



### PRODUCT DESCRIPTION

"E\*U" type double compression glands are certified Flameproof Ex db, Increased Safety Ex eb, Restricted Breathing Ex nR and Dust Protected Ex ta. They are suitable for use in Zone 1 and 2 for Gas Groups IIA, IIB and IIC and additionally for use in Zones 20, 21 and 22 for Dusts Groups IIIA, IIIB and IIIC. Also certified for Zone and Division installations for use with Marine Shipboard and Tray Cables under the NEC and CEC. They provide a controlled Ex db & IP seal on the cable inner sheath, an environmental seal on the outer sheath and Peppers multi-armour clamping system for wire, braid and tape armoured cables. The gland has been tested to IP66 and IP68 to 50 metres. The Integral Earth "IE" version allows the gland to be used with HV cables where the fault load is greater than 10.4kA and options are available for use with lead sheath, LSOH cables and extreme temperature applications.

### COMPLIANCE STANDARDS:

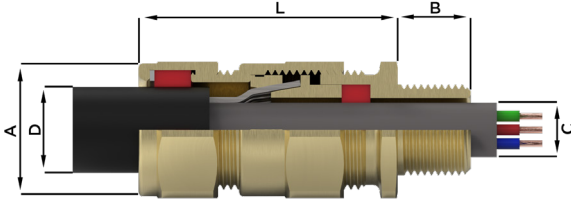
EN 60079-0, EN 60079-1, EN 60079-7, EN 60079-15, EN 60079-31  
IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31 & IEC 60529  
C22.2 (see certificate), CAN/CSA 60079-0/1/7/31  
UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31

### CERTIFICATION:

|                         |  |
|-------------------------|--|
| <b>UKEX</b>             | II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIC Da<br>II 3G Ex nR IIC Gc                            |
| <b>ATEX</b>             | II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIC Da<br>II 3G Ex nR IIC Gc                            |
| <b>IECEX</b>            | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da  |
| <b>CEC - Canada</b>     | Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIC Da<br>Class II Group E, F & G<br>Class III Type 4X           |
| <b>NEC - USA</b>        | Class I Zone 1 AEx eb IIC Gb / Zone 20 AEx ta IIC Da<br>Class II Group E, F & G<br>Class III Type 4X |
| <b>EAC</b>              | 1Ex db IIC Gb X / 1Ex eb IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIC Da X                                 |
| <b>INMETRO - Brazil</b> | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da  |
| <b>CCC - China</b>      | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da  |
| <b>CCoE - India</b>     | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da  |
| <b>ECAS-Ex - U.A.E</b>  | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da  |
| <b>ABS</b>              | Specified ABS Rules  |
| <b>LLOYD'S</b>          | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da  |
| <b>DNV</b>              | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIC Da  |

### CERTIFICATION No.:

|                         |                                   |
|-------------------------|-----------------------------------|
| <b>UKEX</b>             | CML 21UKEX1035X & CML 21UKEX4043X |
| <b>ATEX</b>             | CML 19ATEX1106X & CML 19ATEX4109X |
| <b>IECEX</b>            | IECEX CML 19.0031X                |
| <b>CEC - Canada</b>     | CSA 1356011                       |
| <b>NEC - USA</b>        | CSA 1356011                       |
| <b>EAC</b>              | RU C-GB.AX58.B.05106/24           |
| <b>INMETRO - Brazil</b> | NCC 13.2186 X                     |
| <b>CCC - China</b>      | 2021312313000406                  |
| <b>CCoE - India</b>     | PESO P494321/4 & P494321/13       |
| <b>ECAS-Ex - U.A.E</b>  | 25-06-153223/E25-06-159811/NB0007 |
| <b>ABS</b>              | 25-0158110-PDA                    |
| <b>LLOYD'S</b>          | LR25189453TA                      |
| <b>DNV</b>              | TAE00004XK                        |



### EXAMPLE PART NUMBERING:

|               |   |
|---------------|---|
| <b>E</b>      | Gland featuring Peppers Multi-armour clamping system                          |
| <b>1</b>      | Neoprene Seal (1) - Silicone Seal (3) - Neoprene/Lead (2) - Silicone/Lead (4) |
| <b>U</b>      | SWA / AWA / SWB or STA  |
| <b>B</b>      | Brass (B) / Stainless Steel (S)   |
| <b>IE</b>     | Integral Earth (see page 82)  |
| <b>F</b>      | Multiple Certification  |
| <b>R</b>      | Reduced Bore Seal   |
| <b>C</b>      | PVC Shroud (C) - LSOH Silicone Shroud (3)                                     |
| <b>K-V-H</b>  | Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer               |
| <b>S</b>      | Including Serrated Washer   |
| <b>1</b>      | Quantity per kit  |
| <b>NP</b>     | Nickel Plated   |
| <b>20</b>     | Gland shell size  |
| <b>050NPT</b> | 1/2"NPT Male Entry Thread   |

### OPTIONAL ACCESSORIES:

|                         |   |
|-------------------------|---|
| <b>LOCKNUT (L)</b>      | Brass (ACBLN) / Stainless Steel (ACSLN)                         |
| <b>EARTH TAG (T)</b>    | Brass (ACBET) / Stainless Steel (ACSET)                         |
| <b>IP WASHERS</b>       | Nylon (N) / Fibre (J) / PTFE (Z)                                |
| <b>SERRATED WASHERS</b> | Stainless Steel (S)   |
| <b>SHROUDS</b>          | PVC (C) / LSOH Silicone (3)                                     |
| <b>IP RATING:</b>       | IP66 & IP68 (50 metres - 7 days), Type 4X                       |
| <b>OPERATING TEMP:</b>  | Neoprene Seals -35°C to +90°C<br>Silicone Seals -60°C to +180°C |
| <b>MATERIALS:</b>       | Brass or Stainless Steel  |
| <b>PLATING:</b>         | Electroless Nickel  |

### CABLE GLAND SELECTION TABLE (ALL DIMENSIONS IN mm)

| Gland size | Entry Thread Size |                  | Metric Thread Length [B] | Cable Acceptance Details |      |                  |       |             | Armour Acceptance Range |               | Nominal Protrusion Length [L] | Dimensions/Weight (Metric) |                  |                | Shroud Size* (Metric) |            |
|------------|-------------------|------------------|--------------------------|--------------------------|------|------------------|-------|-------------|-------------------------|---------------|-------------------------------|----------------------------|------------------|----------------|-----------------------|------------|
|            | Metric            | NPT              |                          | Inner Sheath [C]         |      | Outer Sheath [D] |       | Reduced [D] |                         | Orientation 1 |                               | Orientation 2              | Across Flats [A] | Across Corners |                       | Weight Kgs |
|            |                   |                  |                          | Min                      | Max  | Min              | Max   | Min         | Max                     |               |                               |                            |                  |                |                       |            |
| 16         | M16 x 1.5         | 3/8" or 1/2"     | 16                       | 3.5                      | 8.4  | 8.4              | 13.5  | 4.9         | 10.0                    | 0.80-1.25     | 0.20-0.80                     | 58                         | 24.0             | 26.5           | 0.143                 | L24**      |
| 16         | M20 x 1.5         | 1/2" or 3/4"     | 16                       | 3.5                      | 8.4  | 8.4              | 13.5  | 4.9         | 10.0                    | 0.80-1.25     | 0.20-0.80                     | 58                         | 24.0             | 26.5           | 0.154                 | L24**      |
| 20S        | M20 x 1.5         | 1/2" or 3/4"     | 16                       | 8.0                      | 11.7 | 11.5             | 16.0  | 9.4         | 12.5                    | 0.80-1.25     | 0.20-0.80                     | 58                         | 24.0             | 26.5           | 0.125                 | L24**      |
| 20         | M20 x 1.5         | 1/2" or 3/4"     | 16                       | 6.7*                     | 14.0 | 15.5             | 21.1  | 12.0        | 17.6                    | 0.80-1.25     | 0.20-0.80                     | 58                         | 30.0             | 33.0           | 0.180                 | L30        |
| 25         | M25 x 1.5         | 3/4" or 1"       | 16                       | 13.0                     | 20.0 | 20.3             | 27.4  | 16.8        | 23.9                    | 1.25-1.60     | 0.20-0.80                     | 58                         | 37.6             | 41.4           | 0.256                 | L38        |
| 32         | M32 x 1.5         | 1" or 1 1/4"     | 16                       | 19.0                     | 26.3 | 26.7             | 34.0  | 23.2        | 30.5                    | 1.60-2.00     | 0.30-1.20                     | 65                         | 46.0             | 50.6           | 0.400                 | L46        |
| 40         | M40 x 1.5         | 1 1/4" or 1 1/2" | 16                       | 25.0                     | 32.2 | 33.0             | 40.6  | 28.6        | 36.2                    | 1.60-2.00     | 0.30-1.20                     | 72                         | 55.0             | 60.5           | 0.649                 | L55        |
| 50S        | M50 x 1.5         | 1 1/2" or 2"     | 16                       | 31.5                     | 38.2 | 39.4             | 46.7  | 34.8        | 42.4                    | 2.00-2.50     | 0.30-1.60                     | 73                         | 65.0             | 71.5           | 0.940                 | L65        |
| 50H        | M50 x 1.5         | 1 1/2" or 2"     | 16                       | 31.5                     | 38.2 | 45.7             | 53.2  | 41.1        | 48.5                    | 2.00-2.50     | 0.30-1.60                     | 73                         | 65.0             | 71.5           | 0.849                 | L65        |
| 50         | M50 x 1.5         | 2"               | 16                       | 36.5                     | 44.1 | 45.7             | 53.2  | 41.1        | 48.5                    | 2.00-2.50     | 0.30-1.60                     | 73                         | 65.0             | 71.5           | 0.707                 | L65        |
| 63S        | M63 x 1.5         | 2" or 2 1/2"     | 19                       | 42.5                     | 50.1 | 52.1             | 59.5  | 47.5        | 54.8                    | 2.00-2.50     | 0.30-1.60                     | 76                         | 80.0             | 88.0           | 1.369                 | L80        |
| 63H        | M63 x 1.5         | 2" or 2 1/2"     | 19                       | 42.5                     | 50.1 | 58.4             | 65.8  | 53.8        | 61.2                    | 2.00-2.50     | 0.30-1.60                     | 76                         | 80.0             | 88.0           | 1.306                 | L80        |
| 63         | M63 x 1.5         | 2 1/2"           | 19                       | 49.5                     | 56.0 | 58.4             | 65.8  | 53.8        | 61.2                    | 2.00-2.50     | 0.30-1.60                     | 76                         | 80.0             | 88.0           | 1.123                 | L80        |
| 75S        | M75 x 1.5         | 2 1/2" or 3"     | 19                       | 54.5                     | 62.0 | 64.8             | 72.2  | 60.2        | 68.0                    | 2.00-2.50     | 0.50-1.60                     | 82                         | 90.0             | 99.0           | 1.661                 | L90        |
| 75H        | M75 x 1.5         | 2 1/2" or 3"     | 19                       | 54.5                     | 62.0 | 71.1             | 78.0  | 66.5        | 73.4                    | 2.00-2.50     | 0.50-1.60                     | 82                         | 90.0             | 99.0           | 1.553                 | L90        |
| 75         | M75 x 1.5         | 3"               | 19                       | 60.5                     | 68.0 | 71.1             | 78.0  | 66.5        | 73.4                    | 2.00-2.50     | 0.50-1.60                     | 82                         | 90.0             | 99.0           | 1.310                 | L90        |
| 80         | M80 x 2.0         | 3" or 3 1/2"     | 25                       | 62.2                     | 72.0 | 77.0             | 84.0  | 71.9        | 79.4                    | 3.15-4.00     | 0.50-1.60                     | 110                        | 104.0            | 115.2          | 2.718                 | L104       |
| 80H        | M80 x 2.0         | 3" or 3 1/2"     | 25                       | 62.2                     | 72.0 | 79.6             | 90.0  | 75.0        | 85.4                    | 3.15-4.00     | 0.50-1.60                     | 110                        | 104.0            | 115.2          | 2.489                 | L104       |
| 85         | M85 x 2.0         | 3" or 3 1/2"     | 25                       | 69.0                     | 78.0 | 79.6             | 90.0  | 75.0        | 85.4                    | 3.15-4.00     | 0.50-1.60                     | 110                        | 104.0            | 115.2          | 2.326                 | L104       |
| 90         | M90 x 2.0         | 3 1/2" or 4"     | 25                       | 74.0                     | 84.0 | 88.0             | 96.0  | 82.0        | 91.4                    | 3.15-4.00     | 0.50-1.60                     | 110                        | 114.0            | 125.7          | 2.852                 | L114       |
| 90H        | M90 x 2.0         | 3 1/2" or 4"     | 25                       | 74.0                     | 84.0 | 92.0             | 102.0 | 87.4        | 97.4                    | 3.15-4.00     | 0.50-1.60                     | 110                        | 114.0            | 125.7          | 2.629                 | L114       |
| 100        | M100 x 2.0        | 3 1/2" or 4"     | 25                       | 82.0                     | 90.0 | 92.0             | 102.0 | 87.4        | 97.4                    | 3.15-4.00     | 0.50-1.60                     | 110                        | 114.0            | 125.7          | 2.496                 | L114       |

### NOTES

- Gland size does not necessarily equate to the entry thread size.
- Dimensions (A) & (B) may differ for glands with non metric entry threads. Please refer to our "Thread Reference Tables" for specific dimensions.
- Assembly instructions must be read prior to installation and adhered to in full.
- Peppers supplies cable glands with parallel entry threads that conform to the flameproof threaded joint requirements of IEC/EN 60079-1 and other equivalent standards. We usually incorporate a thread run out according to general machining techniques and parts will not have a full form thread for the entire length. Peppers Cable Glands Limited will not be held responsible for clients' installations where this has not been taken into account.
- When selecting IP Washer & Shroud material for use with glands, please be aware of the accessories temperature range to ensure they are suitable for the intended installation.
- Orientation 2 Min ranges stated are for double layer braid and single layer tape.
- Where approval in addition to UKEX, ATEX, IECEX and CSA is required, this must be clearly requested at the time of the request / order.
- \* For gland size 20 the silicone inner seal has a minimum diameter of 9.3mm and not 6.7mm
- \*\* For gland sizes 16 and 20S when used with a 3/4" NPT entry thread an L30 shroud would be required.