



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 and D1W 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 number R53A8359B.

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 or EEx e II

Project Number 53M9529
Date 6 February 2002
Re-issued 17 December 2002
C. Index 07


C Ellaby
Certification Officer

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 01ATEX1271X

Re-issued 17 December 2002

To permit report number R53A8359B to replace report number R53A8359A.

13 DESCRIPTION OF EQUIPMENT

The E1W and D1W 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 seal and the E1W glands have a double seal arrangement with compression cap to suit. Double seal arrangements have an additional skid washer between the compression cap and outer seal. There are four seal types 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 mm with ISO metric entry threads of M20 to M100 respectively. Glands with lead seals are only available in sizes up to 50 mm. Alternative thread forms are available.

14 DESCRIPTIVE DOCUMENTS

14.1	Drawing No.	Sheet	Rev.	Date	Title
	PCG/ATX/E1W	1 to 2	1	15 Jan 02	ATEX range glands for armoured cable E1W & D1W 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	1	19 Sep 01	ATEX component seal – parts 2MI, 2MIS, 2MIPB, 2MO, 2MOS, 2MOZS
	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	1	07 Nov 01	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

14.2 Report No. R53A8359B

Date 6 February 2002

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SCHEDULE

EC TYPE-EXAMINATION CERTIFICATE

Sira 01ATEX1271X

- 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 cm².
- 15.2 The 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
- 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 No. R53A8359B.
- 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.

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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

File No. 51V11550

D R Stubbings BA MIEE
Certification Manager

Report No. R51V11550A

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