



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

### Ex COMPONENT CERTIFICATE

|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                      |             |                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------|
| Certificate No.:                                                                                                                                                                                        | IECEX KEM 06.0027U                                                                                                                                                                                                                                                                                   | Page 1 of 4 | <u>Certificate history:</u> |
| Status:                                                                                                                                                                                                 | Current                                                                                                                                                                                                                                                                                              | Issue No: 9 | Issue 8 (2021-07-29)        |
| Date of Issue:                                                                                                                                                                                          | 2023-08-28                                                                                                                                                                                                                                                                                           |             | Issue 7 (2020-02-27)        |
| Applicant:                                                                                                                                                                                              | Phoenix Contact GmbH & Co. KG<br>Flachsmarktstraße 8<br>Blomberg 32825<br>Germany                                                                                                                                                                                                                    |             | Issue 6 (2018-03-08)        |
|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                      |             | Issue 5 (2013-12-20)        |
|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                      |             | Issue 4 (2012-11-30)        |
|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                      |             | Issue 3 (2009-07-10)        |
|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                      |             | Issue 2 (2007-06-01)        |
|                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                      |             | Issue 1 (2007-05-07)        |
| Ex Component:                                                                                                                                                                                           | Terminal Blocks UT 2,5; UT 4; UT 4-MTD; UT 6; UT 10; UT 10 SL; UT 16; UT 35; UT 35 IB, Protective Conductor<br>Terminal Blocks UT 2,5-PE; UT 4-PE; UT 4 MTD-PE; UT 4-MTD-PE/S; UT 6-PE; UT 10-PE; UT 16-PE; UT 35-PE; UT 35-PE IB and Pick-off Terminal Blocks AGK 4-UT 10; AGK 4-UT 16; AGK 4-UT 35 |             |                             |
| <i>This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).</i> |                                                                                                                                                                                                                                                                                                      |             |                             |
| Type of Protection:                                                                                                                                                                                     | Increased safety                                                                                                                                                                                                                                                                                     |             |                             |
| Marking:                                                                                                                                                                                                | Ex eb IIC Gb                                                                                                                                                                                                                                                                                         |             |                             |

Approved for issue on behalf of the IECEx  
Certification Body:

**R. Schuller**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:  
(for printed version)

2023-08-28

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Manufacturer: **Phoenix Contact GmbH & Co. KG**  
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**Germany**

Manufacturing  
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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 component 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[NL/DEK/ExTR21.0026/00](#)

[NL/KEM/ExTR07.0033/07](#)

Quality Assessment Reports:

[NL/DEK/QAR11.0009/09](#)

[NL/DEK/QAR11.0010/07](#)

[NL/DEK/QAR11.0011/07](#)



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## Ex Component(s) covered by this certificate is described below:

Terminal Blocks (all colors) UT 2,5; UT 4; UT 4-MTD; UT 6; UT 10; UT 10 SL; UT 16; UT 35; UT 35 IB, Protective Conductor Terminal Blocks UT 2,5-PE; UT 4-PE; UT 4-MTD-PE; UT 4-MTD-PE/S; UT 6-PE; UT 10-PE; UT 16-PE; UT 35-PE; UT 35-PE IB and accessories are intended for the connection of copper conductors in enclosures fulfilling the degree of protection which is required by the applied type of protection for the end-application. The Terminal Blocks and Protective Conductor Terminal Blocks are intended for installation on mounting rails type NS 35 according to IEC 60715 Section TH 35.

The Pick-off Terminal Blocks AGK 4-UT 10; AGK 4-UT 16 and AGK 4-UT 35 are to be used in combination with the associated Terminal Blocks UT 10 (SL); UT 16; UT 35 (IB).

Operating temperature range -60 °C to +110 °C.

For electrical data and nomenclature see Annex 1.

## SCHEDULE OF LIMITATIONS:

1. The Terminal Blocks, the Protective Conductor Terminal Blocks and the Pick-off Terminal Blocks shall be mounted in a certified enclosure that meets the requirements of a type of protection as specified in IEC 60079-0 clause 1, with a degree of protection at least as required for Ex e.
2. When assembling with other certified series and sizes and using the associated accessories, the required creepage distances and clearances have to be observed.
3. The installation instruction of the manufacturer shall be followed e.g. for the use of cover, jumpers, end brackets. The data regarding current and associated temperature rise shall be used as guideline for the given conductor cross sections. The cross section has influence on the temperature rise which shall be assessed in the end application.
4. If the Terminal Blocks and Pick-off Terminal Blocks are used in electrical equipment of temperature classes T1 up to T5, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.
5. If the Terminal Blocks and Pick-off Terminal Blocks are used in electrical equipment of temperature classes T6 the permissible ambient temperature range is -60 °C < Tamb < +40 °C.
6. The electrical data per Annex 1 applies.



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

- Addition of the rated voltage for bridging between non-adjacent terminal blocks.
- Minor corrections.

**Annex:**

[226295800-ExTR07.0033.07-Annex1.pdf](#)

## Electrical data

Note 1: in this document [,] is used as decimal separator.

All values are values of terminal blocks without bridges, unless indicated otherwise.

### Terminal Blocks

| <b>Type:</b>                                                                | <b>UT 2,5</b>                       | <b>UT 4</b>                       |
|-----------------------------------------------------------------------------|-------------------------------------|-----------------------------------|
| Rated insulation voltage [V]                                                | 630                                 | 630                               |
| Rated voltage [V]                                                           | 690                                 | 690                               |
| Rated voltage with plug-in bridge type FBS                                  |                                     |                                   |
| - at bridging between adjacent terminal blocks [V]                          | 690                                 | 690                               |
| - at bridging between non-adjacent terminal blocks [V]                      | 352                                 | 352                               |
| - with plug-in bridge via PE terminal block [V]                             | 275                                 | 275                               |
| - with cut-to-length bridge and cover type D [V]                            | 220                                 | 220                               |
| - with cut-to-length bridge and partition plate type ATP [V]                | 275                                 | 275                               |
| Rated current [A]                                                           | 21                                  | 30                                |
| - with plug-in bridge type FBS... [A]                                       | 21                                  | 27                                |
| Maximum load current [A]                                                    | 28                                  | 38                                |
| Temperature rise [K]                                                        | 40 K (23,3 A; 2,5 mm <sup>2</sup> ) | 40 K (33,3 A; 4 mm <sup>2</sup> ) |
| Contact resistance [mΩ]                                                     | 0,41                                | 0,26                              |
| Rated cross section [mm <sup>2</sup> ] (AWG)                                | 2,5 (14)                            | 4 (12)                            |
| Connectable conductor cross section                                         |                                     |                                   |
| - rigid [mm <sup>2</sup> ] (AWG)                                            | 0,14 - 4 (26-12)                    | 0,14 - 6 (26-10)                  |
| - flexible [mm <sup>2</sup> ] (AWG)                                         | 0,14 - 2,5 (26-14)                  | 0,14 - 4 (26-12)                  |
| Multiple conductor connection<br>(2 conductors with the same cross section) |                                     |                                   |
| - rigid [mm <sup>2</sup> ] (AWG)                                            | 0,14 - 1,5 (26-16)                  | 0,14 - 1,5 (26-16)                |
| - flexible [mm <sup>2</sup> ] (AWG)                                         | 0,14 - 1,5 (26-16)                  | 0,14 - 1,5 (26-16)                |

| <b>Type:</b>                                                 | <b>UT 4-MTD</b>                    | <b>UT 6</b>                        |
|--------------------------------------------------------------|------------------------------------|------------------------------------|
| Rated insulation voltage [V]                                 | 630                                | 630                                |
| Rated voltage [V]                                            | 690                                | 690                                |
| Rated voltage with plug-in bridge type FBS                   |                                    |                                    |
| - at bridging between adjacent terminal blocks [V]           | 690                                | 690                                |
| - at bridging between non-adjacent terminal blocks [V]       | 352                                | 275                                |
| - at bridging via PE terminal block [V]                      | 275                                | 176                                |
| - at bridging via PE/S terminal block [V]                    | 176                                | -                                  |
| - with cut to length bridge and cover type D [V]             | 220                                | 220                                |
| - with cut to length bridge and partition plate type ATP [V] | 275                                | 275                                |
| Rated current [A]                                            | 29                                 | 40                                 |
| - with plug-in bridge type FBS... [A]                        | 29                                 | 39                                 |
| Maximum load current [A]                                     | 36                                 | 50                                 |
| Temperature rise [K]                                         | 40 K (32,0 A; 4 mm <sup>2</sup> )  | 40 K (44,9 A; 6 mm <sup>2</sup> )  |
| Contact resistance [mΩ]                                      | 0,32                               | 0,20                               |
| Rated cross section [mm <sup>2</sup> ] (AWG)                 | 4 (12)                             | 6 (10)                             |
| Connectable conductor cross section                          |                                    |                                    |
| - rigid [mm <sup>2</sup> ] (AWG)                             | 0,14 - 6 (26-10)                   | 0,2 - 10 (24-8)                    |
| - flexible [mm <sup>2</sup> ] (AWG)                          | 0,14 - 4 (26-12)                   | 0,2 - 6 (24-10)                    |
| Multiple conductor connection                                |                                    |                                    |
| (2 conductors with the same cross section)                   |                                    |                                    |
| - rigid [mm <sup>2</sup> ] (AWG)                             | 0,14 - 1,5 (26-16)                 | 0,2 - 2,5 (24-14)                  |
| - flexible [mm <sup>2</sup> ] (AWG)                          | 0,14 - 1,5 (26-16)                 | 0,2 - 2,5 (24-14)                  |
| <b>Type:</b>                                                 | <b>UT 10 (SL)</b>                  | <b>UT 16</b>                       |
| Rated insulation voltage [V]                                 | 630                                | 630                                |
| Rated voltage [V]                                            | 690                                | 690                                |
| - with plug-in bridge type FBS [V]                           | 690                                | 690                                |
| Rated current [A]                                            | 54                                 | 73,5                               |
| - with plug-in bridge type FBS [A]                           | 54                                 | 73,5                               |
| Maximum load current [A]                                     | 69                                 | 89,5                               |
| Temperature rise [K]                                         | 40 K (60,1 A; 10 mm <sup>2</sup> ) | 40 K (80,5 A; 16 mm <sup>2</sup> ) |
| Contact resistance [mΩ]                                      | 0,16                               | 0,16                               |
| Rated cross [mm <sup>2</sup> ] (AWG)                         | 10 (8)                             | 16 (6)                             |
| Connectable conductor cross section                          |                                    |                                    |
| - rigid [mm <sup>2</sup> ] (AWG)                             | 0,5 - 16 (20-6)                    | 1,5 - 25 (16-4)                    |
| - flexible [mm <sup>2</sup> ] (AWG)                          | 0,5 - 10 (20-8)                    | 1,5 - 16 (16-6)                    |
| Multiple conductor connection                                |                                    |                                    |
| (2 conductors with the same cross section)                   |                                    |                                    |
| - rigid [mm <sup>2</sup> ] (AWG)                             | 0,5 - 4 (20-12)                    | 1,0 - 6 (18-10)                    |
| - flexible [mm <sup>2</sup> ] (AWG)                          | 0,5 - 4 (20-12)                    | 1,0 - 4 (18-12)                    |

|                                                                             |                                     |
|-----------------------------------------------------------------------------|-------------------------------------|
| <b>Type:</b>                                                                | <b>UT 35 (IB)</b>                   |
| Rated insulation voltage [V]                                                | 630                                 |
| Rated voltage [V]                                                           | 690                                 |
| - with plug-in bridge type FBS [V]                                          | 690                                 |
| Rated current [A]                                                           | 123                                 |
| - with plug-in bridge type FBS [A]                                          | 98,5                                |
| Maximum load current [A]                                                    | 129                                 |
| Temperature rise [K]                                                        | 40 K (133,6 A; 35 mm <sup>2</sup> ) |
| Contact resistance [mΩ]                                                     | 0,08                                |
| Rated cross section [mm <sup>2</sup> ] (AWG)                                | 35 (2)                              |
| Connectable conductor cross section                                         |                                     |
| - rigid [mm <sup>2</sup> ] (AWG)                                            | 1,5 - 50 (16-1/0)                   |
| - flexible [mm <sup>2</sup> ] (AWG)                                         | 1,5 - 35 (16-2)                     |
| Multiple conductor connection<br>(2 conductors with the same cross section) |                                     |
| - rigid [mm <sup>2</sup> ] (AWG)                                            | 1,5 - 16 (16-6)                     |
| - flexible [mm <sup>2</sup> ] (AWG)                                         | 1,5 - 10 (16-8)                     |

#### Protective Conductor Terminal Blocks

|                                              |                    |                      |
|----------------------------------------------|--------------------|----------------------|
| <b>Type:</b>                                 | <b>UT 2,5-PE</b>   | <b>UT 4-PE</b>       |
| Rated cross section [mm <sup>2</sup> ] (AWG) | 2,5 (14)           | 4 (12)               |
| Connectable conductor cross section          |                    |                      |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,14 - 4 (26-12)   | 0,14 - 6 (26-10)     |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,14 - 2,5 (26-14) | 0,14 - 4 (26-12)     |
| <b>Type:</b>                                 | <b>UT 4-MTD-PE</b> | <b>UT 4-MTD-PE/S</b> |
| Rated cross section [mm <sup>2</sup> ] (AWG) | 4 (12)             | 4 (12)               |
| Connectable conductor cross section          |                    |                      |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,14 - 6 (26-10)   | 0,14 - 6 (26-10)     |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,14 - 4 (26-12)   | 0,14 - 4 (26-12)     |
| <b>Type:</b>                                 | <b>UT 6-PE</b>     | <b>UT 10-PE</b>      |
| Rated cross section [mm <sup>2</sup> ] (AWG) | 6 (10)             | 10 (8)               |
| Connectable conductor cross section          |                    |                      |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,2 - 10 (24-8)    | 0,5 - 16 (20-6)      |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,2 - 6 (24-10)    | 0,5 - 10 (20-8)      |
| <b>Type:</b>                                 | <b>UT 16-PE</b>    | <b>UT 35-PE (IB)</b> |
| Rated cross section [mm <sup>2</sup> ] (AWG) | 16 (6)             | 35 (2)               |
| Connectable conductor cross section          |                    |                      |
| - rigid [mm <sup>2</sup> ] (AWG)             | 1,5 - 25 (16-4)    | 1,5 - 35 (16-2)      |
| - flexible [mm <sup>2</sup> ] (AWG)          | 1,5 - 16 (16-6)    | 1,5 - 35 (16-2)      |

Pick-off Terminal Blocks

**Type:**

|                                              | <b>AGK 4-UT 10</b>                | <b>AGK 4-UT 16</b>                |
|----------------------------------------------|-----------------------------------|-----------------------------------|
| Rated insulation voltage [V]                 | 400                               | 630                               |
| Rated voltage [V]                            | 440                               | 690                               |
| Rated current [A]                            | 32                                | 32                                |
| Maximum load current [A]                     | 41                                | 41                                |
| Temperature rise [K]                         | 40 K (34,0 A; 4 mm <sup>2</sup> ) | 40 K (36,0 A; 4 mm <sup>2</sup> ) |
| Contact resistance [mΩ]                      | 0,42                              | 0,43                              |
| Rated cross section [mm <sup>2</sup> ] (AWG) | 4 (12)                            | 4 (12)                            |
| Connectable conductor cross section          |                                   |                                   |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,14 - 6 (26-10)                  | 0,14 - 6 (26-10)                  |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,14 - 4 (26-12)                  | 0,14 - 4 (26-12)                  |
| Multiple conductor connection                |                                   |                                   |
| (2 conductors with the same cross section)   |                                   |                                   |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,14 - 1,5 (26-16)                | 0,14 - 1,5 (26-16)                |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,14 - 1,5 (26-16)                | 0,14 - 1,5 (26-16)                |

**Type:**

|                                              | <b>AGK 4-UT 35</b>                |
|----------------------------------------------|-----------------------------------|
| Rated insulation voltage [V]                 | 630                               |
| Rated voltage [V]                            | 690                               |
| Rated current [A]                            | 32                                |
| Maximum load current [A]                     | 41                                |
| Temperature rise [K]                         | 40 K (40,0 A; 4 mm <sup>2</sup> ) |
| Contact resistance [mΩ]                      | 0,43                              |
| Rated cross section [mm <sup>2</sup> ] (AWG) | 4 (12)                            |
| Connectable conductor cross section          |                                   |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,14 - 6 (26-10)                  |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,14 - 4 (26-12)                  |
| Multiple conductor connection                |                                   |
| (2 conductors with the same cross section)   |                                   |
| - rigid [mm <sup>2</sup> ] (AWG)             | 0,14 - 1,5 (26-16)                |
| - flexible [mm <sup>2</sup> ] (AWG)          | 0,14 - 1,5 (26-16)                |

## Nomenclature

### Terminal Blocks

UT      \*      -MTD  
I          II          III

| Designation | Explanation         | Value                           | Explanation                                                                                                                                                                        |
|-------------|---------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I           | Type indicator      | UT                              | <u>U</u> niversal <u>T</u> erminal block with screw connection                                                                                                                     |
| II          | Rated cross section | 2,5<br>4<br>6<br>10<br>16<br>35 | 2,5 mm <sup>2</sup> , 14 AWG<br>4 mm <sup>2</sup> , 12 AWG<br>6 mm <sup>2</sup> , 10 AWG<br>10 mm <sup>2</sup> , 8 AWG<br>16 mm <sup>2</sup> , 6 AWG<br>35 mm <sup>2</sup> , 2 AWG |
| III         | Options             | None<br>-MTD<br>IB<br>SL        | -<br>No disconnection function (only UT 4)<br><u>I</u> n <u>B</u> us screw connection (only UT 35)<br><u>S</u> ix- <u>L</u> obe screw (only UT 10)                                 |

### Protective Conductor Terminal Blocks

UT      \*      -MTD-      PE      /      S  
I          II          III          IV

| Designation | Explanation         | Value                           | Explanation                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|---------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I           | Type indicator      | UT                              | <u>U</u> niversal <u>T</u> erminal block with screw connection                                                                                                                                                                                                                                                                                                                     |
| II          | Rated cross section | 2,5<br>4<br>6<br>10<br>16<br>35 | 2,5 mm <sup>2</sup> , 14 AWG<br>4 mm <sup>2</sup> , 12 AWG<br>6 mm <sup>2</sup> , 10 AWG<br>10 mm <sup>2</sup> , 8 AWG<br>16 mm <sup>2</sup> , 6 AWG<br>35 mm <sup>2</sup> , 2 AWG                                                                                                                                                                                                 |
| III         | Option              | -<br>-MTD-                      | None<br>No disconnection function (only UT 4)                                                                                                                                                                                                                                                                                                                                      |
| IV          | Terminal block      | PE<br>PE/S<br>PE IB             | <u>P</u> rotective <u>E</u> arth, green-yellow colour, with a spring for mounting rail contact<br><u>P</u> rotective <u>E</u> arth, green-yellow colour, with a screwed clamp for mounting rail contact (only UT 4-MTD)<br><u>P</u> rotective <u>E</u> arth, green-yellow colour, with a spring for mounting rail contact and <u>I</u> n <u>B</u> us screw connection (only UT 35) |

#### Pick-off Terminal Blocks

AGK    \*    -    UT    -    \*  
I       II       III       IV

| Designation | Explanation                                   | Value          | Explanation                                                                            |
|-------------|-----------------------------------------------|----------------|----------------------------------------------------------------------------------------|
| I           | Type indicator                                | AGK            | Pick-off terminal block with screw connection                                          |
| II          | Rated cross section                           | 4              | 4 mm <sup>2</sup> , 12 AWG                                                             |
| III         | Type indicator associated terminal block      | UT             | Type indicator associated <u>U</u> niversal <u>T</u> erminal block                     |
| IV          | Rated cross section associated terminal block | 10<br>16<br>35 | 10 mm <sup>2</sup> , 8 AWG<br>16 mm <sup>2</sup> , 6 AWG<br>35 mm <sup>2</sup> , 2 AWG |

#### Plug-in bridge FBS

FBS    \*    -    \*  
I       II       III

| Designation | Explanation                       | Value                         | Explanation                                                                                                                                                                                                                                       |
|-------------|-----------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I           | Type indicator                    | FBS                           | Plug-in-bridge                                                                                                                                                                                                                                    |
| II          | Number of positions               | 2<br>3<br>4<br>5<br>10<br>20  | Amount of contacts;<br>2 contacts (for all series)<br>3 contacts (for UT 2,5; UT 4; UT 6)<br>4 contacts (for UT 2,5; UT 4; UT 6)<br>5 contacts (for UT 2,5; UT 4; UT 6)<br>10 contacts (for UT 2,5; UT 4; UT 6)<br>20 contacts (for UT 2,5; UT 4) |
| III         | Pitch between electrical contacts | 5<br>6<br>8<br>10<br>12<br>16 | 5,2 mm (for UT 2,5)<br>6,2 mm (for UT 4)<br>8,2 mm (for UT 6)<br>10,2 mm (for UT 10)<br>12 mm (for UT 16)<br>16 mm (for UT 35)                                                                                                                    |