

# RCK-TWUM/BL12/10,0PUR-UX - Master cable



1260755

<https://www.phoenixcontact.com/in/products/1260755>

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Master cable, application: Sensor/actuator box, number of positions: 12, slot assignment: single, status display: No; master cable connection: M23 plug connection, PUR/PVC, cable length: 10 m, shielding: no, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1260755                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | *****                          |
| Product key                          | ABRDCB                         |
| GTIN                                 | 4063151414559                  |
| Weight per piece (including packing) | 1,162.3 g                      |
| Weight per piece (excluding packing) | 1,162.3 g                      |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

## Technical data

### Notes

|                    |  |
|--------------------|--|
| Notes on operation | The master cable is earmarked for use on the sensor/actuator boxes with an M23 plug-in connection. |
|--------------------|--|

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Master cable, assembled |
| Application         | Sensor/actuator box     |
| Number of positions | 12                      |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 48 V AC |
|                       | 60 V DC |

### Connection data

|                   |                  |
|-------------------|------------------|
| Connection method | Fixed connection |
|-------------------|------------------|

### Signaling

|                        |    |
|------------------------|----|
| Status display present | No |
|------------------------|----|

### Material specifications

|  |             |
|--|-------------|
| Material Housing   | PUR         |
| Material of contact, master cable side                   | CU alloy    |
| Material of the contact carrier on the master cable side | PA          |
| Material of contact surface, master cable side           | gold-plated |

### Connector

#### Connection 1

|                   |        |
|-------------------|--------|
| Head design       | Socket |
| Head cable outlet | angled |
| Head thread type  | M23    |

#### Connection 2

|             |                |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

### Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|


PUR/PVC black [PUR]

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|   |  |
|---|--|
| Dimensional drawing                           |                  |
| Cable weight                                  | 107.4 kg/km  |
| UL AWM Style                                  | 20549 (80°C/300 V)   |
| Number of positions                           | 11   |
| Shielded                                      | no   |
| Cable type                                    | PUR/PVC black [PUR]  |
| Conductor structure signal line               | 19x 0.15 mm  |
| AWG signal line                               | 22   |
| Conductor structure, voltage supply           | 42x 0.15 mm  |
| AWG power supply                              | 18   |
| Conductor cross section                       | 8x 0.34 mm <sup>2</sup> (Signal line)<br>3x 0.75 mm <sup>2</sup> (power line)                      |
| Wire diameter incl. insulation                | 1.3 mm ±0.1 mm (Signal line)<br>1.8 mm ±0.1 mm (power line)  |
| External cable diameter                       | 8.50 mm ±0.2 mm  |
| Outer sheath, material                        | PUR  |
| External sheath, color                        | black RAL 9005   |
| Conductor material                            | Bare Cu litz wires   |
| Material wire insulation                      | PVC  |
| Single wire, color                            | brown, blue, green/yellow, white, green, yellow, gray, pink, red, black, violet                    |
| Inner sheath thickness                        | ≥ 0.15 mm  |
| Thickness, outer sheath                       | ≥ 0.38 mm  |
| Overall twist                                 | Wires twisted in layers  |
| Max. conductor resistance                     | ≤ 53 Ω/km (Signal line)<br>≤ 26 Ω/km (power line)  |
| Insulation resistance                         | ≥ 5 MΩ*km  |
| Nominal voltage, cable                        | 300 V AC   |
| Test voltage Core/Core                        | 2000 V (50 Hz, 5 min.)   |
| Minimum bending radius, fixed installation    | 7.5 x D  |
| Minimum bending radius, flexible installation | 10 x D   |
| Smallest bending radius, fixed installation   | 64 mm  |
| Smallest bending radius, movable installation | 85 mm  |
| Dynamic load capacity (bending)               | Max. bending cycles: 1500000, Bending radius: 10 x D, Traversing path: 2 m, Traversing rate: 2 m/s |
| Flame resistance                              | DIN EN 50265   |
| Resistance to oil                             | according to VDE 0472 Part 803   |

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|                                 |  |
|---------------------------------|--|
| Other resistance                | Highly resistant to acids, alkaline solutions and solvents |
| Special properties              | Silicone-free  |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation)               |
|                                 | -5 °C ... 80 °C (Cable, flexible installation)             |

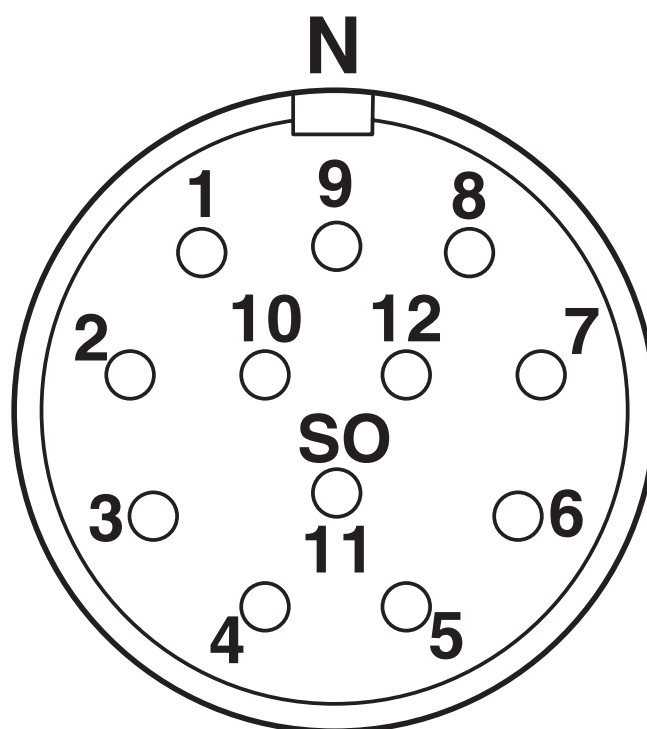
## Environmental and real-life conditions

### Ambient conditions

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

## Drawings

Schematic diagram



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

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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1260755>



**EAC**

Approval ID: 19060508

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060311 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

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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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## Accessories

### PROT-M23-SG-IT-IP20 - Plastic protective cap

1577206

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Plastic protective cap, M23, series: CA, RC, RF, UC, RM



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