

CWe

Ex eb IIC, Ex tb IIIC

CABLE GLAND WITH DELUGE SEAL for Steel Wire and Aluminium Armour Cable



Features and Benefits

- For indoor, outdoor Group II and III, Zone 1, 2, 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.
- Deluge seal fitted as a 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 stainless steel 316/316L on request.
- Complete with thread sealing gasket.



Technical Data

Type:	CWe
Gland Material:	Brass (Marine Grade™ Electroless Nickel Plated) BS 2874, EN 12164, Aluminium ASTM B221, Stainless Steel 316/316L
Seal Material:	Thermoset Elastomer or Silicon on request
Cable Type:	Steel Wire Armour, Aluminium Armour Wire
Armour Clamping:	Rotating Captive Cone and Inspectible Cone Ring
Sealing Area:	Outer Sheath and 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.	

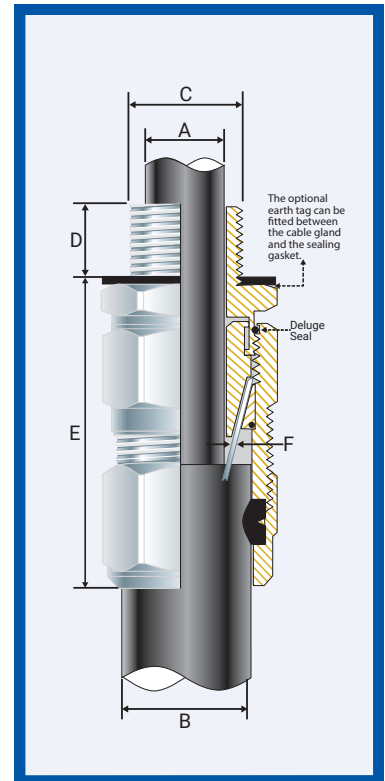
Standards and Certifications

Equipment Protection Levels:	IECEX: Ex eb IIC Gb, Ex tb IIIC Db ATEX: Ⓜ II 2 G D, Ex eb IIC Gb, Ex tb IIIC Db
Operating Temperature:	-20°C to +95°C Standard Seals or -60°C to +160°C Extreme Temp. Seals (continuous)
Conformance:	Standard: Certificate:
IEC/BS EN	IEC/BS EN 62444 CML 14CA364
IECEX	IEC 60079 Parts 0, 7, 31 IECEX CML 18.0018X
ATEX	EN 60079 Parts 0, 7, 31 CML 16ATEX1001X
INMETRO (Brazil)	ABNT NBR IEC 60079 Parts 0, 1, 7, 15, 31 TÜV 15.0483X
IP66/68 2m - Parallel	IEC 60529 IEC Ex CML 18.0018X
IP65 - Tapered	IEC 60529
Deluge Protection	DTS-01 CML 14CA370-2
Corrosion Protection	ASTM B117-11, BS EN ISO 3231 EXOVA N968667
EMC Compatible	EN 55011:2009 + A1:2010, EN 55022:2010 SGS EMC197708/1



Conditions for Safe Use - X

- The cable glands shall only be used where the temperature, at the point of entry, is between -20°C and +95°C (standard seal) or -60°C to +160°C (extreme temp. seal) depending on seal and gasket used.



Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail			Max Length 'E'	Armour Dia		Hexagonal Detail		Install Torque Value Nm
		'C'	Min 'D'	'C'	Min 'D'	Max 'A'	Min 'B'	Max 'B'		Min 'F'	Max 'F'	Max 'Flats'	Max 'Crns'	
055700-16	00-16ss	M16x1.5	12	-	-	8.5	8.0	13.5	41.0	0.90	0.90	24.0	27.0	35.0
055700	00-20ss	M20x1.5	12	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	12	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	12	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	12	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	1/1 1/4	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	1/1 1/4	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	1 1/4/1 1/2	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	1 1/4/1 1/2	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	1 1/2/2	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	1 1/2/2	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	2/2 1/2	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	2/2 1/2	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	2 1/2/3	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	2 1/2/3	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	3/3 1/2	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	3/3 1/2	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	3 1/2/4	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.

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.

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CWe CABLE GLAND Ex eb IIC, Ex tb IIC

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 (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

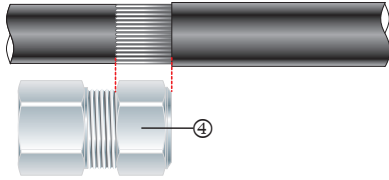
- The same thread size as the cable gland. (Thread adapters should be used to correct

any mismatch).

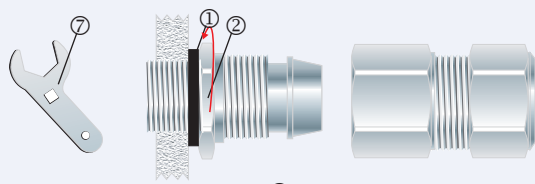
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

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 20.7mm).
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)

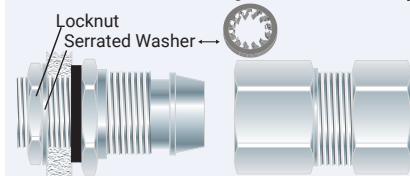


1. Cut back the cable outer sheath to expose the armour to a length not more than the outer nut ④.

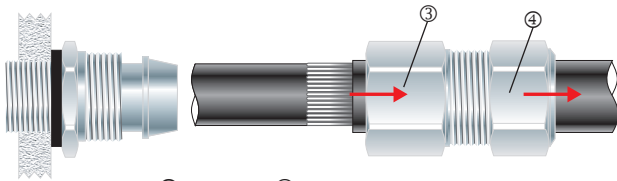


2. To maintain IP68 ensure gasket ① is in place. Screw the inner ② into the apparatus. Tighten the inner ② to the installation torque using a CCG Spanner ⑦.

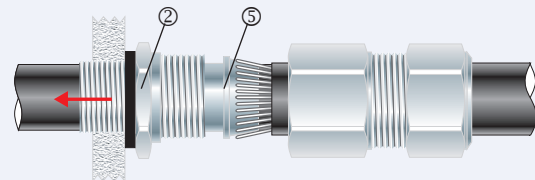
Alternative installation through an unthreaded entry.



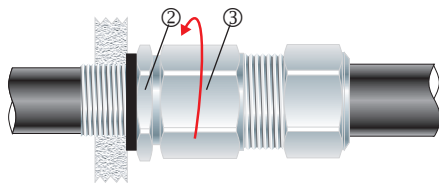
If the apparatus is untapped use a locknut.



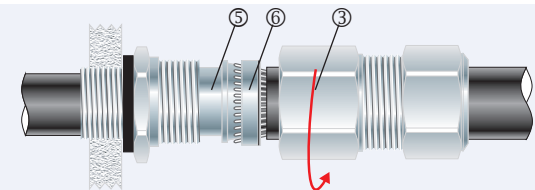
3. Pass the outer nut ④ and body ③ over the cable.



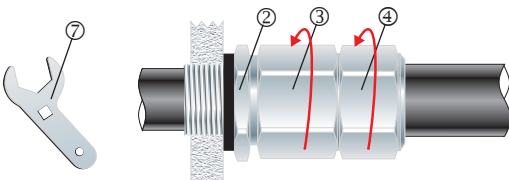
4. Pass cable end through the inner ② and splay the armour wires over the cone ⑤.



5. Screw the body ③ onto the inner ② to lock the armour between the cone ⑤ and the cone ring ⑥. The deluge seal will engage automatically as the body is tightened onto the inner ②.



6. 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).



7. Screw the body ③ onto the inner ② and tighten the body ③ to installation torque using a CCG Spanner ⑦. Tighten outer nut ④ to produce a moisture proof seal by turning until the seal makes contact with outer sheath of cable and make one full turn.