

Cable Gland Type E - (Double Compression Gland for Armoured Cable featuring Dedicated Armour Clamping)

Ex d : Ex e : Ex nR : Ex ta : IP66 : IP68
Class I Div 2 : AEx e : AEx ta

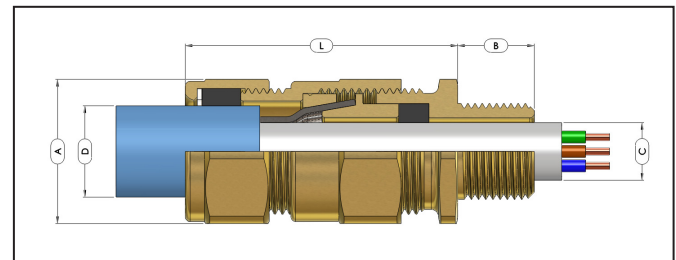
Part Numbers:

| | | | | | | |
|---|---|---|---|----|---|---|
| E | 1 | W | B | * | F | * |
| | 2 | X | S | IE | | R |
| | 3 | | A | | | |
| | 4 | | | | | |



"E" type double compression glands are certified Flameproof Ex d, Increased Safety Ex e, 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 Dust Groups IIIA, IIIB and IIIC. Also certified for Class I Zone 1 & Class I Div 2 installations for use with Marine Shipboard & Tray Cables under NEC & CEC. They provide a controlled Ex d & IP seal on the cable inner sheath, an environmental seal on the outer sheath and a detachable armour specific clamping system for wire (W), braid/tape (X) armoured cables. The gland has been tested to IP66 and IP68 to 50 metres and is available with an IP O-ring seal on metric entry threads. 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.

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|-------------------------------|--|
| 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 UL514B, UL1203, UL2225, UL50E, ANSI/UL 60079-0/7, ISA 60079-31 |
| Certification: | ATEX II 1D 2G Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da II 3G Ex nR IIC Gc IECEx Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da CEC - Canada Class I Zone 1 Ex d IIC / Ex e II Class I Division 2, Groups A, B, C & D Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X NEC - USA Class I Zone 1 AEx e IIC Gb / Class II Zone 20 AEx ta IIIC Da Class II Division 1, Groups E, F & G Class III, Enclosure Type 4X EAC Exd IICU / Exe IIU / ExnR IIU INMETRO - Brazil Ex d IIC Gb / Ex e IIC Gb / Ex ta IIIC Da SAC - China Ex d IIC / Ex e IIC UKRAINE Ex d IIC X / Ex e II X CCoE - India Petroleum Rules 2002 (PESO) ABS Specified ABS Rule LLOYD'S Enclosure Systems (Part 1B) RMRS Part XI of RS Rules for the classification & construction of sea-going ships (ed. 2014) |
| Certificate No. | ATEX SIRA 01ATEX1271X & SIRA 09ATEX1221X IECEx IECEx SIR 07.0097X CEC - Canada CSA 1356011 NEC - USA CSA 2627370 EAC RU C-GB.F506.B.00098 INMETRO - Brazil NCC 13.2186 X SAC - China NEPSI GYJ16.1400X UKRAINE UA.TR.047.C.0408-13 & 2937 CCoE - India PESO P365300/2 & P365300/13 ABS 14-LD463991-1-PDA LLOYD'S 10/00056(E1) RMRS 14.02755.315 |
| IP Rating: | IP66 & IP68 (50 metres - 7 days), Type 4X |
| Operating Temperature: | Neoprene Seals -35°C to +90°C / Silicone Seals -60°C to +180°C |
| Materials: | Aluminium, Brass or Stainless Steel |
| Plating: | Electroless Nickel |



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|--|---|---|
| Example Part Numbering (See below for details) | | E1WBF/NP/20/050NPT |
| E | Gland featuring armour specific clamping | |
| 1 | Neoprene Seal (1) - Silicone Seal (3) - Neoprene/Lead (2) - Silicone/Lead (4) | |
| W | SWA (W) / SWB or STA (X) | |
| B | Aluminium (A) / Brass (B) / Stainless Steel (S) | |
| IE | Integral Earth (see page TR-4) | |
| F | Multiple Certification | |
| R | Reduced Bore Seal | |
| C | PVC Shroud (C) - PCP Shroud (P) - LSOH Silicone Shroud (3) | |
| K-V-H | Locknut, Earth Tag & Nylon (K), Fibre (V) or PTFE (H) IP Washer | |
| S | Including Serrated Washer | |
| 1 | Quantity per kit | |
| NP | Nickel Plated | |
| 20 | Gland shell size | |
| 050NPT | 1/2"NPT Male Entry Thread | |
| Optional Accessories | Locknut | Brass (ACBLN) / Stainless Steel (ACSLN) / Aluminium (ACALN) |
| | Earth tag | Brass (ACBET) / Stainless Steel (ACSET) / Aluminium (ACAET) |
| | IP Washers | Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW) |
| | Serrated Washer | Stainless Steel (ACSSW) |
| | Shrouds | PVC (ACSPVC) / PCP (ACSPCP) / LSOH Silicone (ACSSIO) |

| CABLE GLAND SELECTION TABLE | | | | | | | | | | | | | | | | |
|-----------------------------|-------------------|------------------|--------------------------|--------------------------|------|------------------|-------|-------------|------|-------------------------|-----------|-------------------------------|----------------------------|----------------|------------|-------------|
| Gland Size | Entry Thread Size | | Metric Thread Length [B] | Cable Acceptance Details | | | | | | Armour Acceptance Range | | Nominal Protrusion Length [L] | Dimensions/Weight (Metric) | | | Shroud Size |
| | | | | Inner Sheath [C] | | Outer Sheath [D] | | Reduced [D] | | | | | Across Flats [A] | Across Corners | Weight Kgs | |
| | Min | Max | | Min | Max | Min | Max | W | X | | | | | | | |
| 16 | M16 x 1.5 | 1/2" or 3/4" | 16 | 3.5 | 8.4 | 8.4 | 13.5 | 4.9 | 10.3 | 0.90 | 0.15-0.35 | 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 | 10.3 | 0.90 | 0.15-0.35 | 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 | 0.90-1.25 | 0.15-0.35 | 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 | 0.90-1.25 | 0.15-0.50 | 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 | 0.15-0.50 | 58 | 38.0 | 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 | 0.15-0.55 | 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 | 0.20-0.60 | 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 | 0.20-0.60 | 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 | 0.30-0.80 | 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 | 0.30-0.80 | 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 | 2.50 | 0.30-0.80 | 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 | 2.50 | 0.30-0.80 | 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 | 2.50 | 0.30-0.80 | 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 | 2.50 | 0.30-1.00 | 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 | 2.50 | 0.30-1.00 | 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 | 2.50 | 0.30-1.00 | 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 | 0.45-1.00 | 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 | 0.45-1.00 | 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 | 0.45-1.00 | 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 | 0.45-1.00 | 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 | 0.45-1.00 | 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 | 0.45-1.00 | 110 | 114.0 | 125.7 | 2.496 | L114 |

All dimensions in mm

- 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. They usually incorporate a thread run out according to the available machining techniques and 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.
 - * For gland size 20 the silicone inner seal has a minimum diameter of 9.3 mm and NOT 6.7mm
 - 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.
 - Where approval in addition to ATEX, IECEx and CSA is required, this must be clearly requested at time of enquiry / order.