



CXe

Ex eb IIC, Ex tb IIIC

CABLE GLAND WITH WITH VARIABLE DELUGE SEAL™ for Braided and Steel Tape Cable

Features and Benefits

- For indoor, outdoor, Group II, III, Zone 1, 2, 21 and 22 hazardous areas.
- Two piece handling, no loose parts.
- Freely rotating captive cone and inspectible cone ring, providing 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 stainless steel 316/316L on request.
- Supplied with a thread sealing gasket (parallel threads only).

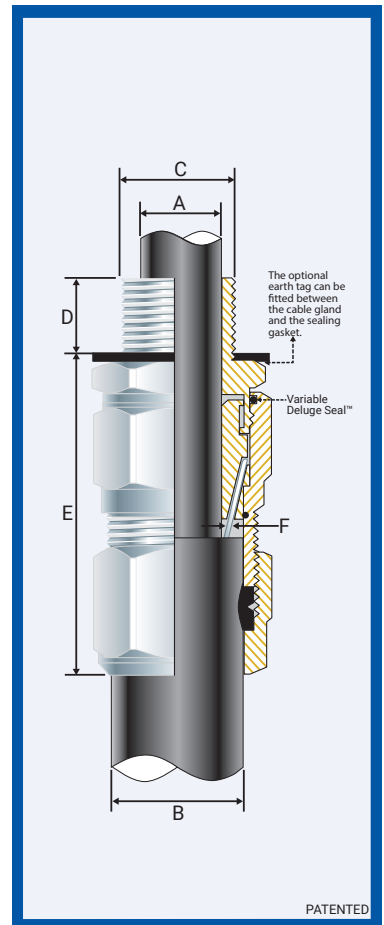


Technical Data

Type:	CXe
Gland Material:	Brass (Marine Grade Electroless Nickel Plated™) BS 2874, EN 12164, Stainless Steel 316/316L
Seal Material:	Thermoset Elastomer
Sealing Gasket Material:	HDPE, Nylon 66 or PTFE
Cable Type:	Braid, Steel Tape Armour
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: Ex eb IIC Gb, Ex tb IIIC Db AEX/UKEx: Ⓢ II 2 G D, Ex eb IIC Gb, Ex tb IIIC Db	
Continuous Operating Temp:	Standard Seals: -60°C to +95°C/100°C (HDPE/Nylon Sealing Gasket) Extreme Temp. Seals: -60°C to +160°C (PTFE Sealing Gasket)	
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
UKEx	BS EN 60079 Parts 0, 7, 31	CML 21UKEX1011X
INMETRO (Brazil)	ABNT NBR IEC 60079 Parts 0, 7, 31	TUV 15.0483X
IP66/68 850m - Parallel	IEC 60529	CML 15Y728 and
IP65 - Tapered	IEC 60529	IECEX CML 18.0018X
IP68 - Tapered and approved grease	IEC 60529	
Deluge Protection	DTS-01	CML 14CA370-2
Corrosion Protection	ASTM B117-11, BS EN ISO 3231	EXOVA N968667
Marine ABS	IEC/EN 60079 Parts 0, 7, 31	ABS 20-1952706-1-PDA
DNV-GL	IEC 60079 Parts 0, 1, 7, IEC 60529	DNV-GL TAE0000010
EMC Compatible	EN 55011:2009, 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 -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	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail			Maximum Length 'E'	Braid/STA Thickness		Hexagonal Detail		Installation Torque Value Nm
		'C'	Min 'D'	'C'	Min 'D'	Max 'A'	Min 'B'	Max 'B'		Min 'F'	Max 'F'	Max 'Flats'	Max 'Crms'	
057000-16	00-16ss	M16x1.5	15	-	-	8.5	5.0	10.5	41.0	0.00	0.60	24.0	27	35.0
057000	00-20ss	M20x1.5	15	1/2/3/4	15	8.5	5.0	10.5	41.0	0.00	0.60	24.0	27	35.0
0570-0-16	0-16s	M16x1.5	15	-	-	8.5	8.0	14.0	43.0	0.00	0.60	24.0	27	35.0
0570-0	0-20s	M20x1.5	15	1/2/3/4	15	12.0	8.0	14.0	43.0	0.00	0.60	24.0	27	35.0
057001	1-20	M20x1.5	15	1/2/3/4	15	15.0	11.5	16.0	47.0	0.00	0.60	27.0	30	35.0
057022	2s-25s	M25x1.5	15	3/4/1	15/19	17.5	12.5	20.5	56.0	0.00	0.60	35.0	39	50.0
057002	2-25	M25x1.5	15	3/4/1	15/19	20.0	16.0	24.5	56.0	0.20	0.70	35.0	39	50.0
057033	3s-32	M32x1.5	15	1/1 1/4	19	22.0	18.0	27.0	57.0	0.20	0.80	42.0	47	70.0
057003	3-32	M32x1.5	15	1/1 1/4	19	26.5	20.0	30.5	57.0	0.20	0.80	42.0	47	70.0
057044	4s-40s	M40x1.5	15	1 1/4/1 1/2	19/21	31.5	23.0	33.5	68.0	0.20	1.00	52.0	59	90.0
057004	4-40	M40x1.5	15	1 1/4/1 1/2	19/21	34.0	26.5	39.0	68.0	0.20	1.00	52.0	59	90.0
057055	5s-50s	M50x1.5	15	1 1/2/2	21	38.0	28.0	40.0	72.0	0.30	1.20	65.0	73	100.0
057005	5-50	M50x1.5	15	1 1/2/2	21	38.0/44.5	35.2	47.5	72.0	0.30	1.20	65.0	73	100.0
057066	6s-63s	M63x1.5	15	2/2 1/2	21/30	50.0	44.4	52.8	89.0	0.40	1.20	80.0	90	120.0
057006	6-63	M63x1.5	15	2/2 1/2	21/30	50.0/56.5	45.5	60.5	89.0	0.40	1.20	80.0	90	120.0
057077	7s-75s	M75x1.5	15	2 1/2/3	30/32	62.0	54.6	65.9	97.0	0.40	1.50	96.0	108	120.0
057007	7-75	M75x1.5	15	2 1/2/3	30/32	62.0/67.5	59.0	72.5	97.0	0.40	1.50	96.0	108	120.0
057088	8s-80s	M80x2	20	3	32	69.0	65.0	78.0	98.0	0.40	1.60	96.0	108	120.0
057008	8-80	M80x2	20	3	32	74.0	65.0	77.5	98.0	0.40	1.60	96.0	108	120.0
057099	9s-90s	M90x2	20	3/3 1/2	32/33	75.0	73.0	86.5	123.0	0.40	1.60	111.0	125	120.0
057009	9-90	M90x2	20	3/3 1/2	32/33	75.0/81.5	82.0	91.0	123.0	0.40	1.60	111.0	125	120.0
057010	10-100	M100x2	20	3 1/2/4	33/34	91.0	90.0	100.0	124.0	0.40	1.60	125.0	141	120.0

All dimensions 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.

CXE-GH300421E

CXe 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

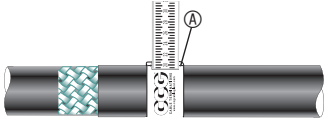
- The same thread size as the cable gland. (Thread adapters should be used to correct

any mismatch).

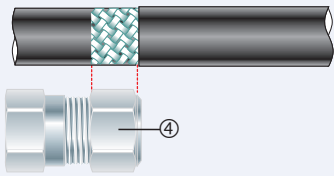
- With a thread tolerance of metric class '6H' or equivalent.
- Where the thread length is a minimum of 10mm for Ex d applications or 3mm for all other applications

OR CLEARANCE HOLES (not Ex d)

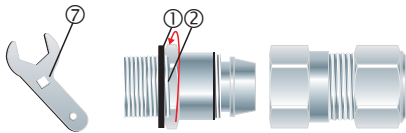
- Where the hole size is the thread nominal size with a tolerance of +0.1 to +0.7mm. (e.g. the clearance hole for an M20 thread will have a diameter between 20.1mm and 20.7mm).
- Through material that is between 1mm and 12mm thick. (Thicker materials can be accommodated using glands with extended entry threads.)



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

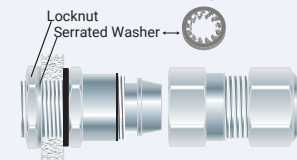


2. Cut back the cable outer sheath to expose the braid to a length not more than the outer nut (4).

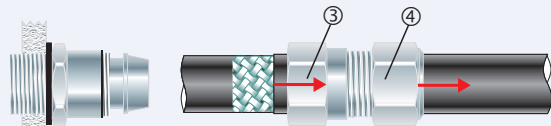


3. To maintain IP68 ensure the gasket (1) is in place. Screw the inner (2) into apparatus. Tighten the inner (2) to the installation torque using a CCG Spanner (7).

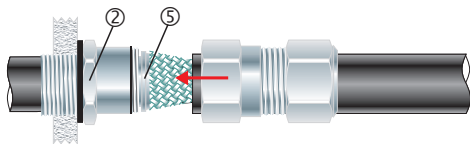
Alternative installation through an unthreaded entry.



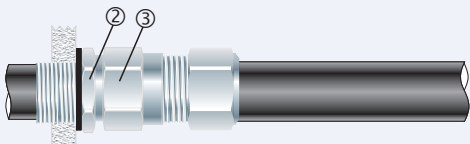
If the apparatus is untapped use a locknut.



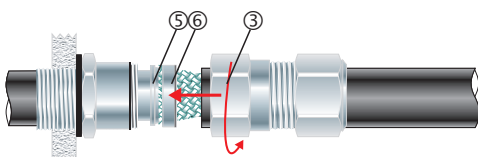
4. Pass the outer nut (4) and the body (3) over the cable.



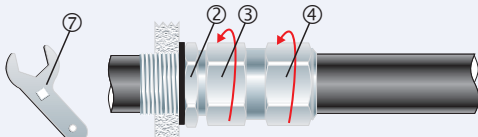
5. Pass cable end through inner (2). Splay the braid over the cone (5).



6. Tighten the body (3) onto the inner (2) until hand-tight, then tighten with a CCG Spanner (7) with 3/4 turn to lock the braid between the cone (5) and the cone ring (6).



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



8. Tighten the body (3) into inner (2) to the installation torque using a CCG Spanner (7). The Variable Deluge Seal™ will engage automatically as the body (3) 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 cable and then make one full turn.