

## **CWe** Ex eb IIC, Ex ta IIIC CABLE GLAND WITH VARIABLE DELUGE SEAL<sup>™</sup> for Steel Wire and Aluminium Armour Cable



- For indoor, outdoor Group II and III, Zone 1, 2, 20, 21 and 22 hazardous areas. Two-piece handling, no loose parts. Freely rotating captive cone and inspectible cone ring provides an armour clamp and earth bond without twisting the armouring. With a patented Variable Deluge Seal<sup>™</sup> as standard.
- Provides a seal on the outer sheath of the cable sealing to IP68.
- Patented disconnect armoured clamp system for ease of inspection.
- Precision manufactured from high-quality brass (Marine Grade Electroless Nickel Plated™) available aluminium or stainless steel 316/316L on request.
- Supplied with a thread sealing gasket (parallel threads only).

Technical Data							
Туре:	CWe						
Gland Material:	Brass (Marine Grade Electroless Nickel Plated <sup>™</sup> ) Aluminium ASTM B221, Stainless Steel 316/316L						
Seal Material:	Thermoset Elastomer or Silicon on reques	st					
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE						
Cable Type:	Steel Wire Armour, Aluminium Armour Wire						
Armour Clamping:	Rotating Captive Cone and Inspectible Cone Ring						
Sealing Area:	Outer Sheath and Variable Deluge Seal™						
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.						
Standards and Certifications							
Equipment Protection Levels:	IECEX/INMETRO: Ex eb IIC Gb, Ex ta IIIC Da						
	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						
Continuous Operating Temp:	Standard Seals: -60°C to +95°C/100°C (H Extreme Temp. Seals: -60°C to +160°C (P						
Conformance:	Standard:	Certificate:					
IEC/BS EN	IEC/BS EN 62444	CML 14CA364					
IECEx	IEC 60079 Part 0, 7, 31	IECEx CML 18.0018X					
ATEX	EN 60079 Part 0, 7, 31	CML 16ATEX1001X					
UKEX	BS EN 60079 Parts 0, 1, 7, 31	CML 21UKEX1011X					
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 ГОСТ Р МЭК 60079-7, 31	EA9C RU C-ZA.HA91.B.00245/21					
SANS	SANS/IEC 60079 Part 0, 1, 7, 15, 31	MASC MS/22-9001X					

IP66/68 850m - Parallel IEC 60529 IP65 - Tapered IP68 - Tapered and approved grease Deluge Protection IEC 60529 IEC 60529 DTS-01 ASTM B117-11, BS EN ISO 3231 Corrosion Protection IEC/EN 60079 Part 0, 1, 7, 15, 31 IEC 60079 Part 0, 1, 7, IEC 60529 Marine ABS DNV-GI **EMC** Compatible EN 55011, + A1, EN 55022

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Conditions for Safe Use - X

The cable gland shall only be used where the temperature, at the point of entry, is between-60°C to +95°C (standard seal and HDPE sealing gasket), -60°C to +100° (standard seal and Nylon sealing gasket) or -60°C to 160°C (extreme temp. seal & PTFE sealing gasket) depending on seal and gasket used.

Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail		Max	Armour Dia		Hexagonal Detail		Install	
		'C'	Min 'D'	'C'	Min 'D'	Max 'A'	Min 'B'	Max 'B'	Length 'E'	Min 'F'	Max 'F'	Max 'Flats'	Max 'Crns'	Torque Value Nm
055700-16	00-16ss	M16x1.5	15	-	-	8.5	8.0	13.5	41.0	0.90	0.90	24.0	27.0	35.0
055700	00-20ss	M20x1.5	15	1/2/3/4	15	8.5	8.0	13.5	41.0	0.90	0.90	24.0	27.0	35.0
0557-0-16	0-16s	M16x1.5	15	1/2/3/4	15	10.5	11.5	16.0	43.0	0.90	1.25	24.0	27.0	35.0
0557-0	0-20s	M20x1.5	15	1/2/3/4	15	12.0	11.5	16.0	43.0	0.90	1.25	24.0	27.0	35.0
055701	1-20	M20x1.5	15	1/2/3/4	15	15.0	14.5	20.5	47.0	0.90	1.25	27.0	30.0	35.0
055722	2s-25s	M25x1.5	15	3⁄4/1	15/19	17.5	16.0	24.5	56.0	1.25	1.60	35.0	39.0	50.0
055702	2-25	M25x1.5	15	3⁄4/1	15/19	20.0	20.5	26.5	56.0	1.25	1.60	35.0	39.0	50.0
055733	3s-32	M32x1.5	15	1/1¼	19	22.0	23.0	30.5	57.0	1.60	2.00	42.0	47.0	70.0
055703	3-32	M32x1.5	15	1/1¼	19	26.5	26.5	33.5	57.0	1.60	2.00	42.0	47.0	70.0
055744	4s-40s	M40x1.5	15	11/4/11/2	19/21	31.5	30.0	39.5	68.0	1.60	2.00	52.0	59.0	90.0
055704	4-40	M40x1.5	15	11/4/11/2	19/21	34.0	33.0	42.5	68.0	1.60	2.00	52.0	59.0	90.0
055755	5s-50s	M50x1.5	15	1½/2	21	38.0	34.0	47.5	72.0	2.00	2.50	65.0	73.0	100.0
055705	5-50	M50x1.5	15	1½/2	21	38.0/44.5	42.5	52.5	72.0	2.00	2.50	65.0	73.0	100.0
055766	6s-63s	M63x1.5	15	2/21/2	21/30	50.0	45.5	60.5	89.0	2.00	2.50	80.0	90.0	120.0
055706	6-63	M63x1.5	15	2/21/2	21/30	50.0/56.5	52.5	65.5	89.0	2.00	2.50	80.0	90.0	120.0
055777	7s-75s	M75x1.5	15	21/2/3	30/32	62.0	57.0	72.5	97.0	2.50	3.15	96.0	108.0	120.0
055707	7-75	M75x1.5	15	21/2/3	30/32	62.0/67.5	65.5	78.0	97.0	2.50	3.15	96.0	108.0	120.0
055788	8s-80s	M80x2.0	20	3	32	69.0	65.0	77.5	98.0	2.50	3.15	96.0	108.0	120.0
055708	8-80	M80x2.0	20	3	32	74.0	78.0	82.0	98.0	2.50	3.15	96.0	108.0	120.0
055799	9s-90s	M90x2.0	20	3/31/2	32/33	75.0	73.0	86.5	123.0	3.00	3.50	111.0	125.0	120.0
055709	9-90	M90x2.0	20	3/31/2	32/33	75.0/81.5	82.0	91.0	123.0	3.00	3.50	111.0	125.0	120.0
055710	10-100	M100x2.0	20	31⁄2/4	33/34	91.0	90.0	100.0	124.0	3.00	3.50	125.0	141.0	120.0
055711	11-115	M115x2.0	20	4	34	98.0	100.0	114.0	134.0	3.00	4.00	135.0	152.0	120.0
055712	12-120	M120x2.0	20	-	-	103.0	103.0	118.0	136.0	3.00	4.00	140.0	158.0	120.0
055713	13-130	M130x2.0	20	-	-	115.0	113.0	124.0	140.0	3.00	4.00	146.0	164.0	120.0

CML 15Y728

IEC Ex CML 18.0018X CML 14CA370-2

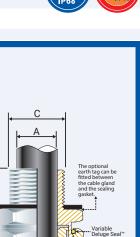
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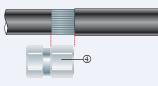
## FITTING INSTRUCTIONS Metric Illustration



## **CWe GLAND WITH VARIABLE DELUGE SEAL™**

- 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

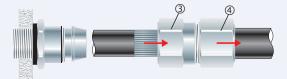




Cut back the cable outer sheath to expose the armour to a length not more than the outer nut ④.



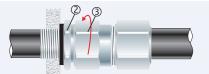
3. To maintain IP66/68, ensure the gasket ① is in place. Screw the inner ② into the apparatus. Tighten the inner ② to the installation torque using a CCG Spanner  $\bigcirc$ .



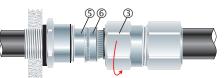
4. Pass the outer nut 3 and body 3 over the cable.



5. Pass cable end through the inner 2 and splay the armour wires over the cone 5.



6. Tighten the body ③ onto the inner ② until hand tight, then tighten with a CCG Spanner ⑦ with ¾ turn to lock the armour between the cone ⑤ and the cone ring ⑥.



7. Unscrew the body ③. Check that the armouring has locked between the cone ⑤ and the cone ring ⑥. (O-Ring on the cone ring ⑥ is sacrificial).



8. Screw the body ③ onto the inner ② and tighten the body ③ to the installation torque using a CCG Spanner ⑦. The Variable Deluge Seal<sup>™</sup> will engage automatically as the body is tightened onto the inner ②. Tighten the outer nut ④ to produce a moisture-proof seal by turning until the seal makes contact with outer sheath of cable then make one full turn.

- 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.)





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 Compound.