



Ex CORROSION GUARD®

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

CABLE GLAND for Lead Sheathed Cable

Features and Benefits

- For highly corrosive, wet locations, Group II, III, Zone 1, 2, 20, 21 and 22 hazardous areas.
- Cable gland is precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™).
- **Lead seals are supplied to match the exact dimensions of cable given by the customer.**
- Two-part handling, freely rotating captive cone and inspectible cone ring provides an armour clamp and earth bond for steel wire 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. Supplied with a thread sealing gasket.



Technical Data

Type:	Ex Corrosion Guard® Lead Seal
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™)
Corrosion Guard Material:	Glass Reinforced Polyester Compound / PBT
Seal Material:	Standard Thermoset Elastomer or Extreme Temperature Seal and Lead
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE
Cable Type:	Steel Wire Armour, Lead Sheath
Armour Clamping:	Captive Rotating Cone and Inspectible Cone Ring
Sealing Area:	Inner Lead Sheath, Outer Sheath and total enclosure of the gland
Optional Accessories:	Adaptor, Reducer, Locknut and Serrated Washer
Note:	The installer should ensure that the materials are suitable for the installation environment.

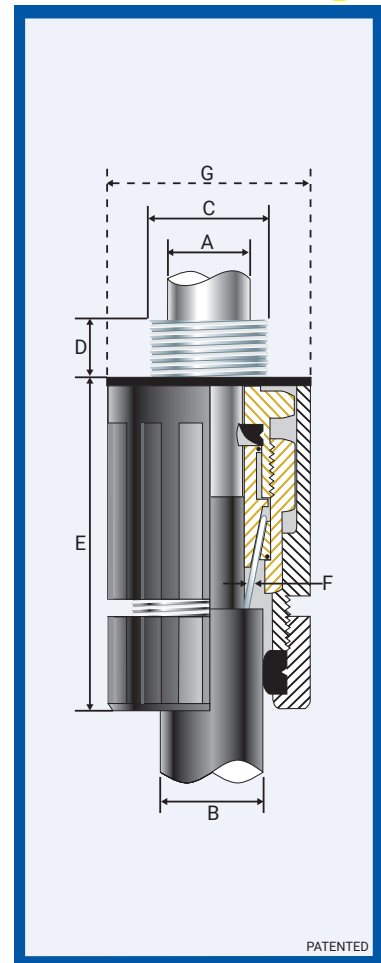
Standards and Certifications

Equipment Protection Levels:	IECEX/INMETRO: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da ATEX/UKEX: Ex II 2/3G 1D, Ex db IIC Gb, Ex eb IIC Gb, Ex ta IIIC Da, Ex nR IIC Gc TR CU: Ex 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex tb IIIC Db X	
Continuous Operating Temp:	Standard Seals: -60°C to +95°C / 100°C (HDPE/ Nylon Sealing Gasket) Extreme Temp. Seals: -60°C to +120°C (PTFE Sealing Gasket)	
Conformance:	Standard:	Certificate:
IEC/BS EN	IEC/BS EN 62444	CML 14CA364
IECEX	IEC 60079 Part 0, 1, 7, 15, 31	IECEX CML 18.0018X
ATEX	EN 60079 Part 0, 1, 7, 31	CML 16ATEX1001X
	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
TR CU (Russia)	ГОСТ 31610-0, 15, ГОСТ IEC 60079-1	EA9C RU C-ZA.HA91.B.00245/21
	ГОСТ P MЭК 60079-7, 31	
SANS	SANS/IEC 60079 Part 0, 1, 7, 15, 31	MASC MS/22-9001X
IP66/68 100m - Parallel	IEC 60529	CML 15Y728
IP68 - Tapered and approved grease	IEC 60529	IECEX CML 18.0018X
Deluge Protection	DTS-01	CML 14CA370-2
Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667
Marine ABS	IEC 60079 Part 0, 1, 7, 15, 31, IEC 60529	ABS 20-1952706-1-PDA
DNV-GL	IEC 60079 Part 0, 1, 7, IEC 60529	DNV-GL TAE0000010
EMC Compatible	EN 55011, + A1, EN 55022	SGS EMC305079/1



Conditions for Safe Use - X

- The cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +95°C (standard seals & HDPE sealing gaskets), -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® or QuickStop-Ex® barrier gland should be used.



Product Code	Gland Size Reference	Metric Entry Thread		Cable Detail				Max Length 'E'	Armour Dia		Maximum Dia 'G'	Hexagonal Detail		Install. Torque Value Nm
		'C'	Min 'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'		Min 'F'	Max 'F'		Max 'Flats'	Max 'Crns'	
054800-16-LS	00-16ss	M16x1.5	15	3.0	8.0	8.0	13.5	62.0	0.20	0.90	33.0	24/27	27/30	35.0
054800-LS	00-20ss	M20x1.5	15	3.0	8.0	8.0	13.5	62.0	0.20	0.90	33.0	24/27	27/30	35.0
0548-0-LS	0-20s	M20x1.5	15	8.0	12.0	11.5	16.0	62.0	0.20	1.25	33.0	24/27	27/30	35.0
054801-LS	1-20	M20x1.5	15	11.0	15.0	14.5	20.5	75.0	0.20	1.25	36.0	27	30	35.0
054802s-LS	2s-25s	M25x1.5	15	13.0	16.5	16.0	24.5	90.0	0.20	1.60	46.0	35	39	50.0
054802-LS	2-25	M25x1.5	15	13.0	16.5	20.5	26.5	90.0	0.20	1.60	46.0	35	39	50.0
054803s-LS	3s-32s	M32x1.5	15	16.0	19.0	23.0	30.5	94.0	0.20	2.00	53.0	42	47	70.0
054803-LS	3-32	M32x1.5	15	18.0	20.5	26.5	33.5	94.0	0.20	2.00	53.0	42	47	70.0
054804s-LS	4s-40s	M40x1.5	20	20.5	25.0	30.0	39.5	105.0	0.30	2.00	68.0	52	59	90.0
054804-LS	4-40	M40x1.5	20	25.0	29.0	33.0	42.5	105.0	0.30	2.00	68.0	52	59	90.0
054805s-LS	5s-50s	M50x1.5	20	28.5	34.0	34.0	47.5	125.0	0.40	2.50	84.0	65	73	100.0
054805-LS	5-50	M50x1.5	20	33.5	36.0	42.5	52.5	125.0	0.40	2.50	84.0	65	73	100.0
054806s-LS	6s-63s	M63x1.5	20	35.5	39.0	45.5	60.5	125.0	0.40	2.50	110.0	80	90	120.0
054806m-LS	6m-63m	M63x1.5	20	38.5	42.0	52.5	65.5	125.0	0.40	2.50	110.0	80	90	120.0
054806L-LS	6L-63L	M63x1.5	20	41.5	44.0	52.5	65.5	125.0	0.40	2.50	110.0	80	90	120.0
054807s-LS	7s-75s	M75x1.5	20	43.0	49.0	57.0	72.5	172.0	0.40	3.00	124.0	96	108	120.0
054807m-LS	7m-75m	M75x1.5	20	48.0	56.0	65.0	78.0	172.0	0.40	3.00	124.0	96	108	120.0
054807L-LS	7L-75L	M75x1.5	20	56.0	59.0	65.5	78.0	172.0	0.40	3.00	124.0	96	108	120.0
054808-LS	8-80-LS	M80x2.0	20	59.0	66.0	65.0	77.5	175.0	2.50	3.15	124.0	96	108	120.0
054809s-LS	9s-90s-LS	M90x2.0	20	66.0	73.0	73.0	86.5	184.0	3.00	3.50	124.0	111	125	120.0
054809-LS	9-90-LS	M90x2.0	20	73.0	79.0	82.0	90.5	184.0	3.00	3.50	140.0	111	125	120.0
054810-LS	10-100-LS	M100x2.0	20	78.0	88.0	91.0	100.0	189.0	3.00	3.50	140.0	125	141	120.0

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.

EXCGLS-GH010622

EX CORROSION GUARD® LEAD SEAL GLAND

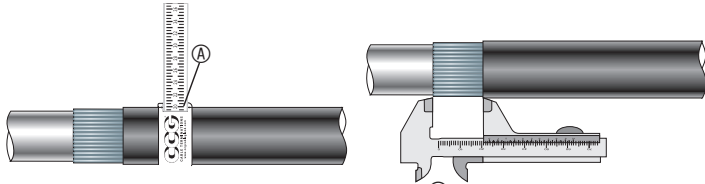
ENCLOSURES AND EQUIPMENT TO WHICH CABLE GLANDS ARE FITTED:-

- 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 <math>< Ra 6.3 \mu m</math>.
- 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

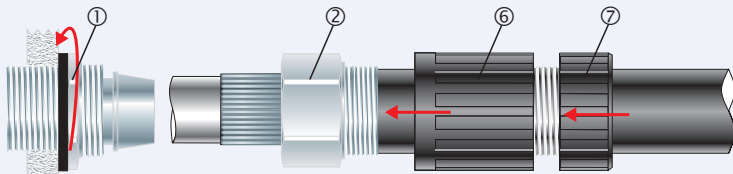
- The same thread size as the cable gland. (Thread adapters should be used to correct any mismatch).

- 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).

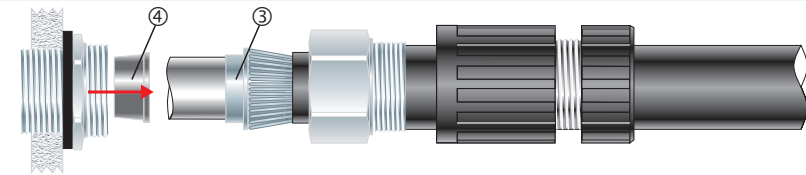


Gland Size	Armour Length	Gland Size	Armour Length	Gland Size	Armour Length
00-16ss	20.0	3s-32s	30.0	5-50	35.0
00-20ss	20.0	3-32	30.0	6s-63s	45.0
0-20s	20.0	4s-40s	30.0	6m-63m	45.0
1-20	25.0	4-40	30.0	6l-63l	45.0
2-25	25.0	5s-50s	35.0	7-75	50.0

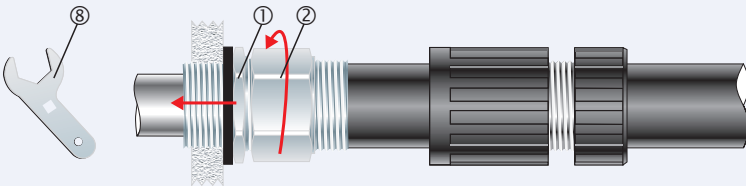
1. For accurate sizing, use a CCG Dimension Tape (A) on the inner and outer cable sheath. Cut back the cable outer sheath to expose the armour to a length as per the table above. Cut back inner sheath to just before the armouring to expose lead sheath.



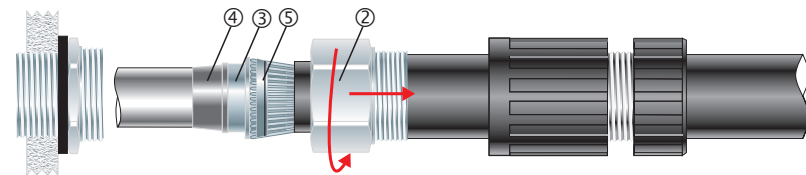
2. To maintain IP66/68, ensure the gasket is in place. Screw the inner (1) into the apparatus and tighten the inner (1). Pass the cable end through the corrosion guard outer nut (7), the corrosion guard body (6) and the gland body (3).



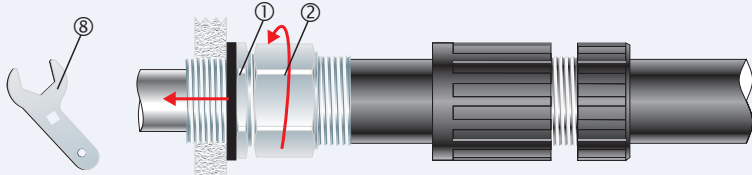
3. Pass the lead seal (4) over the lead sheath. Splay the armour wires over the cone (3).



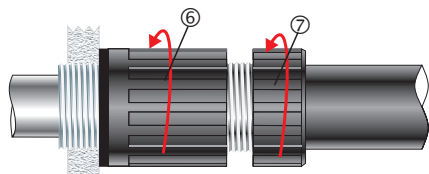
4. Pass the cable end through the inner (1) and screw the gland body (2) onto the inner (1) to installation torque using a CCG Spanner (8).



5. Unscrew the gland body (2). Check that lead seal (4) has bonded onto the lead of the cable (lead seal must be tight). Check that the armouring has locked between the cone (3) and the cone ring (5) (O-Ring on the cone ring (5) is sacrificial).

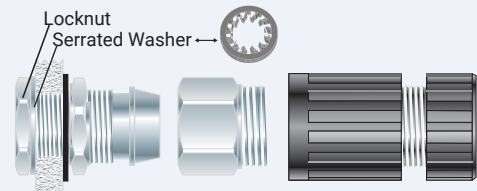


6. Tighten the gland body (2) onto the inner (1) until hand tight, then tighten with a CCG Spanner (8) with 3/4 turn to lock the armour between the cone (3) and the cone ring (5).



7. Slide the corrosion guard body (6) and the corrosion guard outer nut (7) over assembled gland, screw the corrosion guard body (6) onto the gland. **Hand tighten** the corrosion guard body (6) and the corrosion guard outer nut (7) to produce the required dust and waterproof seal IP66/68.

Alternative installation through an unthreaded entry.



If the apparatus is untapped use a locknut.