



# 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 TRC 14.0024X Issue No: 1 Certificate history:  
Status: **Current** Page 1 of 4 [Issue No. 1 \(2016-11-24\)](#)  
Date of Issue: **2016-11-24** [Issue No. 0 \(2014-12-11\)](#)

Applicant: **Extronics Limited**  
1 Dalton Way,  
Midpoint 18,  
Middlewich,  
Cheshire,  
CW10 0HU  
**United Kingdom**

Equipment: **RF Connectors, iSOLATE-CT-01 & iSOLATE-CT-02**  
*Optional accessory:*

Type of Protection: **Flameproof, Enclosure**

Marking: Ex d I Mb Ex d IIC Gb Ex tb IIIC Db Ta -60°C to +150°C

Approved for issue on behalf of the IECEx  
Certification Body:

Stephen Winsor

Position:

Certification Manager

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](#).

Certificate issued by:

**Element Materials Technology**  
Unit 1 Pendle Place  
Skelmersdale  
West Lancashire  
WN8 9PN





# IECEx Certificate of Conformity

Certificate No: IECEx TRC 14.0024X Issue No: 1  
Date of Issue: 2016-11-24 Page 2 of 4  
Manufacturer: **Extronics Limited**  
1 Dalton Way,  
Midpoint 18,  
Middlewich,  
Cheshire,  
CW10 0HU  
**United Kingdom**

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 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0  
**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:6  
**IEC 60079-31 : 2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

*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/TRC/ExTR14.0023/00](#) [GB/TRC/ExTR14.0023/01](#)

#### Quality Assessment Report:

[GB/SIR/QAR08.0025/07](#)



# IECEx Certificate of Conformity

Certificate No: IECEx TRC 14.0024X

Issue No: 1

Date of Issue: 2016-11-24

Page 3 of 4

## Schedule

### EQUIPMENT:

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

The iSOLATE-CT is an RF connector bushing for use with Flameproof and Dust-tight enclosures. The iSOLATE-CT is designed for the connection of an intrinsically safe signal from within the enclosure which allows for the transit of the intrinsically safe signals through the enclosure wall whilst maintaining the flameproof or dust-tight properties of the enclosure.

When the iSOLATE-CT is fitted to the enclosure the end user will be presented with an external N-type RF connector to allow for easy connection of antennas and RF cables. The supply to the iSOLATE-CT from within the enclosure must only be sourced from by a suitably rated and Ex approved intrinsically safe supply.

Designed to be screwed into Flameproof or Dust-tight enclosures the iSOLATE-CT can be supplied in two thread variants:

iSOLATE-CT-01: M20 x1.5 threads

iSOLATE-CT-02: 3/4 NPT threads

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

1. The iSOLATE-CT RF connector must only be used in conjunction with suitably rated and IECEx approved intrinsically safe apparatus, or associated apparatus, appropriate for the application and Zone in which the equipment is to be installed.
2. If the iSOLATE-CT-01 is installed with a suitable seal it must be ensured that at least 7 full threads are engaged.



# IECEX Certificate of Conformity

Certificate No: IECEx TRC 14.0024X

Issue No: 1

Date of Issue: 2016-11-24

Page 4 of 4

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

The internal joint between the glass to metal seal and connector body was a braized joint. The joint may now be braized or electron beam welded.

**Annex:**

[Annex to IECEx TRC 14.0024X is 1.pdf](#)



**Element Materials Technology,**  
Unit 1, Pendle Place,  
Skelmersdale,  
West Lancashire, WN8 9PN,  
United Kingdom

**Annex to IECEx Certificate of Conformity**

**IECEx TRC 14.0024X issue No.:1**

<b>Manufacturer's Documents</b>			
Title:	Drawing No.:	Rev. Level:	Date:
iISOLATE-CT ATEX/IECEx CERTIFICATION DRAWING	402437	2.0	2016-10-31
iISOLATE-CT ATEX/IECEx MARKING DETAILS	407448	1.0	2014-12-09
CD iISOLATE-CT-XX Safety Manual (6 pages)	407456	1.0	2014-12-09