

# E1W Integral Earth CAPTIVE COMPONENT GLAND™ for SWA and Aluminium Armoured Cable



## Features and Benefits

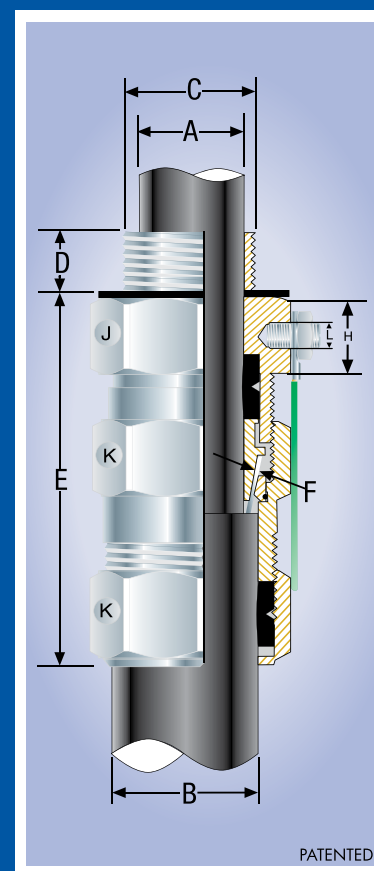
- For HV system circuits for protection against fault currents.
- For indoor and outdoor use.
- Two piece handling, no loose parts.
- Freely rotating captive cone and cone ring, providing an armour clamp and earth bond without twisting the armouring.
- Patented disconnect armour clamp system for ease of inspection.
- Seals on both the inner and outer sheath of the cable to IP66/67/68.
- Precision manufactured from high quality brass (nickel plated).
- Complete with high quality brass (nickel plated) locknut, sealing gasket, earthing stud and bolt.

## Technical Data

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

## Standards and Certifications

Design Standards:	SANS 1213, BS 6121 Part 1, EN 50262, IEC 62444
Certification:	
SANS/SABS1213	S787/H169
BS 6121 Part 1	SGS/3641/99343
IEC 62444	MASC 11-303
Mechanical Properties:	Impact Category 8 Anchorage Type D
Electrical Properties:	Category C (no earth tag)
Operating Temperature:	-20°C to 125°C
Ingress Protection IEC 60529:	IP66/67/68 ~ MASC 11-263
Current Rating:	BS6121 Part 5, IEC 62444
Size 20s to 40	26kA one second
Size 50s and above	43kA one second



## Installation Standards

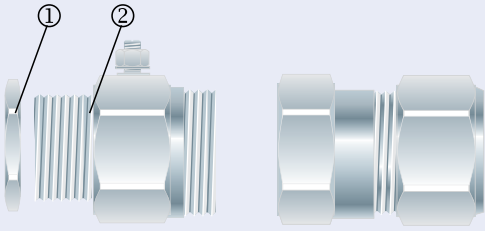
- AS/NZS 3000
- BS 6121-5
- BS 7671
- BS 7430
- IEC 60364-5-54
- SANS 0142

Product Code	Gland Size Ref	Entry Thread				Cable Detail				Max Length 'E'	Armour Dia 'F'	Max Thickness 'H'	Hex. (Max)		Hex. (Max)		Earth Bolt 'L'	Inst. Torque Nm	
		Metric		NPT		Min 'A'	Max 'A'	Min 'B'	Max 'B'				Flats 'J'	Cnrs 'J'	Flats 'K'	Cnrs 'K'			
		'C'	Min'D'	'C'	Min'D'														
051800-16-IE	00-16ss	M16x1.5	10	-	-	3.0	8.5	8.0	13.5	61.0	-	0.90	15.0	33.0	37.0	24.0	27.0	*M6/M8	35
051800-IE	00-20ss	M20x1.5	10	1/2/3/4	15	3.0	8.5	8.0	13.5	61.0	-	0.90	15.0	33.0	37.0	24.0	27.0	*M6/M8	35
0518-0-IE	0-20s	M20x1.5	10	1/2/3/4	15	7.0	12.0	11.5	16.0	61.0	0.90	1.25	15.0	33.0	37.0	24.0	27.0	*M6/M8	35
051801-IE	1-20	M20x1.5	10	1/2/3/4	15	9.0	15.0	14.5	20.5	67.0	0.90	1.25	15.0	39.0	44.0	27.0	31.0	*M6/M8	35
051802-IE	225	M25x1.5	10	3/4/1	15/19	14.0	20.0	20.5	26.5	80.0	1.25	1.60	15.0	46.0	52.0	35.0	40.0	M8	50
051803-IE	3-32	M32x1.5	10	1/1 1/4	19	19.0	26.5	26.5	33.5	80.0	1.60	2.00	15.0	57.0	64.0	42.0	48.0	M8	70
051804-IE	4-40	M40x1.5	15	1 1/4/1 1/2	19/21	26.0	34.0	33.0	42.5	85.0	1.60	2.00	15.0	66.0	74.0	52.0	60.0	M10	90
051805-IE	5-50	M50x1.5	15	1 1/2/2	21	34.0	44.5	42.5	52.5	106.0	2.00	2.50	20.0	83.0	93.0	65.0	75.0	M10	100
051806-IE	6-63	M63x1.5	15	2/2 1/2	21/30	44.0	56.5	52.5	65.5	129.0	2.00	2.50	22.0	106.0	119.0	80.0	90.0	M12	120
051807-IE	7-75	M75x1.5	15	2 1/2/3	30/32	56.0	67.5	65.5	78.0	149.0	2.50	3.15	25.0	117.0	132.0	96.0	110.0	M12	120
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	126.0	142.0	96.0	108.0	M12	120
051809-IE	9-90	M90x2.0	20	3/3 1/2	32/33	74.0	74.0	82.0	91.0	157.0	3.00	3.50	25.0	135.0	152.0	96.0	125.0	M12	120
051810-IE	10-100	M100x2.0	20	3 1/2/4	33/34	81.0	91.0	90.0	100.0	165.0	3.00	3.50	25.0	135.0	152.0	125.0	143.0	M12	120

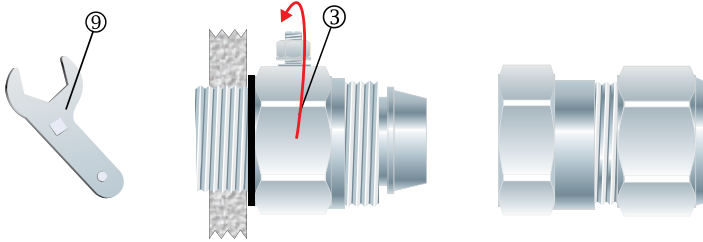
All dimensions except NPT are in mm.

\* Customers to specify M6 or M8.

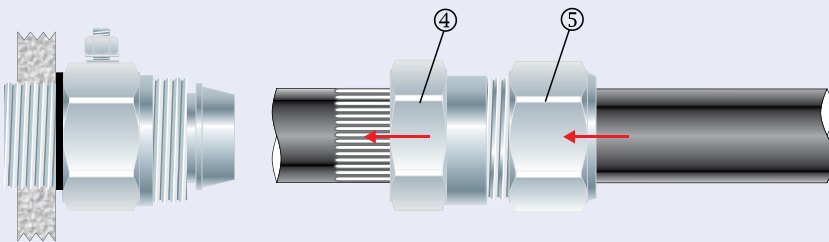
## E1W Integral Earth Captive Component Gland™



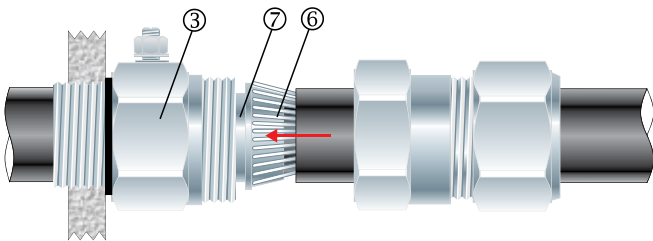
1. Remove the locknut ①. To maintain IP66/68 ensure the gasket ② is in place.



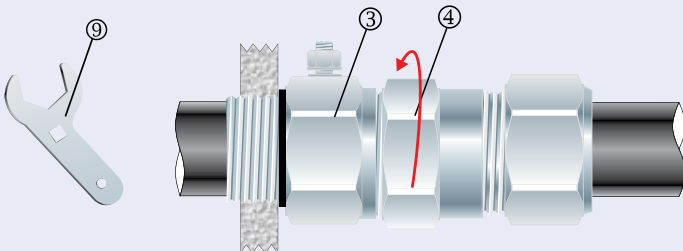
2. Screw the inner ③ into the apparatus. Tighten to installation torque using a CCG Spanner ⑨. If apparatus is untapped, use a locknut.



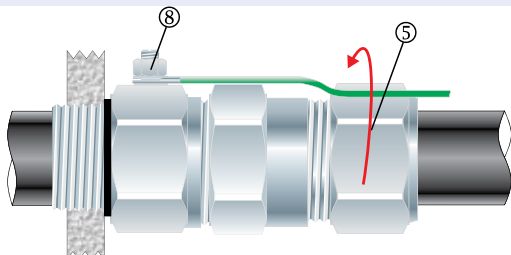
3. Cut back the cable outer sheath and pass cable end through the outer nut ⑤ and the body ④.



4. Pass cable end through the inner ③ and splay the armour wires ⑥ over the cone ⑦.



5. Tighten the body ④ onto the inner ③ to the installation torque using a CCG Spanner ⑨.



6. Tighten the outer nut ⑤ to produce a moisture proof seal by turning till seal makes contact with outer sheath of cable and then turn one full turn. Connect earth wire / lug to earth stud ⑧.