# SAC-2P- 1,5-PUR/DTFS-1L-S - Sensor/actuator cable

1410732

https://www.phoenixcontact.com/us/products/1410732

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 2-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight DEUTSCH DT06-2S Clip locking, coding: A, with 1 LED, Wiring: Diode, cable length: 1.5 m

## Commercial data

| | |
|---|---|
| Item number | 1410732 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF08 |
| Product key | AF1DWA |
| GTIN | 4046356924313 |
| Weight per piece (including packing) | 64.1 g |
| Weight per piece (excluding packing) | 60.7 g |
| Customs tariff number | 85444290 |
| Country of origin | SK |

# 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 | V2 |
| Material grommet GRP | Silicon |
| Material of grip body | TPU |
| Contact material | Cu alloy |
| 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 DC |
| Nominal current $I_N$ | 3 A |

## Signaling

| | |
|---|---|
| Status display | 1 LED |
| Status display present | yes |

## Connector

Connection 1

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

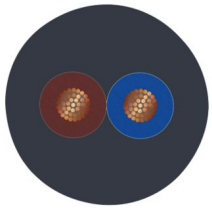
Connection 2

| | |
|---|---|
| Type | Socket straight DEUTSCH DT06-2S Clip locking |
| Number of positions | 2 |
| Locking type | Clip locking |
| Coding type | A |
| Protective circuit | Diode |

## Cable/line

| | |
|---|---|
| Cable length | 1.5 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) |

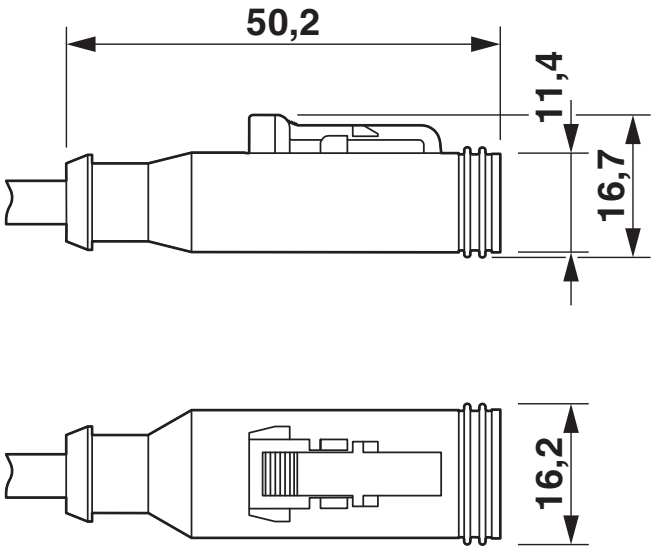
## Environmental and real-life conditions

### Ambient conditions

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

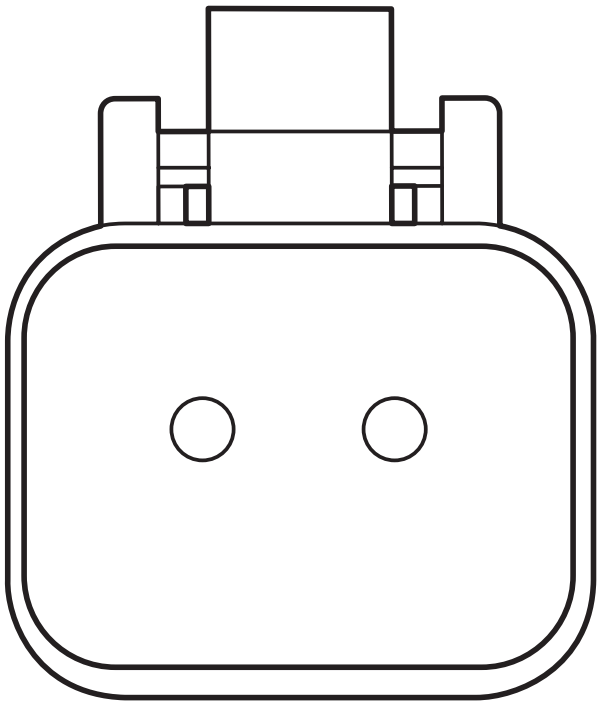
## Drawings

Dimensional drawing



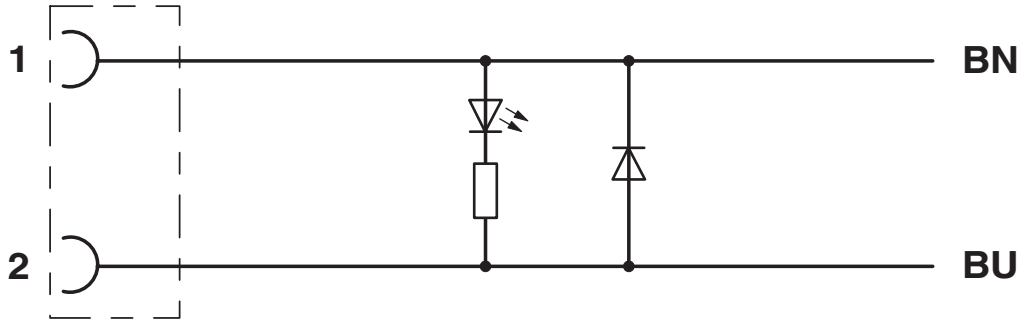

DEUTSCH DT06-2S, top view and side view

Schematic diagram



DEUTSCH DT06-2S pin assignment

Circuit diagram




Contact assignment of the DEUTSCH DT06-2S

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1410732

**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 |
| 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 | 03ce246a-c5b2-4bba-83e2-1e09b19a9f2a |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 1.7 kg CO2e |

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com