



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa06ATEX0305U**

4 Component: **Type TX 3700.** Connectors**

5 Manufacturer: **Trolex Limited**

6 Address: **10a Newby Road, Hazel Grove, Stockport, Cheshire, SK7 5DY**

7 This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa (2001) Ltd., Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **06(CI)0553**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2004

EN 60079-1: 2004

except in respect of those requirements listed at item 18 of the Schedule.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified Component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

12 The marking of the component shall include the following :

⊕ I M2 Ex d I and/or **⊕ II 2G Ex d IIB**

This certificate may only be reproduced in its entirety, without any change, schedule included.

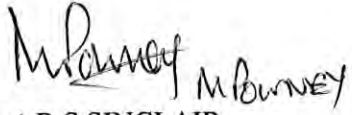
Baseefa Customer Reference No. **1159**

Project File No. **06/0553**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

Baseefa

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Baseefa is a trading name of Baseefa (2001) Ltd
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R S SINCLAIR
DIRECTOR
On behalf of
Baseefa (2001) Ltd.



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Schedule

14

Certificate Number Baseefa06ATEX0305U

15 Description of Component

Type TX3700.SS Cable Mounted Socket, rated at up to 240V a.c. or 300V d.c., 25A per pin with a maximum through current of 100A. The brass or stainless steel socket body is fitted with an insulating bushing insert which may be fitted with 4, 10 or 14 tube or pin type electrical connectors. An external earth connection is provided.

A cable entry hole is 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 suitable 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) under an EC Type Examination Certificate to Directive 94/9/EC.

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.

Variation 0.1

Fitting of a socket blanking cover for attachment to a disconnected socket. The cover is retained with two socket head cap screws.

Variation 0.2

Omission of the cover shell with a reduction in the current rating to 20A per pin, with a maximum through current of 100A. The unit formed by this variation is designated as the

Type TX3700.S Box Mounted Socket

Variation 0.3

Amendment to the rear of the socket to allow filling with an encapsulation medium. The connection pins are also sealed in place using a Loctite compound. The unit formed by this variation is designated as the

Type TX3700.ES Cable Mounted Socket

and is marked $\text{\textcircled{Ex}}$ I M2 Ex de I and/or $\text{\textcircled{Ex}}$ II 2G Ex de IIB

Type TX3700.PS Cable Mounted Plug, rated at up to 240V a.c. or 300V d.c., 25A per pin with a maximum through current of 100A. The brass or stainless steel plug body is fitted with an insulating bushing insert which may be fitted with 4, 10 or 14 tube or pin type electrical connectors. An external earth connection is provided.

A cable entry hole is 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 suitable 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) under an EC Type Examination Certificate to Directive 94/9/EC.

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.

Variation 0.4

Fitting of a plug blanking cover for attachment to a disconnected plug. The cover is retained with two socket head cap screws.

Variation 0.5

Alternative fixing arrangement between the plug and the associated socket; involving a bush and a longer screw.

16 Report Number

06(CI)0553

17 Schedule of Limitations

1. The socket formed by Variation 0.2 is to be mounted in the wall of an appropriate flameproof enclosure with an interface as shown on the drawings listed below.
2. The sockets are to be used in conjunction with a plug as Certificate Baseefa06ATEX0305U or a blanking plug as covered by Certificate Baseefa06ATEX0305U.
3. The maximum flamepath gaps shall not exceed 0.15 mm and 0.2 mm, as on the drawings below.

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

TX3700 Drawings

| Number | Sheet | Issue | Date | Description |
|-----------|--------------|-------|----------|------------------------------|
| P3700.615 | Sheet 1 of 3 | Iss C | 30.10.06 | General Arrangement |
| P3700.615 | Sheet 2 of 3 | Iss C | 23.10.06 | General Arrangement |
| P3700.615 | Sheet 3 of 3 | Iss B | 30.10.06 | General Arrangement |
| P3700.616 | Sheet 1 of 8 | Iss A | 09.07.02 | Plug Flange |
| P3700.616 | Sheet 2 of 8 | Iss A | 09.07.02 | Socket |
| P3700.616 | Sheet 3 of 8 | Iss A | 09.07.02 | Cover Shell |
| P3700.616 | Sheet 4 of 8 | Iss A | 09.07.02 | Locking Ring - Plug |
| P3700.616 | Sheet 5 of 8 | Iss A | 09.07.02 | Locking Ring - Socket |
| P3700.616 | Sheet 6 of 8 | Iss A | 09.07.02 | Locking Ring - Socket (Exde) |
| P3700.616 | Sheet 7 of 8 | Iss A | 09.07.02 | Plug Blank |
| P3700.616 | Sheet 8 of 8 | Iss A | 09.07.02 | Socket Blank |
| P3700.617 | Sheet 1 of 1 | Iss A | 20.05.02 | Pins & Tubes |
| P3700.618 | Sheet 1 of 6 | Iss B | 08.09.02 | Insert Body 4 Way |
| P3700.618 | Sheet 2 of 6 | Iss B | 08.09.02 | Insert End 4 Way |
| P3700.618 | Sheet 3 of 6 | Iss B | 08.09.02 | Insert Body 10 Way |
| P3700.618 | Sheet 4 of 6 | Iss B | 08.09.02 | Insert End 10 Way |
| P3700.618 | Sheet 5 of 6 | Iss B | 08.09.02 | Insert Body 14 Way |
| P3700.618 | Sheet 6 of 6 | Iss B | 08.09.02 | Insert End 14 Way |
| P3700.730 | Sheet 1 of 1 | Iss A | 27.11.06 | Label Details |



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**
3 **Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 Supplementary EC - Type Examination Certificate Number: **Baseefa06ATEX0305U/1**

4 Component: **Type TX 3700.** Connectors**

5 Manufacturer: **Trolex Limited**

6 Address: **10a Newby Road, Hazel Grove, Stockport, Cheshire, SK7 5DY**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa06ATEX0305U to apply to components designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.


Baseefa Customer Reference No. **1159**

Project File No. **09/0235**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa06ATEX0305U/1

15 Description of the variation to the Component

Variation 1.1

Additional wording on the warning labels.

Variation 1.2

Modified design and layout of the socket to include a larger overall body size, larger M10x25 stainless steel socket headed cap screws and increased length of flamepaths.

The unit so formed is designated as the **Type TX3704.SS Cable Mounted Socket**, rated at up to 240V a.c. or 300V d.c., 25A per pin with a maximum through current of 100A. The brass or stainless steel socket body is fitted with an insulating bushing insert which may be fitted with 4, 10 or 14 tube or pin type electrical connectors. An external earth connection is provided.

A cable entry hole is 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 suitable 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) under an EC Type Examination Certificate to Directive 94/9/EC.

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.

Variation 1.3

Fitting of a socket blanking cover for attachment to a disconnected socket. The cover is retained with two socket head cap screws.

Variation 1.4

Omission of the cover shell with a reduction in the current rating to 20A per pin, with a maximum through current of 100A. The unit formed by this variation is designated as the **Type TX3704.S Box Mounted Socket**.

Variation 1.5

Modified design and layout of the plug to include a larger overall body size, larger M10x25 stainless steel socket headed cap screws and increased length of flamepaths. The unit so formed is designated as the **Type TX3704.PS Cable Mounted Plug**, rated at up to 240V a.c. or 300V d.c., 25A per pin with a maximum through current of 100A. The brass or stainless steel plug body is fitted with an insulating bushing insert which may be fitted with 4, 10 or 14 tube or pin type electrical connectors. An external earth connection is provided.

A cable entry hole is 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 suitable 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) under an EC Type Examination Certificate to Directive 94/9/EC.

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.

Variation 1.6

Fitting of a plug blanking cover for attachment to a disconnected plug. The cover is retained with two socket head cap screws.



Variation 1.7

To confirm that the equipment covered by this certificate has been reviewed against the requirements of EN60079-0: 2006 and EN60079-1: 2007 in respect of the differences from the Standards to which this certificate was issued; none of these differences affect this equipment.

16 Report Number

Baseefa Certification Report 09(C)0235

17 Schedule of Limitations

1. The socket formed by Variation 1.4 is to be mounted in the wall of an appropriate flameproof enclosure with an interface as shown on the drawings listed below.
2. The sockets are to be used in conjunction with a plug as Baseefa06ATEX0305U/1 or a blanking plug as covered by Baseefa06ATEX0305U/1.

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

| Number | Sheet | Issue | Date | Description |
|-------------|-------|-------|----------|---------------------------------------|
| P3700.730* | - | B | 14.07.09 | Label Details TX3700 Connectors |
| P3704.17* | - | A | 13.07.09 | Label Details TX3704 Connectors |
| P3704-01* | - | F | 18/08/09 | General Arrangement TX3704 Connectors |
| P3704-01-01 | - | A | 18/05/09 | Component Details TX3704 Connectors |

* These drawings are common to Baseefa06ATEX0307X/1 and are held with Baseefa06ATEX0305U/1



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment**
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC

3 Supplementary EC - Type Examination Certificate Number: **Baseefa06ATEX0305U/2**

4 Component: **Type TX 3700.** Plug, Socket and Blanking Covers**

5 Manufacturer: **Trolex Limited**

6 Address: **10a Newby Road, Hazel Grove, Stockport, Cheshire, SK7 5DY**

7 This supplementary certificate extends EC - Type Examination Certificate No. Baseefa06ATEX0305U to apply to components designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 Item 9 of the original Certificate is replaced by "Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2009

EN 60079-1: 2007

EN 60079-7: 2007

except in respect of those requirements listed at item 18 of the Schedule."

9 The marking of the equipment has changed from the original Certificate and shall include the following:

⊕ I M2 Ex d I Mb and/or ⊕ II 2G Ex d IIB Gb

or

⊕ I M2 Ex d e I Mb and/or ⊕ II 2G Ex d e IIB Gb (with socket encapsulation)

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No.1159

Project File No. 12/0093

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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DIRECTOR
On behalf of
Baseefa



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Schedule

14

Certificate Number Baseefa06ATEX0305U/2

15 Description of the variation to the Component

Variation 2.1

To clarify that the unit covered by Variation 0.3 of Baseefa06ATE0305U is designated as the **Type TX3700.ES Enclosure Mounted Socket**.

Variation 2.2

Minor drawing amendments to include amended codings, reflecting the amended certification standards as below.

Variation 2.3

To confirm that the equipment covered by this certificate as amended by the above changes has been reviewed against the requirements of EN 60079-0: 2009, EN 60079-1: 2007 and EN 60079-7: 2007 in respect of the differences from the standards to which this certificate was issued; none of these differences affect this equipment.

These variations do not cover the Type TX3704 (Baseefa06ATEX0305U/1) which is considered as removed from this certificate.

16 Report Number

None

17 Schedule of Limitations

None additional to those listed previously

18 Essential Health and Safety Requirements

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 Drawings and Documents

| Number | Sheet | Issue | Date | Description |
|-------------|-------|-------|----------|---------------------------------|
| P3700.730* | - | C | 12.04.12 | Label Details TX3700 Connectors |
| P3700.615** | 1-3 | D | 20.02.12 | General Arrangement |

* This drawing is common to Baseefa06ATEX0305U/2 and Baseefa06ATEX0307X/2 and is held with the former.

** These drawings are common to IECEx BAS 12.0034U, IECEx BAS 12.0035X, Baseefa06ATEX305U and Baseefa06ATEX307X and are held with IECEx BAS 12.0034U.