



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

Certificate No.: IECEx ITS 10.0007X Issue No: 3 Certificate history:
Status: **Current** Page 1 of 4 Issue No. 3 (2014-01-09)
Date of Issue: **2014-01-09** Issue No. 2 (2012-03-02)
Applicant: **Clements National Company** Issue No. 1 (2010-12-20)
2150 Parkes Drive Issue No. 0 (2010-01-27)
Broadview
Illinois
60155
United States of America

Electrical Apparatus: **EP Series Range of connectors**
Optional accessory:

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

Marking:
IECEX ITS 10.0007X
Ex d IIC T6 Gb
Ex de IIC T6 Gb (Applicable to panel mount version with Ex e enclosure only)
Ex tb IIIC T85°C Db IP68

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

A Dickinson

Position:

Certification Officer

*Signature:
(for printed version)*

Date:

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:

Intertek Testing & Certification Limited
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SB
United Kingdom





IECEX Certificate of Conformity

Certificate No: IECEx ITS 10.0007X Issue No: 3

Date of Issue: 2014-01-09 Page 2 of 4

Manufacturer: **Clements National Company**
2150 Parkes Drive
Broadview
Illinois
60155
United States of America

Additional 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:

IEC 60079-0 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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/ITS/ExTR10.0041/03](#)

Quality Assessment Report:

[GB/ITS/QAR10.0002/03](#)



IECEx Certificate of Conformity

Certificate No: IECEx ITS 10.0007X

Issue No: 3

Date of Issue: 2014-01-09

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The EP Series range of connectors are made in the following sizes: 6, 8 & 10 which refers to the diametrical size expressed in ¼" increments. The connectors are made from two parts, a plug and receptacle which when connected, form an inline cable connector. The connectors are manufactured from hard coated aluminium, stainless steel or brass and are fitted with contact pins (on the plug) and contact tubes (on the receptacle), in an insulating block. The two parts when fitted together form a cylindrical flamepath which is mechanically locked by a locking nut (grub screw). Both plug and receptacle have an additional threaded flamepath in the body, and on the back end there are means for connecting cabling provided; this is either through a potted flamepath or a suitably certified cable gland.

Schedule of limitations:

- A dielectric strength test is required for the Ex de version only. The test must be performed at $(1000 + 2 \times \text{working voltage})$ V r.m.s or 1500V r.m.s, which ever is the greater, and maintained for at least 1 minute without breakdown.

CONDITIONS OF CERTIFICATION: YES as shown below:

- When installed there shall be adequate protection from overloading.
- The connectors are to be fully tightened in accordance with manufacturer's specifications. Plug/Receptacle Covers are to be fitted when the connectors are not mated.
- No modifications must be made to the flamepaths of the unit without consultation of the drawings.
- The connectors have no external earth; an internal pin is made available for earthing/bonding. Local installation requirements shall be applied.
- When the panel-mount connector is assembled on an Ex e enclosure this shall be of sufficient strength to support the connector without damage or reduction in the IP rating of the Ex e enclosure.
- When part number of connector is: 'EPS## - 3 - # - ##### - #####' a suitably certified IECEx cable gland must be utilized with the connector.



IECEX Certificate of Conformity

Certificate No: IECEx ITS 10.0007X

Issue No: 3

Date of Issue: 2014-01-09

Page 4 of 4

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

Issue 3

Update of information on labels

Update of manufacturers address (matches updated QAR)

Annex:

[Annex to IECEx ITS 10.0007X issue 3.pdf](#)



Schedule of Drawings for Certificate: IECEX ITS 10.0007X Issue 3

Manufacturer:
Clements National Company
2150 Parkes Drive
Broadview
Illinois
60155
United States of America

Document No.	Document Title	Issue	Date (dd/mm/yyyy)
EP-DWG003	Explosion Proof Label (New Labeling) (Page 1 of 3)	C	12/13/13
EP-DWG003	Explosion Proof Label (New Labeling) (Page 2 of 3)	C	12/13/13
EP-DWG003	Explosion Proof Label (New Labeling) (Page 3 of 3)	C	12/13/13

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977

<http://www.intertek.com>

Registered No 3272281. Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This certificate may only be reproduced in its entirety and without change, schedule included and is subject to Intertek Testing & Certification Conditions for granting certification.