



## E2X

### E2X Double Seal Industrial Cable Gland

#### For Lead Sheathed Braid Armoured Cables

- Effectively earths / grounds lead sheathed cables
- 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
- Designed to prevent Coldflow
- Deluge protection option
- 60°C to +130°C
- EMC tested



† Grooved Cone (X) is predominantly used for Wire Braid (e.g. GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminium Strip Armour (ASA) but is also suitable for single Wire Armour (SWA), Aluminium Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W).

Note: Grooved Cone (X) dimensions shown in the Cable Gland Selection Table below are for a double wire strand of braid armoured cables. Tapes can also be doubled over. For cables that have only a single layer of armour such as SWA the clamping range should be used as shown in the table below.

If Tape Armour is to be used please contact CMP for advice.

#### 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 B (Category A when used with braid, tape or pliable wire armour cables)                                                                                             |
| 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                  | Lead Sheathed & Wire Braid Armour, Lead Sheathed & Steel Tape Armour (LC/STA), Lead Sheathed & Pliable Wire Armour (LC/PWA), Lead Sheathed & Aluminium Strip Armour (LC/ASA) |
| 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 Lead Sheath & Outer Sheath                                                                                                                                       |

Note : \* Mechanical & Electrical Classifications applied as per IEC 62444 & EN 62444

Note : \*\* Refer to page 7 or [www.cmp-products.com](http://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" |                            |        |                         |        | Cable Lead Sheath Diameter "A" |       | Overall Cable Diameter "B" |       | Armour Range † Grooved Cone (X) |     | Across Flats "D" | Across Corners "D" | Protrusion Length "F" | Combined Ordering Reference (*Brass Metric) |      |                 | Shroud | Cable Gland Weight (Kgs) |
|------------------|-----------------------------|----------------------------|--------|-------------------------|--------|--------------------------------|-------|----------------------------|-------|---------------------------------|-----|------------------|--------------------|-----------------------|---------------------------------------------|------|-----------------|--------|--------------------------|
|                  | Standard                    |                            |        |                         | Option |                                |       |                            |       |                                 |     |                  |                    |                       | Size                                        | Type | Ordering Suffix |        |                          |
|                  | Metric                      | Thread Length (Metric) "E" | NPT    | Thread Length (NPT) "E" | NPT    | Min                            | Max   | Min                        | Max   | Min                             | Max | Max              | Max                |                       |                                             |      |                 |        |                          |
| 20s16            | M20                         | 10.0                       | 1/2"   | 19.9                    | 3/4"   | 3.1                            | 7.8   | 6.1                        | 13.1  | 0.3                             | 1.0 | 24.0             | 26.4               | 72.5                  | 20S16                                       | E2X  | 1RA             | PVC04  | 0.160                    |
| 20S              | M20                         | 10.0                       | 1/2"   | 19.9                    | 3/4"   | 6.1                            | 11.0  | 9.5                        | 15.9  | 0.3                             | 1.0 | 24.0             | 26.4               | 70.0                  | 20S                                         | E2X  | 1RA             | PVC04  | 0.150                    |
| 20               | M20                         | 10.0                       | 1/2"   | 19.9                    | 3/4"   | 6.5                            | 13.4  | 12.5                       | 20.9  | 0.4                             | 1.0 | 30.5             | 33.6               | 73.0                  | 20                                          | E2X  | 1RA             | PVC06  | 0.210                    |
| 25S              | M25                         | 10.0                       | 3/4"   | 20.2                    | 1"     | 11.1                           | 19.3  | 14.0                       | 22.0  | 0.4                             | 1.2 | 37.5             | 41.3               | 89.0                  | 25S                                         | E2X  | 1RA             | PVC09  | 0.330                    |
| 25               | M25                         | 10.0                       | 3/4"   | 20.2                    | 1"     | 11.1                           | 19.3  | 18.2                       | 26.2  | 0.4                             | 1.2 | 37.5             | 41.3               | 89.0                  | 25                                          | E2X  | 1RA             | PVC09  | 0.330                    |
| 32               | M32                         | 10.0                       | 1"     | 25.0                    | 1 1/4" | 17.0                           | 25.5  | 23.7                       | 33.9  | 0.4                             | 1.2 | 46.0             | 50.6               | 86.0                  | 32                                          | E2X  | 1RA             | PVC11  | 0.430                    |
| 40               | M40                         | 15.0                       | 1 1/4" | 25.6                    | 1 1/2" | 22.0                           | 31.2  | 27.9                       | 40.4  | 0.4                             | 1.6 | 55.0             | 60.5               | 90.0                  | 40                                          | E2X  | 1RA             | PVC15  | 0.620                    |
| 50S              | M50                         | 15.0                       | 1 1/2" | 26.1                    | 2"     | 29.5                           | 37.2  | 35.2                       | 46.7  | 0.4                             | 1.6 | 60.0             | 66.0               | 91.0                  | 50S                                         | E2X  | 1RA             | PVC18  | 0.750                    |
| 50               | M50                         | 15.0                       | 2"     | 26.9                    | 2 1/2" | 35.6                           | 42.6  | 40.4                       | 53.0  | 0.6                             | 1.6 | 70.1             | 77.1               | 95.0                  | 50                                          | E2X  | 1RA             | PVC21  | 0.960                    |
| 63S              | M63                         | 15.0                       | 2"     | 26.9                    | 2 1/2" | 40.1                           | 48.5  | 45.6                       | 59.4  | 0.6                             | 1.6 | 75.0             | 82.5               | 102.0                 | 63S                                         | E2X  | 1RA             | PVC23  | 1.350                    |
| 63               | M63                         | 15.0                       | 2 1/2" | 39.9                    | 3"     | 47.2                           | 54.2  | 54.6                       | 65.8  | 0.6                             | 1.6 | 80.0             | 88.0               | 104.0                 | 63                                          | E2X  | 1RA             | PVC25  | 1.350                    |
| 75S              | M75                         | 15.0                       | 2 1/2" | 39.9                    | 3"     | 52.8                           | 60.2  | 59.0                       | 72.0  | 0.6                             | 1.6 | 90.0             | 99.0               | 115.0                 | 75S                                         | E2X  | 1RA             | PVC28  | 2.120                    |
| 75               | M75                         | 15.0                       | 3"     | 41.5                    | 3 1/2" | 59.1                           | 65.2  | 66.7                       | 78.4  | 0.6                             | 1.6 | 100.0            | 110.0              | 117.0                 | 75                                          | E2X  | 1RA             | PVC30  | 2.430                    |
| 90               | M90                         | 24.0                       | 3 1/2" | 42.8                    | 4"     | 66.6                           | 77.1  | 76.2                       | 90.3  | 0.8                             | 1.6 | 114.3            | 125.4              | 147.0                 | 90                                          | E2X  | 1RA             | PVC32  | 4.230                    |
| 100              | M100                        | 24.0                       | 4"     | 44.0                    | 5"     | 76.0                           | 88.1  | 86.1                       | 101.4 | 0.8                             | 1.6 | 123.0            | 135.3              | 140.0                 | 100                                         | E2X  | 1RA             | LSF33  | 4.470                    |
| 115              | M115                        | 24.0                       | 4"     | 44.0                    | 5"     | 86.0                           | 94.1  | 101.5                      | 110.2 | 0.8                             | 1.6 | 133.4            | 146.7              | 162.0                 | 115                                         | E2X  | 1RA             | LSF34  | 6.210                    |
| 130              | M130                        | 24.0                       | 5"     | 46.8                    | 6"     | 97.0                           | 110.1 | 110.2                      | 123.2 | 0.8                             | 1.6 | 152.4            | 167.6              | 174.0                 | 130                                         | E2X  | 1RA             | LSF35  | 8.360                    |

\*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: 32E2X1RA534 = Nickel Plated Brass 1-1/4" NPT, 50SE2X1RA035 = Brass 1-1/2" NPT, 20E2X1RA5 = Nickel Plated Brass M20

Dimensions are displayed in millimetres unless otherwise stated



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