

# UK 5-TWIN RD - Feed-through terminal block



1923157

<https://www.phoenixcontact.com/us/products/1923157>

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1-level terminal block with double connection on one side, cross section: 0.2 - 4 mm<sup>2</sup>, AWG: 24 - 12, width: 6.2 mm, color: Red

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1923157                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BE12                           |
| Product key                          | BE1212                         |
| GTIN                                 | 4017918203771                  |
| Weight per piece (including packing) | 12.779 g                       |
| Weight per piece (excluding packing) | 12.35 g                        |
| Customs tariff number                | 85369010                       |
| Country of origin                    | CN                             |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Multi-conductor terminal block |
| Number of positions   | 1                              |
| Number of connections | 3                              |
| Number of rows        | 2                              |
| Potentials            | 1                              |

### Insulation characteristics

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

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 1.02 W |

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Number of connections per level | 3                 |
| Nominal cross section           | 4 mm <sup>2</sup> |

#### 1 level

|   |   |
|---|---|
| Connection method   | Screw connection  |
| Screw thread  | M3  |
| Tightening torque   | 0.6 ... 0.8 Nm  |
| Stripping length  | 8 mm  |
| Internal cylindrical gage   | A4  |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Conductor cross-section rigid   | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                 |
| Cross section AWG   | 24 ... 12 (converted acc. to IEC)   |
| Conductor cross-section flexible  | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                 |
| Conductor cross-section, flexible [AWG]   | 24 ... 12 (converted acc. to IEC)   |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                              |
| Cross-section with insertion bridge, rigid  | 4 mm <sup>2</sup>   |
| Cross-section with insertion bridge, flexible   | 4 mm <sup>2</sup>   |
| 2 conductors with same cross section, rigid   | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                               |
| 2 conductors with same cross section, flexible  | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                               |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                              |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>                               |
| Nominal cross section   | 4 mm <sup>2</sup>   |
| Nominal current   | 32 A (with 4 mm <sup>2</sup> conductor cross-section)                     |
| Maximum load current  | 32 A (in case of a 4 mm <sup>2</sup> conductor cross-section, the maximum |

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|                 |  |
|-----------------|--|
|                 | load current must not be exceeded by the total current of all connected conductors.) |
| Nominal voltage | 500 V (With tightened clamping screws)   |

## Ex data

### Rated data (ATEX/IECEX)

|                             |                                       |
|-----------------------------|---------------------------------------|
| Identification              | Ⓔ II 2 G Ex eb IIC Gb                 |
| Operating temperature range | -50 °C ... 110 °C                     |
| Ex-certified accessories    | 1923034 D-UK 5-TWIN                   |
|                             | 9911501 UK 5-TWIN DECKELSEGMENTGY7042 |
|                             | 1205053 SZS 0,6X3,5                   |
| Ex temperature increase     | 33 K (32 A / 4 mm <sup>2</sup> )      |
| Rated insulation voltage    | 250 V                                 |
| output                      | (Permanent)                           |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 275 V   |
| Rated current        | 32 A    |
| Maximum load current | 32 A    |
| Contact resistance   | 0.34 mΩ |

### Ex connection data General

|   |   |
|---|---|
| Stripping length                                      | 8 mm  |
| Torque range  | 0.6 Nm ... 0.8 Nm                           |
| Nominal cross section                                 | 4 mm <sup>2</sup>                           |
| Rated cross section AWG                               | 12  |
| Connection capacity rigid                             | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Connection capacity AWG                               | 24 ... 12                                   |
| Connection capacity flexible                          | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Connection capacity AWG                               | 24 ... 12                                   |
| 2 conductors with same cross section, solid           | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG rigid    | 24 ... 16                                   |
| 2 conductors with same cross section, stranded        | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| 2 conductors with the same cross-section AWG flexible | 24 ... 16                                   |

## Dimensions

|                 |        |
|-----------------|--------|
| Width           | 6.2 mm |
| End cover width | 2 mm   |

## Material specifications

|  |                |
|--|----------------|
| Color                                  | red (RAL 3001) |
| Flammability rating according to UL 94 | V2             |
| Insulating material group              | I              |
| Insulating material                    | PA             |

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## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 7.3 kV      |
| Result                | Test passed |

### Temperature-rise test

|  |                                     |
|--|-------------------------------------|
| Requirement temperature-rise test                    | Increase in temperature $\leq 45$ K |
| Result   | Test passed                         |
|  | Test passed                         |
| Short-time withstand current 4000000 mm <sup>2</sup> | 0.00048 kA                          |
| Result   | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 1.89 kV     |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint     | 1 N         |
| Result                  | Test passed |

### Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 (+/- 2) rpm               |
| Revolutions                    | 135                          |
| Conductor cross-section/weight | 0.2 mm <sup>2</sup> / 0.2 kg |
|                                | 1.5 mm <sup>2</sup> / 0.4 kg |
|                                | 4 mm <sup>2</sup> / 0.9 kg   |
| Result                         | Test passed                  |

## Environmental and real-life conditions

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|               |                                     |
|---------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2018-05 |
|---------------|-------------------------------------|

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## Ambient conditions

|  |   |
|--|---|
| Ambient temperature (operation)          | -60 °C ... 105 °C (max. short-term operating temperature 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 (storage/transport) | 30 % ... 70 %   |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |
|               | NS 32     |

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## Drawings

Circuit diagram



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## Classifications

### 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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