

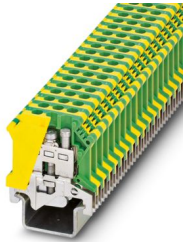
# USLKG 10-1 - Protective conductor terminal block



0442024

<https://www.phoenixcontact.com/us/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                            | BE12          |
| 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            |

## 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

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

### Level 1 above 1 below 1

|                                                                   |                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------|
| Connection method                                                 | Screw connection                                               |
| 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

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

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## Mounting

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

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## Classifications

### ECLASS

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

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.133 kg CO2e |
|---------|---------------|

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