

VARITE×™

Ex eb IIC, Ex ta IIIC Da COMPRESSION GLAND for Copper Tape Cable

Features and Benefits

- For indoors, outdoors, Group II, III, Zone 1, 2, 21 and 22 hazardous areas.
- Two-piece handling, no loose parts.
- Independent tightening of the coil induces an inspectable positive contact on copper tape.
- Factory-fitted captive elastomeric seal for Built-in Safety™ .
- Seals on the outer sheath of the cable to IP66.
- 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) and heavy-duty locknut.

| Technical Data | |
|---------------------------|---|
| Туре: | VARITEx™ (VRTX) |
| Gland Material: | Brass (Marine Grade Electroless Nickel Plated™), Stainless Steel 316/316L |
| Seal Material: | Standard Thermoset Elastomer or Extreme Temperature Seals |
| Sealing Gasket Material: | HDPE, Nylon 66 or PTFE |
| Cable Type: | Copper Tape |
| Sealing Area: | Compression Seal on the Outer 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 environment. |
| Chandende and Cartificati | |

IECEx/INMETRO: Ex e IIC Gb, Ex ta IIIC Da

Standards and Certifications

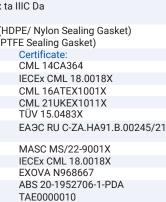
| Equipment | Protection | Levels: |
|-----------|------------|---------|
|-----------|------------|---------|

IECEx

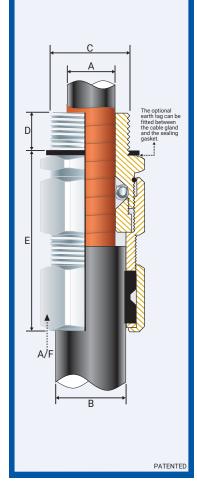
ATEX UKEX

SANS

ATEX/UKEX: 🐼 II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da TR CU: 🖬 1Ex e IIC Gb 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 +160°C (PTFE Sealing Gasket) Conformance: Standard: IEC/BS EN IEC/BS EN 62444 IEC 60079 Part 0, 7, 31 EN 60079 Part 0, 7, 31 BS EN 60079 Part 0, 7, 31 INMETRO (Brazil) ABNT NBR IEC 60079 Part 0, 7, 31 ГОСТ 31610-0, 15, ГОСТ IEC 60079-1 ГОСТ Р МЭК 60079-7, 31 TR CU (Russia) SANS/IEC 60079 Part 0, 1, 7, 15, 31 IP66 - Parallel IEC 60529 **Corrosion Protection** ASTM B117-11, BS EN ISO 3231 Marine ABS IEC 60079 Part 0, 7, 31 IEC 60529 DNV IEC 60079 Part 0, 7, 31 IEC 60529 **EMC** Compatible EN 55011, + A1, EN 55022



SGS EMC305079/1



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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 +160°C (extreme temp. seal & PTFE sealing gasket) depending on seal and gasket used.

The cable glands may only be used on fixed installations where the cable is clamped or stress applied to the

| Product Code | Cable Conductor | Gland Size Reference | Metric Entry Thread | | Cable Detail | | | | Maximum | Hexagonal Detail | | Installation |
|-----------------|--------------------|----------------------------|---------------------|------------|-----------------|---------|---------|---------|---------|------------------|--------|--------------|
| | | | ʻC' | Min 'D' | Inner Over Tape | | Outer | | Length | Max | Max | Torque |
| | Size | | | | Min 'A' | Max 'A' | Min 'B' | Max 'B' | Έ' | 'Flats' | 'Crns' | Value Nm |
| 0531-0S | 2.5 | 0-20s | M20x1.5 | 15 | 9.6 | 11.5 | 13.0 | 20.0 | 61.0 | 30.0 | 34.0 | 23.1 |
| 0531-0 | 4.0 | 0-20 | M20x1.5 | 15 | 10.8 | 12.5 | 13.0 | 20.0 | 61.0 | 30.0 | 34.0 | 23.1 |
| 053101 | 6.0 | 1-20 | M20x1.5 | 15 | 12.2 | 14.0 | 13.0 | 20.0 | 61.0 | 30.0 | 34.0 | 23.1 |
| 053122 | 10.0 | 2s-25s | M25x1.5 | 15 | 13.8 | 16.0 | 18.0 | 26.0 | 64.0 | 38.0 | 43.0 | 33.0 |
| 053102 | 16.0 | 2-25 | M25x1.5 | 15 | 16.0 | 20.0 | 18.0 | 26.0 | 65.0 | 38.0 | 43.0 | 33.0 |
| 053133 | 25.0 | 3s-32s | M32x1.5 | 15 | 20.0 | 23.0 | 23.0 | 28.0 | 68.0 | 45.0 | 51.0 | 46.2 |
| 053103 | 35.0 | 3-32 | M32x1.5 | 15 | 22.0 | 23.5 | 23.0 | 28.0 | 68.0 | 45.0 | 51.0 | 46.2 |
| 053144 | 50.0 | 4s-40s | M40x1.5 | 17 | 23.5 | 28.0 | 28.0 | 39.5 | 75.0 | 55.0 | 62.0 | 57.2 |
| 053104 | 70.0 | 4-40 | M40x1.5 | 17 | 28.0 | 32.0 | 28.0 | 39.5 | 74.0 | 55.0 | 62.0 | 57.2 |
| 053155 | 95.0 | 5s-50s | M50x1.5 | 17 | 32.0 | 36.0 | 35.2 | 42.0 | 81.0 | 65.0 | 73.0 | 62.7 |
| 053105 | 120.0 | 5-50 | M50x1.5 | 17 | 35.5 | 39.0 | 40.0 | 46.0 | 85.0 | 65.0 | 73.0 | 62.7 |
| 053166 | 150.0 | 6s-63s | M63x1.5 | 17 | 39.0 | 45.0 | 45.5 | 54.0 | 85.0 | 80.0 | 90.0 | 72.6 |
| 053106 | 185.0 | 6-63 | M63x1.5 | 17 | 44.0 | 49.5 | 45.5 | 54.0 | 85.0 | 80.0 | 90.0 | 72.6 |
| 053106L | 240.0 | 6L-63L | M63x1.5 | 17 | 49.0 | 54.0 | 54.6 | 62.0 | 83.0 | 80.0 | 90.0 | 72.6 |
| 053107 | 300.0 | 7-75 | M75x1.5 | 17 | 54.0 | 59.0 | 59.0 | 72.1 | 93.0 | 96.0 | 108.0 | 72.0 |
| 053108 | 300.0 | 8-80 | M80x2.0 | 17 | 59.0 | 64.0 | 65.0 | 77.5 | 93.0 | 96.0 | 108.0 | 72.0 |

All dimensions are in mm. Intermediate thread sizes are available on request.

CCG reserves the right to make alterations to the technical data, dimensions, designs and products available without notice. The illustrations cannot be considered binding. Please contact CCG for assistance

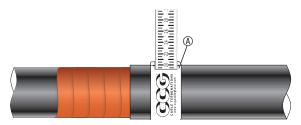
FITTING INSTRUCTIONS Metric Illustration



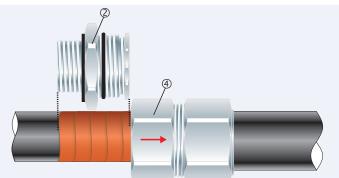
VARITEx[™] COMPRESSION GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

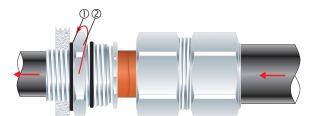
- Must be made from materials which are compatible with the cable gland materials.
 Have a sealing area around the cable gland entry point with a surface roughness < Ra 6.3 µm.
- Have on trities that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- 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



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



2. Screw the body ④ off and pass the cable end through the body ④. Cut the PVC sheath exposing the copper tape to the length of the inner ②.



To maintain IP66/68 ensure gasket ① is in place. Screw the inner ② into the apparatus.
 Pass the cable through the inner ②.

Alternative installation through an unthreaded entry

any mismatch)

20.7mm)

other applications

OR CLEARANCE HOLES (not Ex d)

With a thread tolerance of metric class '6H' or equivalent.

accommodated using glands with extended entry threads.)

Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all

Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm.

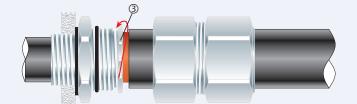
Through material that is between 1mm and 12mm thick. (Thicker materials can be

(e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and

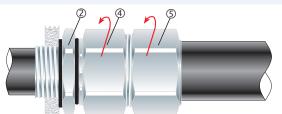
If the apparatus is untapped use a locknut.



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 Insulating Compound.



4. Tighten the compression nut ③ until the coil is in contact with the tape, then turn a half turn.



5. Tighten the body ④ onto the inner ②. Tighten the outer nut ⑤ to produce a moisture proof seal by turning till the seal makes contact with the outer sheath of the cable and then make one full turn.

You Tube Instruction Video: http://youtu.be/f50RAE60jTQ