

# SAC-4P-DTMS/ 0,6-PUR/DTFS - Sensor/actuator cable



1415017

<https://www.phoenixcontact.com/us/products/1415017>

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight DEUTSCH DT04-4P Clip locking, coding: A, Wiring: unwired, on Socket straight DEUTSCH DT06-4S Clip locking, Wiring: unwired, cable length: 0.6 m

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1415017       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF08          |
| Product key                          | AF1DWA        |
| GTIN                                 | 4055626036953 |
| Weight per piece (including packing) | 68.6 g        |
| Weight per piece (excluding packing) | 22.22 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Mobile hydraulics     |
| Number of positions  | 4                     |
| No. of cable outlets | 1                     |
| Shielded             | no                    |
| Coding               | A                     |

### Material specifications

|  |               |
|--|---------------|
| Flammability rating according to UL 94 | V2            |
| Seal material                          | 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 | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 48 V AC                    |
|                       | 48 V DC                    |
| Nominal current $I_N$ | 8 A                        |

### Signaling

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

### Connector

#### Connection 1

|                     |  |
|---------------------|--|
| Type                | Plug straight DEUTSCH DT04-4P Clip locking |
| Number of positions | 4  |
| Locking type        | Clip locking                               |
| Coding type         | A  |
| Protective circuit  | unwired                                    |

#### Connection 2

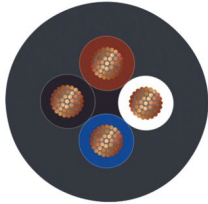
|                     |  |
|---------------------|--|
| Type                | Socket straight DEUTSCH DT06-4S Clip locking |
| Number of positions | 4  |
| Locking type        | Clip locking                                 |
| Protective circuit  | unwired                                      |

### Cable/line

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|   |   |
|---|---|
| Cable length                                  | 0.6 m   |
| PUR halogen-free black [PUR]                  |   |
| Dimensional drawing                           |   |
| Cable weight                                  | 51 kg/km  |
| UL AWM Style                                  | 20549 / 10152 (80°C/300 V)  |
| Number of positions                           | 4   |
| Shielded                                      | no  |
| Cable type                                    | PUR halogen-free black [PUR]  |
| Conductor structure signal line               | 42x 0.15 mm   |
| AWG signal line                               | 18  |
| Conductor cross-section                       | 4x 0.75 mm <sup>2</sup> (Signal line)   |
| Wire diameter incl. insulation                | 1.69 mm ±0.05 mm (Signal line)  |
| External cable diameter                       | 5.70 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, black, white   |
| Thickness, insulation                         | ≥ 0.21 mm   |
| Thickness, outer sheath                       | ≥ 0.38 mm   |
| Overall twist                                 | 4 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   | 29 mm   |
| Smallest bending radius, movable installation | 57 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/s <sup>2</sup> |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815<br>in accordance with DIN EN 50267-2-1   |
| Flame resistance                              | according to UL 758/1581 (horizontal)<br>in accordance with UL 758/1581 FT2<br>according to DIN EN 60332-2-2                          |

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|                                 |  |
|---------------------------------|--|
| 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   |
| Special properties              | abrasion-resistant   |
|                                 | flexible   |
| Ambient temperature (operation) | Flexible cable conduit capable                               |
|                                 | -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 ... 80 °C (Plug / socket) |

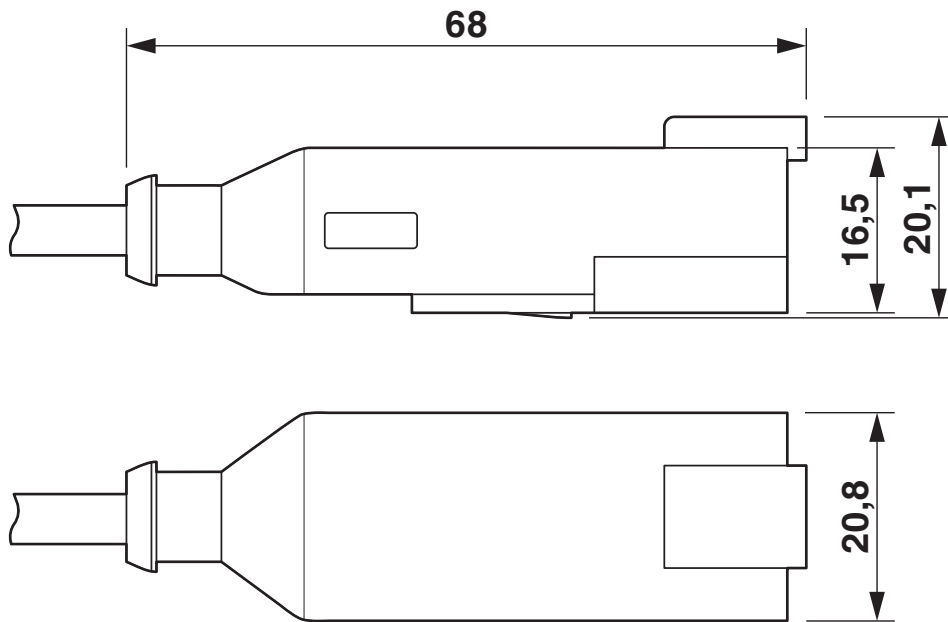
# SAC-4P-DTMS/ 0,6-PUR/DTFS - Sensor/actuator cable

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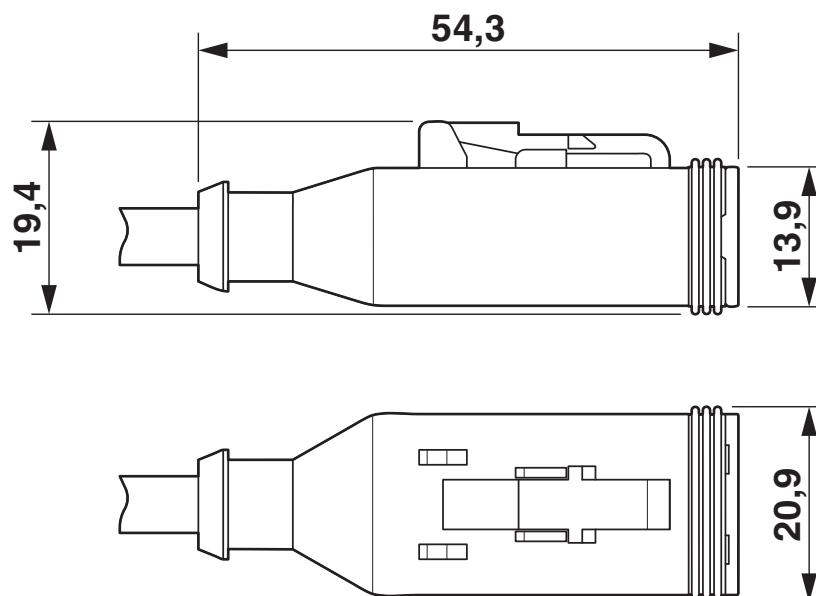
## Drawings

Dimensional drawing



DEUTSCH DT04-4P, top view and side view

Dimensional drawing



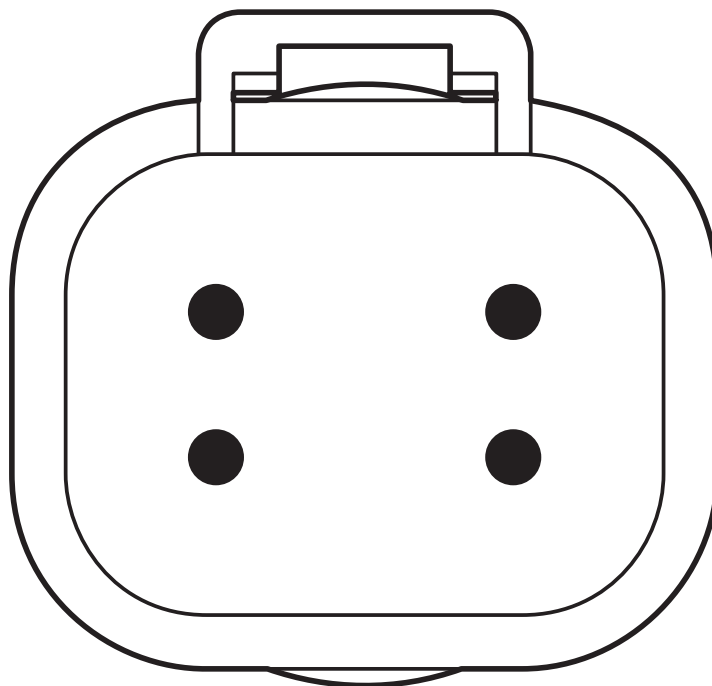
DEUTSCH DT06-4S, top view and side view

# SAC-4P-DTMS/ 0,6-PUR/DTFS - Sensor/actuator cable

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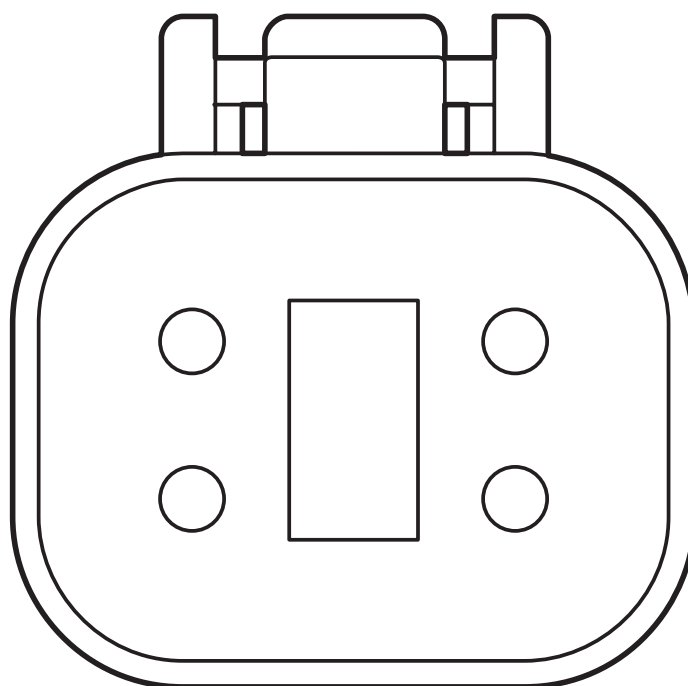
<https://www.phoenixcontact.com/us/products/1415017>

Schematic diagram



DEUTSCH DT04-4P pin assignment

Schematic diagram



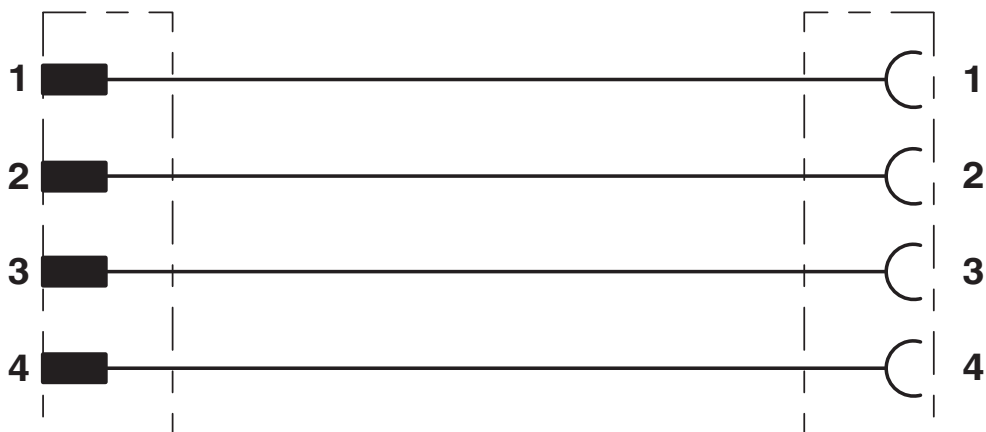
DEUTSCH DT06-4S pin assignment

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Circuit diagram



Contact assignment of the DEUTSCH connectors

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1415017>



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00387

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

|             |          |
|-------------|----------|
| 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                                | e369c795-2d5e-4339-bc13-a251acdf278 |

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