

# CW 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 armoured clamp system for ease of inspection
- Provides a seal on the outer sheath of the cable sealing to IP66.
- Precision manufactured from high quality brass (nickel plated). Complete with high quality brass locknut, earthing stud and bolt.

#### Technical Data

Type:	CW IE (Integral Earth)
Gland Material:	Brass (Nickel Plated) BS 2874, EN 12164
Seal Material:	Thermoset Elastomer
Cable Type:	Steel Wire Armour / Aluminium Armour Wire
Sealing Area:	Outer Sheath
Optional Accessories:	Adaptor, Earth Tag, Locknut, Reducer, Serrated Washer and Shroud

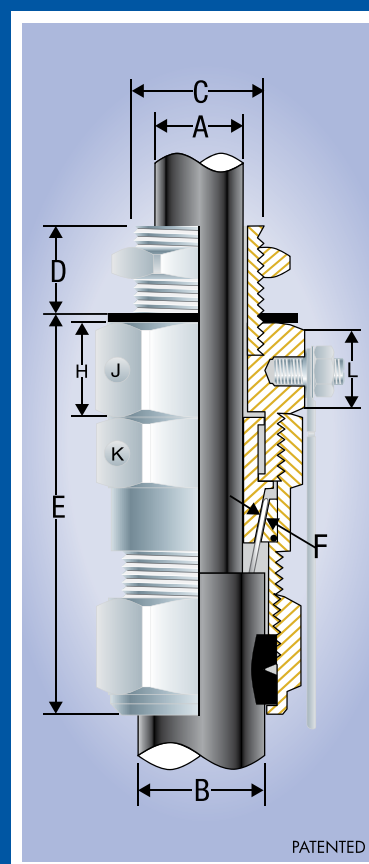
#### Standards and Certifications

Design Standards:	SANS 1213, BS 6121 Part 1, EN 50262, IEC 62444
Certification:	
SANS/SABS 1213	787/85772/K757
BS 6121 Part 1	SGS/3641/9937
IEC 62444	MASC 11-303
Mechanical Properties:	Impact Category 8 Anchorage Type D
Electrical Properties:	Category C
Operating Temperature:	-20°C to 125°C
Ingress Protection IEC 60529:	IP66 ~ MASC 11-263
Current Rating:	BS 6121 Part 5, IEC 62444
Size 20s to 40	26kA one second
Size 50s and above	43kA one second



#### Installation Standards

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

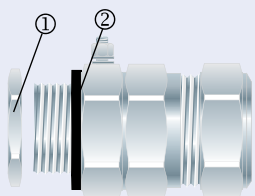


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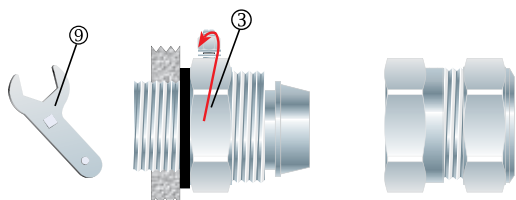
Product Code	Gland Size Ref	Metric Entry Thread		NPT Entry Thread		Cable Detail			Max Length 'E'	Armour Dia		Hexagonal Detail					Earth Bolt 'L'	Install. Torque Nm
		'C'	Min 'D'	'C'	Min 'D'	Max 'A'	Min 'B'	Max 'B'		Min 'F'	Max 'F'	Flats 'J'	Crns 'J'	Flats 'K'	Crns 'K'	Thick 'H'		
051100	00-20ss	M20x1.5	10	1/2/3/4	15	8.5	8.0	13.5	60.0	0.90	0.90	27.0	30.4	24.0	27.0	15.0	M6/M8	35
0511-0	0-20s	M20x1.5	10	1/2/3/4	15	12.0	11.5	16.0	60.0	0.90	1.25	27.0	33.0	24.0	27.0	15.0	M6/M8	35
051101	1-20	M20x1.5	10	1/2/3/4	15	15.0	14.5	20.5	60.0	0.90	1.25	32.0	39.0	27.0	30.0	15.0	M6/M8	35
051102	2-25	M25x1.5	10	3/4/1	15/19	20.0	20.5	26.5	70.0	1.25	1.60	42.0	46.0	35.0	38.5	15.0	M8/M10	50
051103	3-32	M32x1.5	10	1/1 1/4	19	26.5	26.5	33.5	70.0	1.60	2.00	50.0	57.0	42.0	48.0	20.0	M12	70
051104	4-40	M40x1.5	15	1 1/4/1 1/2	19/21	34.0	33.0	42.5	70.0	1.60	2.00	65.0	66.0	52.0	59.0	20.0	M12	90
051105	5-50	M50x1.5	15	1 1/2/2	21	38.0/44.5	42.5	52.5	75.0	2.00	2.50	75.0	83.0	65.0	72.0	22.0	M12	100
051106	6-63	M63x1.5	15	2/2 1/2	21/30	50.0/56.5	52.5	65.5	80.0	2.00	2.50	100.0	106.0	86.0	97.0	25.0	M12	120
051107	7-75	M75x1.5	15	2 1/2/3	30/32	62.0/67.5	65.5	78.0	100.0	2.50	3.15	112.0	117.0	96.0	110.0	25.0	M12	120
051108	8-80	M80x2.0	20	3	32	74.0	78.0	82.0	100.0	2.50	3.15	118.0	126.0	96.0	110.0	25.0	M12	120
051109	9-90	M90x2.0	20	3/3 1/2	32/33	75.0/81.5	82.0	91.0	125.0	3.00	3.50	111.0	125.0	111.0	125.0	40.0	M12	120
051110	10-100	M100x2.0	20	3 1/2/4	33/34	91.0	90.0	100.0	125.0	3.00	3.50	125.0	140.0	125.0	140.0	40.0	M12	120
051111	11-110	M115x2.0	20	4	34	98.0	100.0	114.0	135.0	3.00	4.00	135.0	152.0	135.0	152.0	40.0	M12	120

All dimensions are in mm.

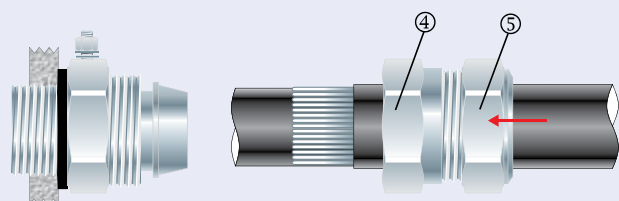
## CW Integral Earth Captive Component Gland™



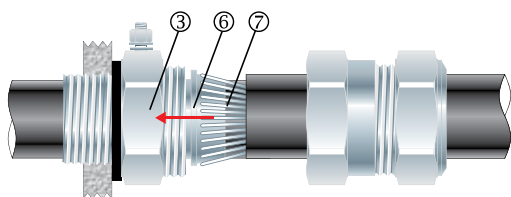
1. Remove the locknut ①. To maintain IP66/68 ensure the gasket ② is in place.



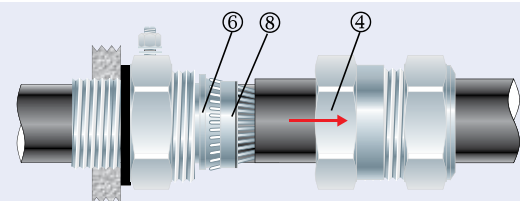
2. Screw the inner ③ into the apparatus. Tighten the inner ③ to installation torque using a CCG Spanner ⑨. If apparatus is untapped, use a locknut.



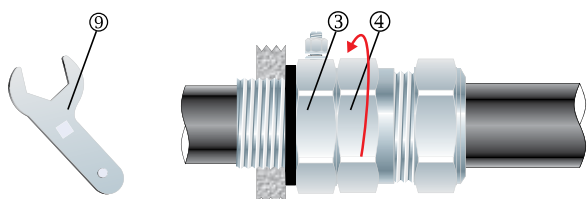
3. Cut back the cable outer sheath and pass the cable through the outer nut ⑤ and the body ④.



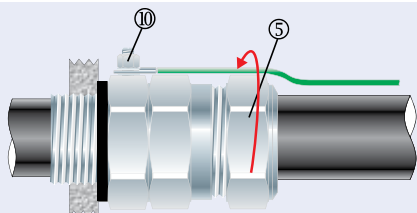
4. Pass the cable end through the inner ③. Splay the armour wires ⑦ over the cone ⑥. Tighten the body ③ onto the inner ② to lock the cone ring ⑧ onto the cone ⑥.



5. Unscrew the body ④. Check that the armouring has locked between the cone ⑥ and cone ring ⑧ (O-Ring on the cone ring ⑧ is sacrificial).



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



7. Tighten the outer nut ⑤ to produce a moisture proof seal by turning till the seal makes contact with the outer sheath of the cable and then turn one turn. Connect earth wire / lug to earth stud ⑩.