

# SAC-4P-DTMS/ 1,5-PUR - Sensor/actuator cable



1415012

<https://www.phoenixcontact.com/pc/products/1415012>

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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 free cable end, cable length: 1.5 m

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1415012             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | BF1DWA              |
| Catalog page                         | Page 244 (C-2-2019) |
| GTIN                                 | 4055626036885       |
| Weight per piece (including packing) | 101 g               |
| Weight per piece (excluding packing) | 100.7 g             |
| Customs tariff number                | 85444290            |
| Country of origin                    | DE                  |

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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                                          |

#### Connection 2

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

### Cable/line

|              |       |
|--------------|-------|
| Cable length | 1.5 m |
|--------------|-------|

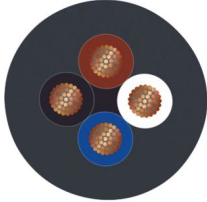
PUR halogen-free black [PUR]

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|                                               |                                                                                                                                       |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| 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                          |
| Resistance to oil                             | According to DIN EN 60811-2-1, 168 h at 100°C<br>according to UL 758, 168 h at 60 °C                                                  |

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|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| 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)              |

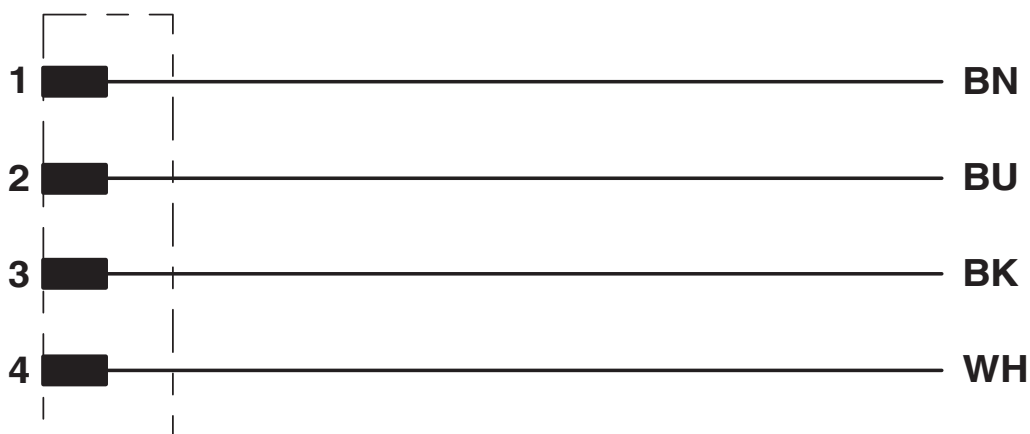
## Environmental and real-life conditions

### Ambient conditions

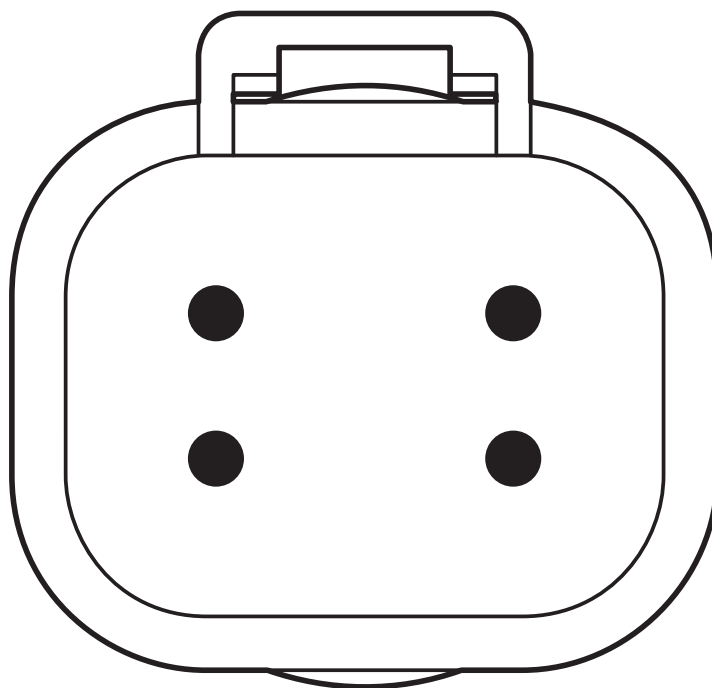
|                                 |                                  |
|---------------------------------|----------------------------------|
| Degree of protection            | IP67                             |
|                                 | IP69K                            |
| Ambient temperature (operation) | -20 °C ... 80 °C (Plug / socket) |

## Drawings

Circuit diagram



Schematic diagram



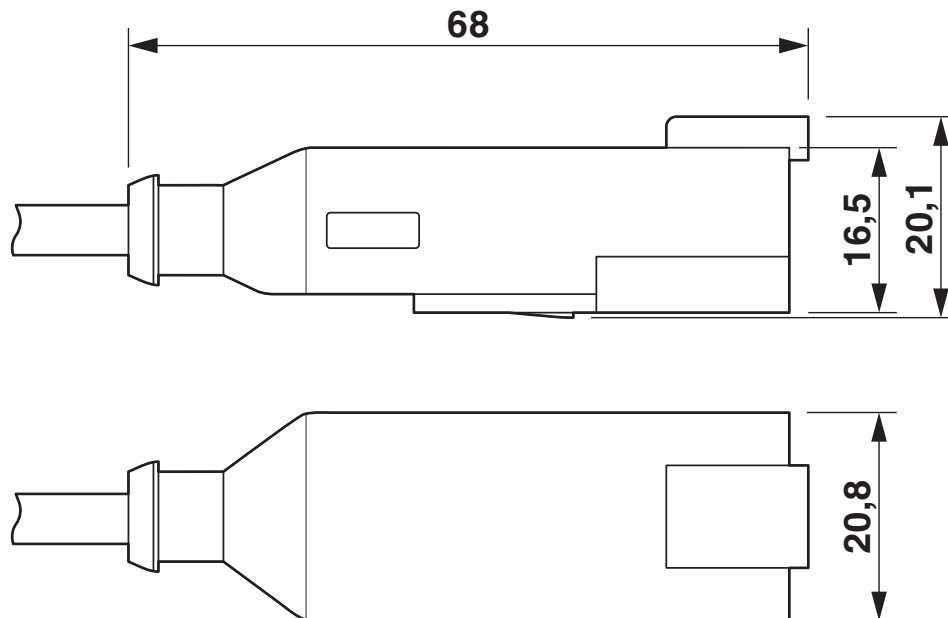
DEUTSCH DT04-4P pin assignment

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Dimensional drawing



DEUTSCH DT04-4P, top view and side view

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## Approvals

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**EAC-RoHS**

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060311 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | 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                                    | c6064eb5-270c-49c8-8368-d32df0c8610e                                                                                                                                                                                              |