

# MUT 1,5-PE - Mini protective conductor terminal block



3248027

<https://www.phoenixcontact.com/us/products/3248027>

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Mini protective conductor terminal block, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 15, color: green-yellow

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3248027       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE01          |
| Product key                          | BE1161        |
| GTIN                                 | 4046356817561 |
| Weight per piece (including packing) | 2.924 g       |
| Weight per piece (excluding packing) | 2.924 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Number of positions   | 1                     |
| Number of connections | 2                     |
| Number of rows        | 1                     |

### Insulation characteristics

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

### Electrical properties

|   |      |
|---|------|
| Rated surge voltage                             | 4 kV |
| Maximum power dissipation for nominal condition | 0 W  |

### Connection data

|   |  |
|---|--|
| Grounding foot  | Yes  |
| Number of connections per level                                   | 2  |
| Nominal cross section   | 1.5 mm <sup>2</sup>  |
| Rated cross section AWG   | 16   |
| Connection method   | Screw connection   |
| Screw thread  | M2   |
| Note  | Please observe the current carrying capacity of the DIN rails. |
| Tightening torque   | 0.22 ... 0.25 Nm   |
| Stripping length  | 6 mm ... 7 mm  |
| Internal cylindrical gage   | A1   |
| Conductor cross-section rigid                                     | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                   |
| Cross section AWG   | 26 ... 16 (converted acc. to IEC)                              |
| Conductor cross-section flexible                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                   |
| Conductor cross-section, flexible [AWG]                           | 26 ... 16 (converted acc. to IEC)                              |
| Conductor cross-section flexible ultrasound-compressed            | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                   |
| Conductor cross-section, flexible [AWG] ultrasound-compressed     | 22 ... 16 (converted acc. to IEC)                              |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>                  |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>                  |
| Nominal cross section   | 1.5 mm <sup>2</sup>  |

### Dimensions

|                 |         |
|-----------------|---------|
| Width           | 3.5 mm  |
| End cover width | 0.8 mm  |
| Height          | 23.9 mm |
| Depth           | 23.3 mm |
| Depth on NS 15  | 24 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

### 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 (m/s <sup>2</sup> ) <sup>2</sup> /Hz      |
| Acceleration           | 3.12g  |
| Test duration per axis | 5 h  |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2018-05 |
| 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.)   |
| Result                         | Test passed                         |

### 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)  |

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|  |                 |
|--|-----------------|
| 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 %   |

## Mounting

|               |       |
|---------------|-------|
| Mounting type | NS 15 |
|---------------|-------|

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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3248027>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| <b>B</b>   |                       |                       |                   |                      |
| Only flexible conductors   | -                     | -                     | 26 - 16           | -                    |
| Only rigid conductors  | -                     | -                     | 26 - 14           | -                    |
| <b>D</b>   |                       |                       |                   |                      |
| Only flexible conductors   | -                     | -                     | 26 - 16           | -                    |
| Only rigid conductors  | -                     | -                     | 26 - 14           | -                    |

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| <b>B</b>   |                       |                       |                   |                      |
|  | -                     | -                     | 26 - 16           | -                    |
| Only rigid conductors  | -                     | -                     | - 14              | -                    |
| <b>F</b>   |                       |                       |                   |                      |
|  | -                     | -                     | 26 - 16           | -                    |
| Only rigid conductors  | -                     | -                     | - 14              | -                    |
| <b>D</b>   |                       |                       |                   |                      |
|  | -                     | -                     | 26 - 16           | -                    |
| Only rigid conductors  | -                     | -                     | - 14              | -                    |

| <b>DNV</b><br>Approval ID: TAE00003J4 |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250103 |
| ECLASS-15.0 | 27250103 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000901 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.019 kg CO2e |
|---------|---------------|

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