



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000407

Applicant Peppers Cable Glands Limited
Address Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom
Manufacturer Peppers Cable Glands Limited
Address Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom
Production Factory Peppers Cable Glands Limited
Production Address Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom
Product Barrier Cable Glands
Model/Type CR****
Ex marking Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da
Reference Standards GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T 3836.3-2021, GB/T 3836.8-2021, GB/T 3836.31-2021

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEC-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (7 pages)

Initial issue date: 2021-07-26

Issued date: 2023-04-30

Valid to: 2026-07-25

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical Apparatus Research Institute Co.,Ltd.



<http://www.ccc-cnex.com>
ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008
Tel: 0377-63239734 Email: ccc@cn-ex.com

CN 0001798



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000407

Page 1 of 7

Product information:

1. This certificate covers the following models:

- CR****

Design Options for all CR**** Range of Barrier cable glands:

The entry component and conduit nut internal thread forms:

- ISO Metric to GB/T197 and GB/T2516, 6g fit (male) and 6H (female)
- NPT to ANSI/ASME B1.20.1

Alternative material of construction is as follow and denoted by letter designation in the type number:

- Brass to BS EN 12164 / BS EN 12165 / BS EN 12168 CW614N CuZn39Pb3
- Stainless Steel to EN 10088-3 grades 316S11, 316S31 316L

Additionally, all metallic materials may be surface coated to limit electrolytic reaction between dissimilar materials, providing the coating does not alter the dimensions of the component part.

The CR-U** Range of Barrier Cable Glands are suitable for use with unarmoured, braided and screened, circular cables.

Type CR-U** Compound – Filled Cable Glands:

| Gland Size | Standard Entry threads | | Max Diameter Over Cores \emptyset | Max No of Cores | Outer Sheath Dia. | |
|------------|------------------------|-----|-------------------------------------|-----------------|-------------------|------|
| | Metric | NPT | | | Min | Max |
| 16 | M20×1.5 | ½" | 10.4 | 15 | 3.4 | 8.4 |
| 20S | M20×1.5 | ½" | 10.4 | 35 | 4.8 | 11.7 |
| 20 | M20×1.5 | ½" | 12.5 | 40 | 9.5 | 14.0 |

Issued date: 2023-04-30

Director:



Nanyang Explosion Protected Electrical Apparatus Research Institute Co., Ltd.





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000407

Page 2 of 7

| | | | | | | |
|-----|----------|-----|------|-----|------|------|
| 25 | M25×1.5 | ¾" | 16.5 | 60 | 11.7 | 18.5 |
| 32 | M32×1.5 | 1" | 23.5 | 80 | 18.1 | 26.3 |
| 40 | M40×1.5 | 1" | 28.8 | 130 | 22.6 | 32.2 |
| 50S | M50×1.5 | 1" | 34.2 | 200 | 28.2 | 38.2 |
| 50 | M50×1.5 | 2" | 39.4 | 400 | 33.1 | 44.1 |
| 63S | M63×1.5 | 2" | 44.8 | 400 | 39.3 | 50.1 |
| 63 | M63×1.5 | 2½" | 50.0 | 425 | 46.7 | 56.0 |
| 75S | M75×1.5 | 2½" | 55.4 | 425 | 52.3 | 62.0 |
| 75 | M75×1.5 | 3" | 60.8 | 425 | 58.0 | 68.0 |
| 80 | M80×2.0 | 3" | 64.4 | 425 | 61.9 | 72.0 |
| 85 | M85×2.0 | 3" | 69.8 | 425 | 69.1 | 78.0 |
| 90 | M90×2.0 | 3½" | 75.1 | 425 | 74.1 | 84.0 |
| 100 | M100×2.0 | 3½" | 80.5 | 425 | 81.8 | 90.0 |

Design options:

A brass continuity washer may be fitted in the 20S to 100 sizes that are used with lead inner sheathed cables, glands with this modification are designated with a '2' in their type number. Additional assembly options are described by the following designation coding:

Glands Type: CR – U**

| Type | C | R | U | * | * |
|------|---------------------------------------|---|---|---|--------|
| | | | | 2 | B S |
| 2 | 2:Lead Sheath Cable Continuity Washer | | | | |
| B | B:Brass material | | | | |
| S | S:Stainless Steel material | | | | |

Issued date: 2023-04-30

Director:



**Nanyang Explosion Protected Electrical
Apparatus Research Institute Co.,Ltd.**





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312313000407

Page 3 of 7

The CR-X** Range of Barrier Cable Glands are suitable for use with, unarmoured, braided and screened, circular and non-circular cables.

Type CR-X** Compound filled Cable Glands:

| Gland Size | Standard Entry threads | | Max Diameter Over Cores | Max No of Cores | Outer Sheath Dia. |
|------------|------------------------|-----|-------------------------|-----------------|-------------------|
| | Metric | NPT | | | |
| 20S | M20×1.5 | ½" | 10.4 | 35 | 11.7 |
| 20 | M20×1.5 | ½" | 12.5 | 40 | 14.0 |
| 25 | M25×1.5 | ¾" | 16.5 | 60 | 18.5 |
| 32 | M32×1.5 | 1" | 23.5 | 80 | 26.3 |
| 40 | M40×1.5 | 1" | 28.8 | 130 | 32.2 |
| 50S | M50×1.5 | 1" | 34.2 | 200 | 38.2 |
| 50 | M50×1.5 | 2" | 39.4 | 400 | 44.1 |
| 63S | M63×1.5 | 2" | 44.8 | 400 | 50.1 |
| 63 | M63×1.5 | 2½" | 50.0 | 425 | 56.0 |
| 75S | M75×1.5 | 2½" | 55.4 | 425 | 62.0 |
| 75 | M75×1.5 | 3" | 60.8 | 425 | 68.0 |
| 80 | M80×2.0 | 3" | 64.4 | 425 | 72.0 |
| 85 | M85×2.0 | 3" | 69.8 | 425 | 78.0 |
| 90 | M90×2.0 | 3½" | 75.1 | 425 | 84.0 |
| 100 | M100×2.0 | 3½" | 80.5 | 425 | 90.0 |

Design option:

A brass continuity washer may be fitted in the 20S to 100 sizes that are used with lead inner sheathed cables, glands with this modification are designated with a '2' in their type number.

Issued date: 2023-04-30

Director:



Nanyang Explosion Protected Electrical Apparatus Research Institute Co., Ltd.



http://www.ccc-cnex.com
ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008
Tel: 0377-63239734 Email: ccc@cn-ex.com



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000407

Page 4 of 7

Additional assembly options are described by the following designation coding:

Glands Type: CR – X**

| | | | | | |
|------|---------------------------------------|---|---|---|--------|
| Type | C | R | X | * | * |
| | | | | 2 | B S |
| 2 | 2:Lead Sheath Cable Continuity Washer | | | | |
| B | B:Brass material | | | | |
| S | S:Stainless Steel material | | | | |

The CR-C*** Range of Barrier Cable Glands are suitable for use with circular, pliable wire, single wire and steel tape armoured cables along with braided/screened and unarmoured cables.

Type CR-C*** (inc CX-C***) Compound-Filled Cable Glands:

| Gland Size | Standard Entry thread | | Max dia over cores | Max No of cores | Inner Sheath Max | Outer Sheath | | Reduced Bore | | Armour Type/ Thickness (Universal) |
|------------|-----------------------|-----|--------------------|-----------------|---------------------|--------------|------|--------------|------|--|
| | Metric | NPT | | | | Min | Max | Min | Max | |
| 16 | M20×1.5 | ½" | 10.4 | 15 | 11.7 | 8.4 | 13.5 | 6.7 | 10.3 | 0.15 – 1.25 |
| 20S | M20×1.5 | ½" | 10.4 | 35 | 11.7 | 11.5 | 16.0 | 9.4 | 12.5 | *0.15 – 1.25 |
| 20 | M20×1.5 | ½" | 12.5 | 40 | 14.0 | 15.5 | 21.1 | 12.0 | 17.6 | **0.15 – 1.25 |
| 25 | M25×1.5 | ¾" | 17.8 | 60 | 20.0 | 20.3 | 27.4 | 16.8 | 23.9 | 0.15 – 1.6 |
| 32 | M32×1.5 | 1" | 23.5 | 80 | 26.3 | 26.7 | 34.0 | 23.2 | 30.5 | 0.15 – 2.0 |
| 40 | M40×1.5 | 1¼" | 28.8 | 130 | 32.2 | 33.0 | 40.6 | 28.6 | 36.2 | 0.2 – 2.0 |
| 50S | M50×1.5 | 1½" | 34.2 | 200 | 38.2 | 39.4 | 46.7 | 34.8 | 42.4 | 0.2 – 2.5 |
| 50 | M50×1.5 | 2" | 39.4 | 400 | 44.1 | 45.7 | 53.2 | 41.1 | 48.5 | 0.2 – 2.5 |
| 63S | M63×1.5 | 2" | 44.8 | 400 | 50.1 | 52.1 | 59.5 | 47.5 | 54.8 | 0.3 – 2.5 |
| 63 | M63×1.5 | 2½" | 50.0 | 425 | 56.0 | 58.4 | 65.8 | 53.8 | 61.2 | 0.3 – 2.5 |

Issued date: 2023-04-30

Director:



Nanyang Explosion Protected Electrical
Apparatus Research Institute Co.,Ltd.





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312313000407

Page 5 of 7

| | | | | | | | | | | |
|-----|----------|-----|------|-----|------|------|-------|------|------|-------------|
| 75S | M75×1.5 | 2½" | 55.4 | 425 | 62.0 | 64.8 | 72.2 | 60.2 | 68.0 | 0.3 – 2.5 |
| 75 | M75×1.5 | 3" | 60.8 | 425 | 68.0 | 71.1 | 78.0 | 66.5 | 73.4 | 0.3 – 2.5 |
| 80 | M80×2.0 | 3" | 64.4 | 425 | 72.0 | 77.0 | 84.0 | 71.9 | 79.4 | 0.45 – 3.15 |
| 85 | M85×2.0 | 3" | 69.8 | 425 | 78.0 | 79.6 | 90.0 | 75.0 | 85.4 | 0.45 – 3.15 |
| 90 | M90×2.0 | 3½" | 75.1 | 425 | 84.0 | 88.0 | 96.0 | 82.0 | 91.4 | 0.45 – 3.15 |
| 100 | M100×2.0 | 3½" | 80.5 | 425 | 90.0 | 92.0 | 102.0 | 87.4 | 97.4 | 0.45 – 3.15 |

Design options:

A brass continuity washer may be fitted in the 20S to 100 sizes that are used with lead inner sheathed cables, glands with this modification are designated with a '2' in their type number.

The CR-C** size 20s and 20 cable glands to be used with an alternative, cone component; in this form, the glands are designated CX-C** (see details below) and are only suitable for braided cables.

| Entry thread size | Gland Size | Max Ø Over Cores (mm) | Max No. of Cores | Max Inner Sheath (mm) | Outer Sheath (standard) (mm) | | Braid Thickness | |
|-------------------|------------|-----------------------|------------------|-----------------------|------------------------------|------|-----------------|------|
| | | | | | Min | Max | Min | Max |
| M20 x 1.5 | 20S | 10.4 | 8 | 11.7 | 11.5 | 16.0 | 0.15 | 0.35 |

| Entry thread size | Gland Size | Max Ø Over Cores (mm) | Max No. of Cores | Max Inner Sheath (mm) | Outer Sheath (standard) (mm) | | Braid Thickness. | |
|-------------------|------------|-----------------------|------------------|-----------------------|------------------------------|------|------------------|-----|
| | | | | | Min | Max | Min | Max |
| M20 x 1.5 | 20 | 12.5 | 14 | 14.0 | 15.5 | 21.1 | 0.15 | 0.5 |

The CR-C** may be used with of an alternative outer sheath seal that is red in colour and has a reduced bore size that accommodates an alternative range of outer sheath cable sizes; in this form, the glands are designated CX-C**R** (see details below):

Issued date: 2023-04-30

Director:



Nanyang Explosion Protected Electrical Apparatus Research Institute Co.,Ltd.





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000407

Page 6 of 7

| Entry thread size | Gland Size | Max Ø Over Cores (mm) | Max No. of Cores | Max Inner Sheath (mm) | Outer Sheath (standard) (mm) | | Braid Thickness. | |
|-------------------|------------|-----------------------|------------------|-----------------------|------------------------------|------|------------------|------|
| | | | | | Min | Max | Min | Max |
| M20 x 1.5 | 20S | 10.4 | 8 | 11.7 | 9.4 | 12.5 | 0.15 | 0.35 |
| M20 x 1.5 | 20 | 12.5 | 14 | 14.0 | 12.0 | 17.6 | 0.15 | 0.5 |

Additional assembly options are described by the following designation coding: -

Glands Type: CR – C***

| Type | C | R | C | * | * | * |
|------|---------------------------------------|---|---|---|--------|---|
| | | | | 2 | B S | R |
| 2 | 2:Lead Sheath Cable Continuity Washer | | | | | |
| B | B:Brass material | | | | | |
| S | S:Stainless Steel material | | | | | |
| R | R:Reduced bore option | | | | | |

The CR**** Range of Barrier Cable Glands , when installed with the silicone O-ring provided by the manufacturer, have an ingress protection rating of IP66 and IP68 (tested at a depth of 100 m for 7 days).

Ex marking: Ex db I Mb, Ex eb I Mb, Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da

- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- The cable glands shall not be used in enclosures where the temperature, at the point of entry/mounting, is outside of the range -60°C~+135°C.

- The Ingress Protection rating that is required to ensure compliance with the standards used in this certificate was determined by testing the devices fitted into a representative enclosure

Issued date: 2023-04-30

Director:



**Nanyang Explosion Protected Electrical
Apparatus Research Institute Co.,Ltd.**





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000407

Page 7 of 7

having a smooth flat mounting surface. In practice, the interface between the male thread of the glands and their associated enclosure cannot be defined therefore, it is the user's responsibility to ensure that the appropriate ingress Protection level is maintained at these interfaces.

- 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.
 - Tapered entries that will ensure that a minimum of 3½ full threads of contact will be maintained.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2102C006, CQST2102C006/01
- Factory inspection report: CN2021Q010178

4. Certificate change information:

- 1st change on April 30, 2023: Updated the standards for certification.

Issued date: 2023-04-30

Director:



Nanyang Explosion Protected Electrical
Apparatus Research Institute Co.,Ltd.



<http://www.ccc-cnex.com>
ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China P.C.: 473008
Tel: 0377-63239734

Email: ccc@cn-ex.com