



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312313000471

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 Stopper boxes
Model/Type EC*-S**
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 (4 pages)

Initial issue date: 2022-01-21

Issued date: 2023-04-28

Valid to: 2027-01-20

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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Product information:

1. This certificate covers the following models:

- EC*-S**

Design Options for all EC*-S** Range of Conduit stopper boxes:

Entry component and conduit nut internal thread forms:

- ISO Metric to GB/T197 and GB/T2516 6g fit (male) 6H (female)
- 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*-S** range of conduit stopper boxes are suitable for use with circular cables, non-circular cables or conductors carried in conduit, providing a flameproof barrier entry into enclosures. Additionally, they may be used as a line bushing for terminating flying leads or for the direct inter-connection of associated enclosures.

Stopper box Size	Standard male connection thread size		Standard female connection thread size		Max cable size inside fitting	Max diameter over Cores	Max No of Cores		Min cable Inner Sheath T2000 Only
	Metric	NPT	Metric	NPT			T1000	T2000	

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16S	M16x1.5	3/8"	M16x1.5	3/8"	10.0	8.9	12	12	4.0
20	M20x1.5	1/2"	M20x1.5	1/2"	14.0	12.5	40	20	4.0
25	M25x1.5	3/4"	M25x1.5	3/4"	20.0	17.8	60	30	8.0
32	M32x1.5	1"	M32x1.5	1"	26.3	23.5	80	50	14.0
40	M40x1.5	1 1/4"	M40x1.5	1 1/4"	32.2	28.8	130	65	16.0
50S	M50x1.5	1 1/2"	M50x1.5	1 1/2"	38.2	34.2	200	100	20.0
50	M50x1.5	2"	M50x1.5	2"	44.1	39.4	400	100	20.0
63S	M63x1.5	2"	M63x1.5	2"	50.1	44.8	400	130	30.0
63	M63x1.5	2 1/2"	M63x1.5	2 1/2"	56.0	50.0	425	130	30.0
75S	M75x1.5	2 1/2"	M75x1.5	2 1/2"	62.0	55.4	425	-	-
75	M75x1.5	-	M75x1.5	2 1/2"	68.0**	60.8**	425	-	-
75	-	3"	-	3"	68.0	60.8	425	-	-
80	M80x2.0	3"	M80x2.0	3"	72.0	64.4	425	-	-
85	M85x2.0	3"	M85x2.0	3"	78.0	69.8	425	-	-
90	M90x2.0	3 1/2"	M90x2.0	3 1/2"	84.0	75.1	425	-	-
100	M100x2.0	3 1/2"	M100x2.0	3 1/2"	90.0	80.5	425	-	-
100	-	4"	-	4"	90.0	80.5	425	-	-

Note: **2 1/2" NPT thread option(Max cable diameter=65.0) (Max diameter over cores=58.1)

Stopper boxes: EC*-S**

Type	E	C	*	-	S	*	*
			1 2			B S	C F M
1	EC1:Peppers T1000 Compound						
2	EC2:Peppers T2000 Compound						
B	B:Brass Material						
S	S:Stainless Steel Material						

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C	C: Spiral Conduit Option	
F	F: Female Conduit Option	
M	M: Male Conduit Option	

Service temperature:

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

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

The EC*-S** Range of Stopper Boxes, 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 stopper boxes 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 stopper boxes are fitted to a representative enclosure having a smooth flat mounting surface. In practice the interface between the male thread of the stopper boxes and their associated enclosure cannot be defined, therefore it is the users' 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 stopper boxes 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:

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- 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.

- stopper boxes sizes 75 up to 100 are not available with the Peppers T2000 Compound material option.

- stopper boxes 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: CQST2201C070, CQST2201C070/01
- Factory inspection report: CN2021Q010178

4. Certificate change information:

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

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