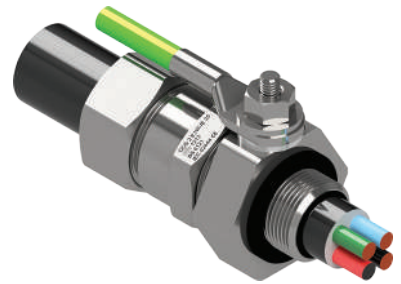


# E1W INTEGRAL EARTH CAPTIVE COMPONENT GLAND®

for SWA and Aluminium Armoured Cable



## Features and Benefits

- For indoor and outdoor use.
- Includes an integral earth connection for HV system circuits where high earth fault currents may be experienced.
- 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 IP66/68.
- Precision manufactured from high-quality brass (nickel plated) available in aluminium or stainless steel 316/316L on request.
- Complete with earthing stud, bolt and thread sealing gasket and heavy duty locknut.

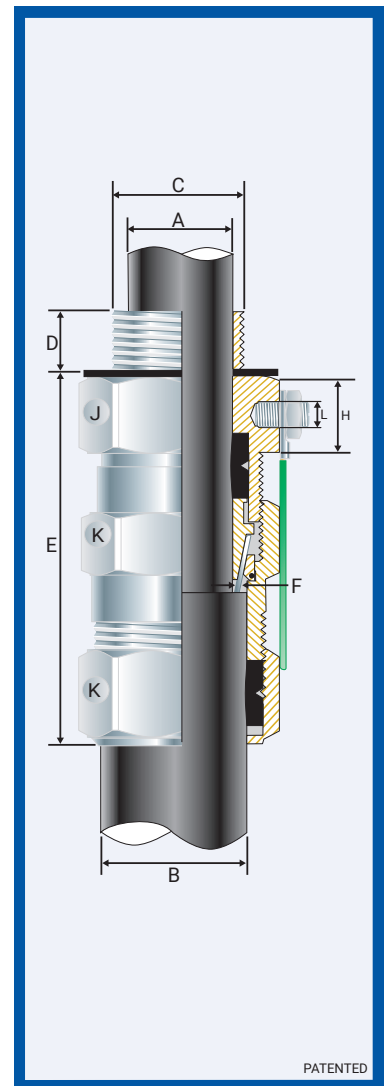


## Technical Data

Type:	E1W IE (Integral Earth)
Gland Material:	Brass (Nickel Plated), BS 2874, EN 12164, Aluminium, Stainless Steel 316/316L
Seal Material:	Thermoset Elastomer or Silicone on request
Cable Type:	Steel Wire Armour and Aluminium Armour Wire
Armour Clamping:	Rotating Captive Cone and Inspectible Cone Ring
Sealing Area:	Inner Sheath and Outer Sheath
Optional Accessories:	Adaptor, Reducer, Locknut, Serrated Washer and Shroud

## Standards and Certifications

Mechanical Properties:	Impact Category 8 Anchorage Type D	
Electrical Properties:	Category C	
Current Rating:	BS 6121:Part 5, IEC 62444	
Size 20s to 40	26kA one second	
Size 50s and above	43kA one second	
Continuous Operating Temp:	-65°C to +120°C	
Conformance:	Standard:	Certificate:
Design Standards	BS 6121:Part 1 EN 50262 IEC/BS EN 62444 SANS 62444 SANS 1213	CML 14CA364 CML 14CA364 CML 14CA364 MASC 11-303 MASC 18-2047, 2109/4596 CML 15Y728
IP66/68 100m - Parallel	IEC 60529	
IP65/66 - Tapered	IEC 60529	
Marine ABS	IEC 60529, IEC 62444	ABS 20-SG1952694-PDA
DNV-GL	IEC 60529, BS 6121, IEC 62444	DNV-GL TAE000000Z
EMC Compatible	EN 55011:2009 + A1:2010, EN 55022:2010	SGS EMC197708/1
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 Ref	Metric Entry Thread		NPT Entry Thread		Cable Detail				Max Length 'E'	Max Armour Dia		Max Thickness 'H'	Hex (Max) Flats		Hex (Max) Cnrs		Earth Bolt 'L'	Inst. Torque Nm
		'C'	Min 'D'	'C'	Min 'D'	Min 'A'	Max 'A'	Min 'B'	Max 'B'		Min 'F'	Max 'F'		'J'	'J'	'K'	'K'		
051800-16-IE*	00-16ss	M16x1.5	10	-	-	3.0	8.5	8.0	13.5	61.0	-	0.90	15.0	24.0	27.0	♦24.0	♦27.0	*M6/M8	35.0
051800-IE*	00-20ss	M20x1.5	10	½/¾	15	3.0	8.5	8.0	13.5	61.0	-	0.90	15.0	24.0	27.0	♦24.0	♦27.0	*M6/M8	35.0
0518-0-IE*	0-20s	M20x1.5	10	½/¾	15	7.0	12.0	11.5	16.0	61.0	0.90	1.25	15.0	27.0	30.0	♦24.0	♦27.0	*M6/M8	35.0
051801-IE	1-20	M20x1.5	10	½/¾	15	9.0	15.0	14.5	20.5	67.0	0.90	1.25	15.0	27.0	30.0	27.0	30.0	*M6/M8	35.0
051802-IE	2-25	M25x1.5	10	¾/1	15/19	14.0	20.0	20.5	26.5	80.0	1.25	1.60	15.0	42.0	47.0	35.0	39.0	M8	50.0
051803-IE	3-32	M32x1.5	10	1/1¼	19	19.0	26.5	26.5	33.5	80.0	1.60	2.00	15.0	50.0	56.0	42.0	47.0	M8	70.0
051804-IE	4-40	M40x1.5	15	1¼/1½	19/21	26.0	34.0	33.0	42.5	85.0	1.60	2.00	15.0	52.0	59.0	52.0	59.0	M10	90.0
051805-IE	5-50	M50x1.5	15	1½/2	21	34.0	44.5	42.5	52.5	106.0	2.00	2.50	20.0	65.0	73.0	65.0	73.0	M10	100.0
051806-IE	6-63	M63x1.5	15	2/2½	21/30	44.0	56.5	52.5	65.5	129.0	2.00	2.50	22.0	80.0	90.0	80.0	90.0	M12	120.0
051807-IE	7-75	M75x1.5	15	2½/3	30/32	56.0	67.5	65.5	78.0	149.0	2.50	3.15	25.0	111.0	125.0	96.0	108.0	M12	120.0
051808-IE	8-80	M80x2.0	20	3	32	68.0	74.0	78.0	82.0	149.0	2.50	3.15	25.0	111.0	125.0	96.0	108.0	M12	120.0
051809-IE	9-90	M90x2.0	20	3/3½	32/33	74.0	74.0	82.0	91.0	157.0	3.00	3.50	25.0	111.0	125.0	96.0	108.0	M12	120.0
051810-IE	10-100	M100x2.0	20	3½/4	33/34	81.0	91.0	90.0	100.0	165.0	3.00	3.50	25.0	125.0	141.0	125.0	141.0	M12	120.0

All dimensions except NPT are in mm.

\* Customers to specify M6 or M8. ♦ When manufactured in Aluminium, Hex will be 27 Across Flats and 30 Across Corners.

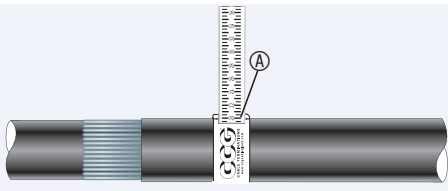
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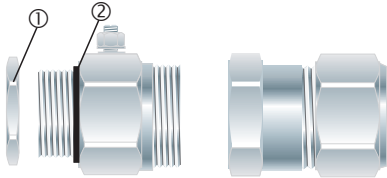
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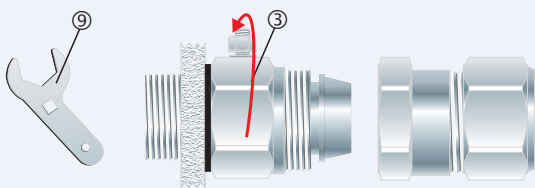
# E1W INTEGRAL EARTH CAPTIVE COMPONENT GLAND®



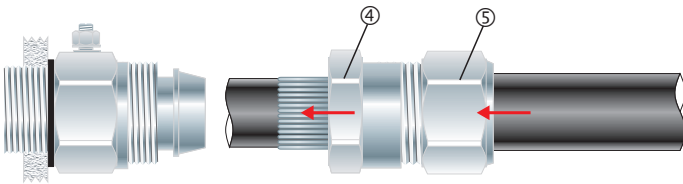
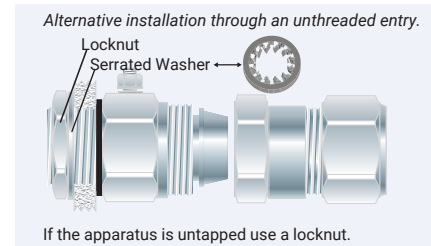
1. For accurate sizing, use a CCG Dimension Tape ④ on the inner and outer cable sheath.



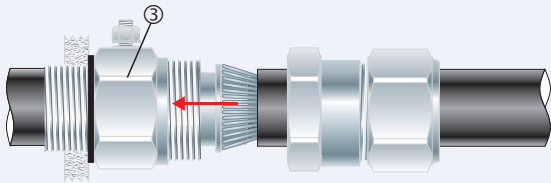
2. Remove the locknut ①. To maintain IP66/68 ensure the gasket ② is in place.



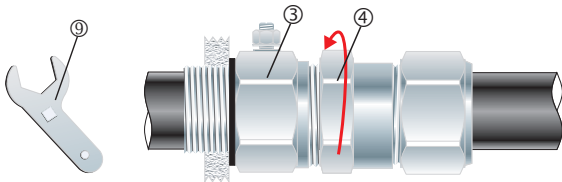
3. Screw the inner ③ into the apparatus. Tighten to installation torque using a CCG Spanner ⑨.



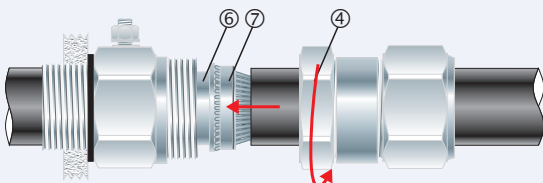
4. Cut back the cable outer sheath and pass the outer nut ⑤ and the body ④ over the cable.



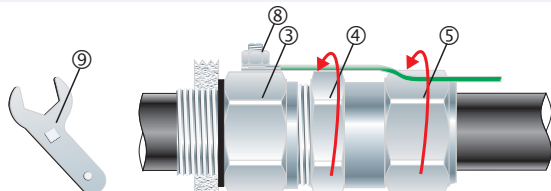
5. Pass cable end through the inner ③ and splay the armour wires over the cone ⑥.



6. Tighten the body ④ onto the inner ③ until hand tight, then tighten with a CCG Spanner ⑨ with ¾ turn to lock the armour between the cone ⑥ and the cone ring ⑦.



7. Unscrew the body ④. Check that the armour has locked between the cone ⑥ and the cone ring ⑦ (O-Ring on the cone ring ⑦ is sacrificial).



8. Tighten the body ④ onto the inner ③ to the installation torque using a CCG Spanner ⑨. Tighten the outer nut ⑤ to produce a moisture proof seal by turning until the seal makes contact with outer sheath of cable and then turn one full turn. Connect earth wire / lug to earth stud ⑧.