and approved grease IEC/EN 60529 CML 14CA370-2 **Deluge Protection** DTS-01 Corrosion Protection ASTM B117-11, BS EN ISO 3231 EXOVA N968667 ABS 20-1952706-1-PDA Marine ABS DNV-GL TAE0000010 DNV-GI

IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529 IEC 60079 Part 0, 1, 7, IEC 60529 EN 55011, + A1, EN 55022 **EMC** Compatible SGS EMC305079/1 ESS [H[[x] TABS DNVGL SHBS MASC



The cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +95°C (standard seal & HDPE sealing gasket), -60°C to +100°C (standard seal and Nylon sealing gasket) or -60°C to +120°C (extreme temp. seal & PTFE sealing gasket) depending on seal and gasket used

Note: According to IEC 60079-14, 10.6.2: An Ex d gland will only maintain Ex d integrity when used with substantially round, compact and filled cable. If not a CCG VORTEx® barrier gland should be used



All dimensions are in mm. A For use with CCG Hex Spanner. Intermediate thread sizes are available on request.

PATENTED

100m



FITTING INSTRUCTIONS

Metric Illustration



EX CORROSION GUARD® VS GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

- Must be made from materials which are compatible with the cable gland materials.

 Here a calling group around the cable gland entry point with a curface roughness.
- Have a sealing area around the cable gland entry point with a surface roughness
 Ra 6.3 µm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are sealed using the supplied sealing gasket.

MUST HAVE THREADED ENTRIES

- The same thread size as the cable gland. (Thread adapters should be used to correct any mismatch).
- · With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm.
 (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and 20.7mm).
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads).



1. For accurate sizing, use a CCG Dimension Tape (A) on the inner and outer cable sheath.



Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length
00-16ss	20.0	2-25	25.0	5s-50s	35.0	7-75	50.0
00-20ss	20.0	3s-32s	30.0	5-50	35.0	8-80	50.0
0-20s	20.0	3-32	30.0	6s-63s	45.0	9s-90s	50.0
1-20	25.0	4s-40s	30.0	6-63	45.0	9-90	50.0
2s-25s	25.0	4-40	30.0	7s-75s	50.0	10-100	60.0

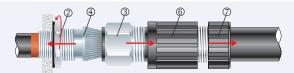
2. Cut back the cable outer sheath to expose the armour to a length as per the table above. Cut the PVC sheath exposing the copper tape or lead sheath to the length of the inner ②.



3. To maintain IP66/68, ensure the gasket 1 is in place. Screw the inner 2 into apparatus. Tighten the inner 2 to installation torque using a CCG Spanner 8.







4. Pass the corrosion guard outer nut ⑦, corrosion guard body ⑥ and the gland body ③ over the cable. Pass the cable end through the inner ② ensure the copper tape does not unravel and splay the armour wires over the cone ④.



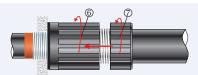
5. Screw the gland body ③ onto the inner ② and tighten the gland body ③ using a CCG Spanner ⑧ to lock the armour between the cone ④ and the cone ring ⑤.



6. Unscrew the body ③. Check that the armour has locked between the cone ④ and the cone ring ⑤. (O-Ring on the cone ring ⑤ is sacrificial). Check the copper tape or lead sheath has passed through and makes 360° contact with the earthing disc.



7. Screw the gland body ③ onto the inner ②. Tighten the gland body ③ to installation torque using a CCG Spanner ⑧.



8. Slide corrosion guard body ® and corrosion guard outer nut ⑦ over assembled gland, screw corrosion guard body ® onto the gland. Hand tighten corrosion guard body ® and corrosion guard outer nut ⑦ to produce the required dust and waterproof seal IP66/68.

You Tube Instruction Video: http://youtu.be/HWTJRdh_438