

KC-0161ZE451025 - Master cable



1591241

<https://www.phoenixcontact.com/us/products/1591241>

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Master cable, application: Sensor/actuator box Plastic, number of positions: 19, slot assignment: Double, status display: no; master cable connection: M23 plug connection, PUR/PVC, cable length: 25 m, shielding: no

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1591241 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | ABRDCB |
| GTIN | 4046356188944 |
| Weight per piece (including packing) | 44.72 g |
| Weight per piece (excluding packing) | 44.72 g |
| 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 | 19 |

Electrical properties

| | |
|-----------------------|-------|
| Nominal voltage U_N | 150 V |
|-----------------------|-------|

Connection data

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

Signaling

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|------------------------|----|
| Status display present | no |
|------------------------|----|

Material specifications

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|--|-------------|
| 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

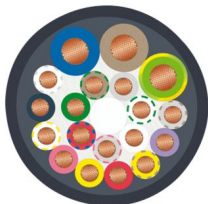
Connection 2

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

Cable/line

| | |
|--------------|------|
| Cable length | 25 m |
|--------------|------|

PUR/PVC black [PUR]

| | |
|---------------------|--|
| Dimensional drawing |  |
|---------------------|--|

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| | |
|---|--|
| Cable weight | 183.7 kg/km |
| UL AWM Style | 20549 (80°C/300 V) |
| Number of positions | 19 |
| Shielded | no |
| Cable type | PUR/PVC black [PUR] |
| Conductor structure signal line | 28x 0.15 mm |
| AWG signal line | 20 |
| Conductor structure, voltage supply | 56x 0.15 mm |
| AWG power supply | 17 |
| Conductor cross-section | 16x 0.5 mm ² (Signal line) 3x 1 mm ² (power line) |
| Wire diameter incl. insulation | 1.5 mm ±0.1 mm (Signal line) 2.1 mm ±0.1 mm (power line) |
| External cable diameter | 10.50 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, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/gray, gray/brown |
| Inner sheath thickness | ≥ 0.15 mm |
| Thickness, outer sheath | ≥ 0.76 mm |
| Overall twist | Wires twisted in layers |
| Nominal voltage, cable | 300 V |
| Test voltage | 2000 V |
| Minimum bending radius, fixed installation | 7.5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 79 mm |
| Smallest bending radius, movable installation | 105 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 | according to DIN EN 50265 |
| Resistance to oil | according to VDE 0472 Part 803 |
| 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) |

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Drawings

Schematic diagram



Pin assignment M23 socket, 19-pos., female side view

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Environmental product compliance

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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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