

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



1684030

<https://www.phoenixcontact.com/us/products/1684030>

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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: 5 m, shielding: no, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1684030 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB34 |
| Product key | ABRDCB |
| GTIN | 4017918172084 |
| Weight per piece (including packing) | 620 g |
| Weight per piece (excluding packing) | 590.764 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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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 | 5 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 ² (Signal line) 3x 0.75 mm ² (power line) |
| Wire diameter incl. insulation | 1.3 mm ±0.1 mm (Signal line) 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) ≤ 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) |

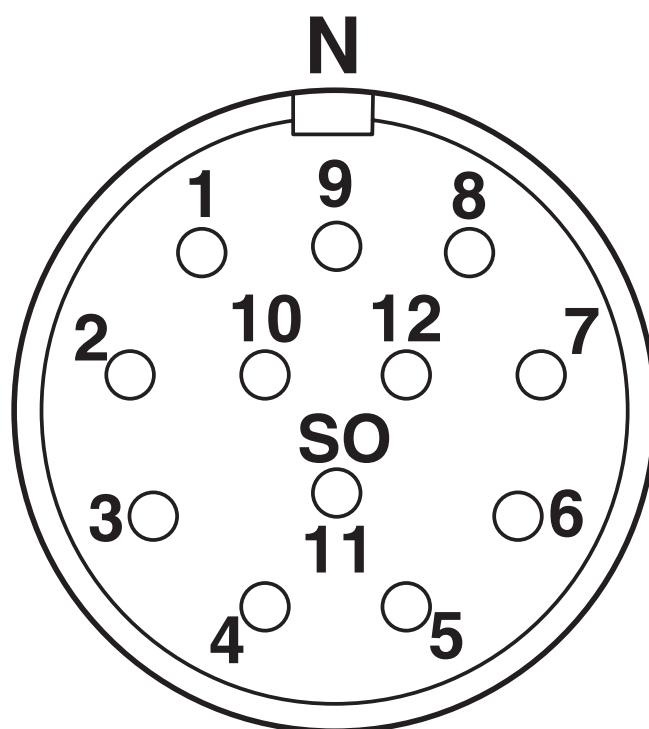
Environmental and real-life conditions

Ambient conditions

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

Drawings

Schematic diagram



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

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Approvals

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EAC

Approval ID: 19060508

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001855 |
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UNSPSC

| | |
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| UNSPSC 21.0 | 26121600 |
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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 | b974fa06-7eaf-4efa-a498-b26c24d314ea |

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