

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 pc |
| GTIN | |
| GTIN | 4017918172084 |
| Sales Key | 02 |

Technical data

General

| | |
|-----------------------------------|--|
| Rated voltage | 48 V AC 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 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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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 ² (Signal line) |
| | 3x 0.75 mm ² (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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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 |
| Insulation resistance | ≥ 5 MΩ*km |
| Conductor resistance | ≤ 53 Ω/km (Signal line) |
| | ≤ 26 Ω/km (power line) |
| Nominal voltage, cable | 300 V AC |
| Test voltage Core/Core | 2000 V (50 Hz, 5 min.) |
| 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) |

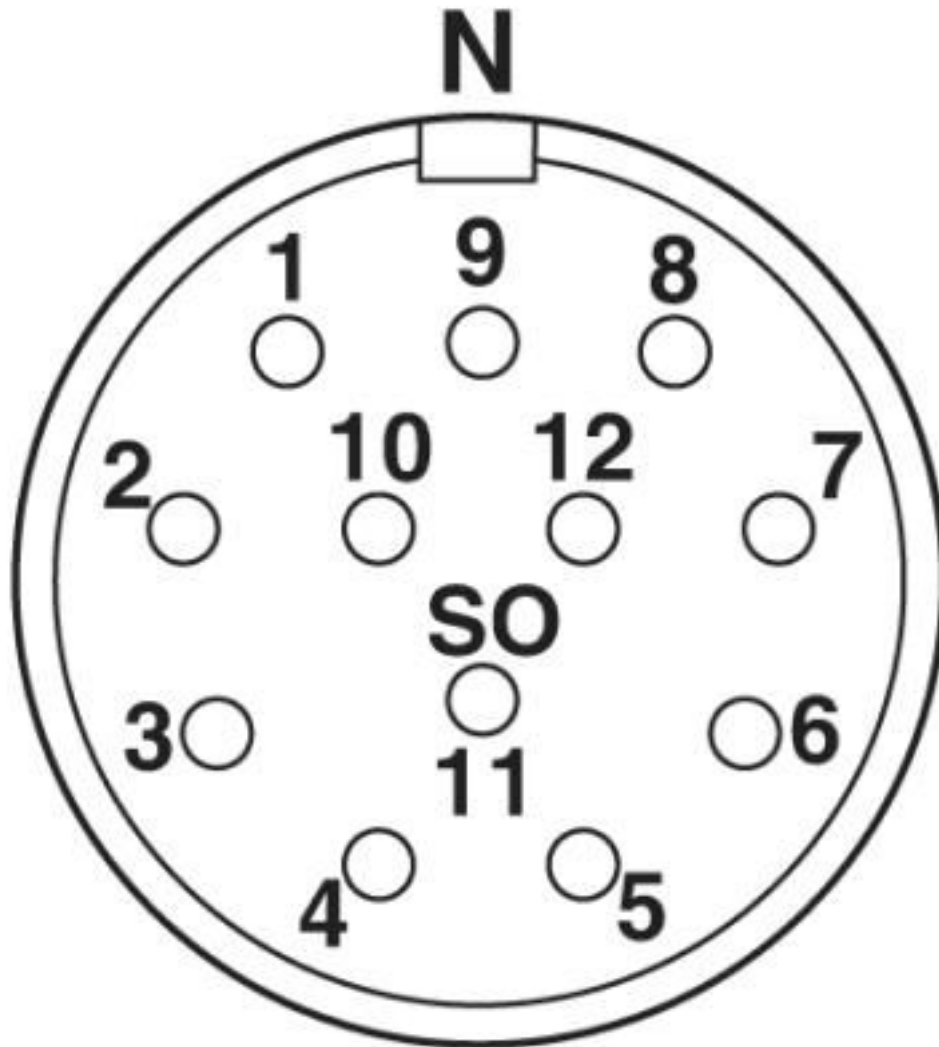
Environmental Product Compliance

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

Drawings

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

Schematic diagram



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

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Cable cross section



PUR/PVC black [PUR]

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27060311 |
| eCl@ss 4.0 | 27060300 |
| eCl@ss 4.1 | 27060300 |
| eCl@ss 5.0 | 27061800 |
| eCl@ss 5.1 | 27061800 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC000104 |
| ETIM 3.0 | EC000104 |
| ETIM 4.0 | EC000104 |
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |
| UNSPSC 19.0 | 31251501 |
| UNSPSC 20.0 | 31251501 |
| UNSPSC 21.0 | 31251501 |

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

| | | |
|-----|---|----------|
| EAC |  | 19060508 |
|-----|---|----------|

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