

# E1W LSOH

## CAPTIVE COMPONENT GLAND®

for Steel Wire Armoured and Aluminium Armoured Fire Rated 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 armour 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 or stainless steel 316/316L on request.
- Silicon seals are fire retardant, low smoke zero halogen and are suitable for extreme temperatures.
- Complete with fire retardant, low smoke zero halogen, extreme temperature thread sealing gasket.
- Complete with heavy-duty locknut.

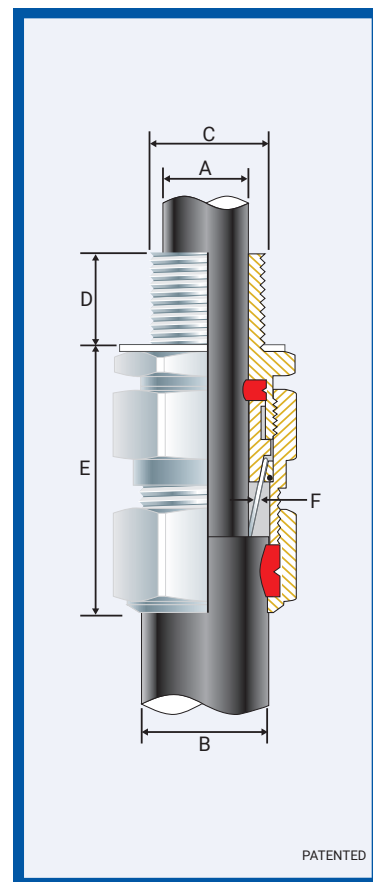


### Technical Data

|                       |                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------|
| Type:                 | E1W LSOH                                                                                  |
| Gland Material:       | Brass (Nickel Plated) BS 2874, EN 12164, Aluminium ASTM BS221 or Stainless Steel 316/316L |
| Seal Material:        | LSOH Silicon                                                                              |
| Cable Type:           | Steel Wire Armour, Aluminium Armour Wire Fire Rated                                       |
| 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<br>Anchorage Type D                                    |                                                                                                                       |
| Electrical Properties:      | Category A (no earth tag)<br>Category B (with earth tag)                 |                                                                                                                       |
| Continuous Operating Temp:  | -65°C to +175°C                                                          |                                                                                                                       |
| Conformance:                | Standard:                                                                | Certificate:                                                                                                          |
| Design Standards            | BS 6121:Part 1<br>EN 50262<br>IEC/BS EN 62444<br>SANS 62444<br>SANS 1213 | CML 14CA364<br>CML 14CA364<br>CML 14CA364<br>MASC 22-9012<br>MASC 18-2047, SANS 2109/4596<br>CML 15Y728, MASC 22-9015 |
| IP66/68 100m - Parallel     | IEC 60529                                                                |                                                                                                                       |
| IP65 - Tapered              | IEC 60529                                                                |                                                                                                                       |
| Marine ABS                  | IEC 62444                                                                | ABS 20-SG1952694-PDA                                                                                                  |
| DNV-GL                      | IEC 60529, BS 6121, IEC 62444                                            | DNV-GL TAE000000Z                                                                                                     |
| EMC Compatible              | EN 55011, + A1, EN 55022                                                 | SGS EMC305079/1                                                                                                       |
| Halogen Free                | NAC259                                                                   | TDWR 14-04-13                                                                                                         |
| Flame Retardant             | ASTM D 2863-09, ISO 4589-2                                               | TDWR 14-04-13                                                                                                         |
| Low Smoke                   | BS EN61034-2, BS6853                                                     | CSIR 24580f                                                                                                           |
| 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' | Armour Dia |         | Hexagonal Detail |            | Install Torque Value Nm |
|--------------|----------------------|---------------------|---------|------------------|---------|--------------|---------|---------|---------|----------------|------------|---------|------------------|------------|-------------------------|
|              |                      | 'C'                 | Min 'D' | 'C'              | Min 'D' | Min 'A'      | Max 'A' | Min 'B' | Max 'B' |                | Min 'F'    | Max 'F' | Max 'Flats'      | Max 'Crns' |                         |
| 052800-16    | 00-16ss              | M16x1.5             | 10      | -                | -       | 3.0          | 8.5     | 8.0     | 13.5    | 50.0           | 0.90       | 0.90    | ♦ 24.0           | ♦ 27.0     | 35.0                    |
| 052800       | 00-20ss              | M20x1.5             | 10      | 1/2              | 15      | 3.0          | 8.5     | 8.0     | 13.5    | 50.0           | 0.90       | 0.90    | ♦ 24.0           | ♦ 27.0     | 35.0                    |
| 0528-0       | 0-20s                | M20x1.5             | 10      | 1/2              | 15      | 7.0          | 12.0    | 11.5    | 16.0    | 60.0           | 0.90       | 1.25    | ♦ 24.0           | ♦ 27.0     | 35.0                    |
| 052801       | 1-20                 | M20x1.5             | 10      | 1/2/3/4          | 15      | 11.0         | 15.0    | 14.5    | 20.5    | 70.0           | 0.90       | 1.25    | 27.0             | 30.0       | 35.0                    |
| 052822       | 2s-25s               | M25x1.5             | 10      | 3/4/1            | 15/19   | 11.0         | 17.5    | 16.0    | 24.5    | 80.0           | 1.25       | 1.60    | 35.0             | 39.0       | 50.0                    |
| 052802       | 2-25                 | M25x1.5             | 10      | 3/4/1            | 15/19   | 14.0         | 20.0    | 20.5    | 26.5    | 80.0           | 1.25       | 1.60    | 35.0             | 39.0       | 50.0                    |
| 052833       | 3s-32s               | M32x1.5             | 10      | 1/1 1/4          | 19      | 15.0         | 22.0    | 23.0    | 30.5    | 80.0           | 1.60       | 2.00    | 42.0             | 47.0       | 70.0                    |
| 052803       | 3-32                 | M32x1.5             | 10      | 1/1 1/4          | 19      | 19.0         | 26.5    | 26.5    | 33.5    | 80.0           | 1.60       | 2.00    | 42.0             | 47.0       | 70.0                    |
| 052844       | 4s-40s               | M40x1.5             | 15      | 1 1/4/1 1/2      | 19/21   | 22.0         | 31.5    | 30.0    | 39.5    | 95.0           | 1.60       | 2.00    | 52.0             | 59.0       | 90.0                    |
| 052804       | 4-40                 | M40x1.5             | 15      | 1 1/4/1 1/2      | 19/21   | 26.0         | 34.0    | 33.0    | 42.5    | 95.0           | 1.60       | 2.00    | 52.0             | 59.0       | 90.0                    |
| 052855       | 5s-50s               | M50x1.5             | 15      | 1 1/2/2          | 21      | 29.0         | 38.0    | 34.0    | 47.5    | 102.0          | 2.00       | 2.50    | 65.0             | 73.0       | 100.0                   |
| 052805       | 5-50                 | M50x1.5             | 15      | 1 1/2/2          | 21      | 34.0         | 44.5    | 42.5    | 52.5    | 102.0          | 2.00       | 2.50    | 65.0             | 73.0       | 100.0                   |
| 052866       | 6s-63s               | M63x1.5             | 15      | 2/2 1/2          | 30      | 38.0         | 50.0    | 45.5    | 60.5    | 115.0          | 2.00       | 2.50    | 80.0             | 90.0       | 120.0                   |
| 052806       | 6-63                 | M63x1.5             | 15      | 2/2 1/2          | 30      | 44.0         | 56.5    | 52.5    | 65.5    | 115.0          | 2.00       | 2.50    | 80.0             | 90.0       | 120.0                   |
| 052877       | 7s-75s               | M75x1.5             | 15      | 2 1/2/3          | 32      | 50.0         | 62.0    | 57.0    | 72.5    | 150.0          | 2.50       | 3.15    | 96.0             | 108.0      | 120.0                   |
| 052807       | 7-75                 | M75x1.5             | 15      | 2 1/2/3          | 32      | 56.0         | 67.5    | 65.5    | 78.0    | 150.0          | 2.50       | 3.15    | 96.0             | 108.0      | 120.0                   |
| 052808       | 8-80                 | M80x2.0             | 20      | 3                | 32      | 68.0         | 74.0    | 78.0    | 82.0    | 150.0          | 2.50       | 3.15    | 96.0             | 108.0      | 120.0                   |
| 052899       | 9s-90s               | M90x2.0             | 20      | 3/3 1/2          | 32/33   | 66.0         | 75.0    | 73.0    | 86.5    | 150.0          | 3.00       | 3.50    | 111.0            | 125.0      | 120.0                   |
| 052809       | 9-90                 | M90x2.0             | 20      | 3/3 1/2          | 32/33   | 74.0         | 81.5    | 82.0    | 91.0    | 150.0          | 3.00       | 3.50    | 111.0            | 125.0      | 120.0                   |
| 052810       | 10-100               | M100x2.0            | 20      | 3 1/2/4          | 33/34   | 81.0         | 91.0    | 90.0    | 100.0   | 150.0          | 3.00       | 3.50    | 125.0            | 141.0      | 120.0                   |
| 052811       | 11-110               | M110x2.0            | 20      | 4                | 34      | 86.0         | 98.0    | 100.0   | 114.0   | 150.0          | 3.00       | 4.00    | 135.0            | 152.0      | 120.0                   |
| 052812       | 12-120               | M120x2.0            | 20      | -                | -       | 96.0         | 103.0   | 103.0   | 118.0   | 150.0          | 3.00       | 4.00    | 140.0            | 158.0      | 120.0                   |
| 052813       | 13-130               | M130x2.0            | 20      | -                | -       | 100.0        | 115.0   | 113.0   | 124.0   | 185.0          | 3.00       | 4.00    | 146.0            | 164.0      | 120.0                   |

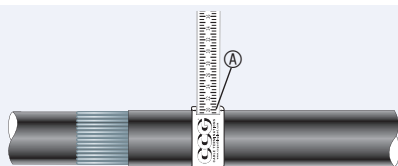
All dimensions except NPT are in mm.

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

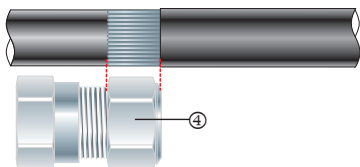
CCG reserves the right to make alterations to the technical data, dimensions, designs and products available without notice. The illustrations cannot be considered binding. Please contact CCG for assistance.

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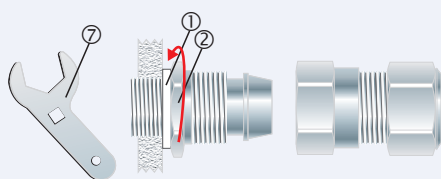
### E1W LSOH CAPTIVE COMPONENT GLAND<sup>®</sup>



1. For accurate sizing, use a CCG Dimension Tape <sup>Ⓐ</sup> on the inner and outer cable sheath.



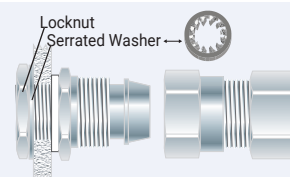
2. Cut back the cable outer sheath to expose the armour to a length not more than the outer nut <sup>④</sup>.



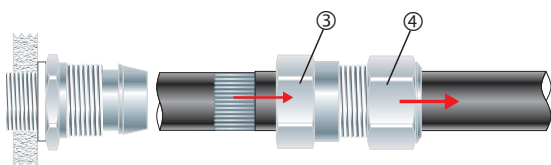
3. To maintain IP66/68, ensure the gasket <sup>①</sup> is in place. Screw the inner <sup>②</sup> into the apparatus. Tighten the inner <sup>②</sup>, to installation torque using a CCG Spanner <sup>⑦</sup>. If apparatus is untapped use a locknut.

Alternative installation through an unthreaded entry.

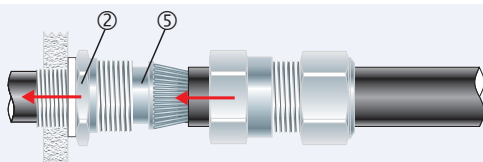
If the apparatus is untapped use a locknut.



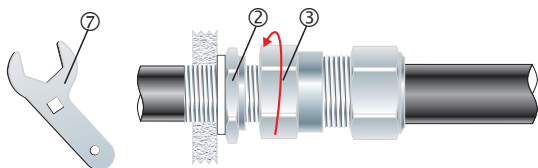
If the gland has NPT entry threads fitted to a threaded entry then IP68 (2m) can be achieved by applying one of the following tested and approved grease types to the thread:- Renolit Lubrene CA700 or LX220 EP2, Renolit LC-WP2 or Moly LX2, or Dow Corning 4 Electrical Compound.



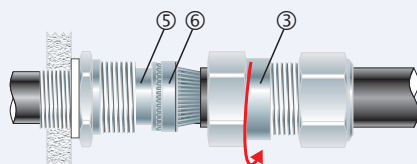
4. Pass the outer nut <sup>④</sup> and the body <sup>③</sup> over the cable.



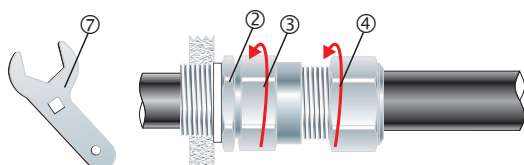
5. Pass cable end through the inner <sup>②</sup> and splay the armour wires over the cone <sup>⑤</sup>.



6. Tighten the body <sup>③</sup> onto the inner <sup>②</sup> until hand tight, then tighten with a CCG Spanner <sup>⑦</sup> with  $\frac{3}{4}$  turn to lock the armour between the cone <sup>⑤</sup> and the cone ring <sup>⑥</sup>.



7. Unscrew the body <sup>③</sup>. Check that the armour has locked between the cone <sup>⑤</sup> and the cone ring <sup>⑥</sup>. (O-Ring on the cone ring <sup>⑥</sup> is sacrificial).



8. Tighten the body <sup>③</sup> onto the inner <sup>②</sup> to installation torque using a CCG Spanner <sup>⑦</sup>. Tighten the outer nut <sup>④</sup> to produce a moisture proof seal by turning until the seal makes contact with the outer sheath of cable and then make one full turn.