

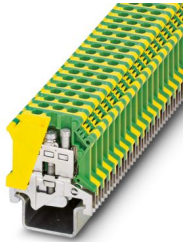
# USLKG 10-1 - Ground terminal



0442024

<https://www.phoenixcontact.com/sg/products/0442024>

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Ground terminal block with screw connection, cross section: 0.5 ... 6 mm<sup>2</sup>, AWG: 20 ... 8, width: 8.2 mm, color: green...yellow

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 0442024       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 1 pc          |
| Sales key                            | 0102*         |
| Product key                          | BE1221        |
| GTIN                                 | 4017918002244 |
| Weight per piece (including packing) | 29.69 g       |
| Weight per piece (excluding packing) | 28.848 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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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 | III |
| Degree of pollution  | 3   |

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 1.82 W |

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 2                  |
| Nominal cross section           | 10 mm <sup>2</sup> |

### 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                                     | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                     |
| Cross section AWG   | 20 ... 8 (converted acc. to IEC)                               |
| Conductor cross section flexible                                  | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>                      |
| Conductor cross section, flexible [AWG]                           | 20 ... 10 (converted acc. to IEC)                              |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>                      |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>                      |
| Nominal cross section   | 10 mm <sup>2</sup>   |
| Connection in acc. with standard                                  | UL   |
| Cross section AWG   | 26 ... 4 (converted acc. to IEC)                               |
| Connection in acc. with standard                                  | CSA  |
| Cross section AWG   | 26 ... 8 (converted acc. to IEC)                               |
| Connection in acc. with standard                                  | CUL  |
| Cross section AWG   | 26 ... 8 (converted acc. to IEC)                               |

### Dimensions

|        |         |
|--------|---------|
| Width  | 8.2 mm  |
| Height | 42.5 mm |

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|                    |         |
|--------------------|---------|
| Depth on NS 32     | 52 mm   |
| Depth on NS 35/7,5 | 47 mm   |
| Depth on NS 35/15  | 54.5 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       |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °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  |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 27,5 MJ/kg   |
| 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 | No |
|-----------------|----|

## Environmental and real-life conditions

### 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 |
|                                  | UL            |
|                                  | CSA           |
|                                  | CUL           |

## Mounting

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|               |              |
|---------------|--------------|
| Mounting type | NS 35/15-2,3 |
|---------------|--------------|

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/sg/products/0442024>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | -                     | -                     | 26 - 8            | -                           |

|  <b>EAC</b><br>Approval ID: EACKZ 08593 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B  | -                     | -                     | 20 - 8            | -                           |
| Use group C  | -                     | -                     | 20 - 8            | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141141 |
| ECLASS-13.0 | 27250103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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% |
|-------------------------------------|----------------------------|

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