# SAC-2P- 5,0-PUR/SUSFS - Sensor/actuator cable

1410750

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Sensor/actuator cable, 2-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight Superseal Clip locking, coding: A, cable length: 5 m

## Commercial data

| | |
|---|---|
| Item number | 1410750 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF08 |
| Product key | AF1DWA |
| GTIN | 4046356924382 |
| Weight per piece (including packing) | 176.6 g |
| Weight per piece (excluding packing) | 172.9 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Sensor/actuator cable |
| Application | Mobile hydraulics |
| Number of positions | 2 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |

## Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | HB |
| Seal material | Silicon |
| Material of grip body | TPU |
| Contact material | PhCuSn |
| Contact surface material | nickel-plated |
| Contact carrier material | PA 6.6 |
| Material for screw connection | not available |

## Electrical properties

| | |
|---|---|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 24 V AC |
| | 24 V DC |
| Nominal current $I_N$ | 8 A |

## Signaling

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

## Connector

Connection 1

| | |
|---|---|
| Type | free cable end |

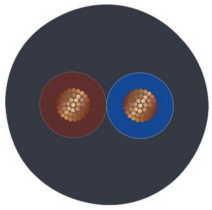
Connection 2

| | |
|---|---|
| Type | Socket straight Superseal Clip locking |
| Number of positions | 2 |
| Locking type | Clip locking |
| Coding type | A |

## Cable/line

| | |
|---|---|
| Cable length | 5 m |

PUR halogen-free black [PUR]

| | |
|---|---|
| Dimensional drawing |  |
| Cable weight | 33 kg/km |
| UL AWM Style | 20549 / 10493 (80°C/300 V) |
| Number of positions | 2 |
| Shielded | no |
| Cable type | PUR halogen-free black [PUR] |
| Conductor structure signal line | 42x 0.15 mm |
| AWG signal line | 18 |
| Conductor cross-section | 2x 0.75 mm² (Signal line) |
| Wire diameter incl. insulation | 1.69 mm ±0.05 mm (Signal line) |
| External cable diameter | 4.80 mm ±0.15 mm |
| Outer sheath, material | PUR |
| External sheath, color | black-gray RAL 7021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | brown, blue |
| Thickness, insulation | ≥ 0.21 mm |
| Thickness, outer sheath | ≥ 0.38 mm |
| Overall twist | 2 wires, twisted |
| Max. conductor resistance | ≤ 26 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 1 GΩ*km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage | ≥ 3000 V AC (Spark test) |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 24 mm |
| Smallest bending radius, movable installation | 48 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 4000000, Bending radius: 48 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s² |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| | in accordance with DIN EN 50267-2-1 |
| Flame resistance | according to UL 758/1581 (horizontal) |
| | in accordance with UL 758/1581 FT2 |
| | according to DIN EN 60332-2-2 |
| Resistance to oil | According to DIN EN 60811-2-1, 168 h at 100°C |
| | according to UL 758, 168 h at 60 °C |

| | |
|---|---|
| Other resistance | hydrolysis and microbe resistant |
| | partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) |
| | Low adhesion |
| | abrasion-resistant |
| Special properties | flexible |
| | Flexible cable conduit capable |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -25 °C ... 80 °C (Cable, flexible installation) |

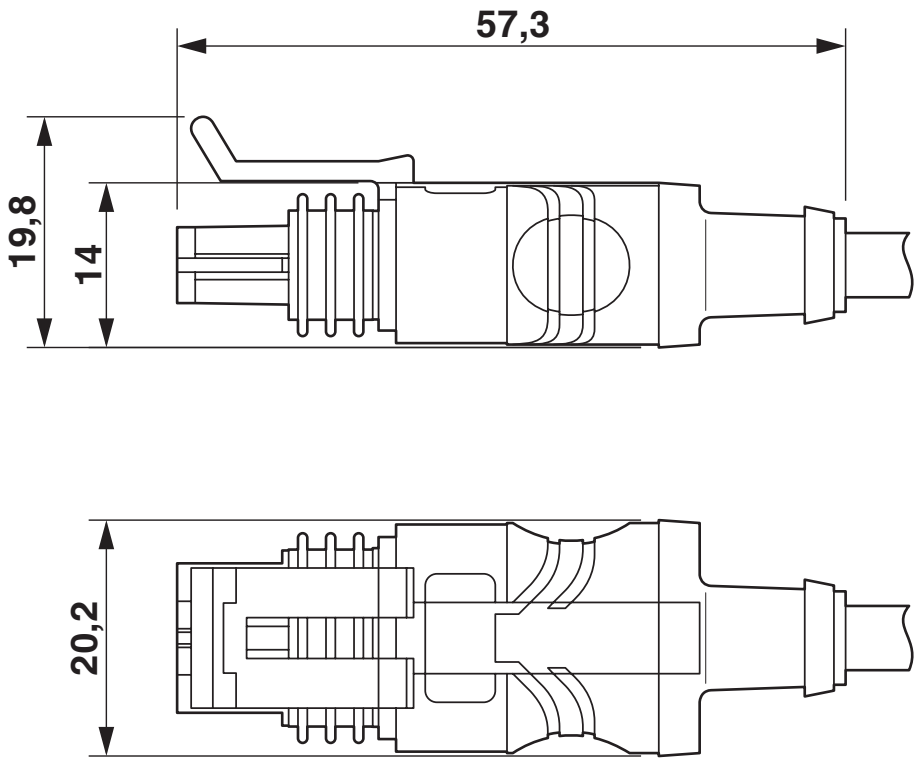
## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP67 |
| | IP69K |
| Ambient temperature (operation) (male connector/female connector) | -20 °C ... 85 °C (Superseal) |

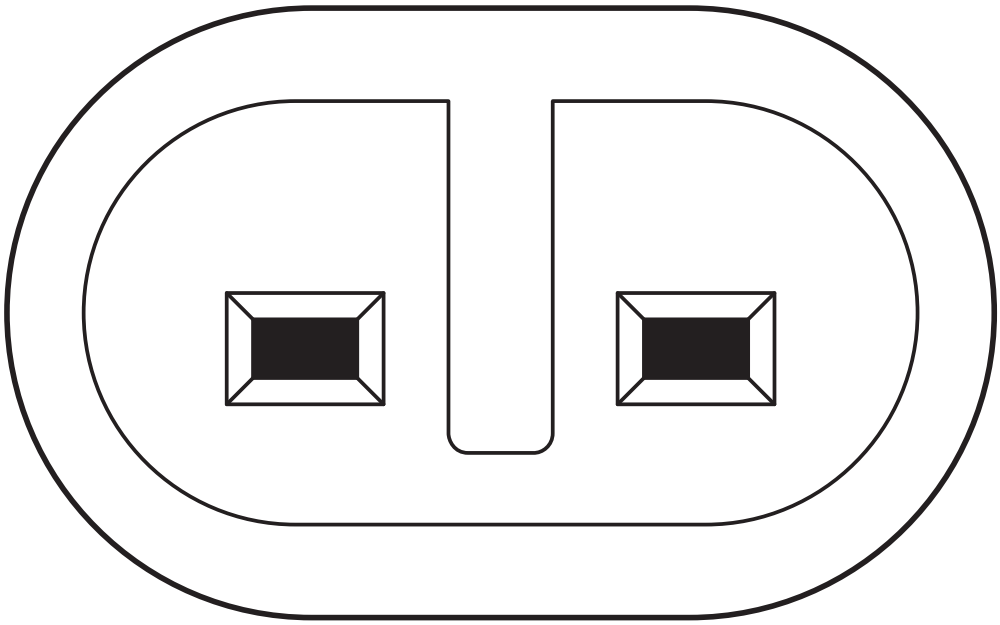
## Drawings

Dimensional drawing



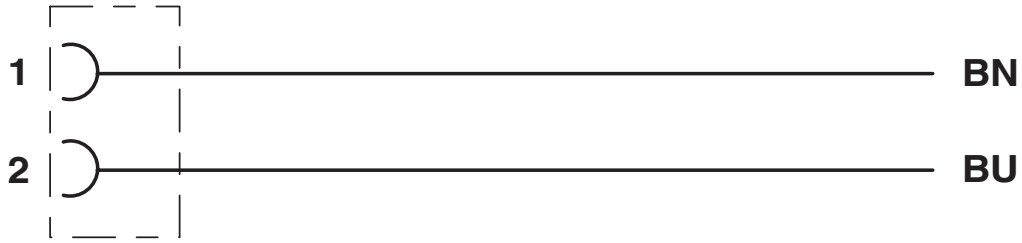

Superseal, socket, view from above and side

Schematic diagram



Super seal socket pin assignment, 2-pos.

Circuit diagram




Contact assignment of the super seal socket

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1410750

**EAC-RoHS**
Approval ID: RU D-DE.HB35.B.00387

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 26121600 |

## 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.334 kg CO2e |

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