



1 **EC TYPE-EXAMINATION CERTIFICATE**

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

3 Certificate Number: Sira 01ATEX1271X

4 Equipment: E1W, D1W and CWLe Range of Cable Glands

5 Applicant: Peppers Cable Glands Ltd

6 Address: Stanhope Road
Camberley
Surrey
GU15 3BY
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 confidential report numbers R53A8359B, 53M9529 and R51V11550A.

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 50014:1997 + amendments A1 and A2
EN 50018:2000
EN 50019:2000
EN 50281-1-1:1998

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 2 GD
EEx d IIC/EEx e II (E1W and D1W Range of Cable Glands)
EEx e II (CWLe Range of Cable Glands)

Project Number 51A13521
Date 6 February 2002
Latest issue 12 April 2006
C. Index 07

C Ellaby
Certification Officer



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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 01ATEX1271X

Re-issued 17 December 2002 to allow report number R53A8359B to replace report number R53A8359A.
Re-issued 12 April 2006 to incorporate variations 1 and 2 dated 17 December 2002 and 19 May 2004 respectively, this re-issue also clarifies the gland marking, amends the description and corrects clause 15.1.

13 DESCRIPTION OF EQUIPMENT

The E1W, D1W and CWLe ranges of cable glands are intended for use with SWA/Tape/Woven Steel Wire armoured cables. Each comprises a threaded entry body, elastomeric sealing ring, armour cone, clamp ring and compression cap. The entry body is available with an optional outer deluge seal or an integral earthing clamp. D1W glands have a single flameproof seal and the E1W glands have a double seal arrangement of flameproof and outer IP seal with extra compression cap and skid washer to suit. CWLe glands have only the outer IP seal arrangement. Seals are available in silicone, neoprene, conductive neoprene or lead. Each gland type is available with an optional earth clamp arrangement on the entry body.

Glands are available in the size range 16 to 100 with ISO metric entry threads of M16 to M100 respectively. Glands with lead seals are only available in sizes up to 50 mm. Alternative thread forms and sizes ISO metric, NPT, NPSM, BSPT, BSPP, PG and ET are available. The E1W and D1W glands have an IP66/67 rating and the CWLe glands have an IP66 rating.

14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Sheet	Rev.	Date	Title
	PCG/ATX/E1W	1 of 4	3	22 Jan 04	Glands for armoured cable E1WF, D1WF & CWLe family
	PCG/ATX/E1W	2 of 4	3	22 Jan 04	Glands for armoured cable E1WF, D1WF & CWLe family
	PCG/ATX/E1W	3 of 4	3	22 Jan 04	Glands for armoured cable E1WF, D1WF & CWLe family
	PCG/ATX/E1W	4 of 4	3	22 Jan 04	Glands for armoured cable E1WF, D1WF & CWLe family
	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/1MIE	1 of 1	1	05 Nov 01	ATEX component entry body – Integral earth part 1MIE
	PCG/ATX/1M	1 of 1	1	22 Nov 01	ATEX component entry body parts 1M, 1M9
	PCG/STX/2M	1 of 1	1	26 Nov 01	ATEX component seal – parts 2MI, 2MIS, 2MIPB, 2MIC, 2MO, 2MOS, 2MOZS
	PCG/ATX/2M	1 of 1	2	09 Apr 03	ATEX component seals
	PCG/ATX/2MG	1 of 1	1	07 Nov 01	ATEX component seal – parts 2MIG
	PCG/ATX/2MT	1 of 1	1	05 Nov 01	ATEX component seal – deluge part 2MTRI
	PCG/ATX/3M	1 of 1	1	01 Mar 01	ATEX component cone parts 3M, 3MX
	PCG/ATX/4M	1 of 1	2	20 Aug 02	ATEX component cap part 4M
	PCG/ATX/5M	1 of 1	1	07 Nov 01	ATEX component middle cap part 5M
	PCG/ATX/6M	1 of 1	1	07 Nov 01	ATEX component outer cap part 6M
	PCG/ATX/10M	1 of 1	1	06 Nov 01	ATEX component clamp ring parts 10MW, 10MX, 10XX
	PCG/ATX/11M	1 of 1	1	07 Nov 01	ATEX component skid washer parts 11MI, 11MO
	PCG/ATX/16M	1 of 1	1	06 Nov 01	ATEX component integral earth clamp part 16M
	PCG/LW2	1 of 1	2	23 Jan 04	Continuity washer

Date 6 February 2002

Latest issue 12 April 2006

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 01ATEX1271X

14.2 Report numbers R53A8359B, 53M9529 and R51V11550A

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

15.1 The E1W and D1W range of cable glands shall not be used with EEx d IIC enclosures with a volume greater than 2000 cm³.

15.2 The CWLe, E1W and D1W range of cable glands shall not be used in enclosures where the temperature, at the point of contact exceeds the following temperatures:

-20°C to +85°C for neoprene seal variants

-60°C to +180°C for the silicone seal variants

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 report numbers R53A8359B, 53M9529 and R51V11550A.

17 **CONDITIONS OF CERTIFICATION**

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of SCS 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.

Date 6 February 2002

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EC TYPE-EXAMINATION CERTIFICATE VARIATION

CERTIFICATE NUMBER Sira 01ATEX1271X Dated 6 February 2002
Re-issued 17 December 2002

VARIATION NUMBER 1 (ONE) Dated 17 December 2002

VARIATION TO EQUIPMENT

To permit:

- 1 The batch number shown in the actual product marking to be removed.
- 2 The addition of cone & clamp ring part numbers.
- 3 The introduction of the CWLe glands that have an IP66 rating and the consequential modification of the special conditions for safe use.
- 4 The external cylindrical diameter of the M85, M90 and M100 glands to be enlarged by 5mm to increase the size of the marking area

DESCRIPTIVE DOCUMENTS – 1, 2 and 3

Number	Sheet	Rev	Date	Description
PCG/ATX/E1W	1 of 4	2	16 Aug 02	ATEX range glands for armoured cable E1WF, D1WF & CWLe family
PCG/ATX/E1W	2 of 4	2	16 Aug 02	ATEX range glands for armoured cable E1W & D1W family
PCG/ATX/E1W	3 of 4	2	16 Aug 02	ATEX range glands for armoured cable E1WF, D1WF & CWLe family
PCG/ATX/E1W	4 of 4	2	16 Aug 02	ATEX range glands for armoured cable E1W & D1W family

DESCRIPTIVE DOCUMENTS – 4

Number	Sheet	Rev	Date	Description
PCG/ATX/4M	1 of 1	2	20 Aug 02	ATEX component cap part 4M

AMENDED SPECIAL CONDITIONS FOR SAFE USE

- 15.1 The CWLe, E1W and D1W range of cable glands shall not be used with EEx d IIC enclosures with a volume greater than 2000 cm².
- 15.2 The CWLe, E1W and D1W range of cable glands shall not be used in enclosures where the temperature, at the point of contact exceeds the following temperatures:
 - 20°C to +80°C for the lead and neoprene seal variants
 - 60°C to +180°C for the silicone seal variants

File No. 53M9529

Report No. NA


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EC TYPE-EXAMINATION CERTIFICATE VARIATION

CERTIFICATE NUMBER	Sira 01ATEX1271X	Dated	6 February 2002
		Re-issued	17 December 2002
VARIATION NUMBER	2 (TWO)	Dated	19 April 2004
		Re-issued	19 May 2004

VARIATION TO EQUIPMENT

To permit:

- 1 The removal of code 2 lead conductive neoprene seals from the E1W range of cable glands.
- 2 The removal of code P lead inner seal from the E1W range of cable glands for lead sheathed cables and to replace it with a new code 2 neoprene seal used with a brass continuity washer.
- 3 The extension of the upper ambient service temperature limit to +85°C for cable glands incorporating neoprene seals (60° IRHD).
- 4 The modification of clause 15.2 in the special conditions for safe use.
- 5 The temperature range markings to be removed from the seals.
- 6 The introduction of drawing amendments and up dates that are in-line with current practice.

DESCRIPTIVE DOCUMENTS

Number	Sheet	Rev	Date	Description
PCG/ATX/E1W	1 of 4	3	22 Jan 04	Glands for armoured cable E1WF, D1WF & CWLe family
PCG/ATX/E1W	2 of 4	3	22 Jan 04	Glands for armoured cable E1WF, D1WF & CWLe family
PCG/ATX/E1W	3 of 4	3	22 Jan 04	Glands for armoured cable E1WF, D1WF & CWLe family
PCG/ATX/E1W	4 of 4	3	22 Jan 04	Glands for armoured cable E1WF, D1WF & CWLe family
PCG/ATX/2M	1 of 1	2	09 Apr 03	ATEX component seals
PCG/LW2	1 of 1	2	23 Jan 04	Continuity washer

ADDITIONAL SPECIAL CONDITIONS FOR SAFE USE

- 15.2 The CWLe, E1W and D1W range of cable glands shall not be used in enclosures where the temperature, at the point of contact exceeds the following temperatures:
- 20°C to +85°C for neoprene seal variants
 - 60°C to +180°C for the silicone seal variants

D R Stubbings BA MIEE
Certification Manager

File No. 51V11550

Report No. R51V11550A

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