

CWe Ex eb IIC, Ex ta IIIC

CABLE GLAND WITH VARIABLE DELUGE SEAL[™] for Steel Wire and Aluminium Armour Cable

Features and Benefits

- For indoor and 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[™] 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 in aluminium or stainless steel 316/316L on request.
- Supplied with a thread-sealing gasket (parallel threads only).

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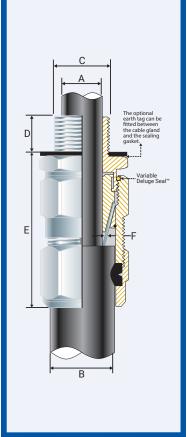
Туре:	CWe
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™) Aluminium ASTM B221, Stainless Steel 316/316L
Seal Material:	Thermoset Elastomer or Silicon on request
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE
Cable Type:	Steel Wire Armour, Aluminium Armour Wire
Armour Clamping:	Rotating 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 Certification	IS
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 Onersting Tanan	Chanderd Cooley (0°C to 105°C (100°C (UDDE (Nuler Cooling Coolest)

Continuous Operating Temp:

Conformance:
IEC/BS EN
IECEx
ATEX
UKEX
INMETRO (Brazil)
TR CU (Russia)
SANS
IP66/68 850m - Parallel
IP65 - Tapered
IP68 - Tapered and approved
Deluge Protection
Corrosion Protection
Marine ABS
DNV

EMC Compatible

Standard Seals: -60°C to +95°C/100°C (HDPE/Nylon Sealing Gasket) Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket) Standard: Certificate **IEC/BS EN 62444** CML 14CA364 IEC 60079 Part 0, 7, 31 IECEx CML 18.0018X EN 60079 Part 0, 7, 31 EN 60079 Part 0, 7, 31 BS EN 60079 Parts 0, 1, 7, 31 ABNT NBR IEC 60079 Part 0, 1, 7, 15, 31 FOCT 31610-0, 15, FOCT IEC 60079-1 FOCT P MƏK 60079-7, 31 CML 16ATEX1001X CML 21UKEX1011X TÜV 15.0483X EA9C RU C-ZA.HA91.B.00245/21 SANS/IEC 60079 Part 0, 1, 7, 15, 31 MASC MS/22-9001X IEC 60529 CML 15Y728 IEC 60529 IEC Ex CML 18.0018X CML 14CA370-2 d grease IEC 60529 **DTS-01** ASTM B117-11, BS EN ISO 3231 IEC/EN 60079 Part 0, 1, 7, 15, 31 IEC 60079 Part 0, 1, 7, IEC 60529 EXOVA N968667 ABS 20-1952706-1-PDA TAE0000010 EN 55011, + A1, EN 55022 SGS EMC305079/1



CECK 🚾 SGS [ALE 🖾 🖗 ABS 🚃 📖 🎣 🞚 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 Si	Gland	and Metric Entry T		Thread NPT Entry Thread		Cable Detail		Max	Armour Dia		Hexagonal Detail		Install	
	Size Reference	'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

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



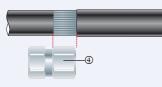
CWe GLAND WITH VARIABLE DELUGE SEAL™

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



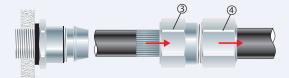
1. For accurate sizing, use a CCG Dimension Tape (A) on the inner and outer cable sheath.



Cut back the cable outer sheath to expose the armour to a length not more than the outer nut ④. 2.



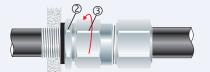
To maintain IP66/68, ensure the gasket ${\mathbb O}$ is in place. Screw the inner ${\mathbb O}$ into the 3. apparatus. Tighten the inner O to the installation torque using a CCG Spanner O



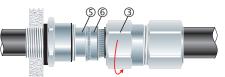
4. Pass the outer nut ④ and body ③ over the cable.



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



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 6. 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™ 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 the outer sheath of the cable, then make one full turn.

- 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 +0.7 mm. (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.)

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 Compound.