



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000446

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 EC*-J**, EC*-X**, EC*-C***
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 (8 pages)

Initial issue date: 2021-11-22

Issued date: 2023-04-28

Valid to: 2026-11-21

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>
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CN 0001773



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Product information:

1. This certificate covers the following models:

- EC*-U**, EC*-X**, EC*-C***

Design Options for all EC*-U**, EC*-X**, EC*-C*** Range of Barrier Cable Glands:

Entry component thread forms:

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

Alternative metallic materials of manufacture (the asterisk in the type number is replaced with a letter designation for one of the material types below):

- Brass to BS EN 12164 / BS EN 12165 / BS EN 12168 CW614N CuZn39Pb3
- Ecobrass to C69300
- 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 EC*-U** Range of Barrier Cable are suitable for use with unarmoured, braided and screened, circular cables.

Type EC*-U Compound-Filled Cable Glands**

Gland Size	Standard Entry threads		Max over Cores	Max Cores	No of	Outer Sheath		Inner Sheath Min T2000 Only
	Metric	NPT				Min	Max	
			Ø	T1000	T2000			

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16S	M16	3/8"	8.9	12	12	3.4	8.4	4.0
16	M20	1/2"	10.4	15	15	3.4	8.4	4.0
20S	M20	1/2"	10.4	35	15	4.8	11.7	4.0
20	M20	1/2"	12.5	40	20	9.5	14.0	4.0
25	M25	3/4"	16.5	60	30	11.7	18.5	8.0
32	M32	1"	23.5	80	50	18.1	26.3	14.0
40	M40	1"	28.8	130	65	22.6	32.2	16.0
50S	M50	1"	34.2	200	100	28.2	38.2	20.0
50	M50	2"	39.4	400	100	33.1	44.1	20.0
63S	M63	2"	44.8	400	130	39.3	50.1	30.0
63	M63	2 1/2"	50.0	425	130	46.7	56.0	30.0
75S	M75	2 1/2"	55.4	425	-	52.3	62.0	-
75	M75	3"	60.8	425	-	58.0	68.0	-
80	M80	3"	64.4	425	-	61.9	72.0	-

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85	M85	3"	69.8	425	-	69.1	78.0	-
90	M90	3½"	75.1	425	-	74.1	84.0	-
100	M100	3½"	80.5	425	-	81.8	90.0	-

Additional assembly options are described by the following designation coding:

Gland Type: EC*-U**

Type	E	C	*	-	U	*	*
			1 2			2	B S
1 2	EC1:Peppers T1000 Compound EC2:Peppers T2000 Compound						
2	2:Lead Sheath Cable Continuity Washer						
B S	B:Brass material S:Stainless Steel material						

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

Type EC*-X** Compound-Filled Cable Glands

Gland Size	Standard Entry threads		Max Ø over Cores	Max No of Cores		Outer Sheath Max	Inner Sheath MinT2000 Only
	Metric	NPT		T1000	T2000		

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16S	M16	3/8"	8.9	12	12	10.0	4.0
20S	M20	1/2"	10.4	35	15	11.7	4.0
20	M20	1/2"	12.5	40	20	14.0	4.0
25	M25	3/4"	16.5	60	30	18.5	8.0
32	M32	1"	23.5	80	50	26.3	14.0
40	M40	1"	28.8	130	65	32.2	16.0
50S	M50	1"	34.2	200	100	38.2	20.0
50	M50	2"	39.4	400	100	44.1	20.0
63S	M63	2"	44.8	400	130	50.1	30.0
63	M63	2 1/2"	50.0	425	130	56.0	30.0
75S	M75	2 1/2"	55.4	425	-	62.0	-
75	M75	3"	60.8	425	-	68.0	-
80	M80	3"	64.4	425	-	72.0	-
85	M85	3"	69.8	425	-	78.0	-
90	M90	3 1/2"	75.1	425	-	84.0	-

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100	M100	3½"	80.5	425	-	90.0	-
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Additional assembly options are described by the following designation coding:
Gland Type: EC*-X**

Type	E	C	*	-	X	*	*
			1 2			2	B S
1	EC1:Peppers T1000 Compound						
2	EC2:Peppers T2000 Compound						
2	2:Lead Sheath Cable Continuity Washer						
B	B:Brass material						
S	S:Stainless Steel material						

The EC*-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 EC*-C** Compound-Filled Cable Glands

Gland Size	Standard Entry thread		Inner sheath Min T2000 Only	Inner Sheath Max	Outer Sheath		Reduced Bore		Max dia over cores	Max No of cores T1000	Max No of cores T2000
	Metric	NPT			Min	Max	Min	Max			
16S	M16	3/8"	4.0	10.0	8.4	13.5	6.7	10.3	8.9	12	12
16	M20	½"	4.0	11.7	8.4	13.5	6.7	10.3	10.4	15	15
20S	M20	½"	4.0	11.7	11.5	16.0	9.4	12.5	10.4	35	15

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20	M20	½"	4.0	14.0	15.5	21.1	12.0	17.6	12.5	40	20
25	M25	¾"	8.0	18.5	20.3	27.4	16.8	23.9	16.5	60	30
32	M32	1"	14.0	26.3	26.7	34.0	23.2	30.5	23.5	80	50
40	M40	1¼"	16.0	32.2	33.0	40.6	28.6	36.2	28.8	130	65
50S	M50	1½"	20.0	38.2	39.4	46.7	34.8	42.4	34.2	200	100
50	M50	2"	20.0	44.1	45.7	53.2	41.1	48.5	39.4	400	100
63S	M63	2"	30.0	50.1	52.1	59.5	47.5	54.8	44.8	400	130
63	M63	2½"	30.0	56.0	58.4	65.8	53.8	61.2	50.0	425	130
75S	M75	2½"	-	62.0	64.8	72.2	60.2	68.0	55.4	425	-
75	M75	3"	-	68.0	71.1	78.0	66.5	73.4	60.8	425	-
80	M80	3"	-	72.0	77.0	84.0	71.9	79.4	64.4	425	-
85	M85	3"	-	78.0	79.6	90.0	75.0	85.4	69.8	425	-
90	M90	3½"	-	84.0	88.0	96.0	82.0	91.4	75.1	425	-
100	M100	3½"	-	90.0	92.0	102.0	87.4	97.4	80.5	425	-

Additional assembly options are described by the following designation coding:
Gland Type: EC*-C***

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Type	E	C	*	-	C	*	*	*
			1 2			2	B S	R
1	EC1:Peppers T1000 Compound							
2	EC2:Peppers T2000 Compound							
2	2:Lead Sheath Cable Continuity Washer							
B	B:Brass material							
S	S:Stainless Steel material							
R	R:Reduced Bore option							

The EC**** 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)

Service temperature:

For Peppers T1000 Compound: -60°C ...135°C

For Peppers T2000 Compound: -60°C ...120°C

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 to +135°C for Peppers T1000 Compound and, -60°C to +120°C for Peppers T2000 Compound.

- The interface seals comply with the requirements of the standards listed in this report when the cable glands are fitted to 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 users' responsibility to ensure that the

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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.
 - tapered entries that will ensure that a minimum of 3 ½ full threads of contact will be maintained.
 - Cable glands sizes 75 up to 100 are not available with the Peppers T2000 Compound material option.
 - Cable glands with sizes 16S, 20S and 20 shall not be used for Group I, EPL Mb applications where there is a 'high' risk of mechanical damage.
 - See instruction manual for other information.
3. Certificate related report(s):
- Type test report: CQST2102C005, CQST2102C005/01
 - Factory inspection report: CN2021Q010178
4. Certificate change information:
- 1st change on April 28, 2023: Updated the standards for certification.

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