



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx CML 19.0103X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-10-10

Applicant: **Peppers Cable Glands Limited**  
Stanhope Road, Camberley, Surrey, GU15 3BT  
**United Kingdom**

Equipment: **The type A\*\*\*\*, A\*L\*\*, A\*LC\*\*\* and A\*RC\*\*\* Range of Cable Glands**

Optional accessory:

Type of Protection: **Flameproof, Increased Safety, Dust, Restricted Breathing**

Marking: Ex db IIC Gb  
Ex eb IIC Gb  
Ex ta IIIC Da  
Ex nR IIC Gc

Approved for issue on behalf of the IECEx  
Certification Body:

**A C Smith**

Position:

**Technical Operations Director**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Eurofins E&E CML Limited**  
Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port, CH65 4LZ  
**United Kingdom**





# IECEx Certificate of Conformity

Certificate No.: **IECEx CML 19.0103X**

Page 2 of 3

Date of issue: 2019-10-10

Issue No: 0

Manufacturer: **Peppers Cable Glands Limited**  
Stanhope Road, Camberley, Surrey, GU15 3BT  
**United Kingdom**

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

[IEC 60079-15:2010](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:4

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/CML/ExTR19.0133/00](#)

Quality Assessment Report:

[GB/CML/QAR19.0022/00](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx CML 19.0103X**

Page 3 of 3

Date of issue: 2019-10-10

Issue No: 0

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The type A\*\*\*\*, A\*L\*\*, A\*LC\*\*\* and A\*RC\*\*\* range of cable glands is intended for use with any cable type where sealing and retention is required by gripping the outer sheath.

Refer to Certification Annex for full equipment description.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The A\*\*\*\*, A\*L\*\*, A\*LC\*\*\* and A\*RC\*\*\* Range of Cable Glands shall not be used in enclosures where the temperature at the point of entry/mounting exceeds the following.
  - -35°C to +90°C for the Neoprene (black) seal variants
  - -60°C to +180°C for the Silicone (white) seal variants
2. The cable entries are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.
3. The A\*\*\*\*, A\*L\*\*, A\*LC\*\*\* and A\*RC\* range of cable glands, when installed in accordance with the manufacturer's instructions and with an appropriate enclosure on which they are fixed, are capable of providing an ingress protection of IP66 and IP68 (50 metres, 7 days).
4. The threaded entry component threads without interface O-ring seals installed in an explosive dust atmosphere, within threaded entries, shall only be fitted into enclosures that have either:
  - parallel entries that will ensure that a minimum of 5 full threads of contact will be maintained, this is in accordance with clause 5.1.2 of EN 60079-31:2014,
  - tapered entries that will ensure that a minimum of 3 ½ full threads of contact will be maintained, this is in accordance with clause 5.1.2 of EN 60079-31:2014

## Annex:

[Certificate Annex IECEx CML 19.0103X Issue 0.pdf](#)

**Annexe to:** IECEx CML 19.0103X Issue 0  
**Applicant:** Peppers Cable Glands Limited  
**Apparatus:** The type A\*\*\*\*, A\*L\*\*, A\*LC\*\*\* and A\*RC\*\*\* range of cable glands



The type A\*\*\*\*, A\*L\*\*, A\*LC\*\*\* and A\*RC\*\*\* range of cable glands is intended for use with any cable type where sealing and retention is required by gripping the outer sheath (this includes armoured/screened/braided cables, the armour/screen/braid being clamped inside the terminating equipment). Construction materials are brass, mild steel, stainless steel or aluminium alloy. Glands are available in a single or double seal configuration and utilise a silicone or neoprene seal. The single seal configuration is available with a compression nut, which will accept either male or female conduit.

Glands are available in the size range 12 to 100 mm with ISO metric entry threads of M12 to M100 respectively. Alternative thread forms are available.

The cable gland range is as follows:

|                       |       |   |   |   |   |
|-----------------------|-------|---|---|---|---|
| Gland Type:           | A*L** |   |   |   |   |
| Available Part No's.: | A     | *   | L | * | * |
|                       |       | 1   |   | B | F |
|                       |       | 2   |   | S | E |
|                       |       | 3   |   | A |   |
|                       |       | 4   |   |   |   |
| Options:              | 1     | Neoprene Seal with Lead Sheath Cable Continuity Washer  |   |   |   |
|                       | 2     | Neoprene Seal   |   |   |   |
|                       | 3     | Silicone Seal   |   |   |   |
|                       | 4     | Silicone Seal with Lead Sheath Cable Continuity Washer  |   |   |   |
|                       | A     | Aluminium   |   |   |   |
|                       | B     | Brass material  |   |   |   |
|                       | S     | 316 Stainless Steel material                            |   |   |   |
|                       | F     | Ex d (flameproof) and Ex e (Increased Safety) approvals |   |   |   |
|                       | E     | Ex e (Increased Safety) approval only                   |   |   |   |

|                       |       |   |     |   |   |
|-----------------------|-------|---|-----|---|---|
| Gland Type:           | A**** |   |     |   |   |
| Available Part No's.: | A     | * | *   | * | * |
|                       |       | 1 | LDS | B | F |
|                       |       | 2 | RDC | S | E |

Unit 1, Newport Business Park  
New Port Road  
Ellesmere Port  
CH65 4LZ

**T** +44 (0) 151 559 1160  
**E** info@cmllex.com

**www.cmllex.com**

Company Reg No. 8554022 VAT No. GB163023642





3 RDF A  
4 RDM

- Options:
- 1 Neoprene Seal with Lead Sheath Cable Continuity Washer
  - 2 Neoprene Seal
  - 3 Silicone Seal
  - 4 Silicone Seal with Lead Sheath Cable Continuity Washer
  - LDS Fixed Double seal
  - RDC Double seal with Rotating flexible conduit connector
  - RDF Double seal with rotating female thread conduit nut
  - RDM Double seal with Rotating male thread conduit nut
  - A Aluminium
  - B Brass material
  - S 316 Stainless Steel material
  - F Ex d (flameproof) and Ex e (Increased Safety) approvals
  - E Ex e (Increased Safety) approval only

Gland Type: A\*LC\*\*\*

|                       |   |   |    |   |   |   |
|-----------------------|---|---|----|---|---|---|
| Available Part No's.: | A | * | LC | * | * | * |
|                       |   | 1 |    | H | A | F |
|                       |   | 2 |    | F | B | E |
|                       |   | 3 |    | M | S |   |
|                       |   | 4 |    |   |   |   |

- Options:
- 1 Neoprene Seal with Lead Sheath Cable Continuity Washer
  - 2 Neoprene Seal
  - 3 Silicone Seal
  - 4 Silicone Seal with Lead Sheath Cable Continuity Washer



- H Single seal with fixed hose connector
- F Single seal with fixed female thread conduit connector
- M Single seal with fixed male thread conduit connector
- A Aluminium
- B Brass material
- S 316 Stainless Steel material
- F Ex d (flameproof) and Ex e (Increased Safety) approvals
- E Ex e (Increased Safety) approval only

|                       |         |   |    |   |   |   |
|-----------------------|---------|---|----|---|---|---|
| Gland Type:           | A*RC*** |   |    |   |   |   |
| Available Part No's.: | A       | * | RC | * | * | * |
|                       |         | 1 |    | C | A | F |
|                       |         | 2 |    | F | B | E |
|                       |         | 3 |    | M | S |   |
|                       |         | 4 |    |   |   |   |

- |          |   |   |
|----------|---|---|
| Options: | 1 | Neoprene Seal with Lead Sheath Cable Continuity Washer    |
|          | 2 | Neoprene Seal   |
|          | 3 | Silicone Seal   |
|          | 4 | Silicone Seal with Lead Sheath Cable Continuity Washer    |
|          | C | Single seal with rotating flexible conduit connector      |
|          | F | Single seal with rotating female thread conduit connector |
|          | M | Single seal with rotating-male thread conduit connector   |
|          | A | Aluminium   |
|          | B | Brass material  |
|          | S | 316 Stainless Steel material                              |
|          | F | Ex d (flameproof) and Ex e (Increased Safety) approvals   |

E Ex e (Increased Safety) approval only

Type A\*L\*\*, A\*LC\*\*, A\*LDS\*\*, A\*RCF\*\*, A\*RCM\*\*, A\*RDF\*\* and A\*RDM\*\* Cable Glands:

| Glands size | Standard Entry Threads |        | Outer Sheath |      |
|-------------|------------------------|--------|--------------|------|
|             | Metric                 | NPT    | Min          | Max  |
| 12          | M12                    | 1/4"   | 0.9          | 6.0  |
| 16          | M16                    | 3/8"   | 4.0          | 8.4  |
| 20S         | M20                    | 1/2"   | 7.2          | 11.7 |
| 20          | M20                    | 1/2"   | 9.4          | 14.0 |
| 25          | M25                    | 3/4"   | 13.5         | 20.0 |
| 32          | M32                    | 1"     | 19.5         | 26.3 |
| 40          | M40                    | 1 1/4" | 23.0         | 32.2 |
| 50S         | M50                    | 1 1/2" | 28.1         | 38.2 |
| 50          | M50                    | 2"     | 33.1         | 44.1 |
| 63S         | M60                    | 2"     | 39.2         | 50.1 |
| 63          | M60                    | 2 1/2" | 46.7         | 56.0 |
| 75S         | M75                    | 2 1/2" | 52.1         | 62.0 |
| 75          | M75                    | 3"     | 58.0         | 68.0 |
| 80          | M80                    | 3"     | 62.2         | 72.0 |
| 85          | M85                    | 3"     | 69.0         | 78.0 |
| 90          | M90                    | 3 1/2" | 74.0         | 84.0 |
| 100         | M100                   | 3 1/2" | 82.0         | 90.0 |

Type A\*RCC\*\* and A\*RDC\*\* Cable Glands

| Gland size | Standard Entry threads |      | Cable outer sheath |     | Conduit |         |
|------------|------------------------|------|--------------------|-----|---------|---------|
|            | Metric                 | NPT  | Min                | Max | I/D Min | O/D Max |
| 12-1       | M12                    | 1/4" | 0.9                | 5.4 | 6.8     | 10.3    |

| Gland size | Standard Entry threads |      | Cable outer sheath |      | Conduit |         |
|------------|------------------------|------|--------------------|------|---------|---------|
|            | Metric                 | NPT  | Min                | Max  | I/D Min | O/D Max |
| 12-2       | M12                    | ¼"   | 0.9                | 6.0  | 10.2    | 14.1    |
| 12-3       | M12                    | ¼"   | 0.9                | 6.0  | 9.1     | 14.3    |
| 12-4       | M12                    | ¼"   | 0.9                | 6.0  | 10.9    | 15.8    |
| 12-5       | M12                    | ¼"   | 0.9                | 6.0  | 7.8     | 13.0    |
| 16-1       | M16                    | 3/8" | 4.0                | 8.4  | 10.2    | 14.1    |
| 16-2       | M16                    | 3/8" | 4.0                | 8.4  | 10.9    | 15.8    |
| 16-3       | M16                    | 3/8" | 4.0                | 8.4  | 13.0    | 17.1    |
| 20S-1      | M20                    | ½"   | 7.2                | 11.0 | 13.0    | 17.1    |
| 20S-2      | M20                    | ½"   | 7.2                | 11.7 | 13.9    | 19.3    |
| 20S-3      | M20                    | ½"   | 7.2                | 11.7 | 14.6    | 20.7    |
| 20-1       | M20                    | ½"   | 9.4                | 14.0 | 16.9    | 22.3    |
| 20-2       | M20                    | ½"   | 9.4                | 14.0 | 16.9    | 23.8    |
| 20-3       | M20                    | ½"   | 9.4                | 14.0 | 18.7    | 24.8    |
| 20-4       | M20                    | ½"   | 9.4                | 14.0 | 20.7    | 28.3    |
| 20-5       | M20                    | ½"   | 9.4                | 14.0 | 13.9    | 19.3    |
| 25-1       | M25                    | ¾"   | 13.5               | 20.0 | 23.7    | 31.3    |
| 25-2       | M25                    | ¾"   | 13.5               | 19.0 | 21.1    | 26.8    |
| 25-3       | M25                    | ¾"   | 13.5               | 19.0 | 25.0    | 31.3    |
| 25-4       | M25                    | ¾"   | 13.5               | 20.0 | 20.7    | 28.3    |
| 32-1       | M32                    | 1"   | 19.5               | 26.0 | 28.1    | 33.3    |
| 32-2       | M32                    | 1"   | 19.5               | 26.3 | 30.4    | 40.8    |
| 32-3       | M32                    | 1"   | 19.5               | 26.3 | 30.4    | 38.8    |
| 40-1       | M40                    | 1 ¼" | 23.0               | 32.2 | 36.4    | 46.8    |
| 40-2       | M40                    | 1 ¼" | 23.0               | 32.2 | 36.4    | 44.8    |
| 40-3       | M40                    | 1 ¼" | 23.0               | 32.2 | 37.6    | 45.3    |
| 50S-1      | M50                    | 1 ½" | 28.1               | 38.2 | 48.4    | 55.8    |
| 50-1       | M50                    | 2"   | 33.1               | 44.1 | 48.4    | 55.8    |

| Gland size | Standard Entry threads |      | Cable outer sheath |      | Conduit |         |
|------------|------------------------|------|--------------------|------|---------|---------|
|            | Metric                 | NPT  | Min                | Max  | I/D Min | O/D Max |
| 63S-1      | M63                    | 2"   | 39.2               | 50.1 | 57.5    | 64.8    |
| 63-1       | M63                    | 2 ½" | 46.7               | 53.6 | 57.5    | 64.8    |

**Notes:**

- Sira 01ATEX1272X, Sira 09ATEX1221X and IECEx SIR 07.0096X are superseded by certificates CML 19ATEX1345X, CML 19ATEX4109X and IECEx CML 19.0103X.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 01ATEX1272X, Sira 09ATEX1221X and IECEx SIR 07.0096X.
- Where Sira 01ATEX1272X and/or Sira 09ATEX1221X and/or IECEx SIR 07.0096X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.