



# 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.:  issue No.:

Status:

Date of Issue:  Page 1 of 4

Applicant: **CMP Products Limited**  
Glasshouse Street  
St Peters  
Newcastle-upon-Tyne NE6 1BE  
United Kingdom

Electrical Apparatus: **TMCX and TMC Ranges of Cable Glands**  
Optional accessory:

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

Marking: **TMCX Range of Cable Glands**  
Ex d IIC or  
Ex e II or  
Ex d IIC / Ex e II  
Ex tD A21 IP66  
**TMC Range of Cable Glands**  
Ex e II  
Ex tD A21 IP66

Approved for issue on behalf of the IECEx Certification Body: C Ellaby

Position: Certification Officer

Signature:  
(for printed version)

Date: 2007-10-19

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



# IECEx Certificate of Conformity

Certificate No.: IECEx SIR 07.0083X

Date of Issue: 2007-10-19

Issue No.: 0

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Manufacturer: **CMP Products Limited**  
Glasshouse Street  
St Peters  
Newcastle-upon-Tyne NE6 1BE  
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 manufacture'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 60079-7 : 2006-07</b> Edition: 4	Explosive atmospheres - Part 7: Equipment protection by 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/ExTR07.0105/00  
GB/SIR/ExTR07.0115/00

##### Quality Assessment Report:

GB/SIR/QAR07.0009/00



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## Schedule

### EQUIPMENT:

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

The **TMCX range of barrier type cable glands** is designed for use with flexible MC-HL type cables. Each gland comprises a male-threaded front entry component, a compound tube, a rear component, a spring ring and an outer compression nut/seal arrangement.

The compound tube is fitted such that a spigot/combination joint is formed. It contains a setting compound that affects a flameproof seal around the cable cores passing through it and is mechanically retained. The cable is additionally retained by a spring ring compressed between the two components onto the corrugated metal armour sheath.

Additional sealing is achieved by the outer nut compressing a neoprene seal onto the cable sheath.

Cable and gland combinations/specifications are tabulated on CMP drawing GA167.

The **TMC range of compression type cable glands** is identical to the TMCX types but with the compound tube omitted and the front end component modified. Cable and gland combinations/specifications are tabulated on CMP drawing GA166.

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

1. 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.
2. The cable glands shall only be used where the temperature, at the point of entry, is in the following ranges:  
  
TMCX Types: -60°C to +100°C  
TMC Types: -60°C to 130°C
3. TMCX and TMC cable glands > size 40 shall only be used on fixed installations and where the cable is effectively clamped.



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## EQUIPMENT(continued):

### Design options

- i. Alternative materials of manufacture:
  - Aluminium alloy to BS1474:1987 Grade 6082 or BS1490 Grade LM25 TF
  - 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
  
- ii. 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
  - BSPT BS 21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
  - ISO ISO 7/1:1982, gauging to ISO 7/2 clause 6.3 for external threads
  - NPT ANSI/ASME B1.20.1-1983 gauging to clause 8.1 for external threads
  - NPSM ANSI/ASME B1.20.1-1983 gauging to clause 9 for external threads