



PRODUCT TYPE A\*LCM

Single Compression Gland with Male Thread for Conduit Connection

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

PART NUMBERS:

|   |   |   |    |   |   |
|---|---|---|----|---|---|
| A | 1 | L | CM | B | F |
|   | 2 |   |    | S |   |
|   | 3 |   |    | A |   |
|   | 4 |   |    |   |   |



PRODUCT DESCRIPTION

"A\*LCM" type 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 Dust 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 pull resistant environmental displacement seal on the cable outer sheath, minimising damage to cables that exhibit "cold flow" characteristics. The gland maintains IP66 & IP68 to 50 metres. It is supplied with an IP O-ring seal as standard on metric entry threads. The gland features a male conduit connection thread as standard.

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:

|                         |                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>ATEX</b>             | II 1D 2G Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da<br>II 3G Ex nR IIIC Gc                                                            |
| <b>IECEx</b>            | Ex db IIC Gb / Ex eb IIC Gb / Ex ta IIIC Da                                                                                            |
| <b>CEC - Canada</b>     | Class I Division 2, Groups A, B, C & D                                                                                                 |
| <b>(except size 12)</b> | Class II Division 1, Groups E, F & G<br>Class III, Enclosure Type 4X<br>Class I Zone 1 Ex d IIC / Ex e II                              |
| <b>NEC - USA</b>        | Class II Division 1, Groups E, F & G<br>Class III, Enclosure Type 4X<br>Class I Zone 1 AEx e IIC Gb<br>Class II Zone 20 AEx ta IIIC Da |
| <b>EAC</b>              | 1Ex d IIC Gb X / 1Ex e IIC Gb X / 2Ex nR IIC Gc X / Ex ta IIIC Da X                                                                    |
| <b>INMETRO - Brazil</b> | Ex db IIC Gb / Ex eb IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da                                                                             |
| <b>SAC - China</b>      | Ex d IIC Gb / Ex e IIC Gb                                                                                                              |
| <b>UKRAINE</b>          | II 2G Ex db IIC Gb / II 2G Ex eb IIC Gb / II 3G Ex nR IIC Gc / II 1D Ex ta IIIC Da                                                     |
| <b>CCoE - India</b>     | Ex d IIC Gb (Zone 1) Ex e IIC Gb (Zone 2) Ex nR IIC Gc (Zone 2)                                                                        |
| <b>ABS</b>              | Specified ABS Rules                                                                                                                    |
| <b>LLOYD'S</b>          | Ex d IIC Gb / Ex e IIC Gb / Ex nR IIC Gc / Ex ta IIIC Da                                                                               |
| <b>RMRS</b>             | Ex d IC / Ex d IIC / Ex e IC / Ex e IIC / Ex ta IIIC                                                                                   |

CERTIFICATION NO:

|                         |                                     |
|-------------------------|-------------------------------------|
| <b>ATEX</b>             | SIRA 01ATEX1272X & SIRA 09ATEX1221X |
| <b>IECEx</b>            | IECEx SIR 07.0096X                  |
| <b>CEC - Canada</b>     | CSA 1356011                         |
| <b>NEC - USA</b>        | CSA 2627370                         |
| <b>EAC</b>              | RU C-GB.BH02.B.00693-18             |
| <b>INMETRO - Brazil</b> | NCC 13.2012 X                       |
| <b>SAC - China</b>      | NEPSI GYJ16.1399X                   |
| <b>UKRAINE</b>          | CLJ 18.0325 X                       |
| <b>CCoE - India</b>     | PESO P365300/2 & P365300/5          |
| <b>ABS</b>              | 14-LD463991-1-PDA                   |
| <b>LLOYD'S</b>          | 10/00056(E1)                        |
| <b>RMRS</b>             | 14.02755.315                        |

EXAMPLE PART NUMBERING:  
A2LCMBF050NPT/NP/20/M20

OPTIONAL  
ACCESSORIES:

|                |                                                                               |
|----------------|-------------------------------------------------------------------------------|
| <b>A</b>       | Gland featuring controlled displacement sealing                               |
| <b>2</b>       | Neoprene Seal (2) - Silicone Seal (3) - Neoprene/Lead (1) - Silicone/Lead (4) |
| <b>L</b>       | Peppers Standard Designation                                                  |
| <b>CM</b>      | Male Conduit Connection Thread                                                |
| <b>B</b>       | Brass (B) / Stainless Steel (S) / Aluminium (A)                               |
| <b>F</b>       | Multiple Certification                                                        |
| <b>050NPT</b>  | 1/2"NPT Male Conduit Connection Thread                                        |
| <b>OPTIONS</b> |                                                                               |
| <b>L</b>       | Locknut (material dictated by gland entry thread material)                    |
| <b>N</b>       | Including IP Washer, Nylon [N] - Fibre [V] - PTFE [H]                         |
| <b>T</b>       | Including Earth Tag                                                           |
| <b>S</b>       | Including Serrated Washer                                                     |
| <b>1</b>       | Quantity per kit                                                              |
| <b>NP</b>      | Nickel Plated                                                                 |
| <b>20</b>      | Gland shell size                                                              |
| <b>M20</b>     | M20 x 1.5mm Male Entry Thread                                                 |

|                         |                                                             |
|-------------------------|-------------------------------------------------------------|
| <b>LOCKNUT</b>          | Brass (ACBLN) / Stainless Steel (ACSLN) / Aluminium (ACALN) |
| <b>EARTH TAG</b>        | Brass (ACBET) / Stainless Steel (ACSET) / Aluminium (ACAET) |
| <b>IP WASHERS</b>       | Nylon (ACNSW) / Fibre (ACFSW) / PTFE (ACPSW)                |
| <b>SERRATED WASHERS</b> | Stainless Steel (ACSSW)                                     |

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| <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>      | Aluminium, 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] | Conduit Connection Thread |                  | Cable Acceptance Outer Sheath [D] |      | Nominal Protrusion Length [L] (Metric) | Dimensions/Weight (Metric Versions) |                |              |
|------------|-------------------|------------------|--------------------------|---------------------------|------------------|-----------------------------------|------|----------------------------------------|-------------------------------------|----------------|--------------|
|            | Metric            | NPT              |                          | Metric                    | NPT              | Min                               | Max  |                                        | Across Flats [A]                    | Across Corners | Weight (Kgs) |
| 12         | M12 x 1.5         | 3/8"             | 16                       | M12 x 1.5                 | 3/8"             | 0.9                               | 6.0  | 25                                     | 19.0                                | 21.0           | 0.048        |
| 12         | M16 x 1.5         | 3/8" or 1/2"     | 16                       | M16 x 1.5                 | 3/8" or 1/2"     | 0.9                               | 6.0  | 26                                     | 25.4                                | 28.0           | 0.117        |
| 16         | M16 x 1.5         | 1/2" or 3/4"     | 16                       | M20 x 1.5                 | 1/2" or 3/4"     | 4.0                               | 8.4  | 30                                     | 25.4                                | 28.0           | 0.131        |
| 20S        | M20 x 1.5         | 1/2" or 3/4"     | 16                       | M20 x 1.5                 | 1/2" or 3/4"     | 7.2                               | 11.7 | 35                                     | 25.4                                | 28.0           | 0.134        |
| 20         | M20 x 1.5         | 1/2" or 3/4"     | 16                       | M20 x 1.5                 | 1/2" or 3/4"     | 9.4                               | 14.0 | 35                                     | 30.0                                | 33.0           | 0.150        |
| 25         | M25 x 1.5         | 3/4" or 1"       | 16                       | M25 x 1.5                 | 3/4" or 1"       | 13.5                              | 20.0 | 35                                     | 37.6                                | 41.4           | 0.215        |
| 32         | M32 x 1.5         | 1" or 1 1/4"     | 16                       | M32 x 1.5                 | 1" or 1 1/4"     | 19.5                              | 26.3 | 35                                     | 46.0                                | 50.6           | 0.293        |
| 40         | M40 x 1.5         | 1 1/4" or 1 1/2" | 16                       | M40 x 1.5                 | 1 1/4" or 1 1/2" | 23.0                              | 32.2 | 38                                     | 55.0                                | 60.5           | 0.472        |
| 50S        | M50 x 1.5         | 1 1/2" or 2"     | 16                       | M50 x 1.5                 | 1 1/2" or 2"     | 28.1                              | 38.2 | 38                                     | 65.0                                | 71.5           | 0.583        |
| 50         | M50 x 1.5         | 2"               | 16                       | M50 x 1.5                 | 2"               | 33.1                              | 44.1 | 38                                     | 65.0                                | 71.5           | 0.525        |
| 63S        | M63 x 1.5         | 2" or 2 1/2"     | 19                       | M63 x 1.5                 | 2" or 2 1/2"     | 39.2                              | 50.1 | 38                                     | 80.0                                | 88.0           | 0.899        |
| 63         | M63 x 1.5         | 2 1/2"           | 19                       | M63 x 1.5                 | 2 1/2"           | 46.7                              | 56.0 | 38                                     | 80.0                                | 88.0           | 0.803        |
| 75S        | M75 x 1.5         | 2 1/2" or 3"     | 19                       | M75 x 1.5                 | 2 1/2" or 3"     | 52.1                              | 62.0 | 38                                     | 90.0                                | 99.0           | 0.994        |
| 75         | M75 x 1.5         | 3"               | 19                       | M75 x 1.5                 | 3"               | 58.0                              | 68.0 | 38                                     | 90.0                                | 99.0           | 0.873        |
| 80         | M80 x 2.0         | 3" or 3 1/2"     | 25                       | M80 x 2.0                 | 3" or 3 1/2"     | 62.2                              | 72.0 | 47                                     | 104.0                               | 115.2          | 1.640        |
| 85         | M85 x 2.0         | 3" or 3 1/2"     | 25                       | M85 x 2.0                 | 3" or 3 1/2"     | 69.0                              | 78.0 | 47                                     | 104.0                               | 115.2          | 1.462        |
| 90         | M90 x 2.0         | 3 1/2" or 4"     | 25                       | M90 x 2.0                 | 3 1/2" or 4"     | 74.0                              | 84.0 | 47                                     | 114.0                               | 125.7          | 1.713        |
| 100        | M100 x 2.0        | 3 1/2" or 4"     | 25                       | M100 x 2.0                | 3 1/2" or 4"     | 82.0                              | 90.0 | 48                                     | 114.0                               | 125.7          | 1.757        |

NOTES

- Gland size does not necessarily equate to the entry thread size.
- The IP O-ring seal is only available on metric entry threads.  
IP washers can be supplied for tapered entry threads.
- 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 supply products 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.
- When selecting IP Washer 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.