



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000425

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 UL-abc-d-e
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 (6 pages)

Initial issue date: 2021-08-17

Issued date: 2023-04-28

Valid to: 2026-08-16

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.



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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000425

Page 1 of 6

Product information:

1. This certificate covers the following models:

- UL-abc-d-e

The product type is derived from the following options:

a	Product Type
	X = For use with unarmoured cable, no outer seal U = For use with unarmoured cable and fitted with elastomeric outer seal C = For use with cables utilising SWA armour, braid, tape or screen and fitted with elastomeric outer seal
b	Material of manufacture
	B = Brass S = Stainless steel
c	Bore (UL-Cbc-d-e only)
	Blank = Standard bore R = Reduced bore
d	Gland size
	16, 20S, 20, 25, 32, 40, 50S, 50, 63S, 63, 75S, 75
e	Thread type and size
	Mxx, x" NPT

Alternative metallic materials of manufacture:

The UL- abc-d-e Range of Barrier Cable Glands may be manufactured from the following materials:

- Brass grade CW614 (CuZn 39Pb3)/ CZ121 3Pb
- Stainless Steel 1.4401/ 316 S31

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中国认可
产品
PRODUCT
CNAS C208-P



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000425

Page 2 of 6

- Stainless Steel 1.4404/ 316 S11/316L

Additionally, all metallic materials may be surface coated to limit electrolytic reaction between dissimilar materials, as long as they do not dimensionally alter the components.

- UL-Ubc-d-e cable glands comprising a range of sizes between 16 and 75.
- UL-Xbc-d-e cable glands comprising a range of sizes between 20S and 75.
- UL-Cbc-d-e cable glands comprising a range of sizes between 16 and 75.

Each size has a specified cable diameter range.

UL-Ubc-d-e Range of Barrier Cable Glands:

The UL-Ubc-d-e Range of Barrier Cable Glands are suitable for use with circular, unarmoured, braided or screened cables.

The following table details the available thread sizes, maximum number of cores that the gland can accept and the range of acceptable cable sizes for the UL-Ubc-d-e range.

Gland Size	Standard threads	Entry	Standard Alternative threads	Entry	Max. number of cores	Max. Ø over cores (mm)	Outer sheath size (mm)	
	Metric	NPT	Metric	NPT			Min	Max
16	M20x1.5	½"	M25x1.5	¾"	15	10.4	3.4	8.4
20S	M20x1.5	½"	M25x1.5	¾"	35	10.4	4.8	11.7
20	M20x1.5	½"	M25x1.5	¾"	40	12.5	9.5	14.0
25	M25x1.5	¾"	M32x1.5	1"	60	17.8	11.7	20.0
32	M32x1.5	1"	M40x1.5	1¼"	80	23.5	18.1	26.3
40	M40x1.5	1¼"	M50x1.5	1½"	130	28.8	22.6	32.2
50S	M50x1.5	2"	M63x1.5	-	200	34.9	28.2	38.2
50	M50x1.5	2"	M63x1.5	-	400	39.4	33.1	44.1

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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2021312313000425

Page 3 of 6

63S	M63x1.5	2½"	M75	-	400	44.8	39.3	50.1
63	M63x1.5	2½"	M75	-	425	50.0	46.7	56.0
75S	M75x1.5	3"	-	-	425	55.4	52.3	62.0
75	M75x1.5	3"	-	-	425	60.8	58.0	68.0

UL-Xbc-d-e Range of Barrier Cable Glands:

The UL-Xbc-d-e Range of Barrier Cable Glands are suitable for use with, unarmoured, braided and screened, circular and non-circular cables.

The following table details the available thread sizes, maximum number of cores that the gland can accept and the range of acceptable cable sizes.

Type UL-Xbc-d-e Marine Shipboard Cable Glands

Gland Size	Standard Entry threads		Alternative Entry threads		Max. number of cores	Max. Ø over cores (mm)	Max Outer sheath size (mm)
	Metric	NPT	Metric	NPT			
20S	M20x1.5	½"	M25x1.5	¾"	35	10.4	11.7
20	M20x1.5	½"	M25x1.5	¾"	40	12.5	14.0
25	M25x1.5	¾"	M32x1.5	1"	60	17.8	20.0
32	M32x1.5	1"	M40x1.5	1¼"	80	23.5	26.3
40	M40x1.5	1¼"	M50x1.5	1½"	130	28.8	32.2
50	M50x1.5	2"	M63x1.5	-	400	39.4	44.1
63	M63x1.5	2½"	M75x1.5	-	425	50.0	56.0
75	M75x1.5	3"	-	-	425	60.8	68.0

UL-Cbc-d-e Range of Barrier Cable Glands

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PRODUCT
CNAS C208-P



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(Annex)

No.: 2021312313000425

Page 4 of 6

The UL-Cbc-d-e 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 un-armoured cables.

Gland Size	Standard Entry		Standard Alternative Entry		Max. No of cores	Max. Ø over cores (mm)	Max Inner Sheath (mm)	Outer sheath size (mm)				Armour Dia./ Thickness Universal (mm)
	Metric	NPT	Metric	NPT				Standard		Reduced Bore		
								Min	Max	Min	Max	
M16	M20x1.5	½"	M25x1.5	¾"	15	10.4	11.7	9.2	13.5	6.7	10.3	0.15-1.25
M20S	M20x1.5	½"	M25x1.5	¾"	35	10.4	11.7	11.5	16	9.4	12.5	0.15-1.25
M20	M20x1.5	½"	M25x1.5	¾"	40	12.5	14.0	15.5	21.1	14.3	17.6	0.15-1.25
M25	M25x1.5	¾"	M32x1.5	1"	60	17.8	20.0	20.3	27.4	17.5	23.9	0.15-1.6
M32	M32x1.5	1"	M40x1.5	1¼"	80	23.5	26.3	26.7	34.0	25.0	30.5	0.15-2.0
M40	M40x1.5	1¼"	M50x1.5	1½"	130	28.8	32.2	33.0	40.6	29.3	36.2	0.20-2.0
M50S	M50x1.5	2"	M63x1.5	-	200	34.9	38.2	39.4	46.7	38.1	42.4	0.20-2.5
M50	M50x1.5	2"	M63x1.5	-	400	39.4	44.1	45.7	53.2	41.1	48.5	0.20-2.5
M63S	M63x1.5	2½"	M75x1.5	-	400	44.8	50.1	52.1	59.5	46.9	54.8	0.30-2.5
M63	M63x1.5	2½"	M75x1.5	-	425	50.0	56.0	58.4	65.8	53.8	61.2	0.30-2.5
M75S	M75x1.5	3"	-	-	425	55.4	62.0	64.8	72.2	62.7	68.0	0.30-2.5
M75	M75x1.5	3"	-	-	425	60.8	68.0	71.1	78.0	66.5	73.4	0.30-2.5

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穆大玉



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(Annex)

No.: 2021312313000425

Page 5 of 6

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

Service Temperature: Ts= -60°C~+135°C

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

2. Specific conditions of safety use:

- The UL-* Range of Barrier Cable Glands fitted with sealing rings, 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 meters 7 days).
- 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 to +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 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 parallel threaded entry component threads will be suitably sealed using a method that is applicable to the associated equipment to which the gland will be attached. This will be in accordance with the relevant installation code of practice and will ensure that any ingress protection and restricted breathing sealing requirements are maintained.
- 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,

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CNAS C208-P



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(Annex)

No.: 2021312313000425

Page 6 of 6

- tapered entries that will ensure that a minimum of 3 ½ full threads of contact will be maintained.
 - UL-Ubc-d-e, UL-Xbc-d-e, UL-Cbc-d-e series of cable glands are manufactured with a cylindrical flameproof joint between the entry body and the front ferrule. This joint is not intended for repair.
 - See instruction for other information.
3. Certificate related report(s):
- Type test report: CQST2102C012, CQST2102C012/01
 - Factory inspection report: CN2021Q010178
4. Certificate change information:
- 1st change on April 28, 2023: Updated the standards for certification.

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