1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 01ATEX1272X** Issue: **13**

4 Equipment: **Type A****, A*L**, A*LC*** and A*RC*** range of cable glands**

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.

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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/A11:2013 EN 60079-1:2014 EN 60079-7:2015 EN 60079-31:2014

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-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:

II 2GD
Ex db IIC Gb
Ex ta IIIC Da

and/or

II 2GD
Ex eb IIC Gb
Ex ta IIIC Da

and/or

II 1 D
Ex ta IIIC Da

Project Number 0473

Signed:

Title: Director of Operations

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13 **DESCRIPTION OF EQUIPMENT**

The type A****, A*L**, A*LC*** and A*RC* range of cable glands is intended for use with any cable type where sealing and retention is required by gripping the outer sheath (this includes armoured/screened/braided cables, the armour/screen/braid being clamped inside the terminating equipment). Construction materials are brass, mild steel, stainless steel or aluminium alloy. Glands are available in a single or double seal configuration and utilise a silicone or neoprene seal. The single seal configuration is available with a compression nut, which will accept either male or female conduit.

Glands are available in the size range 12 to 100 mm with ISO metric entry threads of M12 to M100 respectively. Alternative thread forms are available.

The cable gland range is as follows:

Gland Type: **A*L****

Available Part No's.:	**A**	*	**L**	*	*
		1		B	F
		2		S	E
		3		A	
		4			

Options:		
	1	Neoprene Seal with Lead Sheath Cable Continuity Washer
	2	Neoprene Seal
	3	Silicone Seal
	4	Silicone Seal with Lead Sheath Cable Continuity Washer
	A	Aluminium
	B	Brass material
	S	316 Stainless Steel material
	F	Ex d (flameproof) and Ex e (reased Safety) approvals
	E	Ex e (reased Safety) approval only

Gland Type: **A****

Available Part No's.:	**A**	*	*	*	*
		1	LDS	A	F
		2	RDC	B	E
		3	RDF	S	
		4	RDM		

Options:		
	1	Neoprene Seal with Lead Sheath Cable Continuity Washer
	2	Neoprene Seal
	3	Silicone Seal
	4	Silicone Seal with Lead Sheath Cable Continuity Washer
	LDS	Fixed Double seal
	RDC	Double seal with Rotating flexible conduit connector
	RDF	Double seal with rotating female thread conduit nut
	RDM	Double seal with Rotating male thread conduit nut
	A	Aluminium
	B	Brass material

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S	316 Stainless Steel material
F	Ex d (flameproof) and Ex e (reased Safety) approvals
E	Ex e (reased Safety) approval only

Gland Type: **A*LC*****

Available Part No's.:	**A**	*	**LC**	*	*	*
		1		H	A	F
		2		F	B	E
		3		M	S	
		4				

Options:		
	1	Neoprene Seal with Lead Sheath Cable Continuity Washer
	2	Neoprene Seal
	3	Silicone Seal
	4	Silicone Seal with Lead Sheath Cable Continuity Washer
	H	Single seal with fixed hose connector
	F	Single seal with fixed female thread conduit connector
	M	Single seal with fixed male thread conduit connector
	A	Aluminium
	B	Brass material
	S	316 Stainless Steel material
	F	Ex d (flameproof) and Ex e (reased Safety) approvals
	E	Ex e (reased Safety) approval only

Gland Type: **A*RC*****

Available Part No's.:	**A**	*	**RC**	*	*	*
		1		C	A	F
		2		F	B	E
		3		M	S	
		4				

Options:		
	1	Neoprene Seal with Lead Sheath Cable Continuity Washer
	2	Neoprene Seal
	3	Silicone Seal
	4	Silicone Seal with Lead Sheath Cable Continuity Washer
	C	Single seal with rotating flexible conduit connector
	F	Single seal with rotating female thread conduit connector
	M	Single seal with rotating male thread conduit connector
	A	Aluminium
	B	Brass material
	S	316 Stainless Steel material
	F	Ex d (flameproof) and Ex e (reased Safety) approvals

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E Ex e (reased Safety) approval only

Type A*L**, A*LC**, A*LDS**, A*RCF**, A*RCM**, A*RDF** and A*RDM** Cable Glands

Gland Size	Standard Entry threads		Outer Sheath	
	Metric	NPT	Min	Max
12	M12	¼" NPT	0.9	6.0
16	M16	3/8" NPT	4.0	8.4
20S	M20	½" NPT	7.2	11.7
20	M20	½" NPT	9.4	14.0
25	M25	¾" NPT	13.5	20.0
32	M32	1" NPT	19.5	26.3
40	M40	1 ¼" NPT	23.0	32.2
50S	M50	1 ½" NPT	28.1	38.2
50	M50	2" NPT	33.1	44.1
63S	M63	2" NPT	39.2	50.1
63	M63	2 ½" NPT	46.7	56.0
75S	M75	2 ½" NPT	52.1	62.0
75	M75	3" NPT	58.0	68.0
80	M80	3" NPT	62.2	72.0
85	M85	3" NPT	69.0	78.0
90	M90	3 ½" NPT	74.0	84.0
100	M100	3 ½" NPT	82.0	90.0

Type A*RCC** and A*RDC** Cable Glands

Gland Size	Standard Entry threads		Cable Outer Sheath		Conduit	
	Metric	NPT	Min	Max	I/D Min	O/D Max
12-1	M12	¼" NPT	0.9	5.4	6.8	10.3
12-2	M12	¼" NPT	0.9	6.0	10.2	14.1
12-3	M12	¼" NPT	0.9	6.0	9.1	14.3
12-4	M12	¼" NPT	0.9	6.0	10.9	15.8
12-5	M12	¼" NPT	0.9	6.0	7.8	13.0
16-1	M16	3/8" NPT	4.0	8.4	10.2	14.1
16-2	M16	3/8" NPT	4.0	8.4	10.9	15.8
16-3	M16	3/8" NPT	4.0	8.4	13.0	17.1
20S-1	M20	1/2" NPT	7.2	11.0	13.0	17.1
20S-2	M20	1/2" NPT	7.2	11.7	13.9	19.3
20S-3	M20	1/2" NPT	7.2	11.7	14.6	20.7
20-1	M20	1/2" NPT	9.4	14.0	16.9	22.3
20-2	M20	1/2" NPT	9.4	14.0	16.9	23.8
20-3	M20	1/2" NPT	9.4	14.0	18.7	24.8
20-4	M20	1/2" NPT	9.4	14.0	20.7	28.3
20-5	M20	1/2" NPT	9.4	14.0	13.9	19.3
25-1	M25	3/4" NPT	13.5	20.0	23.7	31.3
25-2	M25	3/4" NPT	13.5	19.0	21.1	26.8

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Gland Size	Standard Entry threads		Cable Outer Sheath		Conduit	
	Metric	NPT	Min	Max	I/D Min	O/D Max
25-3	M25	3/4″ NPT	13.5	19.0	25.0	31.3
25-4	M25	3/4″ NPT	13.5	20.0	20.7	28.3
32-1	M32	1″ NPT	19.5	26.0	28.1	33.3
32-2	M32	1″ NPT	19.5	26.3	30.4	40.8
32-3	M32	1″ NPT	19.5	26.3	30.4	38.8
40-1	M40	1 ¼″ NPT	23.0	32.2	36.4	46.8
40-2	M40	1 ¼″ NPT	23.0	32.2	36.4	44.8
40-3	M40	1 ¼″ NPT	23.0	32.2	37.6	45.3
50S-1	M50	1 ½″ NPT	28.1	38.2	48.4	55.8
50-1	M50	2″ NPT	33.1	44.1	48.4	55.8
63S-1	M63	2″ NPT	39.2	50.1	57.5	64.8
63-1	M63	2 ½″ NPT	46.7	53.6	57.5	64.8

Variation 1 - This variation introduced the following changes:

i. To allow the batch number shown in the actual product marking to be removed.
ii. The recognition of a number of minor, dimensional design changes.

Variation 2 - This variation introduced the following changes:

i. The A*L*** Range of Cable Glands to be marked IP68; this indicates that they have been tested at a depth up to 25 m for a duration of 30 mins when fitted into either threaded entries or 'Ex e' enclosures that have plain hole entries with 0.5 mm clearances.
ii. The extension of the upper ambient service temperature limit to +85°C for cable glands that orporate neoprene seals (60° IRHD).
iii. The use of Nitrile Butyle Rubber (NBR) O-ring interface seals with the A*L*** Range of Cable Glands fitted with neoprene sealing rings.
iv. lusion of a new size, 16/M16 in all types, cable gland that has either neoprene or silicone sealing rings.
v. The modification of the mid cap component.
vi. The introduction of minor drawing changes.

Variation 3 - 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, EN 50019:2000 and EN 50281-1-1:1998, were replaced by those currently listed, the markings in section 12 were updated accordingly.

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Variation 4 - This variation introduced the following changes:

i. A clarification to the type designation of the type A*L*** range of cable glands.

Variation 5 - 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.

Variation 6 - This variation introduced the following changes:

i. Following appropriate reassessment to demonstrate compliance with the requirements of the latest editions of the EN/IEC 60079 series of standards, the documents previously listed in section 9, EN 60079-0:2006, EN 61241-0:2006 and EN 61241-1:2004 were replaced by those currently listed, the markings were updated accordingly, the Special Conditions for Safe Use are also amended.
ii. Type of protection Ex t is upgraded from EPL Db to EPL Da. Following appropriate reassessment to demonstrate compliance with the additional requirements for Ex ta, the markings were updated accordingly.
iii. The size range of the glands has been extended to include size 12 glands and entry threads of M12, the description being modified accordingly.
iv. The reference system used for the ranges of glands was amended to orporate the introduction of the alternative conduit connections, the tables in the description were modified to recognise this change.
v. Introduction of conduit fittings to the range was approved. The gland may be connected to rigid or flexible conduit.
vi. The introduction of an alternative silicone and neoprene seal material was endorsed.
vii. The service temperature range of the glands fitted with a neoprene seal was extended to -35°C to +90°C.
viii. The cable glands, 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 metres 7 days).

Variation 7 - This variation introduced the following changes:

i. To modify/introduce the following changes to types A*RCC** and A*RDC**,Cable Glands:
   - Correction of typographical dimensional errors within the current end user instruction manuals
     - gland size 12-2 outer seal cable range revised from: 0.9/5.4 to: 0.9/6.0
     - gland size 12-2 typical conduit range revised from: 6.8/10.3 to: 10.2/14.1
     - gland size 12-4 typical conduit range revised from: 9.1/14.3 to: 10.9/15.8
     - gland size 32-2 typical conduit range revised from: 30.4/38.2 to: 30.4/40.8
     - gland size 32-3 typical conduit range revised from: 30.4/40.2 to: 30.4/38.8
     - gland size 40-1 typical conduit range revised from: 36.4/46.2 to: 36.4/46.8
     - gland size 40-2 typical conduit range revised from: 36.4/44.2 to: 36.4/44.8
     - gland size 40-3 typical conduit range revised from: 37.7/44.7 to: 37.6/45.3
   - To introduce the following alternative NPT entry thread to the following gland sizes
     - Gland sizes 12-1, 12-2 & 12-3 supplied with a ¼" NPT entry thread

- Gland sizes 16-1, 16-2 & 16-3 supplied with a 3/8" NPT entry thread
- To introduce the following new gland sizes
  - Gland size 12-5 supplied with either a M12 or ¼" NPT entry thread
  - Gland size 20-5 supplied with either a M20 or 1/2" NPT entry thread
  - Gland size 25-4 supplied with either a M25 or 3/4" NPT entry thread

ii. To introduce the following alternative NPT entry thread to the following gland sizes of types A****, A*L**, A*LC*** and A*RC* Cable Glands:
- Gland size 12 supplied with a ¼" NPT entry thread
- Gland size 16 supplied with a 3/8" NPT entry thread.

iii. The recognition of the 'standard' entry threads associated with every gland types gland sizes, in accordance with newly introduced generic bill of material drawing(s).

iv. To permit all gland types, of parallel threaded entry threads, marked suitable for 'Exe' only to be modified to have a minimum thread length reased to 10 mm from 8 mm.

v. To permit all gland types of parallel threaded entry threads to be manufactured with a longer than 'standard' thread length to suit the end use application.

vi. To permit all gland types to be manufactured with a size larger than the 'standard' entry threads listed within the product description.

vii. To recognise all gland types with the following alternate threaded entry threads complying with the requirements of EN 50018:2000. Are intended to be used as replacement entry devices within existing installations with equipment that have threaded entries no longer permitted by the current edition of EN 60079-1.
- NPSM ANSI/ASME B1.20.1:1983
- BSPT BS21:1985 (ISO 7/1; BS EN 10226-1:2004 'standard threads'
- BSPP BS EN ISO 228-1 :2003; BS EN ISO 2228-2:2003 class A full form 'external threads'
- PG DIN 40430:1971
- ET BS 31:1940 (1979) Table 'B'

All alternative trade size thread forms are manufactured within the dimensional parameter of the standard entry threads of the gland entry body, and relevant constructional compliance length and engagement requirements in accordance with their product markings

viii. To recognise the actual seal 'material specification' reference as a replacement for the seal 'material supplier'.

ix. The brass materials of manufacture were updated and corrected.

x. The aluminium materials of manufacture were updated and corrected.

xi. The list of certified scheduled drawings was rationalised and reiterated for completeness including replacing of some drawing numbers and adding drawings for completeness.

xii. 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.

xiii. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012, EN 60079-1:2007, EN 60079-7:2007 and EN 60079-31:2009, were replaced by EN 60079-0:2012/A11:2013, EN 60079-1:2014, EN 60079-7:2015, and EN 60079-31:2014. The markings were updated, and a Specific Condition of Use was modified and amended to recognise the new standard edition. In addition the description was modified to clarify the certified cable gland types, the standard gland size 'entry threads ', and gland size range taking capabilities lusive of changes carried out under this certificate variation.

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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	20 December 2001	R53A8374A	The release of the prime certificate.
1	17 December 2002	R53A8374B	The release of prime certificate.
2	17 December 2002	NA	Re-issued to permit report number R53A8374B to replace report number R53A8374A
3	31 March 2005	R51A11551A	The introduction of Variation 1
4	04 June 2009	R51A20139A	The introduction of Variation 2
5	26 June 2009	N/A	This Issue covers the following changes: • All previously issued certification was rationalised into a single certificate, Issue 4, Issues 0 to 3 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 3.
6	17 July 2009	R51A20631A	Re-issued to correct the Conditions For Safe Use.
7	12 November 2009	R20864A	The introduction of Variation 4.
8	04 April 2012	R27630A/00	The introduction of Variation 5.
9	20 December 2012	R23865A/00	The removal of a special condition for safe use, the remaining conditions were renumbered accordingly.
10	25 March 2013	N/A	The introduction of Variation 6.
11	26 April 2016	R70058330A	This Issue covers the following changes: • EC-Type Examination Certificate in accordance with 94/9/EC updated to EU-Type Examination Certificate in accordance with Directive 2014/34/EU. *(In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC-Type Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)*
12	29 May 2018	R70144815A	The introduction of Variation 7.
13	15th October 2019	0473	• Transfer of certificate **Sira 01ATEX1272X** from Sira Certification Service to CSA Group Netherlands B.V..

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15 **SPECIFIC CONDITIONS OF USE** (denoted by X after the certificate number)

15.1 The A****, A*L**, A*LC*** and A*RC* Range of Cable Glands shall not be used in enclosures where the temperature at the point of entry/mounting exceeds the following.

-35°C to +90°C for the Neoprene (black) seal variants
-60°C to +180°C for the Silicone (white) seal variants

15.2 The cable entries are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.

15.3 The A****, A*L**, A*LC*** and A*RC* range of cable glands, 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 metres, 7 days).

15.4 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, this is in accordance with clause 5.1.2 of EN 60079-31:2014,
- tapered entries that will ensure that a minimum of 3 ½ full threads of contact will be maintained, this is in accordance with clause 5.1.2 of EN 60079-31:2014

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.

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Certificate Annexe

Certificate Number: **Sira 01ATEX1272X**

Equipment: **Type A****, A*L**, A*LC*** and A*RC*** range of cable glands**

Applicant: **Peppers Cable Glands Limited**

Issues 0 to 11: The drawings listed with these Issues were rationalised and have been superseded by those detailed in Issue 12.

Issue 12

Drawing No.	Sheet	Rev.	Date (Sira stamp)	Title
PCG/ATX/81AN	1 of 1	6	02 May 18	ATEX component entry body Part 81AN
PCG/ATX/81ANT	1 of 1	5	02 May 18	ATEX component entry body Part 81ANT
PCG/ATX/82N	1 of 1	7	02 May 18	ATEX component seals 82N & 82NS
PCG/ATX/82V	1 of 1	6	02 May 18	ATEX component seal parts 82V, 82VS
PCG/ATX/85N	1 of 1	4	04-Oct-12	ATEX component mid cap part 85N
PCG/ATX/87C	1 of 1	2	02 May 18	ATEX component Circlip
PCG/ATX/88N	1 of 1	8	02 May 18	ATEX component nut part 88N
PCG/ATX/88NF	1 of 1	8	02 May 18	ATEX component conduit nut female part 88NF
PCG/ATX/88NH	1 of 1	2	02 May 18	ATEX component hose connector, part 88NH
PCG/ATX/88NM	1 of 1	7	02 May 18	ATEX component conduit nut, male part 88NM
PCG/ATX/88NR	1 of 1	2	02 May 18	ATEX component rotator nut, part 88NR
PCG/ATX/89NC	1 of 1	9	02 May 18	ATEX component rotating conduit nut - spiral, part 89NC
PCG/ATX/89NF	1 of 1	2	02 May 18	ATEX component rotating conduit nut - female, part 89NF
PCG/ATX/89NM	1 of 1	2	02 May 18	ATEX component rotating conduit nut - male, part 89NM
PCG/ATX/91A	1 of 1	3	04-Oct-12	ATEX Component Skid Washer – Parts 91AS, 91AB, 91ABT
PCG/ATX/91V	1 of 1	5	02 May 18	Skid washer- parts 91V, 91VB, 91VBT
PCG/ATX/A2L	1 of 3	10	02 May 18	ATEX Range Glands for unarmoured cable A2LF, A2LCMF, A2LCFF & A2LDSF Families
PCG/ATX/A2L	2 of 3	10	02 May 18	ATEX Range Glands for unarmoured cable A2LF, A2LCMF, A2LCFF & A2LDSF Families
PCG/ATX/A2L	3 of 3	10	02 May 18	ATEX Range Glands for unarmoured cable A2LF, A2LCMF, A2LCFF & A2LDSF Families
PCG/ETDMV	1 of 1	9	02 May 18	Standard Thread Chart
PCG/ETOR	1 of 1	12	02 May 18	Entry Thread O-Ring Seal Part OR
PCG/ETRO	1 of 1	3	02 May 18	Entry Thread Components Run Out Specification
PCG/LW2	1 of 1	8	02 May 18	Continuity Washer LW2
PCG/LW3	1 of 1	6	04-Oct-12	Continuity Washer LW3
PCG/MATS/AL	1 of 1	3	02 May 18	Standard materials Aluminium Alloy for ATEX certified glands using "M", "V" and "N" components
PCG/MATS/SB	1 of 1	5	02 May 18	Standard materials ATEX certified glands using "M", "V" and "N" components
PCG/ORGD	1 of 1	6	02 May 18	Component entry body O-ring groove detail
PCG/ATX/PEXMP	1 of 1	3	02 May 18	Marking Plan

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Certificate Annexe

Certificate Number: **Sira 01ATEX1272X**

Equipment: **Type A****, A*L**, A*LC*** and A*RC*** range of cable glands**

Applicant: **Peppers Cable Glands Limited**

Drawing No.	Sheet	Rev.	Date (Sira stamp)	Title
PCG/PRE-PLT	1 of 1	2	02 May 18	Entry Thread Components Pre-Plate Thread Manufacturing Tolerances
PCG/ATX/BOM ALCF	1 of 1	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ALCH	1 of 1	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ALCM	1 of 1	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ALDS	1 of 1	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ALF	1 of 1	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ARCC	1 of 2	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ARCC	2 of 2	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ARCF	1 of 1	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ARCM	1 of 1	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ARDC	1 of 1	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ARDF	1 of 1	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ARDM	1 of 2	0	02 May 18	Peppers Cable Gland BOM Information
PCG/ATX/BOM ARDM	2 of 2	0	02 May 18	Peppers Cable Gland BOM Information

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