



## 1 EC TYPE-EXAMINATION CERTIFICATE

- 2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
- 3 Certificate Number: Sira 03ATEX1479X
- 4 Equipment: CR\*\*\*\* Range of Barrier Cable Glands and Stopper Boxes
- 5 Applicant: Peppers Cable Glands Limited
- 6 Address: Stanhope Road Camberley Surrey GU15 3BT UK
- 7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

Issue:

10

8 Sira Certification Service, notified body number 0518 in accordance with Article 9 of Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2012 EN 60079-1:2007 EN 60079-7:2007 EN 60079-31:2009

- 10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- 11 This EC type-examination certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.
- 12 The marking of the equipment shall include the following:

or

ξx Ε

I M2 Ex d I Mb Ex e I Mb (Ta = -60°C to +135°C) II 2 G D Ex d IIC Gb Ex e IIC Gb Ex tb IIIC Db (Ta = -60°C to +135°C)

or

II 1D Ex ta IIIC Da (Ta = -60°C to +135°C)

Project Number 29953

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C Ellaby Deputy Certification Manager

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### EC TYPE-EXAMINATION CERTIFICATE

Sira 03ATEX1479X Issue 10

### 13 DESCRIPTION OF EQUIPMENT

The CR\*\*\*\* Range of Barrier Cable Glands & Stopper Boxes are metallic and are intended for use with differing cables or conductors dependent on their type. They allow the entry of the cable or conductors into flameproof, increased safety, restricted breathing and dust protected enclosures without compromising the explosion protection provided by the enclosure, in accordance with relevant codes of practice. All types comprise of various entry thread sizes, which are dependent upon gland size and their cable sealing ability range.

The CR\*\*\*\* Range of Barrier Cable Glands & 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).

Design Options for all CR\*\*\*\* Range of Barrier Cable Glands & Conduit Stopper Boxes

#### Entry component and CR\*\*\*\* conduit nut internal thread forms:

ISO Metric to BS3643-1:2007 and BS 3643-3:2007 6g fit (male) 6H (female) NPT to ANSI/ASME B1.20.1:1983, gauging to clause 8 NPSM to ANSI/ASME B1.20.1:1983, gauging to clause 9 BSPT to BS 21:1985 (ISO 7/1) standard threads only clause 5.4, gauging to clause 5A, system A BSPP to BS 2779:1986 (ISO 228/1) class A full form external threads PG to DIN 40430:1971 ET to BS 31:1940 (1979) Table A

All entry and conduit threads are within the dimensional parameters of the gland body and comply with clause 5.3 of EN 60079-1:2007 and Clause C.2.2.

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 2874:1986 grades CZ121 (3Pb), or CZ121 (4Pb) or CZ122 Stainless Steel to BS 970:Part 1:1991 grades 316S11, 316S31 316L or 304.

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.

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### EC TYPE-EXAMINATION CERTIFICATE

Sira 03ATEX1479X Issue 10

The CR-U\*\* Range of Barrier Cable Glands are suitable for use with unarmoured cables; they comprise:

- a threaded entry body to tighten into an associated enclosure; this is fitted with a silicone O-ring and internally coated with a release agent
- a ferrule, fitted with an external nitrile O-ring, which fits into the entry body to make a part chamber into which a two-part "PEPPERS T1000" epoxy putty setting compound is applied to provide an inner seal around the conductors
- a union nut that couples the entry body and ferrule together
- a seal housing, enclosing a white silicone, elastomeric, cable outer sheath seal and a plastic skid washer, that is screwed and secured into the ferrule with adhesive
- a back nut that screws into the seal housing to compress the outer sheath seal

Standard Entry	Gland	Max. Ø over	Max. number	Outer sheath se	al range Ø (mm)
thread size	size	cores (mm)	of cores	Min.	Max.
M20 x 1.5	16	10.4	15	3.4	8.4
M20 x 1.5	20S	10.4	35	4.8	11.7
M20 x 1.5	20	12.5	40	9.5	14.0
M25 x 1.5	25	17.8	60	11.7	20.0
M32 x 1.5	32	23.5	80	18.1	26.3
M40 x 1.5	40	28.8	130	22.6	32.2
M50 x 1.5	50S	34.2	200	28.2	38.2
M50 x 1.5	50	39.4	400	33.1	44.1
M63 x 1.5	63S	44.8	400	39.3	50.1
M63 x 1.5	63	50.0	425	46.7	56.0
M75 x 1.5	75S	55.4	425	52.3	62.0
M75 x 1.5	75	60.8	425	58.0	68.0
M80 x 2.0	80	64.4	425	61.9	72.0
M85 x 2.0	85	69.8	425	69.1	78.0
M90 x 2.0	90	75.1	425	74.1	84.0
M100 x 2.0	100	80.5	425	81.8	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.

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

Gland Type:	CR-U				
Available Part No's.:	С	R	U	*	*
				2	В
					S
Options:	2	Lead She	ath Cable C	ontinuity V	Vasher
	В	Brass ma	terial		
	S	Stainless	Steel mater	rial	

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### EC TYPE-EXAMINATION CERTIFICATE

Sira 03ATEX1479X Issue 10

The CR-X\*\* Range of Barrier Cable Glands are suitable for use with, unarmoured, braided and screened cables. They may also be used as a line bushing for terminating flying leads or for the direct inter-connection of associated enclosures; they comprise:

- a threaded entry body to tighten into an associated enclosure; this is fitted with a silicone O-ring and internally coated with a release agent
- a ferrule, fitted with an external nitrile O-ring, which fits into the entry body to make a part chamber into which a two-part "PEPPERS T1000" epoxy putty setting compound is applied to provide an inner seal around the conductors.
- a union nut that couples the entry body and ferrule together
- a back nut that is screwed and secured into the ferrule with adhesive.

Standard Entry thread size	Gland size	Max. Ø over cores (mm)	Max. number of cores	Max. outer sheath Ø (mm)
M20 x 1.5	20S	10.4	35	11.7
M20 x 1.5	20	12.5	40	14.0
M25 x 1.5	25	17.8	60	20.0
M32 x 1.5	32	23.5	80	26.3
M40 x 1.5	40	28.8	130	32.2
M50 x 1.5	50	39.4	400	44.1
M63 x 1.5	63	50.0	425	56.0
M75 x 1.5	75	60.8	425	68.0
M80 x 2.0	80	64.4	425	72.0
M85 x 2.0	85	69.8	425	78.0
M90 x 2.0	90	75.1	425	84.0
M100 x 2.0	100	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.

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

Gland Type:	CR-X				
Available Part No's.:	С	R	Х	*	*
				2	B S
Options:	2 B S	Brass ma	ath Cable C terial Steel mater	5	Washer

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### EC TYPE-EXAMINATION CERTIFICATE

Sira 03ATEX1479X Issue 10

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; they comprise:

- a threaded entry body to tighten into an associated enclosure, this fitted with a silicone O-ring and internally coated with a release agent.
- a cone, fitted with an external nitrile O-ring, which fits into the entry component to make a part chamber into which a two part "PEPPERS T1000" epoxy putty setting compound is applied to provide an inner seal around the conductors.
- a clamp ring that secures cable armour to the cone and also provides earth protection.
- a mid-cap component that fastens to the entry body to captivate the clamp ring, cone and epoxy putty.
- a back nut, enclosing a white, silicone, elastomeric, cable outer sheath seal and skid washer, that screws onto the external thread of the mid cap.

Standard Entry	Gland size	Max. Ø over cores	Max. number	Max. inner sheath Ø		heath Ø d) (mm)	Max. armour Ø /thickness	
thread size		(mm)	of cores	(mm)	Min.	Max.	Min.	Max.
M20 x 1.5	16	10.4	15	11.7	8.4	13.5	0.15	1.25
M20 x 1.5	20S	10.4	35	11.7	11.5	16.0	0.15	1.25
M20 x 1.5	20	12.5	40	14.0	15.5	21.1	0.15	1.25
M25 x 1.5	25	17.8	60	20.0	20.3	27.4	0.15	1.6
M32 x 1.5	32	23.5	80	26.3	26.7	34.0	0.15	2.0
M40 x 1.5	40	28.8	130	32.2	33.0	40.6	0.2	2.0
M50 x 1.5	50S	34.2	200	38.2	39.4	46.7	0.2	2.5
M50 x 1.5	50	39.4	400	44.1	45.7	53.2	0.2	2.5
M63 x 1.5	63S	44.8	400	50.1	52.1	59.5	0.3	2.5
M63 x 1.5	63	50.0	425	56.0	58.4	65.8	0.3	2.5
M75 x 1.5	75S	55.4	425	62.0	64.8	72.2	0.3	2.5
M75 x 1.5	75	60.8	425	68.0	71.1	78.0	0.3	2.5
M80 x 2.0	80	64.4	425	72.0	77.0	84.0	0.45	3.15
M85 x 2.0	85	69.8	425	78.0	79.6	90.0	0.45	3.15
M90 x 2.0	90	75.1	425	84.0	88.0	96.0	0.45	3.15
M100 x 2.0	100	80.5	425	90.0	92.0	102.0	0.45	3.15

#### 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.

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## EC TYPE-EXAMINATION CERTIFICATE

#### Sira 03ATEX1479X Issue 10

• 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:

Standard Entry thread size	Gland size	Max. Ø over cores (mm)	Max. number of cores	Max. inner sheath Ø (mm)	Outer sheath Ø (standard) (mm) Min. Max.			Braid Ø (mm) Min. Max.	
M20 x 1.5	20S	10.4	35	11.7	11.5	16.0	0.15	0.35	
M20 x 1.5	20	12.5	40	14.0	15.5	21.1	0.15	0.5	

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

Gland Type:	CR-C					
Available Part No's.:	С	R	С	*	*	*
				2	В	R
					S	
Options:	2	Lead Shea	th Cable Co	ontinuity V	/asher	
	В	Brass mat	erial	-		
	S	Stainless S	Steel materi	al		
	R	Reduced E	Bore option			

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### EC TYPE-EXAMINATION CERTIFICATE

#### Sira 03ATEX1479X Issue 10

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

The same components as the CR-C\*\*\* range, however, the cable outer sheath seal has a reduced bore size to accommodate an alternative range of outer sheath cable sizes and is red in colour.

Standard	Gland	Max. Ø	Max.	Max. inner		heath Ø	Max. Armour	
Entry	size	over cores	number	Sheath Ø	(standar	<u>d) (mm)</u>	Ø /thickness	
thread		(mm)	of cores	(mm)	Min.	Max.	Min.	Max.
size								
M20 x 1.5	16	10.4	15	11.7	6.7	10.3	0.15	1.25
M20 x 1.5	20S	10.4	35	11.7	9.4	12.5	0.15	1.25
M20 x 1.5	20	12.5	40	14.0	12.0	17.6	0.15	1.25
M25 x 1.5	25	17.8	60	20.0	16.8	23.9	0.15	1.6
M32 x 1.5	32	23.5	80	26.3	23.2	30.5	0.15	2.0
M40 x 1.5	40	28.8	80	32.2	28.6	36.2	0.2	2.0
M50 x 1.5	50S	34.2	130	38.2	34.8	42.4	0.2	2.5
M50 x 1.5	50	39.4	200	44.1	41.1	48.5	0.2	2.5
M63 x 1.5	63S	44.8	400	50.1	47.5	54.8	0.3	2.5
M63 x 1.5	63	50.0	425	56.0	53.8	61.2	0.3	2.5
M75 x 1.5	75S	55.4	425	62.0	60.2	68.0	0.3	2.5
M75 x 1.5	75	60.8	425	68.0	66.5	73.4	0.3	2.5
M80 x 2.0	80	64.4	425	72.0	71.9	79.4	0.45	3.15
M85 x 2.0	85	69.8	425	78.0	75.0	85.4	0.45	3.15
M90 x 2.0	90	75.1	425	84.0	82.0	91.4	0.45	3.15
M100 x 2.0	100	80.5	425	90.0	87.4	97.4	0.45	3.15

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.
- 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):

Standard Entry	Gland size	Max. Ø over cores	Max. number	Max. inner Sheath Ø		heath Ø d) (mm)		
thread size		(mm)	of cores	(mm)	Min.	Max.	Min.	Max.
M20 x 1.5	20S	10.4	35	11.7	9.4	12.5	0.15	0.35
M20 x 1.5	20	12.5	40	14.0	12.0	17.6	0.15	0.5

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### EC TYPE-EXAMINATION CERTIFICATE

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The CR-S\* Range of Conduit Stopper Boxes are suitable for use with conductors carried in conduit, providing a flameproof barrier entry into enclosures. Additionally they may be used to terminate flying leads and as a line bushing for providing an electrical connection between associated equipment; they comprise:

- a threaded entry body to tighten into an associated enclosure, this is fitted with a silicone O-ring and internally coated with a release agent
- a ferrule, fitted with an external nitrile O-ring, which fits into the entry body to make a part chamber into which a two-part "PEPPERS T1000" epoxy putty setting compound is applied to provide an inner seal around the conductors or flying leads.
- a union nut that couples the entry body and ferrule together
- a conduit nut that is screwed and secured into the ferrule with adhesive.

Standard Entry	Gland	Max. Ø over	Max. number	Max. Outer Ø
thread size	size	cores (mm)	of cores	sheath (mm)
M20 x 1.5	20	12.5	40	14.0
M25 x 1.5	25	17.8	60	20.0
M32 x 1.5	32	23.5	80	26.3
M40 x 1.5	40	28.8	130	32.2
M50 x 1.5	50	39.4	400	44.1
M63 x 1.5	63	50.0	425	56.0
M75 x 1.5	75	60.8	425	68.0
M80 x 2.0	80	64.4	425	72.0
M85 x 2.0	85	69.8	425	78.0
M90 x 2.0	90	75.1	425	84.0
M100 x 2.0	100	80.5	425	90.0

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

Gland Type:	CR-S				
Available Part Nos.:	С	R	S	*	*
				В	F
				S	Μ
Options:	В	Brass	s materia	al	
	S	Stain	less Ste	el mater	ial
	F	Fema	ale cond	uit optio	n
	М	Male	conduit	option	

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### EC TYPE-EXAMINATION CERTIFICATE

Sira 03ATEX1479X Issue 10

Variation 1 - This variation introduced the following changes:

i. 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	Gland size	Max. Ø over cores	Max. number	Max. inner sheath	Outer (standar	sheath d) (mm)	Braid	l dia.
size		(mm)	of cores	(mm)	Min.	Max.	Min.	Max.
M20 x 1.5	20S	10.4	8	11.7	11.5	16.0	0.15	0.35
M20 x 1.5	20	12.5	14	14.0	15.5	21.1	0.15	0.5

Design options for CR-C\*\*:

• 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):

Entry thread	Gland size	Max. Ø over cores	Max. number	Max. inner sheath	Outer (standar	sheath d) (mm)	Braic	l dia.
size		(mm)	of cores	(mm)	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

• The inclusion of a brass continuity washer within the CX-C\*\* and CX-C\*\*R\*\* cable glands ranges enabling them to be used with lead inner sheathed cables; glands with this modification are identified with a '2' in their type number.

Variation 2 - This variation introduced the following changes:

i. Following appropriate re-assessment to demonstrate compliance with the requirements of the EN 60079 series of standards, the documents originally listed in section 9, EN 50014:1997 (amendments 1 and 2), EN 50018:2000 and EN 50281-1-1:1998, were replaced by those currently listed, the markings in section 12 were updated accordingly.

Variation 3 - This variation introduced the following changes:

i. A clarification to the type designation of the CR\*\*\*\* Range of Barrier Cable Glands and Stopper Boxes.

Variation 4 - This variation introduced the following changes:

- i. The recognition of minor drawing modifications; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.
- ii. The list of certified drawings was rationalised.

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### EC TYPE-EXAMINATION CERTIFICATE

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Variation 5 - This variation introduced the following changes:

- i. To allow the ambient range to be extended from -60°C to +85°C to -60°C to +135°C.
- ii. The introduction of a new protection coding 'Ex e IIC' is recognised, the descriptions have been amended to reflect the introduction of this new coding.
- iii. An assessment to the latest standards was conducted, reference to EN 61241-0 and EN 61241-0 was removed and IEC 60079-31:2008 introduced.
- iv. The CR-S Range can now be used as a Reversible Line Bushing, Peppers part no. 88NMM Conduit Nut Male.
- v. The drawings applicable to these changes were rationalised.
- vi. The recognition of minor drawing modifications; these amendments are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.

Variation 6 - This variation introduced the following changes:

- i. An increase of the IP rating degree of protection to IPX8 at 100 m for 7 days.
- ii. To allow the maximum number of cores permitted to be increased, description was modified accordingly.
- iii. The assessment of the dust marking against EPL 'Da'; as a result the marking at section 12 has been amended accordingly.
- iv. The correction of typographical errors in the marking detailed section 12 and the drawing list against issue 7.
- v. The CR-X Range can now be used as a Line Bushing for terminating flying leads or for the direct inter-connection of associated enclosures.

Variation 7 - This variation introduced the following changes:

- i. Following appropriate reassessment, EN 60079-0:2009 has been replaced by EN 60079-0:2012, the marking has been amended to remove the IP rating as a result of this assessment.
- ii. Following appropriate reassessment, IEC 60079-31:2008 has been replaced by EN 60079-31:2009, the Special conditions for Safe Use have been amended to reflect this assessment.
- iii. A number of minor modifications to the manufacturer's documents have been incorporated.

#### 14 DESCRIPTIVE DOCUMENTS

#### 14.1 Drawings

Refer to Certificate Annexe.

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## EC TYPE-EXAMINATION CERTIFICATE

#### Sira 03ATEX1479X Issue 10

### 14.2 Associated Sira Reports and Certificate History

Issue	Date	Report no.	Comment
0	20 November 2003	R51A10025A	The release of the prime certificate.
1	11 May 2004	R51A11518A	The prime certificate was re-issued to introduce the
			modifications described in report number R51A11518A.
2	1 April 2008	R51A18054A	This Issue covers the following changes:
			All previously issued certification was rationalised
			into a single certificate, Issue 2, Issues 0 and 1
			referenced above are only intended to reflect the
			history of the previous certification and have not
			been issued as documents in this format.
			The introduction of Variation 1.
3	04 June 2009	R51A20139A	The introduction of Variation 2.
4	26 June 2009	N/A	Re-issued to correct the Conditions For Safe Use.
5	27 July 2009	R51A20631A	The introduction of Variation 3.
6	12 November 2009	R20864A	The introduction of Variation 4.
7	28 April 2010	R19249A/00	The introduction of Variation 5.
8	7 February 2011	R23283A/00	The introduction of Variation 6.
9	12 September 2011	R25954A/00	Typographical errors were corrected.
10	05 March 2013	R29953A/00	The introduction of Variation 7.

#### 15 **SPECIAL CONDITIONS FOR SAFE USE** (denoted by X after the certificate number)

- 15.1 The cable glands/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.
- 15.2 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 appropriate ingress protection level is maintained at these interfaces.
- 15.3 Where glands without sealing rings are installed in protection by enclosure (Ex ta) equipment for use in explosive dust atmospheres, they shall only be fitted into enclosures offering a minimum of 5 full threads, in accordance with EN 60079-31:2009 clause 5.1.1.

### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

### 17 CONDITIONS OF CERTIFICATION

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira Certificates.
- 17.2 Holders of EC type-examination certificates are required to comply with the production control requirements defined in Article 8 of directive 94/9/EC.

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# Sira Certification Service

Rake Lane, Eccleston, Chester, CH4 9JN, England

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Certificate Number:	Sira 03ATEX1479X
Equipment:	CR**** Range of Barrier Cable Glands and Stopper Boxes
Applicant:	Peppers Cable Glands Limited



#### Issue 0 and 1

Drawing No.	Sheet	Rev.	Date	Description
PCG/ATX/CR-C	1 of 1	2	11 Feb 04	General arrangement
PCG/ATX/CR-U	1 of 1	2	11 Feb 04	General arrangement
PCG/ATX/CR-S	1 of 1	1	29 Oct 03	General arrangement
PCG/ATX/31V	1 of 1	2	04 Dec 03	Entry body
PCG/ATX/31VT	1 of 1	2	04 Dec 03	Entry body
PCG/ATX/33V	1 of 1	2	05 Apr 04	Cone
PCG/ATX/10V	1 of 1	1	07 Nov 01	Clamp ring
PCG/ATX/5V	1 of 1	3	22 Mar 04	Middle cap
PCG/ATX/2M	1 of 1	2	09 Apr 03	Outer seal
PCG/ATX/11M	1 of 1	1	07 Nov 01	Outer skid washer
PCG/ATX/6M	1 of 1	1	07 Nov 01	Outer cap
PCG/BR	1 of 1	1	29 Aug 03	O-ring
PCG/OR	1 of 1	1	26 Oct 01	O-ring
PCG/ETDMV	1 of 1	1	20 Sep 01	Entry thread options chart
PCG/MATS/SB•	1 of 1	1	20 Sep 01	Material options chart
PCG/ATX/34V	1 of 1	2	05 Apr 04	Ferrule
PCG/ATX/36V	1 of 1	1	13 Aug 03	Union nut
PCG/ATX/39V,	1 of 1	2	23 Jan 04	Seal housing
PCG/ATX/81N	1 of 1	2	06 Sep 02	Entry body
PCG/ATX/82V	1 of 1	2	09 Apr 03	Seal
PCG/ATX/82N•	1 of 1	2	02 Sep 03	Seal
PCG/ATX/91V	1 of 1	1	09 Mar 01	Skid washer
PCG/ATX/91N	1 of 1	1	09 Mar 01	Skid washer
PCG/ATX/88N	1 of 1	2	06 Sep 02	Nut
PCG/ATX/38V,	1 of 1	2	23 Jan 04	Union retaining cap
PCG/ATX/35V,	1 of 1	2	11 Feb 04	Conduit nut
PCG/ATX/35VT,	1 of 1	2	11 Feb 04	Conduit nut
PCG/ATX/35VC	1 of 1	2	11 Feb 04	Conduit nut
PCG/LW1	1 of 1	3	05 Apr 04	Continuity washer

These drawings were amended by Sira on 7 Nov 2003. ٠

These drawings were amended by Sira on 30 Mar 2004. ,

#### Issue 2

Drawing No.	Sheet	Rev.	Date (Sira stamp)	Description
PCG/ATX/CR-C	1 of 1	3	01 Apr 08	General arrangement
PCG/ATX/33VX	1 of 1	1	01 Apr 08	Cone

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## **Sira Certification Service**

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Issue 3

Drawing No.	Sheets	Rev.	Date	Title
PCG/ATX/CR-U	1 of 1	3	27 Apr 09	General Arrangement
PCG/ATX/CR-S	1 of 1	2	27 Apr 09	General Arrangement
PCG/ATX/CR-C	1 of 1	4	27 Apr 09	General Arrangement
PCG/ETDMV	1 of 1	4	02 Jun 09	Standard Thread Chart
PCG/ATX/31V	1 of 1	4	23 Apr 09	Barrier Gland Entry Body Part 31V
PCG/ATX/31VT	1 of 1	3	04 Mar 05	Barrier Gland Entry Body - NPT Part 31V
PCG/ATX/81N	1 of 1	4	15 Mar 07	Entry Body Part 81N

Issues 4 and 5 No new drawings were introduced.

#### Issue 6

Drawing No.	Sheets	Rev.	Date	Title
PCG/ATX/CR-C	1 of 1	5	05 Nov 09*	General arrangement
PCG/ATX/CR-U	1 of 1	5	05 Nov 09*	General arrangement
PCG/ATX/CR-S	1 of 1	3	05 Nov 09*	General arrangement
PCG/ATX/31V	1 of 1	4	23 Apr 09	Entry body
PCG/ATX/31VT	1 of 1	4	15 Sep 09*	Entry body
PCG/ATX/33V	1 of 1	5	15 Sep 09*	Cone
PCG/ATX/10V	1 of 1	2	15 Sep 09*	Clamp ring
PCG/ATX/5V	1 of 1	3	22 Mar 04	Middle cap
PCG/ATX/2M	1 of 1	2	09 Apr 03	Outer seal
PCG/ATX/11M	1 of 1	1	07 Nov 01	Outer skid washer
PCG/ATX/6M	1 of 1	2	11 Sep 09*	Outer cap
PCG/BR	1 of 1	1	29 Aug 03	O-ring
PCG/OR	1 to 2	5	15 Sep 09*	O-ring
PCG/ETDMV	1 of 1	5	11 Sep 09*	Entry thread options chart
PCG/MATS/SB	1 of 1	2	12 Oct 09*	Material options chart
PCG/ATX/34V	1 of 1	3	15 Sep 09*	Ferrule
PCG/ATX/36V	1 of 1	2	15 Sep 09*	Union nut
PCG/ATX/39V	1 of 1	2	23 Jan 04	Seal housing
PCG/ATX/81AN	1 of 1	1	15 Sep 09*	Entry body
PCG/ATX/82V	1 of 1	4	15 Sep 09*	Seal
PCG/ATX/82N	1 of 1	3	15 Sep 09*	Seal
PCG/ATX/91A	1 of 1	1	02 Oct 09*	ATEX Component Skid Washer – Parts 91AS, 91AB, 91ABT
PCG/ATX/88N	1 of 1	4	15 Sep 09*	Nut
PCG/ATX/38V	1 of 1	2	23 Jan 04	Union retaining cap
PCG/ATX/35V	1 of 1	2	11 Feb 04	Conduit nut
PCG/ATX/35VT	1 of 1	2	11 Feb 04	Conduit nut
PCG/ATX/35VC	1 of 1	2	11 Feb 04	Conduit nut
PCG/LW1	1 of 1	6	15 Sep 09*	Continuity washer
PCG/ATX/33VX	1 of 1	2	15 Sep 09*	Cone

\* This is the Sira stamp date.

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#### Issue 7

Drawing No.	Sheets	Rev.	Date (Sira stamp)	Title
PCG/ATX/CR-S	1 of 1	4	09 Apr 10	Conduit Stopper Box CR-S Family
PCG/ATX/CR-C	1 of 1	6	09 Apr 10	Barrier Glands For Armoured And Unarmoured Cable, CR- C Family
PCG/ATX/CR-U	1 of 1	6	09 Apr 10	Barrier Glands For Unarmoured Cable, CR-U AND CR-X Families
PCG/ATX/35VT	1 of 1	3	09 Apr 10	Conduit Nut, Npt Thread Part 35V
PCG/LW2	1 of 1	7	09 Apr 10	Continuity Washer Part LW2
PCG/MATS/SB	1 of 1	3	09 Apr 10	Standard Materials
PCG/ATX/88NMM	1 of 1	1	12 Apr 10	Conduit Nut, Male Part 88NMM

#### Issue 8

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
PCG/ATX/CR-S	1 of 1	5	21 Dec 10	Conduit Stopper Box CR-S Family
PCG/ATX/CR-C	1 of 1	7	21 Dec 10	Barrier Glands For Armoured And Unarmoured Cable, CR- C Family
PCG/ATX/CR-U	1 of 1	7	21 Dec 10	Barrier Glands For Unarmoured Cable, CR-U AND CR-X Families
PCG/ATX/36V	1 of 1	3	7 Feb 11	ATEX Component Union Nut Part 36V
PCG/ATX/81AN	1 of 1	2	7 Feb 11	ATEX Component Entry Body Part 81AN

Issue 9 No new drawings were introduced.

#### Issue 10

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
PCG/ATX/CR-C	1 of 1	8	01 Mar 13	Barrier Glands For Armoured And Unarmoured Cable, CR-
				C Family
PCG/ATX/CR-S	1 of 1	6	01 Mar 13	Conduit Stopper Box CR-S Family
PCG/ATX/CR-U	1 of 1	8	01 Mar 13	Barrier Glands For Unarmoured Cable, CR-U AND CR-X
				Families
PCG/ATX/2M	1 of 1	6	01 Mar 13	Outer seal
PCG/ATX/5V	1 of 1	6	01 Mar 13	Middle cap
PCG/ATX/6M	1 of 1	5	01 Mar 13	Outer cap
PCG/ATX/10V	1 of 1	4	01 Mar 13	Clamp ring
PCG/ATX/11M	1 of 1	3	01 Mar 13	Outer skid washer
PCG/ATX/31V	1 of 1	8	01 Mar 13	Entry body
PCG/ATX/31VT	1 of 1	7	01 Mar 13	Entry body
PCG/ATX/33V	1 of 1	7	01 Mar 13	Cone
PCG/ATX/33VX	1 of 1	3	01 Mar 13	Cone
PCG/ATX/35V	1 of 1	4	01 Mar 13	Conduit nut
PCG/ATX/35VC	1 of 1	4	01 Mar 13	Conduit nut
PCG/ATX/35VT	1 of 1	6	01 Mar 13	Conduit nut
PCG/ATX/38V	1 of 1	3	01 Mar 13	Union retaining cap
PCG/ATX/39V	1 of 1	5	01 Mar 13	Seal housing
PCG/ATX/81AN	1 of 1	5	01 Mar 13	Entry body
PCG/ATX/82N	1 of 1	6	01 Mar 13	Seal
PCG/ATX/82V	1 of 1	5	01 Mar 13	Seal

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Drawing **Sheets** Rev. Date (Sira stamp) Title PCG/ATX/88N 8 Nut 1 of 1 01 Mar 13 Conduit nut, male PCG/ATX/88NMM 1 of 1 4 01 Mar 13 PCG/ATX/91A 1 of 1 3 01 Mar 13 ATEX Component Skid Washer - Parts 91AS, 91AB, 91ABT PCG/ATX/91V 1 of 1 5 01 Mar 13 Skid washer 1 of 1 PCG/OR 10 01 Mar 13 Internal O-ring seal PCG/ETOR 1 of 1 8 01 Mar 13 Entry thread O-ring seal **ETDMV** 1 of 1 7 01 Mar 13 Standard thread charts PCG/ETRO 1 of 1 1 01 Mar 13 Entry thread run-out specification 3 PCG/ORGD 1 of 1 01 Mar 13 O-ring groove detail 1 PCG/PRE-PLT 1 of 1 01 Mar 13 Pre-plate thread manufacturing tolerances 1 of 1 PCG/ATX/PEXMP 1 01 Mar 13 Ex marking plan

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