1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 01ATEX1270X** Issue: **5**

4 Equipment: **A8*F, D8X*F and E8X*F Ranges 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
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Certification Officer

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13 **DESCRIPTION OF EQUIPMENT**

These cable glands are intended for use with flat profile cables. The A8*F range may be used 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). The D8X*F and E8X*F have an additional clamp to grip copper braid and woven steel wire armour. The D8X*F seals and grips the inner sheath and the E8X*F seals and grips the inner and outer sheaths. Construction materials are brass, mild steel or stainless steel. In all cases, the seal materials are silicone.

Glands are available in the size range 20S, 20R and 20 with an M20 x 1.5 metric entry thread. Alternative equivalent size entry thread forms are available.

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

Gland Type: **E8**

Available Part No's.:	**E**	**8**	**X**	*	**F**
				B	
				S	

Options:

B	Brass material
S	316 Stainless Steel material

Gland Type: **D8**

Available Part No's.:	**D**	**8**	**X**	*	**F**
				B	
				S	

Options:

B	Brass material
S	316 Stainless Steel material

Gland Type: **A8**

Available Part No's.:	**A**	**8**	*	**F**
			B	
			S	

Options:

B	Brass material
S	316 Stainless Steel material

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Variation 1 - 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 50018:1999, EN 50019: 2000 and EN 50281-1-1:1998, were replaced by those currently listed, the markings in section 12 were updated accordingly.

Variation 2 - This variation introduced the following changes:

i. A clarification to the type designation of the A8*F, D8X*F and E8X*F Ranges of Cable Glands.

Variation 3 - 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.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report No.	Comment
0	24 January 2002	R53A8358A	The release of the prime certificate.
1	17 December 2002	R53A8358B	Re-issued to permit report number R53A8358B to replace report number R53A8358A
2	04 June 2009	R51A20139A	This Issue covers the following changes: • All previously issued certification was rationalised into a single certificate, Issue 2, Issues 0 to 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	26 June 2009	N/A	Re-issued to correct the Conditions For Safe Use.
4	27 July 2009	R51A20631A	The introduction of Variation 2.
5	12 November 2009	R20864A	The introduction of Variation 3.

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

15.1 The A8*F, D8X*F and E8X*F ranges of cable glands shall not be used with group Ex d IIC enclosures with a volume greater than 2000 $cm^{3.}$

15.2 The A8*F, D8X*F and E8X*F ranges of cable glands shall not be used in enclosures where the temperature, at the point of mounting, is outside the range of -60°C to +180°C.

15.3 The A8*F, D8X*F and E8X*F range of cable glands shall only be used for fixed installations, in addition, the cables must be effectively clamped to prevent pulling or twisting.

15.4 Although the interface is not covered by this certificate, when fitted in accordance with the manufacturer's instructions, the manufacturer declares an IP rating of IP68 and ensures the temperature range and chemical resistance properties of the O-rings or sealing washers are suitable for the intended application. This indicates that they have been tested at a depth of 25 m for a duration of 30 minutes when fitted into either threaded entries or Ex e enclosures that have plain hole entries with 0.5mm clearances.

15.5 An ingress protection rating of IP68 is assigned to the A8*F, D8X*F and E8X*F 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 condition 15.4 is met.

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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Certificate Annexe

Certificate Number: **Sira 01ATEX1270X**

Equipment: **A8*F, D8X*F and E8X*F Ranges of Cable Glands**

Applicant: **Peppers Cable Glands Limited**

Issue 0

Drawing No.	Sheet	Rev.	Date	Title
PCG/ATX/1M	1 of 1	1	22 Nov 01	ATEX Component Entry Body Parts 1M, 1M9
PCG/ATX/3M	1 of 1	1	01 Mar 01	ATEX Component Cone Parts 3M, 3MX
PCG/ATX/4M	1 of 1	1	07 Nov 01	ATEXComponent Cap Part 4M
PCG/MATS/SB	1 of 1	1	20 Sep 01	Standard Materials ATEX Certified Glands Using "M", "V" and "N" Components
PCG/ETDMV	1 of 1	1	20 Sep 01	Standard Thread Chart ATEX Certified Glands Using "M", "V" and "N" Components
PCG/ATX/UF	1 of 1	1	19 Nov 01	ATEX Instrument Range Flat Cable (Heat Trace) Unarmoured Type A8F
PCG/ATX/BF	1 of 1	1	23 Nov 01	ATEX Instrument Range Flat Cable (Heat Trace) Armoured Types D8XF and E8XF
PCG/ATX/4MR	1 of 1	1	20 Nov 01	ATEX Instrument Component Cap, M25 Conduit Part 4MR
PCG/ATX/8M	1 of 1	1	11 Oct 01	ATEX Component Compression Bush Part 8M
PCG/ATX/11MR	1 of 1	1	20 Nov 01	ATEX Instrument Component Skid Washer Parts 11MIR, 11MOR
PCG/ATX/61M	1 of 1	1	11 Oct 01	ATEX Instrument Component Entry Body Part 61M
PCG/ATX/63M	1 of 1	1	11 Oct 01	ATEX Instrument Component Cone Part 63M
PCG/ATX/72M	1 of 1	1	11 Oct 01	ATEX Instrument Component Seal – Slotted Parts 72MIS, 72MOS
PCG/ATX/74M	1 of 1	1	20 Nov 01	ATEX Instrument Component Component Bush Parts 74MI and 74MO
PCG/ATX/75M	1 of 1	1	11 Oct 01	ATEX Instrument Component Compression Cap Part 75M

Issue 1

Drawing No.	Sheet	Rev.	Date	Title
PCG/ATX/1M	1 of 1	1	22 Nov 01	ATEX Component Entry Body Parts 1M, 1M9
PCG/ATX/3M	1 of 1	1	01 Mar 01	ATEX Component Cone Parts 3M, 3MX
PCG/ATX/4M	1 of 1	1	07 Nov 01	ATEXComponent Cap Part 4M
PCG/MATS/SB	1 of 1	1	20 Sep 01	Standard Materials ATEX Certified Glands Using "M", "V" and "N" Components
PCG/ETDMV	1 of 1	1	20 Sep 01	Standard Thread Chart ATEX Certified Glands Using "M", "V" and "N" Components
PCG/ATX/UF	1 of 1	2	16 Aug 02	ATEX Instrument Range Flat Cable (Heat Trace) Unarmoured Type A8F
PCG/ATX/BF	1 of 1	2	10 Sep 02	ATEX Instrument Range Flat Cable (Heat Trace) Armoured Types D8XF and E8XF
PCG/ATX/4MR	1 of 1	1	20 Nov 01	ATEX Instrument Component Cap, M25 Conduit Part 4MR
PCG/ATX/8M	1 of 1	1	11 Oct 01	ATEX Component Compression Bush Part 8M
PCG/ATX/11MR	1 of 1	1	20 Nov 01	ATEX Instrument Component Skid Washer Parts 11MIR, 11MOR
PCG/ATX/61M	1 of 1	1	11 Oct 01	ATEX Instrument Component Entry Body Part 61M
PCG/ATX/63M	1 of 1	1	11 Oct 01	ATEX Instrument Component Cone Part 63M
PCG/ATX/72M	1 of 1	1	11 Oct 01	ATEX Instrument Component Seal – Slotted Parts 72MIS, 72MOS
PCG/ATX/74M	1 of 1	1	20 Nov 01	ATEX Instrument Component Compression Bush Parts 74MI and 74MO
PCG/ATX/75M	1 of 1	1	11 Oct 01	ATEX Instrument Component Compression Cap Part 75M
PCG/ATX/12M	1 of 1	1	16 Aug 02	ATEX Component A8 Cap Part 12M

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Certificate Annexe

Certificate Number: **Sira 01ATEX1270X**

Equipment: **A8*F, D8X*F and E8X*F Ranges of Cable Glands**

Applicant: **Peppers Cable Glands Limited**

Issue 2

Drawing No.	Sheet	Rev.	Date	Title
PCG/ATX/BF	1 of 1	3	27 Apr 09	General Arrangement
PCG/ATX/UF	1 of 1	3	27 Apr 09	General Arrangement
PCG/ETDMV	1 of 1	4	02 Jun 09	Standard Thread Chart

Issues 3 and 4 No new drawings were introduced.

Issue 5 (The following is a rationalised list that defines all drawings that are currently applicable)

Drawing No.	Sheet	Rev.	Date	Title
PCG/ATX/1M	1 of 1	1	22 Nov 01	ATEX Component Entry Body Parts 1M, 1M9
PCG/ATX/3M	1 of 1	4	05 Nov 09*	ATEX Component Cone Parts 3M, 3MX
PCG/ATX/4M	1 of 1	2	11 Sep 09*	ATEX Component Cap Part 4M
PCG/ATX/10M	1 of 1	3	02 Oct 09*	ATEX component clamp ring parts 10MW, 10MX, 10XX
PCG/MATS/SB	1 of 1	2	12 Oct 09*	Standard Materials ATEX Certified Glands Using "M", "V" and "N" Components
PCG/ETDMV	1 of 1	5	11 Sep 09*	Standard Thread Chart ATEX Certified Glands Using "M", "V" and "N" Components
PCG/ATX/UF	1 of 1	4	05 Nov 09*	ATEX Instrument Range Flat Cable (Heat Trace) Unarmoured Type A8F
PCG/ATX/BF	1 of 1	4	05 Nov 09*	ATEX Instrument Range Flat Cable (Heat Trace) Armoured Types D8XF and E8XF
PCG/ATX/4MR	1 of 1	1	20 Nov 01	ATEX Instrument Component Cap, M25 Conduit Part 4MR
PCG/ATX/8M	1 of 1	1	11 Oct 01	ATEX Component Compression Bush Part 8M
PCG/ATX/11MR	1 of 1	1	20 Nov 01	ATEX Instrument Component Skid Washer Parts 11MIR, 11MOR
PCG/ATX/61M	1 of 1	1	11 Oct 01	ATEX Instrument Component Entry Body Part 61M
PCG/ATX/63M	1 of 1	1	11 Oct 01	ATEX Instrument Component Cone Part 63M
PCG/ATX/72M	1 of 1	1	11 Oct 01	ATEX Instrument Component Seal – Slotted Parts 72MIS, 72MOS
PCG/ATX/74M	1 of 1	1	20 Nov 01	ATEX Instrument Component Component Bush Parts 74MI and 74MO
PCG/ATX/75M	1 of 1	1	11 Oct 01	ATEX Instrument Component Compression Cap Part 75M
PCG/ATX/12M	1 of 1	1	16 Aug 02	ATEX Component A8 Cap Part 12M

* This is the Sira stamp date.

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