

E1X/Z

CAPTIVE COMPONENT GLAND®

for Braid and Steel Tape Armour Cable



Features and Benefits

- For indoor and outdoor use.
- 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.
- Patented disconnect armoured clamp system for ease of inspection.
- Provides a seal on the inner and outer sheath of the cable sealing to IP65/66/68.
- Precision manufactured from high-quality brass (nickel plated) available in aluminium and stainless steel 316/316L on request.
- Complete with a thread-sealing gasket and heavy-duty locknut.

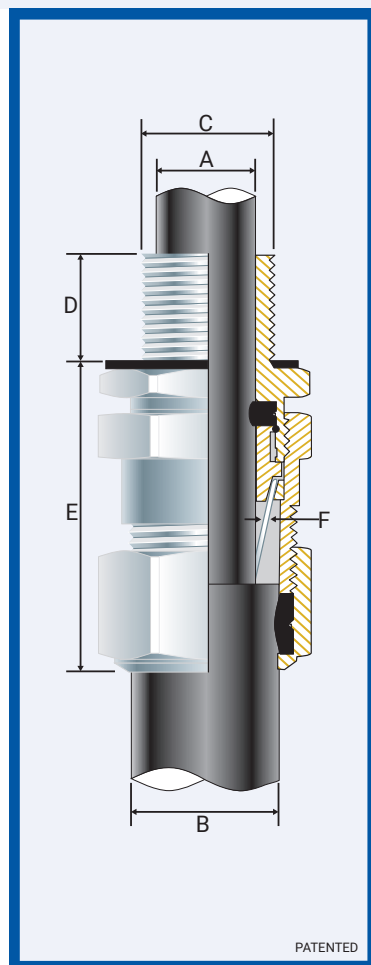


Technical Data

Type:	E1X/Z
Gland Material:	Brass (Nickel Plated) BS 2874, EN 12164, Aluminium ASTM BS221, Stainless Steel 316/316L
Seal Material:	Thermoset Elastomer
Cable Type:	Braid, Steel Tape Armour
Armour Clamping:	Rotating Captive Cone and Inspectible Cone Ring
Sealing Area:	Inner Sheath and Outer Sheath
Optional Accessories:	Adaptor, Reducer, Earth Tag, Locknut, Serrated Washer and Shroud

Standards and Certifications

Mechanical Properties:	Impact Category 8	
	Anchorage Type C	
Electrical Properties:	Category A (no earth tag)	
	Category B (with earth tag)	
Continuous Operating Temp:	-65°C to +120°C	
Conformance:	Standard:	Certificate:
Design Standards	BS 6121:Part 1	CML 14CA364
	EN 50262	CML 14CA364
	IEC/BS EN 62444	CML 14CA364
	SANS 62444	MASC 22-9012
	SANS 1213	MASC 18-2047, SANS 2109/4596
IP66/68 100m - Parallel	IEC 60529	CML 15Y728
IP65 - Tapered	IEC 60529	
Marine ABS	IEC 62444	25-0167207-PDA
DNV	IEC 60529, BS 6121, IEC 62444	TAE000000Z
EMC Compatible	EN 55011, A1, EN 55022	SGS EMC305079/1
London Underground Approval	BS EN 62444	LU 3043



Installation Standards

- AS/NZS 3000
- BS 6121-5
- BS 7671
- BS 7430
- IEC 60364-5-54
- SANS 0142

Product Code	Gland Size Reference	Metric Entry Thread		NPT Entry Thread		Cable Detail				Max Length 'E'	Hexagonal Detail		Braid /STA Thickness Max	Install Torque Nm
		'C'	Min 'D'	'C'	Min 'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'		Max 'Flats'	Max 'Crns'		
051700	00-20ss	M20x1.5	10	½	15	3.0	8.0	8.0	13.5	50.0	♦ 24.0	♦27.0	0.85	35.0
0517-0	0-20s	M20x1.5	10	½	15	7.0	12.0	11.5	16.0	50.0	♦ 24.0	♦ 27.0	0.85	35.0
051701	1-20	M20x1.5	10	½/¾	15	11.0	15.0	14.5	20.5	57.0	27.0	30.0	0.90	35.0
051722	2s-25s	M25x1.5	10	¾/1	15/19	11.0	17.5	16.0	24.5	60.0	35.0	39.0	1.25	50.0
051702	2-25	M25x1.5	10	¾/1	15/19	14.0	20.0	20.5	26.5	60.0	35.0	39.0	1.25	50.0
051733	3s-32s	M32x1.5	10	1 1/4	19	15.0	22.0	23.0	30.5	65.0	42.0	47.0	1.40	70.0
051703	3-32	M32x1.5	10	1 1/4	19	19.0	26.5	26.5	33.5	65.0	42.0	47.0	1.40	70.0
051744	4s-40s	M40x1.5	15	1 ¼/1 ½	19/21	22.0	31.5	30.0	39.5	78.0	52.0	59.0	1.40	90.0
051704	4-40	M40x1.5	15	1 ¼/1 ½	19/21	26.0	34.0	33.0	42.5	78.0	52.0	59.0	1.40	90.0
051755	5s-50s	M50x1.5	15	1 ½/2	21	29.0	38.0	34.0	47.5	101.0	65.0	73.0	1.40	100.0
051705	5-50	M50x1.5	15	1 ½/2	21	34.0	44.5	42.5	52.5	101.0	65.0	73.0	1.40	100.0
051766	6s-63s	M63x1.5	15	2 2/2	30	38.0	50.0	45.5	60.5	125.0	80.0	90.0	1.50	120.0
051706	6-63	M63x1.5	15	2 2/2	30	44.0	56.5	52.5	65.5	125.0	80.0	90.0	1.50	120.0
051777	7s-75s	M75x1.5	15	2 ½/3	32	50.0	62.0	57.0	72.5	130.0	96.0	102.0	1.50	120.0
051707	7-75	M75x1.5	15	2 ½/3	32	56.0	67.5	65.5	78.0	130.0	96.0	102.0	1.50	120.0
051788	8s-80s	M80x2.0	20	3	32	59.0	69.0	65.0	77.5	120.0	96.0	102.0	1.50	120
051708	8-80	M80x2.0	20	3	32	68.0	74.0	78.0	82.0	120.0	96.0	102.0	1.60	120.0
051799	9s-90s	M90x2.0	20	3 3/2	32/33	66.0	75.0	73.0	86.5	140.0	111.0	125.0	1.60	120.0
051709	9-90	M90x2.0	20	3 3/2	32/33	74.0	81.5	82.0	91.0	140.0	111.0	125.0	1.60	120.0

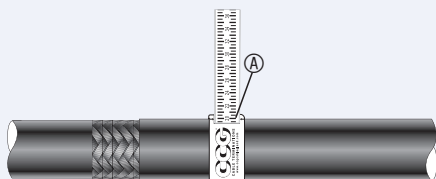
All dimensions except NPT are in mm.

♦ When manufactured in Aluminium, Hex will be 27 Across Flats and 30 Across Corners.

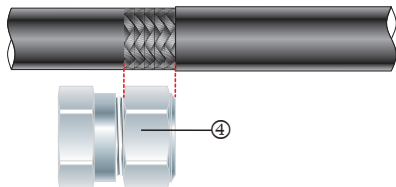
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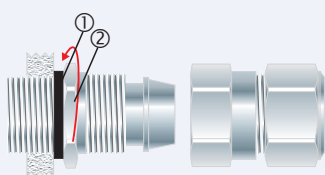
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1. For accurate sizing, use a CCG Dimension Tape [Ⓐ] on the inner and outer cable sheath.



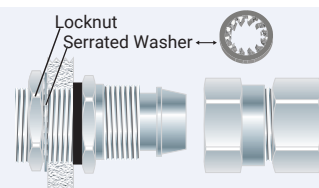
2. Cut back the cable outer sheath to expose the braid to a length not more than the outer nut ^④.



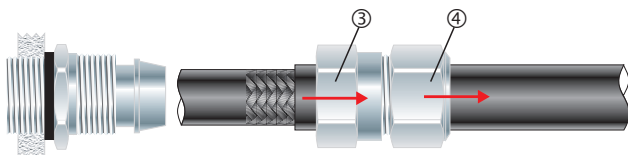
3. To maintain IP66/68, ensure the gasket ^① is in place. Tighten the inner ^② onto the apparatus.

Alternative installation through an unthreaded entry.

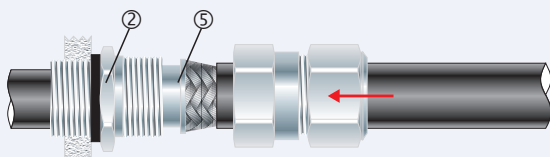
If the apparatus is untapped use a locknut.



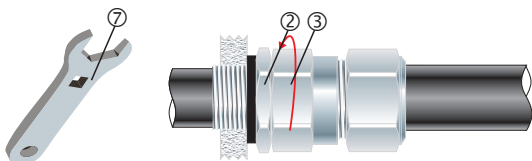
If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.



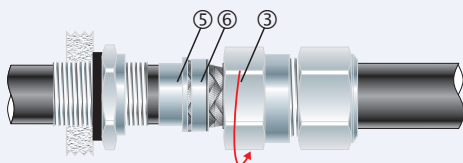
4. Pass the outer nut ^④ and the body ^③ over the cable.



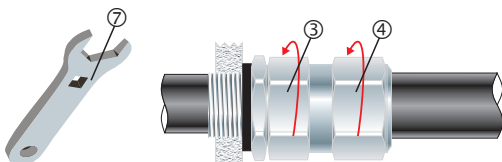
5. Pass the cable end through the inner ^②. Splay the braiding over the cone ^⑤.



6. Tighten the body ^③ onto the inner ^② until hand tight, then tighten with a CCG Spanner ^⑦ with $\frac{3}{4}$ 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-Rings on the cone ^⑤ and cone ring ^⑥ are sacrificial).



8. Tighten the body ^③ onto the inner to the installation torque. 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 and then make one full turn.