

CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312313000446

Peppers Cable Glands Limited **Applicant**

Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom **Address**

Peppers Cable Glands Limited Manufacture

Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom **Address**

Peppers Cable Glands Limited **Production Factory**

Production Address Stanhope Road, Camberley, Surrey, GU15 3BT, United Kingdom

Product **Barrier Cable Glands**

EC*-U**, EC*-X**, EC*-C*** Model/Type

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 CNEX-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.





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



P.C.: 473008

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

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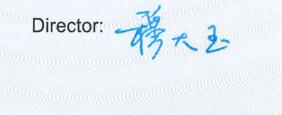
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77777					2////	AV 200		Page 2 o
16S	M16	3/8"	8.9	12	12	3.4	8.4	4.0
16	M20	1/2"	10.4	15	15	3.4	8.4	4.0
20S	M20	1/2"	10.4	35	15	4.8	11.7	4.0
20	M20	1/2"	12.5	40	20	9.5	14.0	4.0
25	M25	3/4"	16.5	60	30	11.7	18.5	8.0
32	M32	1"	23.5	80	50	18.1	26.3	14.0
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	21/2"	50.0	425	130	46.7	56.0	30.0
75S	M75	21/2"	55.4	425		52.3	62.0	1-
75	M75	3"	60.8	425	-	58.0	68.0	1
80	M80	3"	64.4	425		61.9	72.0	<u> </u>

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85	M85	3"	69.8	425	1	69.1	78.0	1
90	M90	3½"	75.1	425	200	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: FC*-U**

Type	E	С	*	-	U		*
			1 2			2	B S
1 2	EC1:Pepp EC2:Pepp	pers T1000 C pers T2000 C	ompound ompound				
2	2:Lead Sh	neath Cable C	Continuity \	Washe	er		
B S	B:Brass n	naterial ss Steel mate					

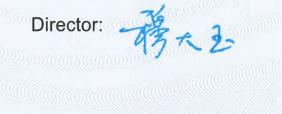
The EC*-X** Range of Barrier Cable Glands are suitable for use with, unarmoured, braided and screened, circular and non-circular cables,

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

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

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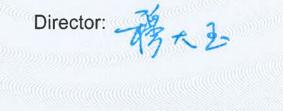
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16S	M16	3/8"	8.9	12	12	10.0	4.0
20S	M20	1/2"	10.4	35	15	11.7	4.0
20	M20	1/2"	12.5	40	20	14.0	4.0
25	M25	3/4"	16.5	60	30	18.5	8.0
32	M32	1"	23.5	80	50	26.3	14.0
40	M40	1"	28.8	130	65	32.2	16.0
50S	M50	1″	34.2	200	100	38.2	20.0
50	M50	2"	39.4	400	100	44.1	20.0
63S	M63	2"	44.8	400	130	50.1	30.0
63	M63	21/2"	50.0	425	130	56.0	30.0
75S	M75	21/2"	55.4	425	-	62.0	-
75	M75	3"	60.8	425		68.0	
80	M80	3"	64.4	425	į	72.0	-
85	M85	3"	69.8	425		78.0	<u> </u>
90	M90	3½"	75.1	425		84.0	-

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100	M100	3½"	80.5	425	-	90.0	

Additional assembly options are described by the following designation coding:

Gland Type: EC*-X**

Туре	E	С	*	140	X	*	*
			1	_ ارز	1000	2	В
1	FC1:Pa	ppers T1000	Compound		1		
2		ppers T2000					
2		Sheath Cable			er	Tree 2000	
В	B:Brass	material				176	
S	S:Stainle	ess Steel ma	terial				

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	Standar Entry th		Inner sheath	Inner Sheath	Outer	Sheath	Redu Bore	ced	Max dia	Max No of	Max No of
Size	Metric	NPT	Min T2000 Only	Max	Min	Max	Min	Max	over cores	cores T1000	cores T2000
16S	M16	3/8"	4.0	10.0	8.4	13.5	6.7	10.3	8.9	12	12
16	M20	1/2"	4.0	11.7	8.4	13.5	6.7	10.3	10.4	15	15
208	M20	1/2"	4.0	11.7	11.5	16.0	9.4	12.5	10.4	35	15

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20	M20	1/2"	4.0	14.0	15.5	21.1	12.0	17.6	12.5	40	20
25	M25	3/4"	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	11/4"	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	21/2"	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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Туре	E	C	*	7.	C	*	*	*
	(Grande)		1			2	В	R
		555 (MINING	2	000			S	
1	EC1:Peppers T1000 Compound							
2	EC2:Peppers T2000 Compound							
2	2:Lead Sheath Cable Continuity Washer							
В	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 | Mb, Ex eb | Mb, Ex db | IC Gb, Ex eb | IC Gb, Ex nR | IC Gc, Ex ta IIIC Da

- Producers should organize production in accordance with the technical documents approved by the certification body.
- 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 1/2 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
- Certificate change information:

- 1st change on April 28, 2023: Updated the standards for certification.

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PRODUCT CNAS C208-P

CCC

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