



1 **EC TYPE-EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3 Certificate Number: **Sira 01ATEX1272X** Issue: **7**

4 Equipment: **Type A*L*** 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 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 60079-0:2006 EN 60079-1:2007 EN 60079-7:2007 EN 61241-0:2006 EN 61241-1:2004

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:



II 2GD
Ex d IIC
Ex tD A21 IP68

and/or



II 2GD
Ex e II
Ex tD A21 IP68

Project Number 51A20864
C. Index 07

C Ellaby
Certification Officer

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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The type A*L*** 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 16 to 100 mm with ISO metric entry threads of M20 to M100 respectively. Alternative thread forms are available.

Gland Type: **A**

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

Options:	2	Neoprene Seals
	3	Silicone Seals
	4	Lead Sheath Cable Continuity Washer
	B	Brass material
	S	316 Stainless Steel material
	A	Aluminium

Gland Type: **A*LDS**

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

Options:	2	Neoprene Seals
	3	Silicone Seals
	4	Lead Sheath Cable Continuity Washer
	B	Brass material
	S	316 Stainless Steel material
	A	Aluminium

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Gland Type:	A*LC					
Available Part No's.:	A	*	L	*	*	F
		2		CF	B	
		3		CM	S	
					A	
Options:	2	Neoprene Seals				
	3	Silicone Seals				
	CF	Conduit Female entry				
	CM	Conduit Male entry				
	B	Brass material				
	S	316 Stainless Steel material				
	A	Aluminium				

Variation 1 - This variation introduced the following changes:

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

Variation 2 - This variation introduced the following changes:

- 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.
- The extension of the upper ambient service temperature limit to +85°C for cable glands that incorporate neoprene seals (60° IRHD).
- The use of Nitrile Butyle Rubber (NBR) O-ring interface seals with the A*L*** Range of Cable Glands fitted with neoprene sealing rings.
- Inclusion of a new size, 16/M16 in all types, cable gland that has either neoprene or silicone sealing rings.
- The modification of the mid cap component.
- The introduction of minor drawing changes.

Variation 3 - This variation introduced the following changes:

- 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.

Variation 4 - This variation introduced the following changes:

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

Variation 5 - This variation introduced the following changes:

- 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.
- The list of certified drawings was rationalised.

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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 No.	Comment
0	20 December 2001	R53A8374A	The release of prime certificate.
1	17 December 2002	R53A8374B	Re-issued to permit report number R53A8374B to replace report number R53A8374A
2	17 December 2002	NA	The introduction of Variation 1
3	31 March 2005	R51A11551A	The introduction of Variation 2
4	04 June 2009	R51A20139A	This Issue covers the following changes: <ul style="list-style-type: none">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.
5	26 June 2009	N/A	Re-issued to correct the Conditions For Safe Use.
6	17 July 2009	R51A20631A	The introduction of Variation 4.
7	12 November 2009	R20864A	The introduction of Variation 5.

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

- 15.1 The A*L*** range of cable glands shall not be used with Ex d IIC enclosures with a volume greater than 2000 cm³.
- 15.2 The A*L*** Range of Cable Glands shall not be used in enclosures where the temperature at the point of entry/mounting exceeds the following.
- 20°C to +85°C for the Neoprene (black) seal variants
 - 60°C to +180°C for the Silicone (white) seal variants
- 15.3 The cable entries are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.
- 15.4 An ingress protection rating of IP66 and IP68 is assigned to the A*L*** range of cable glands provided that at the interface the surface is flat, the hole for the equipment is drilled straight to an appropriate diameter, the limiting temperature is not exceeded and the temperature range and the chemical resistance properties of the O-rings or sealing washers are suitable for the intended application.

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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.

Certificate Annexe

Certificate Number: Sira 01ATEX1272X
Equipment: Type A*L*** range of cable glands
Applicant: Peppers Cable Glands Limited



Issue 0 and Issue 1

Drawing No.	Rev.	Sheet	Date	Description
PCG/ATX/A2L	1	1 of 1	20 Nov 01	ATEX Range Glands for unarmoured cable A2LF, A2LCMF, A2LCFF & A2LDSF Families
PCG/ATX/91V	1	1 of 1	09 Mar 01	ATEX Component Skid Washer – Parts 91V, 91VB, 91VBT
PCG/ETDMV	1	1 of 1	20 Sep 01	Standard thread chart ATEX certified cable glands using "M", "V" & "N" components
PCG/MATS/AL	1	1 of 1	05 Nov 01	Standard materials AL. Alloy ATEX certified glands using "M", "V" and "N" components
PCG/MATS/SB	1	1 of 1	20 Sep 01	Standard materials ATEX certified glands using "M", "V" and "N" components
PCG/ATX/81N	1	1 of 1	23 Nov 01	ATEX component entry body Part 81N
PCG/ATX/82N	1	1 of 1	26 Feb 01	ATEX component seals 82N & 82NS
PCG/ATX/82V	1	1 of 1	19 Sep 01	ATEX component seal parts 82V, 82VS
PCG/ATX/85N	1	1 of 1	06 Nov 01	ATEX component mid cap part 85N
PCG/ATX/88N	1	1 of 1	05 Nov 01	ATEX component nut part 88N
PCG/ATX/88NF	1	1 of 1	06 Nov 01	ATEX component conduit nut female part 88NF
PCG/ATX/88NM	1	1 of 1	05 Nov 01	ATEX component conduit nut, male part 88NM
PCG/ATX/91N	1	1 of 1	09 Mar 01	ATEX component skid washer – parts 91N, 91NB, 91NBT

Issue 2

Drawing No.	Rev.	Sheet	Date	Description
PCG/ATX/A2L	2	1 of 1	19 Aug 02	ATEX Range Glands for unarmoured cable A2LF, A2LCMF, A2LCFF & A2LDSF Families
PCG/ATX/81N	2	1 of 1	6 Sep 02	ATEX component entry body Part 81N
PCG/ATX/85N	2	1 of 1	9 Sep 02	ATEX component mid cap part 85N
PCG/ATX/88N	2	1 of 1	6 Sep 02	ATEX component nut part 88N
PCG/ATX/88NF	2	1 of 1	6 Sep 02	ATEX component conduit nut female part 88NF
PCG/ATX/88NM	2	1 of 1	6 Sep 02	ATEX component conduit nut, male part 88NM

Issue 3

Drawing No.	Rev	Sheet	Date	Description
PCG/ATX/A2L	3	1 of 1	09 Dec 04	ATEX Range Glands for unarmoured cable A2LF, A2LCMF, A2LCFF & A2LDSF Families
PCG/ATX/81N	3	1 of 1	26 Jan 04	ATEX component entry body Part 81N
PCG/ATX/85N	3	1 of 1	23 Jan 04	ATEX component mid cap part 85N
PCG/ATX/88N	3	1 of 1	23 Jan 04	ATEX component nut part 88N
PCG/ATX/88NF	3	1 of 1	09 Dec 04	ATEX component conduit nut female part 88NF
PCG/ATX/88NM	3	1 of 1	09 Dec 04	ATEX component conduit nut, male part 88NM
PCG/ATX/91V	2	1 of 1	11 Dec 03	Skid washer- parts 91V, 91VB, 91VBT
PCG/ATX/82V	3	1 of 1	10 Dec 03	Seals - parts 82V, 82VS
PCG/OR	1	1 of 1	17 Sep 01	Accessory component O-ring Seal

Issue 4

Drawing	Sheets	Rev.	Date	Title
PCG/ATX/A2L	1 of 1	4	27 Apr 09	General Arrangement
PCG/ETDMV	1 of 1	4	02 Jun 09	Standard Thread Chart
PCG/ATX/81N	1 of 1	4	15 Mar 07	Entry Body Part 81N

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Certificate Annexe

Certificate Number: Sira 01ATEX1272X
Equipment: Type A*L*** range of cable glands
Applicant: Peppers Cable Glands Limited



Issues 5 No new drawings were introduced.

Issue 6

Drawing	Sheets	Rev.	Date	Title
PCG/ATX/A2L	1 of 1	5	16 Jul 09	General Arrangement Sira 01ATEX1272X
PCG/LW3	1 of 1	4	30 Mar 06	Continuity Washer for Sira 01ATEX1272X

Issue 7 (The following is a rationalised list that defines all drawings that are currently applicable)

Drawing	Sheets	Rev.	Date	Title
PCG/ATX/A2L	1 of 1	7	05 Nov 09*	ATEX Range Glands for unarmoured cable A2LF, A2LCMF, A2LCFF & A2LDSF Families
PCG/ATX/91A	1 of 1	1	02 Oct 09*	ATEX Component Skid Washer – Parts 91AS, 91AB, 91ABT
PCG/ETDMV	1 of 1	5	11 Sep 09*	Standard thread chart ATEX certified cable glands using "M", "V" & "N" components
PCG/MATS/AL	1 of 1	2	15 Sep 09*	Standard materials AL. Alloy ATEX certified glands using "M", "V" and "N" components
PCG/MATS/SB	1 of 1	2	12 Oct 09*	Standard materials ATEX certified glands using "M", "V" and "N" components
PCG/ATX/81AN	1 of 1	1	15 Sep 09*	ATEX component entry body Part 81AN
PCG/ATX/81AN-NPT	1 of 1	1	02 Oct 09*	ATEX component entry body Part 81AN-NPT
PCG/ATX/82N	1 of 1	3	02 Oct 09*	ATEX component seals 82N & 82NS
PCG/ATX/82V	1 of 1	4	15 Sep 09*	ATEX component seal parts 82V, 82VS
PCG/ATX/85N	1 of 1	3	23 Jan 04	ATEX component mid cap part 85N
PCG/ATX/88N	1 of 1	4	15 Sep 09*	ATEX component nut part 88N
PCG/ATX/88NF	1 of 1	4	15 Sep 09*	ATEX component conduit nut female part 88NF
PCG/ATX/88NM	1 of 1	4	15 Sep 09*	ATEX component conduit nut, male part 88NM
PCG/OR	1 to 2	5	15 Sep 09*	Accessory component O-ring Seal
PCG/LW3	1 of 1	4	15 Sep 09*	Continuity Washer for Sira 01ATEX1272X

* This is the Sira stamp date.

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