

# Master cable - RCK-TWUM/BL12/ 5,0PUR-U - 1684030


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M23 socket, angled, 12-pos., with 5 m master cable, pin 9 and 10 bridged



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 STK   |
| GTIN         | <br>4 017918 172084 |
| GTIN         | 4017918172084   |
| Sales Key    | 02  |

## Technical data

### General

|                                   |  |
|-----------------------------------|--|
| Rated voltage                     | 48 V AC<br>60 V DC   |
| Number of positions               | 12   |
| Sensor/actuator connection system | M12 socket   |
| Note                              | The master cable is earmarked for use on the sensor/actuator boxes with an M23 plug-in connection. |

### Ambient conditions

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Degree of protection            | IP65<br>IP67                      |
| Ambient temperature (operation) | -40 °C ... 125 °C (Plug / socket) |

### Master cable data/connection data

|                   |                     |
|-------------------|---------------------|
| Connection method | M23 plug connection |
| Length of cable   | 5 m                 |

### Insulation material

|  |          |
|--|----------|
| Housing material                       | PUR      |
| Material of contact, master cable side | CU alloy |

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## Technical data

### Insulation material

|  |             |
|--|-------------|
| Material of contact surface, master cable side           | Gold-plated |
| Material of the contact carrier on the master cable side | PA          |

### Connection assignment

|                                       |                            |
|---------------------------------------|----------------------------|
| Slot/position = pin = conductor color | 1 / 4 (A) = 1 = WH         |
|                                       | 2 / 4 (A) = 2 = GN         |
|                                       | 3 / 4 (A) = 3 = YE         |
|                                       | 4 / 4 (A) = 4 = GY         |
|                                       | 5 / 4 (A) = 5 = PK         |
|                                       | 6 / 4 (A) = 6 = RD         |
|                                       | 7 / 4 (A) = 7 = BK         |
|                                       | 8 / 4 (A) = 8 = VT         |
|                                       | 1-8 / 1 (+ 48 V) = 11 = BN |
|                                       | 1-8 / 3 (0 V) = 9+10 = BU  |
|                                       | 1-8 / 5 (PE) = 12 = GN/YE  |

### Cable

|   |   |
|---|---|
| Cable type                                      | PUR/PVC black   |
| Cable type (abbreviation)                       | PUR   |
| Cable abbreviation                              | LiYY11Y-HF  |
| UL AWM style                                    | 20549 (80°C/300 V)  |
| Conductor cross section                         | 8x 0.34 mm <sup>2</sup> (Signal line)   |
|   | 3x 0.75 mm <sup>2</sup> (power line)  |
| AWG signal line                                 | 22  |
| AWG power supply                                | 18  |
| Conductor structure signal line                 | 19x 0.15 mm   |
| Conductor structure, voltage supply             | 42x 0.15 mm   |
| Core diameter including insulation              | 1.3 mm ±0.1 mm (Signal line)  |
|   | 1.8 mm ±0.1 mm (power line)   |
| Wire colors                                     | brown, blue, green/yellow, white, green, yellow, gray, pink, red, black, violet |
| Overall twist                                   | Wires twisted in layers   |
| External sheath, color                          | black RAL 9005  |
| Inner sheath thickness                          | ≥ 0.15 mm   |
| Outer sheath thickness                          | ≥ 0.38 mm   |
| External cable diameter D                       | 8.5 mm ±0.2 mm  |
| Minimum bending radius, fixed installation      | 7.5 x D   |
| Minimum bending radius, flexible installation   | 10 x D  |
| Number of bending cycles                        | 1500000   |
| Minimum bending radius, drag chain applications | 10 x D  |
| Traversing path                                 | 2 m   |
| Traversing rate                                 | 2 m/s   |

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## Technical data

### Cable

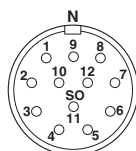
|                                 |  |
|---------------------------------|--|
| Cable weight                    | 107.4 kg/km  |
| Outer sheath, material          | PUR  |
| Material, inner sheath          | PVC  |
| Material conductor insulation   | PVC  |
| Conductor material              | Bare Cu litz wires   |
| Nominal voltage, cable          | 300 V  |
| Test voltage, cable             | 2000 V   |
| Special properties              | Silicone-free  |
| Flame resistance                | DIN EN 50265   |
| Resistance to oil               | according to VDE 0472 Part 803                             |
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation)               |
|                                 | -5 °C ... 80 °C (cable, flexible installation)             |

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Schematic diagram



Pin assignment M23 socket, 12-pos., female side view

Cable cross section



PUR/PVC black [PUR]

## Approvals

### Approvals

Approvals

EAC

Ex Approvals

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### Approvals

#### Approval details

|     |   |         |
|-----|---|---------|
| EAC |  | B.00767 |
|-----|---|---------|

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