



# 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 TSA 11.0012U** issue No.: **0** Certificate history:

Status: **Current**

Date of Issue: **2011-11-15** Page 1 of 3

Applicant: **Trolex Ltd**  
Newby Road, Hazel Grove  
Stockport, SK7 5DY  
United Kingdom

Electrical Apparatus: **Type TX3704 Socket and Plug**  
Optional accessory:

Type of Protection: **Ex d**

Marking: **Trolex**  
**Model number** \_\_\_\_\_  
**Ex d I Mb**  
**Ex d IIB Gb**  
**Serial No.** \_\_\_\_\_  
**IECEX TSA 11.0012U**

Approved for issue on behalf of the IECEX Certification Body: **Ujen Singh**

Position: **Quality & Certification Manager**

Signature:  
(for printed version)

  
\_\_\_\_\_  
**15 NOVEMBER 2011**

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:

**TestSafe Australia**  
919 Londonderry Road  
Londonderry NSW 2753  
Australia





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Page 2 of 3

Manufacturer: **Trolex Ltd**  
Newby Road, Hazel Grove  
Stockport, SK7 5DY  
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:

**IEC 60079-0 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition: 5

**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition: 6

*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/BAS/ExTR10.0028/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0017/02](#)



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Certificate No.: IECEx TSA 11.0012U

Date of Issue: 2011-11-15

Issue No.: 0

Page 3 of 3

## Schedule

### EQUIPMENT:

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

See Annexe IECEx TSA 11.0012U.

### CONDITIONS OF CERTIFICATION: NO

Schedule of Limitation see Annexe IECEx TSA 11.0012U.



# IECEx Certificate of Conformity Annexe

<b>Annexe for Certificate No.:</b>	<b>IECEx TSA 11.0012U</b>	<b>Issue No.:</b>	<b>0</b>
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## Equipment Description:

Type TX3704.SS Socket, rated at up to 240 V a.c. or 300 V d.c., 25 A per pin with a maximum through current of 100A. The assembly of the brass or stainless steel socket body and the cover shell is fitted with an insulating bushing insert which may be fitted with 4, 10 or 14 tube or pin type electrical connectors. An internal and an external earth connection are provided. The assembly is held together using grade A2-70 min. socket cap head screws.

Cable threaded entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component). Additionally, the cable entry device and cabling methods used in service must be suitable for their intended duty and the special types of cable when used in Group I mining applications.

The permitted variations are listed below:

1. Fitting of a brass or stainless steel socket blanking cover TX3704.BS for attachment to a disconnected socket. The cover is retained with two socket head cap screws.
2. Omission of the cover shell. The cavity at the rear of the socket may be filled with an encapsulant. The unit formed by this variation is designated as the Type TX3704.S Socket.
3. Type TX3704.PS Cable Mounted Plug, rated at up to 240 V a.c. or 300 V d.c., 25 A per pin with a maximum through current of 100 A. The assembly of the brass or stainless steel plug body and the cover shell is fitted with an insulating bushing insert which may be fitted with 4, 10 or 14 tube or pin type electrical connectors. An internal and an external earth connections are provided.
4. Fitting of a brass or stainless steel plug blanking cover TX3704.BP for attachment to a disconnected plug. The cover is retained with two socket head cap screws.
5. Fitting of a stainless steel lanyard to retain a blanking cover for convenient use.

## Schedule of Limitations:

1. The socket Type TX3704.S is to be mounted in the wall of an appropriate flameproof enclosure with an interface as shown on the certification drawing P3704-20.
2. The sockets are to be used in conjunction with a TX3704.PS plug or a TX3704.BP blanking plug.
3. When a socket is not fitted with a plug or a blanking cover all the electrical circuits in the associated flameproof enclosure must be de-energized.
4. The maximum flamepath gaps shall not exceed 0.2 mm, as referred on the certified drawing P3704-20.
5. The ambient temperature range is -20°C to +55°C.

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## IECEX Certificate of Conformity Annexe

Annexe for Certificate No.:	IECEX TSA 11.0012U	Issue No.:	0
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**Drawing list pertaining to Original Issue 0 of this Certificate:**

Document No.	Sheets	Document Title	Revision	Date (yyyy-mm-dd)
P3704-20	1	TX3704 Exd Connectors IECEx – General Arrangement	B	2011-11-03
P3704-20-01	1	TX3704 Exd Connectors IECEx – Component Details	A	2010-05-18
P3704-20-02	1	TX3704 Exd Connectors – Component Details – Plug & Socket Blanks	A	2010-07-12
P3704.28	1	TX3704 Connectors IECEx – Testsafe - Label Details – Group I & II	A	2011-03-02

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