



# IECEx Certificate of Conformity

**INTERNATIONAL ELECTROTECHNICAL COMMISSION**  
**IEC Certification Scheme for Explosive Atmospheres**  
for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx SIR 06.0043X** issue No.: **2** History:  
Issue No. 2 (2007-6-25)  
Issue No. 1 (2007-1-23)

Status: **Current**

Date of Issue: **2007-06-25** Page 1 of 4

Applicant: **CMP Products Limited**  
Glasshouse Street  
St Peters, Newcastle-upon-Tyne  
Tyne and Wear NE6 1BS  
United Kingdom


Electrical Apparatus: **E\*\* Type Range of Cable Glands**  
Optional accessory:

Type of Protection: **Flameproof, Increased Safety and Dust**

Marking: **Ex d IIC/Ex e II /Ex nR II or Ex d I/Ex e I or  
Ex d IIC or Ex d I or  
Ex e II or Ex e I or  
Ex nR II  
Ex tD A21 IP66**

Approved for issue on behalf of the IECEx Certification Body: **D R Stubbings**

Position: **Certification Manager**

Signature:   
(for printed version)

Date: **2007-06-25**

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**SIRA Certification Service**  
Rake Lane  
Eccleston  
Chester  
CH4 9JN  
United Kingdom

**sira**  
CERTIFICATION



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Tyne and Wear NE6 1BS  
United Kingdom

Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2004</b> Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2003</b> Edition: 5	Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'
<b>IEC 60079-15 : 2005-03</b> Edition: Ed 3	Electrical apparatus for explosive gas atmospheres Part 15: Construction, test and Marking of Type of Protection "n" electrical apparatus
<b>IEC 60079-7 : 2001</b> Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'
<b>IEC 61241-0 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
<b>IEC 61241-1 : 2004</b> Edition: 1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/SIR/ExTR06.0061/00](#)  
[GB/SIR/ExTR07.0002/00](#)  
[GB/SIR/ExTR07.0042/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0011/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The E\*\* series Type ranges of cable glands consist of a male-threaded front entry component containing an Evoprene Super G621 elastomeric sealing ring and a Nylon 6 skid washer which effect flameproof sealing onto the cable inner sheath and is intended to screw into an entry point of its associated enclosure in accordance with relevant codes of practice. The flameproof seal is actuated by an adjoining coupling component. The coupling component is attached to a main-body. Their mating thread may be fitted with an optional 'O' ring seal to provide increased ingress protection. Clamping of the armoured or braided cable is effected by a combination of the coupling component, main body and the different optional armour cone and armour sleeve combinations being fastened together. An outer seal nut, containing an Evoprene Super G621 elastomeric sealing ring and a Nylon 6 ferrule, threads onto the main body and effects environmental sealing onto the cable outer sheath. Cable clamping is achieved with the outer seal arrangement.

Refer to Annex for more details

### CONDITIONS OF CERTIFICATION: YES as shown below:

The E\*\* type cable glands shall only be used where the temperature, at the point of entry, is between -60°C to +130°C.  
The E\*\* type cable glands terminated on braided cables are not suitable for group I applications.  
All body components of the E\*\* type cable glands are to be fully tightened using all available threads of engagement until against their adjoining component part shoulder to maintain Ingress protection rating IP66.  
The E\*\* type cable glands are fitted with one specific size of FLP sealing ring per gland size as supplied.  
The E\*\* type cable glands used for terminating braided cables are only suitable for fixed installations. Cables must be effectively clamped to prevent pulling or twisting.  
The E\*\* type of cable gland entry component threads may need additional sealing to maintain the ingress protection rating as applicable to the associated equipment in which it will be attached.



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

<b>Original dated 2006-09-20</b>	
<b>Issue 1 dated 2007-01-23</b>	
1	The introduction of an alternative, outer sealing arrangement; the compression nut length and consequently body length are reduced, in addition, the internal, tapered ferrule is replaced by a flat ferrule.
<b>Issue 2 dated 2007-06-25</b>	
2	The introduction of Ex nR II and Ex tD coding The recognition of alternative armour cone diameters The removal of the manufacturer's address from the product marking The use of the E** Cable glands with pliable wire armour cables

**Annexe to:** IECEx SIR 06.0043X  
**Applicant:** CMP Products Ltd  
**Electrical Apparatus:** E\*\* Type Range of Cable Glands



**Description (continued):**

**Design options**

- The front entry component may be manufactured with a profiled groove to captivate an 'O' ring seal which locates on the mating face with the associated enclosure. This option having the gland type designation prefixed with the letter R, e.g. 25RE\*\*.
- Alternative materials of manufacture:  
 Brass to BS2874:1986 Grade CuZn39Pb (CW614N)  
 Mild steel to BS970 Pt1:1991 Grade 220M07Pb  
 Stainless steel to BS970 Pt1:1991 Grades 316S11, 316S13, 316S31 or 316S33  
 Aluminium alloy to BS1474:1987 Grade 6082 or BS1490 Grade LM25 TF (Not Group I)
- Alternative entry component thread forms:  
 Metric ISO 965-1, ISO965-3 medium fit (6g) for external threads  
 ET(Conduit) BS 31:1940 (1979), Table A  
 PG DIN 40430:1971  
 BSPP BS 2779:1973 class A full form for external threads  
 BSPTBS 21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A  
 ISOISO 7/1:1982, gauging to ISO 7/2 clause 6.3 for external threads  
 NPTANSI/ASME B1.20.1-1983 gauging to clause 8.1 for external threads  
 NPSMANSI/ASME B1.20.1-1983 gauging to clause 9 for external threads
- The use of alternative armour clamping components specified by the cable gland type designation. The various arrangements vary the cable gland suitability for differing armour or braided type cables.
- The use of a component having an alternative profile allowing an integral earthing facility. The type designation identifying the cable gland being fitted with this option.
- The use of metallic continuity diaphragm component specified by the cable gland type designation for use when terminating lead sheathed cables.
- Alternative material of manufacture of the ferrule to be the same as the gland material.

The gland and seal sizes are determined by the entry thread and cable range take sizes:

Gland size	Entry thread	Inner seal sheath range Ø		SWA		STA, strip armour, pliable wire armour* & wire braid		Outer seal sheath range Ø	
		Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
20s/16	M20 x 1.5	3.1	8.6	0.9	1.00	0	1.0	6.1	11.5
20s	M20 x 1.5	6.1	11.6	0.9	1.25	0	1.0	9.5	15.9
20s/20	M20 x 1.5	6.1	11.6	0.9	1.25	0	1.0	12.5	20.9
20	M20 x 1.5	6.5	13.9	0.9	1.25	0	1.0	12.5	20.9
20/25	M20 x 1.5	6.5	13.9	0.9	1.25	0	1.0	18.2	26.2
25s	M25 x 1.5	11.1	19.9	1.25	1.6	0	1.0	14.0	22.0
25	M25 x 1.5	11.1	19.9	1.25	1.6	0	1.0	18.2	26.2
32	M32 x 1.5	17.0	26.2	1.6	2.0	0	1.0	23.7	33.9
32/40	M32 x 1.5	17.0	26.2	1.6	2.0	0	1.0	27.9	40.4
40	M40 x 1.5	22.0	32.1	1.6	2.0	0	1.0	27.9	40.4

Annexe to:

IECEX SIR 06.0043X

Applicant:

CMP Products Ltd

Electrical Apparatus:

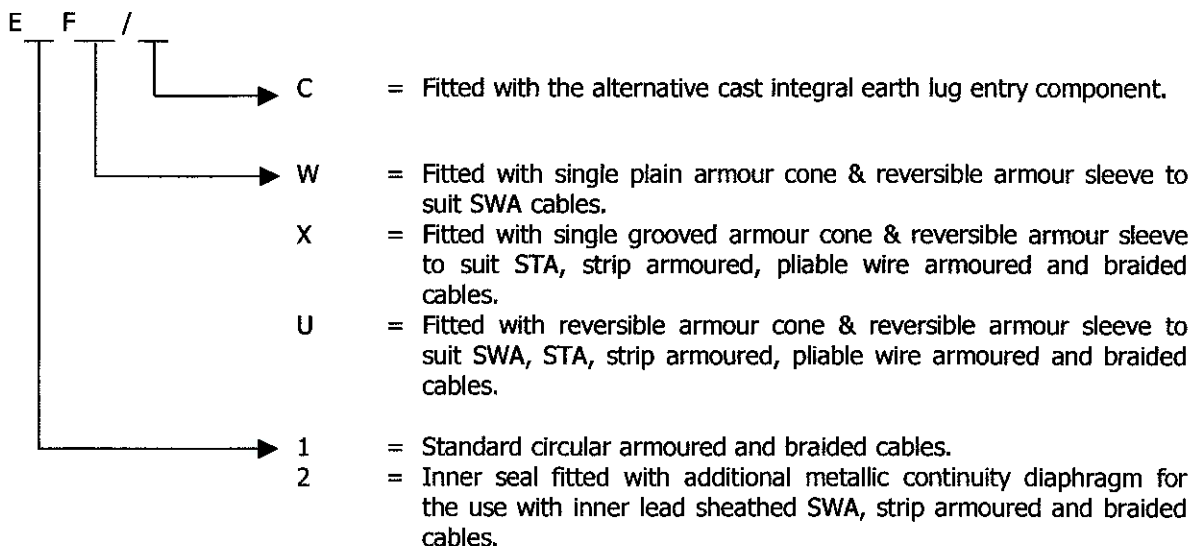
E\*\* Type Range of Cable Glands



Gland size	Entry thread	Inner seal sheath range Ø		SWA		STA, strip armour, pliable wire armour* & wire braid		Outer seal sheath range Ø	
		Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)	Min (mm)	Max (mm)
40/50s	M40 x 1.5	22.0	32.1	1.6	2.0	0	1.0	35.2	46.7
50s	M50 x 1.5	29.5	38.1	2.0	2.5	0	1.0	35.2	46.7
50s/50	M50 x 1.5	29.5	38.1	2.0	2.5	0	1.0	40.4	53.1
50	M50 x 1.5	35.6	44.0	2.0	2.5	0	1.0	40.4	53.1
50/63s	M50 x 1.5	35.6	44.0	2.0	2.5	0	1.0	45.6	59.4
63s	M63 x 1.5	40.1	49.9	2.0	2.5	0	1.0	45.6	59.4
63s/63	M63 x 1.5	40.1	49.9	2.0	2.5	0	1.0	54.6	65.9
63	M63 x 1.5	47.2	55.9	2.0	2.5	0	1.0	54.6	65.9
63/75s	M63 x 1.5	47.2	55.9	2.0	2.5	0	1.0	59.0	72.1
75s	M75 x 1.5	52.8	61.9	2.0	2.5	0	1.0	59.0	72.1
75s/75	M75 x 1.5	52.8	61.9	2.0	2.2	0	1.0	66.7	78.5
75	M75 x 1.5	59.1	67.9	2.0	2.5	0	1.0	66.7	78.5
75/90	M75 x 1.5	59.1	67.9	2.0	2.5	0	1.6	76.2	90.4
90	M90 x 2.0	66.6	79.9	3.15	3.15	0	1.6	76.2	90.4
90/100	M90 x 2.0	66.6	79.9	3.15	3.15	0	1.6	86.1	101.5
100	M100 x 2.0	76.0	90.9	3.15	4.0	0	1.6	86.1	101.5
100/115	M100 x 2.0	76.0	90.9	3.15	4.0	-	-	101.5	110.3
115	M115 x 2.0	86.0	97.9	3.15	4.0	-	-	101.5	110.3
115/130	M115 x 2.0	86.0	97.9	3.15	4.0	-	-	114.2	123.3
130	M130 x 2.0	97.0	114.9	3.15	4.0	-	-	114.2	123.3

\* - 'X' and 'U' variants; see below

**Type designation code**



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