

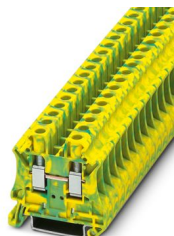
# UT 6-PE - Protective conductor terminal block



3044157

<https://www.phoenixcontact.com/ro/produse/3044157>

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Protective conductor terminal block, number of connections: 2, connection method: Screw connection, cross section: 0.2 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

## Avantaje dumneavoastră

- The large wiring space enables the connection of solid and stranded conductors without ferrules, even above the nominal cross section
- As well as saving space, the compact design enables user-friendly wiring in a small amount of space
- Optimum screwdriver guidance through closed screw shafts
- Tested for railway applications
- The cable entry funnel enables the use of conductors with ferrules and plastic collars within the nominal cross section

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## Date tehnice

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Product family        | UT                    |
| Area of application   | Railway industry      |
|                       | Machine building      |
|                       | Plant engineering     |
|                       | Process industry      |
| Number of connections | 2                     |
| Number of rows        | 1                     |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 1.31 W |

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Number of connections per level | 2                 |
| Nominal cross section           | 6 mm <sup>2</sup> |
| Rated cross section AWG         | 8                 |

### Level 1 above 1 below 1

|                                                                   |                                                                                                                              |
|-------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Screw thread                                                      | M4                                                                                                                           |
| Note                                                              | Please observe the current carrying capacity of the DIN rails.                                                               |
| Tightening torque                                                 | 1.5 ... 1.8 Nm                                                                                                               |
| Stripping length                                                  | 10 mm                                                                                                                        |
| Internal cylindrical gage                                         | A5                                                                                                                           |
| Connection in acc. with standard                                  | IEC 60947-7-2                                                                                                                |
| Conductor cross section rigid                                     | 0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                                                                   |
| Cross section AWG                                                 | 24 ... 6 (converted acc. to IEC)                                                                                             |
| Conductor cross section flexible                                  | 0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                                                                   |
| Conductor cross section, flexible [AWG]                           | 24 ... 8 (converted acc. to IEC)                                                                                             |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>                                                                                    |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>                                                                                    |
| Note                                                              | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |

### Ex data

#### Rated data (ATEX/IECEx)

|                |                         |
|----------------|-------------------------|
| Identification | Ex II 2 GD Ex eb IIC Gb |
|----------------|-------------------------|

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|                             |                         |
|-----------------------------|-------------------------|
| Operating temperature range | -60 °C ... 110 °C       |
| Ex-certified accessories    | 3047028 D-UT 2,5/10     |
|                             | 1205066 SZS 1,0X4,0 VDE |
|                             | 3022276 CLIPFIX 35-5    |
|                             | 3022218 CLIPFIX 35      |
| output                      | (Permanent)             |

## Ex connection data General

|                              |                                            |
|------------------------------|--------------------------------------------|
| Torque range                 | 1.5 Nm ... 1.8 Nm                          |
| Nominal cross section        | 6 mm <sup>2</sup>                          |
| Rated cross section AWG      | 10                                         |
| Connection capacity rigid    | 0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Connection capacity AWG      | 24 ... 8                                   |
| Connection capacity flexible | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>  |
| Connection capacity AWG      | 24 ... 10                                  |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 8.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 47.7 mm |
| Depth              | 46.9 mm |
| Depth on NS 35/7,5 | 47.5 mm |
| Depth on NS 35/15  | 55 mm   |

## Material specifications

|                                                                  |              |
|------------------------------------------------------------------|--------------|
| Color                                                            | green-yellow |
| Flammability rating according to UL 94                           | V0           |
| Insulating material group                                        | I            |
| Insulating material                                              | PA           |
| Static insulating material application in cold                   | -60 °C       |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C       |
| Fire protection for rail vehicles (DIN EN 45545-2) R22           | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R23           | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R24           | HL 1 - HL 3  |
| Fire protection for rail vehicles (DIN EN 45545-2) R26           | HL 1 - HL 3  |
| Surface flammability NFPA 130 (ASTM E 162)                       | passed       |
| Specific optical density of smoke NFPA 130 (ASTM E 662)          | passed       |
| Smoke gas toxicity NFPA 130 (SMP 800C)                           | passed       |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## Environmental and real-life conditions

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## Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2/\text{Hz}$      |
| Acceleration           | 3.12g                                          |
| Test duration per axis | 5 h                                            |
| Test directions        | X-, Y- and Z-axis                              |

## Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Pulse shape                    | Half-sine                         |
| Acceleration                   | 30g                               |
| Shock duration                 | 18 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |

## Ambient conditions

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)                                                    |
| Ambient temperature (assembly)           | -5 °C ... 70 °C                                                                                                              |
| Ambient temperature (actuation)          | -5 °C ... 70 °C                                                                                                              |
| Permissible humidity (operation)         | 20 % ... 90 %                                                                                                                |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                                                                                |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-2 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

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