

A2EX-VS

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

COMPRESSION GLAND for Single or Multi-Core Unarmored Cable with Copper Tape, Braided, or Lead Sheath

Features and Benefits

- Indoor, outdoor, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas.
- The inner seal seals on the cable sheath.
- A harder outer seal grips the cable, giving it superior cable retention and an IP rating
- Provides 360° earthing to copper tape or lead sheath.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™), available in stainless steel 316/316L on request.
- Supplied with a thread-sealing gasket (parallel threads only).







rechnical Data	
Type:	A2EX-VS
Gland Material:	Brass (Mar
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rine Grade Electroless Nickel Plated™), Stainless Steel 316/316L Standard Thermoset Elastomer or Extreme Temperature Seals, Seal Material:

Sealing Gasket Material: Cable Type: HDPE, Nylon 66 or PTFE

Single or Multi-core with Copper Tape, Braided or Lead Sheathed Sealing Area: Taper Seal on the Outer Sheath. Compression seal on inner copper sheath Optional Accessories: Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud Note: The installer should ensure that the materials are suitable for the installation



IECEX/INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da Equipment Protection Levels:

ATEX/UKEX: ((x) II 2/3G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da TR CU: 1 1 1 Ex d IIC Gb X / 1 Ex e IIC Gb X / 2 Ex nR IIC Gc X / Ex ta IIIC Da X

CCC: Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da

Standard Seals: -60°C to +95°C/100°C (HDPE/Nylon Sealing Gasket) Continuous Operating Temp:

Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket)

Conformance: Standard: Certificate:

IEC/BS EN IEC/BS EN 62444, 6121 CMI 14CA364 IECEx CML 20.0011 IEC 60079 Part 0, 1, 7, 15, 31 **IECEx** EN 60079 Part 0, 1, 7, 31 **ATEX** CML 20ATEX1026 CML 22ATEX4116 EN 60079 Part 0, 15 **UKEX** BS EN 60079 Part 0, 1, 7, 31 CML 21UKEX1013 BS EN 60079 Part 0, 15 CML 22UKEX4117 INMETRO (Brazil)

ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31 TÜV 24 0267 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 CCC/CNEx (Chinese) GB/T3836.1, 2, 3, 31-2021 CNEx 21.3386X

CCC 2021312313000395

SANS SANS/IEC 60079 Part 0, 1, 7, 15, 31 MASC S/20-9022 IP66/68 100m - Parallel IEC 60529 CML 15Y728

IP65/66 - Tapered IEC 60529 IP68 - Tapered and approved grease IEC 60529 **Deluge Protection** DTS-01 Corrosion Protection

ASTM B117-11, BS EN ISO 3231 IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529 IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529 EXOVA N968667 25-0164964-PDA Marine ABS DNV TAE0000010 **EMC** Compatible EN 55011, + A1, EN 55022

CE CK SGS [H[[x] LABS]

SGS EMC305079/1

IECEx CML 20.0011

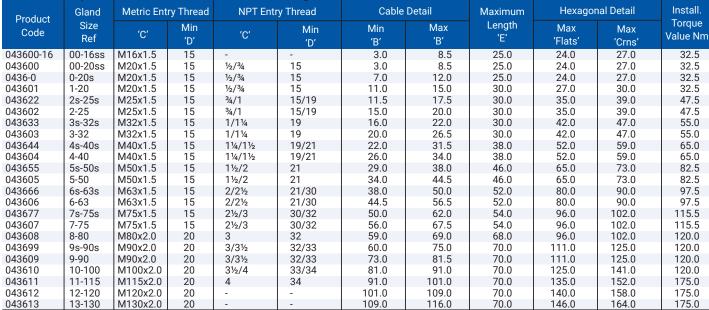
CML 14CA370-2





Note: According to IEC 60079-14, 10.6.2: An Ex d gland will only maintain Ex d integrity when used with substantially

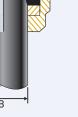
round, compact and filled cable. If not a CCG VORTEx® barrier gland should be used



All dimensions except NPT are in mm. Intermediate thread sizes are available on request. NPT threads should be tightened 'wrench tight'.







PATENTED

earth tag car be fitted between

FITTING INSTRUCTIONS

Metric Illustration



A2EX-VS COMPRESSION GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

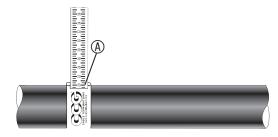
- Must be made from materials which are compatible with the cable gland materials
- Have a sealing area around the cable gland entry point with a surface roughness < Ra 6.3 $\mu m.$
- Have entries that are perpendicular to the enclosure face in the area where the cable
- gland will seal to within 2.5°. Are sealed using the supplied sealing gasket (parallel threads) or by fully tightening into a threaded entry (tapered threads). Note that for tapered threads the IP rating can be improved to IP68 with the use of a suitable thread sealant.

MUST HAVE THREADED ENTRIES

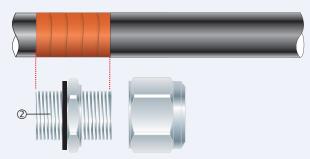
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
 Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

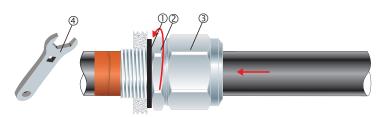
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)



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



Cut the PVC sheath exposing the copper tape to the length of the inner ②



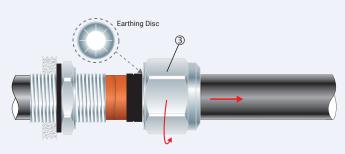
To maintain IP66/68, ensure the thread gasket ${\mathfrak Q}$ is in place. Screw the gland unit into the apparatus. Tighten the inner ② using a CCG Spanner ④. Pass the cable end through the outer nut 3 and earth disc and seal.

Alternative installation through an unthreaded entry.

If the apparatus is untapped use a locknut.



If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical



Unscrew the outer nut ③. Withdraw the cable. Check that the copper tape has passed through and makes 360° contact with the earthing disc.



5. Tighten the outer nut ③ to the installation torque using a CCG Spanner ④ to produce a seal and grip on the cable.