

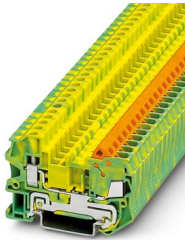
# QTCU 2,5-PE - Protective conductor terminal block



3206555

<https://www.phoenixcontact.com/us/products/3206555>

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Protective conductor terminal block, connection method: Quick connection, cross section: 0.5 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, connection method: Screw connection, cross section: 0.14 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting: NS 35/7,5, NS 35/15, color: green-yellow

## Your advantages

- Same shape and pitch as the feed-through terminal blocks
- Contact is made free from mechanical and electrical errors by simply snapping onto the DIN rail
- All the requirements of standard IEC 60947-7-2 are met

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3206555       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE03          |
| Product key                          | BE3129        |
| GTIN                                 | 4046356057738 |
| Weight per piece (including packing) | 14.09 g       |
| Weight per piece (excluding packing) | 14.09 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| 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 | 0.77 W |

### Connection data

|   |  |
|---|--|
| Grounding foot  | Yes  |
| Number of connections per level                                   | 2  |
| Frequency of connections with the same cross section              | 100  |
| Nominal cross section   | 2.5 mm <sup>2</sup>  |
| Connection method   | Quick connection   |
| Note  | Please observe the current carrying capacity of the DIN rails. |
| Material wire insulation  | PVC / PE   |
| Connection in acc. with standard                                  | IEC 60947-7-2  |
| Conductor cross-section rigid                                     | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                    |
| Cross section AWG   | 20 ... 14 (converted acc. to IEC)                              |
| Conductor cross-section flexible                                  | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                    |
| Conductor cross-section, flexible [AWG]                           | 20 ... 14 (converted acc. to IEC)                              |
| Connection method   | Screw connection   |
| Screw thread  | M3   |
| Tightening torque   | 0.6 ... 0.8 Nm   |
| Stripping length  | 9 mm   |
| Connection in acc. with standard                                  | IEC 60947-7-2  |
| Conductor cross-section rigid                                     | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup>                     |
| Cross section AWG   | 26 ... 10 (converted acc. to IEC)                              |
| Conductor cross-section flexible                                  | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                     |

### Ex data

#### Rated data (ATEX/IECEx)

|                             |                        |
|-----------------------------|------------------------|
| Identification              | Ⓜ II 2 GD Ex eb IIC Gb |
| Operating temperature range | -45 °C ... 90 °C       |

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|                          |                       |
|--------------------------|-----------------------|
| Ex-certified accessories | 3206597 D-QTCU 2,5    |
|                          | 1204517 SZF 1-0,6X3,5 |
|                          | 3022276 CLIPFIX 35-5  |
|                          | 3022218 CLIPFIX 35    |
| output                   | (Permanent)           |

## Ex connection data Fast connection

|  |   |
|--|---|
| Nominal cross section                                | 2.5 mm <sup>2</sup>                         |
| Rated cross section AWG                              | 14  |
| Connection capacity rigid                            | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection capacity AWG                              | 20 ... 14                                   |
| Connection capacity flexible                         | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection capacity AWG                              | 20 ... 14                                   |
| Frequency of connections with the same cross section | 100   |

## Ex connection data Screw connection

|                              |  |
|------------------------------|--|
| Stripping length             | 9 mm                                       |
| Torque range                 | 0.6 Nm ... 0.8 Nm                          |
| Nominal cross section        | 2.5 mm <sup>2</sup>                        |
| Rated cross section AWG      | 14   |
| Connection capacity rigid    | 0.14 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Connection capacity AWG      | 26 ... 10                                  |
| Connection capacity flexible | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Connection capacity AWG      | 26 ... 12                                  |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 62.6 mm |
| Depth on NS 35/7,5 | 42.8 mm |
| Depth on NS 35/15  | 50.3 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       |

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|  |        |
|--|--------|
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |
|--|--------|

## Cable/line

|                                |        |
|--------------------------------|--------|
| Wire diameter incl. insulation | 3.8 mm |
|--------------------------------|--------|

## Mechanical properties

### Mechanical data

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

## 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 |
|                                  | IEC 60947-7-2 |

## Mounting

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

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## Drawings

Circuit diagram



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## Classifications

### ECLASS

ECLASS-13.0

27250202

### 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  |
| Exemption                               | 6(c) |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 38eb3510-ac39-409f-b020-0ffb2579ebf4 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.071 kg CO2e |
|---------|---------------|

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