

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 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

VARITEx™ (VRTX)

Gland Material: Brass (Marine Grade Electroless Nickel Plated™), Stainless Steel 316/316L

Seal Material: Standard Thermoset Elastomer or Extreme Temperature Seals

HDPE, Nylon 66 or PTFE Sealing Gasket Material:

Cable Type: Copper Tape

Compression Seal on the Outer Sheath Sealing Area:

Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud **Optional Accessories:**

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

environment.

Standards and Certifications

IECEx/INMETRO: Ex e IIC Gb, Ex ta IIIC Da **Equipment Protection Levels:**

ATEX/UKEX: @ II 2G 1D, Ex eb IIC Gb, Ex ta IIIC Da

TR CU: 1 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:

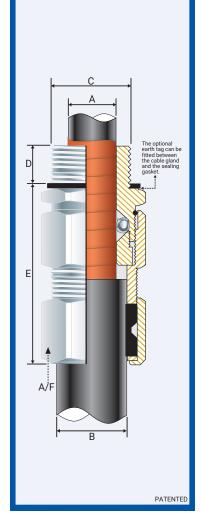
Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket)

TÜV 15.0483X

Conformance: Standard: Certificate: IEC/BS EN IEC/BS EN 62444 CML 14CA364 IEC 60079 Part 0, 7, 31 IECEx CML 18.0018X **IECEx** EN 60079 Part 0, 7, 31 CML 16ATEX1001X **ATEX** BS EN 60079 Part 0, 7, 31 **UKEX** CML 21UKEX1011X

INMETRO (Brazil) ABNT NBR IEC 60079 Part 0, 7, 31 EA9C RU C-ZA.HA91.B.00245/21

ГОСТ 31610-0, 15, ГОСТ IEC 60079-1 ГОСТ Р МЭК 60079-7, 31 TR CU (Russia) SANS SANS/IEC 60079 Part 0, 1, 7, 15, 31 MASC MS/22-9001X IP66 - Parallel IFC 60529 IECEx CML 18.0018X Corrosion Protection ASTM B117-11, BS EN ISO 3231 EXOVA N968667 Marine ABS IEC 60079 Part 0, 7, 31 IEC 60529 ABS 20-1952706-1-PDA DNV-GL IEC 60079 Part 0, 7, 31 IEC 60529 DNV-GL TAE0000010 **EMC Compatible** EN 55011, + A1, EN 55022 SGS EMC305079/1





CE CH COM SGS [H[[x] SABS DNV-GL SIN AND SIN

- 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 cable in the gland is prevented.

Product Code	Cable Conductor	Gland Size	Metric Entry Thread		Cable Detail				Maximum	Hexagonal Detail		Installation
			'C'	Min	Inner Over Tape		Outer		Length	Max	Max	Torque
Oode	Size	Reference	U	'D'	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.

FITTING INSTRUCTIONS

Metric Illustration



VARITEx™ COMPRESSION GLAND

ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

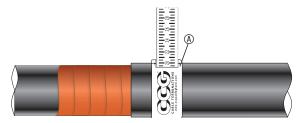
- Must be made from materials which are compatible with the cable gland materials. Have a sealing area around the cable gland entry point with a surface roughness
- < Ra 6.3 μm.
- Have entries that are perpendicular to the enclosure face in the area where the cable gland will seal to within 2.5°.
- Are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

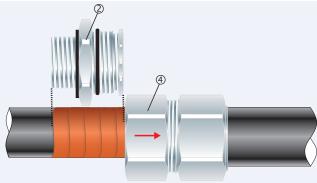
- The same thread size as the cable gland. (Thread adapters should be used to correct
- any mismatch).
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

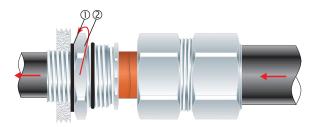
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)



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

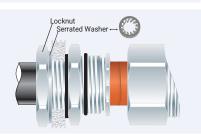


3. To maintain IP66/68 ensure gasket $\ensuremath{\mathbb{O}}$ is in place. Screw the inner $\ensuremath{\mathbb{Q}}$ into the apparatus.

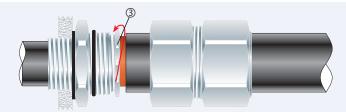
Pass the cable through the inner ②.

Alternative installation through an unthreaded entry

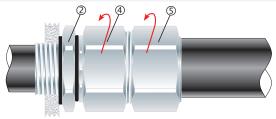
If the apparatus is untapped use a locknut.



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 Insulating Compound.



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