

# CW INTEGRAL EARTH INSULATED CAPTIVE COMPONENT GLAND®

## for Steel Wire and Aluminium Armoured Cable

### Features and Benefits

- For indoor and outdoor use.
- Insulated from the equipment to prevent system circulating currents.
- 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 outer sheath of the cable, sealing to IP65/66.
- Precision manufactured from high-quality brass (nickel plated), available in Aluminium or Stainless Steel 316/316L on request.
- Complete with thread sealing gasket, earthing stud, bolt and heavy-duty (nickel-plated) Locknut.

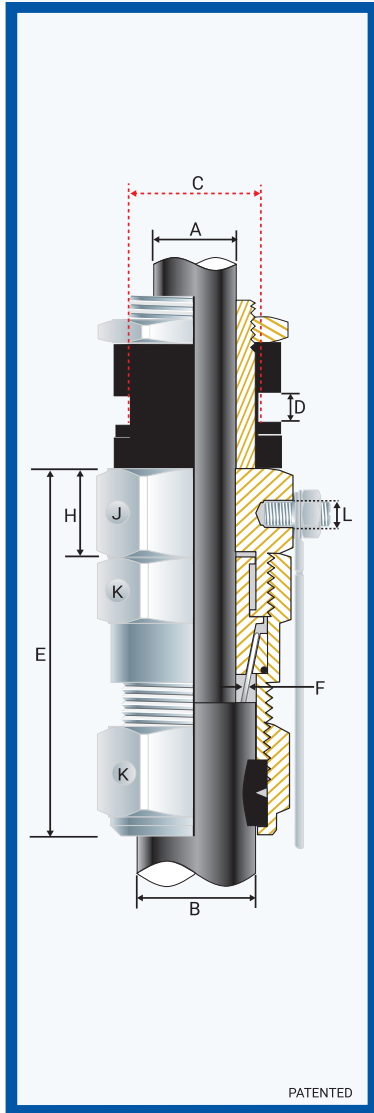


### Technical Data

|                       |   |
|-----------------------|---|
| Type:                 | CW IE (Integral Earth) Insulated  |
| Gland Material:       | Brass (Nickel Plated), BS 2874, EN 12164, Aluminium ASTM B221, 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:         | Outer Sheath  |
| Optional Accessories: | Adaptor, Reducer, Locknut, Earth Tag, Serrated Washer and Shroud                        |

### Standards and Certifications

|                             |  |  |
|-----------------------------|--|--|
| Mechanical Properties:      | Impact Category 8<br>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<br>IEC/BS EN 62444<br>SANS 62444<br>SANS 1213 | CML 14CA364<br>CML 14CA364<br>MASC 22-9012<br>MASC 26-9013, SANS 2109/4596<br>MASC 22-9015 |
| IP66 - Parallel             | IEC 60529  |  |
| IP65 - Tapered              | IEC 60529  |  |
| Marine ABS                  | IEC 60529, 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 6771
- IEC 60364-5-54
- BS 6121-5
- BS 7430
- SANS 0142

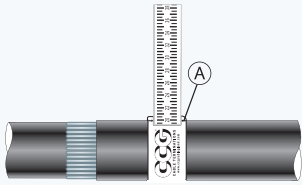
| Product Code | Gland Size Ref | Metric Entry Thread |         | Cable Detail |         |         | Max Length 'E' | Armour Dia |         | Hexagonal Detail |          |           |          |           | Earth Bolt 'L' | Install. Torque Nm |
|--------------|----------------|---------------------|---------|--------------|---------|---------|----------------|------------|---------|------------------|----------|-----------|----------|-----------|----------------|--------------------|
|              |                | 'C'                 | Min 'D' | Max 'A'      | Min 'B' | Max 'B' |                | Min 'F'    | Max 'F' | Flats 'J'        | Crns 'J' | Flats 'K' | Crns 'K' | Thick 'H' |                |                    |
| 0580-0       | 0-20s          | M20x1.5             | 10      | 12.0         | 11.5    | 16.0    | 61.0           | 0.90       | 1.25    | 24.0             | 27.0     | ♦ 24.0    | ♦ 27.0   | 15.0      | M6/M8          | 35.0               |
| 058001       | 1-20           | M20x1.5             | 10      | 13.5         | 14.5    | 20.5    | 67.0           | 0.90       | 1.25    | 27.0             | 30.0     | 27.0      | 30.4     | 15.0      | M6/M8          | 35.0               |
| 058002       | 2-25           | M25x1.5             | 10      | 17.5         | 20.5    | 26.5    | 80.0           | 1.25       | 1.60    | 42.0             | 47.0     | 35.0      | 39.4     | 15.0      | M8/M10         | 50.0               |
| 058003       | 3-32           | M32x1.5             | 10      | 24.0         | 26.5    | 33.5    | 80.0           | 1.60       | 2.00    | 50.0             | 56.0     | 42.0      | 47.3     | 20.0      | M12            | 70.0               |
| 058004       | 4-40           | M40x1.5             | 10      | 34.0         | 33.0    | 42.5    | 85.0           | 1.60       | 2.00    | 52.0             | 59.0     | 52.0      | 58.5     | 20.0      | M12            | 90.0               |
| 058005       | 5-50           | M50x1.5             | 10      | 42.5         | 42.5    | 52.5    | 106.0          | 2.00       | 2.50    | 65.0             | 73.0     | 65.0      | 73.1     | 22.0      | M12            | 100.0              |
| 058006       | 6-63           | M63x1.5             | 10      | 55.5         | 52.5    | 65.5    | 130.0          | 2.00       | 2.50    | 80.0             | 90.0     | 86.0      | 96.8     | 25.0      | M12            | 120.0              |
| 058007       | 7-75           | M75x1.5             | 10      | 68.0         | 65.5    | 78.0    | 150.0          | 2.50       | 3.15    | 111.0            | 125.0    | 96.0      | 102.0    | 25.0      | M12            | 120.0              |
| 058008       | 8-80           | M80x2.0             | 10      | 72.5         | 78.0    | 82.0    | 150.0          | 2.50       | 3.15    | 111.0            | 125.0    | 96.0      | 102.0    | 25.0      | M12            | 120.0              |
| 058009       | 9-90           | M90x2.0             | 10      | 81.5         | 82.0    | 91.0    | 160.0          | 3.00       | 3.50    | 111.0            | 125.0    | 111.0     | 124.9    | 40.0      | M12            | 120.0              |
| 058010       | 10-100         | M100x2.0            | 10      | 91.5         | 90.0    | 100.0   | 165.0          | 3.00       | 3.50    | 125.0            | 141.0    | 125.0     | 140.6    | 40.0      | M12            | 120.0              |

All dimensions except NPT are in mm. \* Customers to specify M6 or M8.

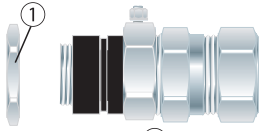
• When manufactured in Aluminium, Hex will be 27 Across Flats and 30 Across Corners.

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. CWIEINS-PEG010626E

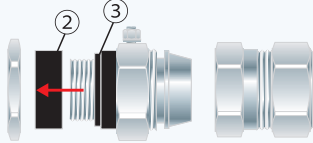
# CW INTEGRAL EARTH INSULATED GLAND



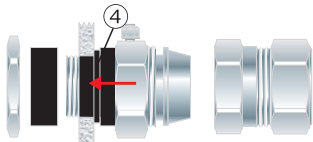
1. For accurate sizing, use a CCG Dimension Tape (A) on the inner and outer cable sheath.



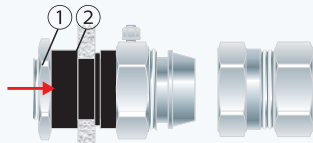
2. Remove the locknut (1).



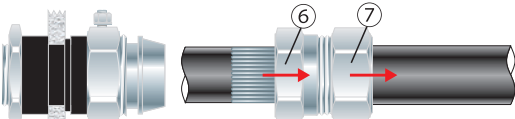
3. Remove female insulator ring (2). To maintain IP66, ensure the gasket (3) is in place.



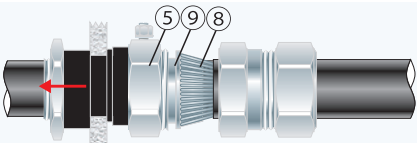
4. Insert the male insulator entry (4) into the cable entry of the apparatus.



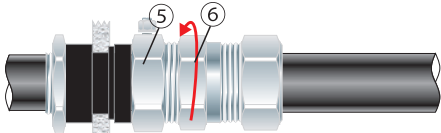
5. Screw the female insulator ring (2) back against the apparatus (maximum of 10mm thickness). Screw the locknut (1) back against the female insulator ring (2) do not over tighten.



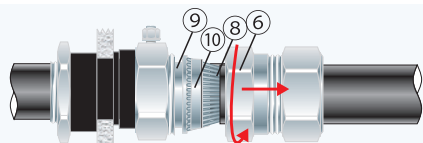
6. Pass the outer nut (7) and the body (6) over the cable and strip the cable outer sheath.



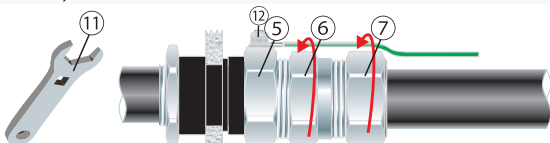
7. Pass cable end through the inner (5) and splay the armour wires (8) over the cone (9).



8. Hold the inner (5) with a CCG Spanner (11) and then tighten the body (6) using a second CCG Spanner (11) to the torque values shown to lock the armour (8) between the cone (9) and the cone ring (10).



9. Unscrew the body (6). Check that the armour (8) has locked between the cone (9) and cone ring (10). (O-Rings on the cone (9) and cone ring (10) are sacrificial).



10. Tighten the body (6) onto the inner (5) using a CCG Spanner (11). Tighten the outer nut (7) onto the body (6) to produce a moisture-proof seal by turning until seal makes contact with the outer sheath of the cable and then turn one full turn. Connect earth wire / lug to earth stud (12).