



E1W CIEL

E1W Double Seal Industrial Cast Integral Earth Lug Cable Gland

For all types of Steel & Aluminium Wire Armoured Cables

- External earth connection
- Third party short circuit tested
- Metal-to-metal armour clamping
- Direct & remote installation
- Permanently crimped, low impedance earth termination
- Secure against self-loosening
- Displacement type inner seal
- Controlled outer 'load retention' seal
- Unique OSTG prevents overtightening
- Deluge protection option
- -60°C to +130°C
- EMC tested



The Symmetrical Fault Current (kA) rating for 1 second applicable to the Cast Integral Earth Lug featured in the E1W CIEL products are as follows:
 26.0 kA for Cable Gland sizes up to 40
 43.0 kA for Cable Gland sizes 50S and above.

TECHNICAL DATA

| | |
|------------------------------------|---|
| Design Specification | BS 6121:Part 1:1989, IEC 62444, EN 62444 |
| Mechanical Classifications* | Impact = Level 8, Retention = Class D |
| Enclosure Protection | IK10 to IEC 62262 (20 joules) Brass & Stainless Steel only |
| Electrical Classifications* | Category C |
| GOST R Certificate No. | POCC GB. ГБ05.H00187 |
| GOST K Certificate No. | KZ 7500361.01.01.25266 |
| RoK Permit For Use Number | 19-02-UL-1957 |
| Marine Approvals | LRs: 01/00171 (E1), ABS: 01-LD234401/2-PDA |
| Ingress Protection Rating | IP66 as standard (IP67, IP68 available upon request)** |
| Cable Gland Material | Brass, Electroless Nickel Plated Brass, Aluminium |
| Seal Material | CMP Thermoset Rubber |
| Cable Type | Single Wire Armour (SWA), Aluminium Wire Armour (AWA) |
| Armour Clamping | Detachable Armour Cone & AnyWay Universal Clamping Ring |
| Sealing Technique | CMP Inner Displacement Seal & Unique CMP 'LRS'™ Outer Load Retention Seal |
| Sealing Area(s) | Cable Inner Bedding & Outer Cable Sheath |

Note: * Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444
 Note: ** Refer to page 7 or www.cmp-products.com for further information on Ingress Protection Ratings

Cable Gland Selection Table

Refer to illustration at the top of the page

| Cable Gland Size | Available Entry Threads "C" (Alternate Metric Thread Lengths Available) | | | | | Cable Bedding Diameter "A" | | Overall Cable Diameter "B" | | Armour Range | | Across Flats "D" | | Across Corners "D" | | Protrusion Length "F" | Radius Dimension | | CIEL Earth Bolt Size | Earth Fault Current Rating (kA) | Combined Ordering Reference (*Brass Metric) | | | Cable Gland Weight (Kgs) |
|------------------|---|----------------------------|--------|-------------------------|--------|----------------------------|-------|----------------------------|-------|--------------|------|------------------|-------|--------------------|-------|-----------------------|------------------|------|----------------------|---------------------------------|---|-------|--|--------------------------|
| | Standard | | Option | | | Min | Max | Min | Max | Min | Max | Max | Max | "H" | "G" | | Size | Type | | | Ordering Suffix | | | |
| | Metric | Thread Length (Metric) "E" | NPT | Thread Length (NPT) "E" | NPT | | | | | | | | | | | | | | | | | | | |
| 20S | M20 | 10.0 | 1/2" | 19.9 | 3/4" | 6.1 | 11.6 | 9.5 | 15.9 | 0.8 | 1.25 | 24.0 | 26.4 | 70.0 | 28.6 | 38.6 | M8 | 26.0 | 20S | E1WC | 1RA | 0.195 | | |
| 20 | M20 | 10.0 | 1/2" | 19.9 | 3/4" | 6.5 | 13.9 | 12.5 | 20.9 | 0.8 | 1.25 | 30.5 | 33.6 | 73.0 | 31.8 | 41.8 | M8 | 26.0 | 20 | E1WC | 1RA | 0.276 | | |
| 25S | M25 | 10.0 | 3/4" | 20.2 | 1" | 11.1 | 19.9 | 14.0 | 22.0 | 1.25 | 1.6 | 37.5 | 41.3 | 89.0 | 38.1 | 50.8 | M8 | 26.0 | 25S | E1WC | 1RA | 0.438 | | |
| 25 | M25 | 10.0 | 3/4" | 20.2 | 1" | 11.1 | 19.9 | 18.2 | 26.2 | 1.25 | 1.6 | 37.5 | 41.3 | 89.0 | 38.1 | 50.8 | M8 | 26.0 | 25 | E1WC | 1RA | 0.435 | | |
| 32 | M32 | 10.0 | 1" | 25.0 | 1 1/4" | 17.0 | 26.2 | 23.7 | 33.9 | 1.6 | 2.0 | 46.0 | 50.6 | 86.0 | 41.3 | 54.0 | M10 | 26.0 | 32 | E1WC | 1RA | 0.506 | | |
| 40 | M40 | 15.0 | 1 1/4" | 25.6 | 1 1/2" | 22.0 | 32.1 | 27.9 | 40.4 | 1.6 | 2.0 | 55.0 | 60.5 | 90.0 | 50.8 | 68.3 | M12 | 26.0 | 40 | E1WC | 1RA | 0.802 | | |
| 50S | M50 | 15.0 | 1 1/2" | 26.1 | 2" | 29.5 | 38.1 | 35.2 | 46.7 | 2.0 | 2.5 | 60.0 | 66.0 | 91.0 | 57.2 | 74.6 | M12 | 43.0 | 50S | E1WC | 1RA | 0.883 | | |
| 50 | M50 | 15.0 | 2" | 26.9 | 2 1/2" | 35.6 | 44.0 | 40.4 | 53.0 | 2.0 | 2.5 | 70.1 | 77.1 | 95.0 | 60.3 | 79.4 | M12 | 43.0 | 50 | E1WC | 1RA | 1.038 | | |
| 63S | M63 | 15.0 | 2" | 26.9 | 2 1/2" | 40.1 | 49.9 | 45.6 | 59.4 | 2.0 | 2.5 | 75.0 | 82.5 | 102.0 | 70.0 | 90.5 | M12 | 43.0 | 63S | E1WC | 1RA | 1.636 | | |
| 63 | M63 | 15.0 | 2 1/2" | 39.9 | 3" | 47.2 | 55.9 | 54.6 | 65.8 | 2.0 | 2.5 | 80.0 | 88.0 | 104.0 | 70.0 | 90.5 | M12 | 43.0 | 63 | E1WC | 1RA | 1.597 | | |
| 75S | M75 | 15.0 | 2 1/2" | 39.9 | 3" | 52.8 | 61.9 | 59.0 | 72.0 | 2.0 | 2.5 | 90.0 | 99.0 | 115.0 | 76.2 | 98.5 | M12 | 43.0 | 75S | E1WC | 1RA | 2.310 | | |
| 75 | M75 | 15.0 | 3" | 41.5 | 3 1/2" | 59.1 | 67.9 | 66.7 | 78.4 | 2.5 | 3.0 | 100.0 | 110.0 | 117.0 | 82.6 | 108.0 | M12 | 43.0 | 75 | E1WC | 1RA | 2.717 | | |
| 90 | M90 | 24.0 | 3 1/2" | 42.8 | 4" | 66.6 | 78.6 | 76.2 | 90.3 | 3.15 | 4.0 | 114.3 | 125.7 | 147.0 | 95.3 | 127.1 | M12 | 43.0 | 90 | E1WC | 1RA | 4.417 | | |
| 100 | M100 | 24.0 | 4" | 44.0 | 5" | 76.0 | 90.9 | 86.1 | 101.4 | 3.15 | 4.0 | 123.0 | 135.3 | 140.0 | 102.0 | 133.8 | M12 | 43.0 | 100 | E1WC | 1RA | 4.820 | | |
| 115 | M115 | 24.0 | 4" | 44.0 | 5" | 86.0 | 97.9 | 101.5 | 110.2 | 3.15 | 4.0 | 133.4 | 146.7 | 162.0 | 95.3 | 127.1 | M12 | 43.0 | 115 | E1WC | 1RA | 6.191 | | |
| 130 | M130 | 24.0 | 5" | 46.8 | 6" | 97.0 | 114.9 | 110.2 | 123.2 | 3.15 | 4.0 | 152.4 | 167.6 | 177.0 | 102.0 | 133.8 | M12 | 43.0 | 130 | E1WC | 1RA | 8.539 | | |

*Note: For material options please add the following suffix to change the Ordering Reference: Brass (no suffix required), Nickel Plated Brass "5", Copper Free Aluminium "1"
 For NPT options add the following digits to the material suffix; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (Brass requires prefix '0')

Examples: 32E1WC1RA534 = Nickel Plated Brass 1-1/4" NPT, 50SE1WC1RA035 = Brass 1-1/2" NPT, 20E1WC1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated