

# Sensor/actuator cable - SAC-2P- 3,0-PUR/DTFS-1L - 1410729


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Sensor/actuator cable, 2-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight DEUTSCH DT06-2S Clip locking, with 1 LED, cable length: 3 m

RoHS

## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 046356 924283 |
| GTIN         | 4046356924283   |

## Technical data

### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 3 m |
|-----------------|-----|

### Ambient conditions

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

### General

|                              |              |
|------------------------------|--------------|
| Rated current at 40°C        | 8 A          |
| Rated voltage                | 24 V AC      |
|                              | 24 V DC      |
| Number of positions          | 2            |
| Color handle area            | black        |
| Insulation resistance        | ≥ 100 MΩ     |
| Coding                       | A - standard |
| Status display               | 1 LED        |
| Protective circuit/component | unwired      |

### Material

|  |    |
|--|----|
| Flammability rating according to UL 94 | V2 |
|--|----|

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## Technical data

### Material

|                          |               |
|--------------------------|---------------|
| Contact material         | Cu alloy      |
| Contact surface material | Nickel-plated |
| Contact carrier material | PA 6.6        |
| Material of grip body    | PA            |
| Material, knurls         | not available |
| Sealing material         | Silicon       |

### Standards and Regulations

|  |    |
|--|----|
| Flammability rating according to UL 94 | V2 |
|--|----|

### Cable

|   |                                       |
|---|---------------------------------------|
| Cable type                                    | PUR halogen-free black                |
| Cable type (abbreviation)                     | PUR                                   |
| Cable abbreviation                            | Li9Y11Y                               |
| UL AWM style                                  | 20549 / 10493 (80°C/300 V)            |
| Conductor cross section                       | 2x 0.75 mm <sup>2</sup> (Signal line) |
| AWG signal line                               | 18                                    |
| Conductor structure signal line               | 42x 0.15 mm                           |
| Core diameter including insulation            | 1.69 mm ±0.05 mm (Signal line)        |
| Thickness, insulation                         | ≥ 0.21 mm                             |
| Wire colors                                   | brown, blue                           |
| Overall twist                                 | 2 wires, twisted                      |
| External sheath, color                        | black-gray RAL 7021                   |
| Outer sheath thickness                        | ≥ 0.38 mm                             |
| External cable diameter D                     | 4.8 mm ±0.15 mm                       |
| Minimum bending radius, fixed installation    | 5 x D                                 |
| Minimum bending radius, flexible installation | 10 x D                                |
| Number of bending cycles                      | 4000000                               |
| Bending radius                                | 48 mm                                 |
| Traversing path                               | 10 m                                  |
| Traversing rate                               | 3 m/s                                 |
| Acceleration                                  | 10 m/s <sup>2</sup>                   |
| Cable weight                                  | 33 kg/km                              |
| Outer sheath, material                        | PUR                                   |
| Material conductor insulation                 | PP                                    |
| Conductor material                            | Bare Cu litz wires                    |
| Insulation resistance                         | ≥ 1 GΩ*km (at 20 °C)                  |
| Conductor resistance                          | ≤ 26 Ω/km (at 20 °C)                  |
| Nominal voltage, cable                        | ≤ 300 V AC                            |
| Test voltage, cable                           | ≥ 3000 V AC (Spark test)              |
| Special properties                            | flexible                              |
|   | Flexible cable conduit capable        |

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### Technical data

#### Cable

|                                 |  |
|---------------------------------|--|
| Flame resistance                | according to UL 758/1581 (horizontal)                      |
|                                 | in accordance with UL 758/1581 FT2                         |
|                                 | according to DIN EN 60332-2-2                              |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                   |
|                                 | in accordance with DIN EN 50267-2-1                        |
| 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   |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)               |
|                                 | -25 °C ... 80 °C (cable, flexible installation)            |

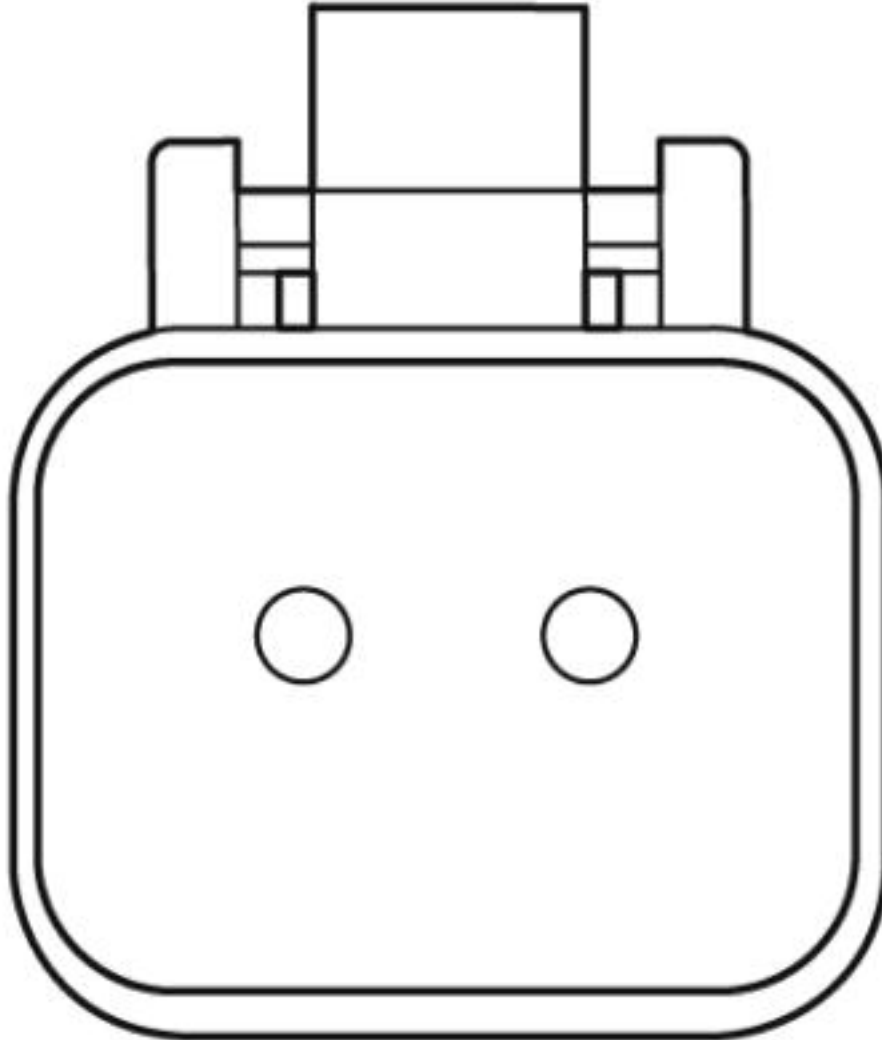
#### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

#### Drawings

## Sensor/actuator cable - SAC-2P- 3,0-PUR/DTFS-1L - 1410729

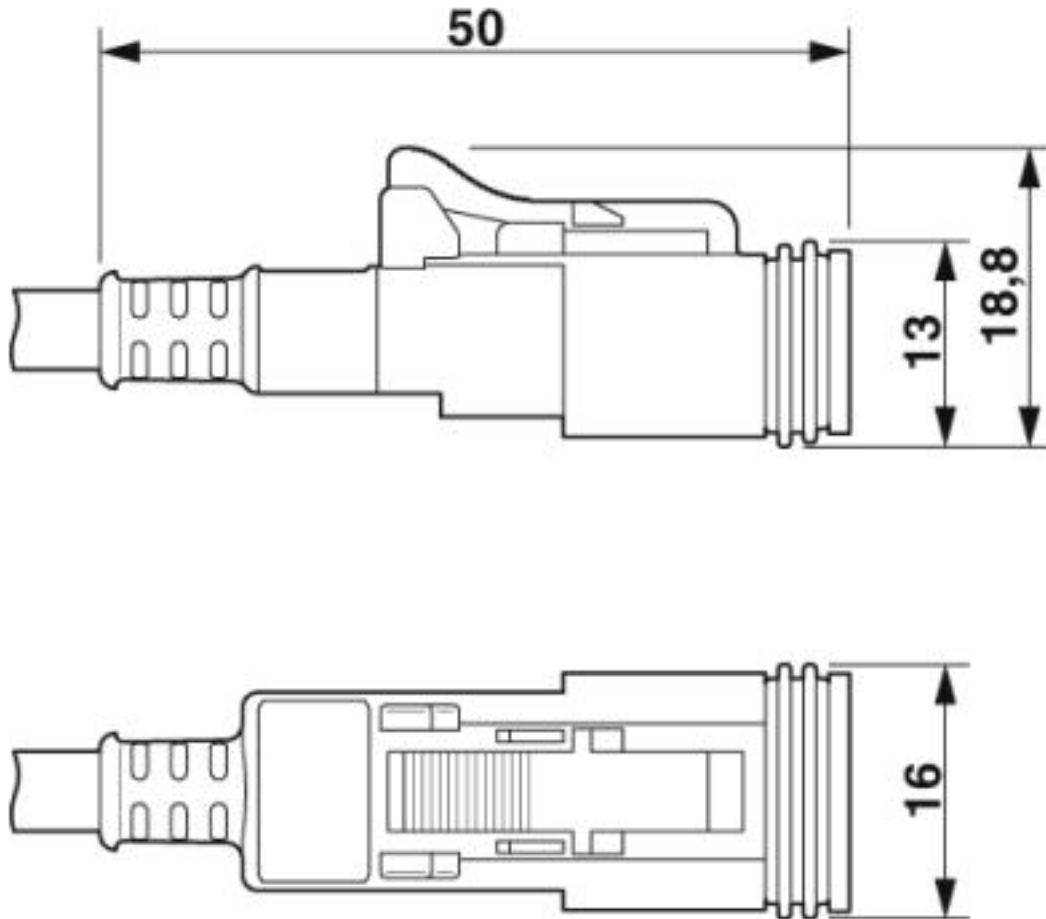
Schematic diagram



DEUTSCH DT06-2S pin assignment

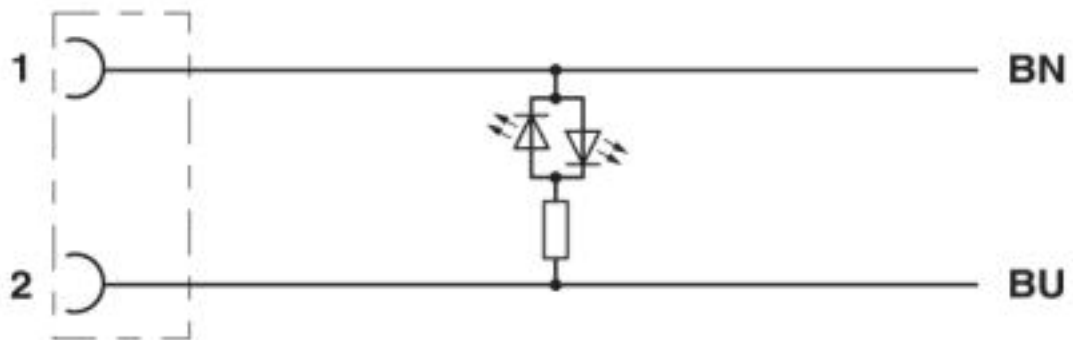
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Dimensional drawing



DEUTSCH DT06-2S, top view and side view

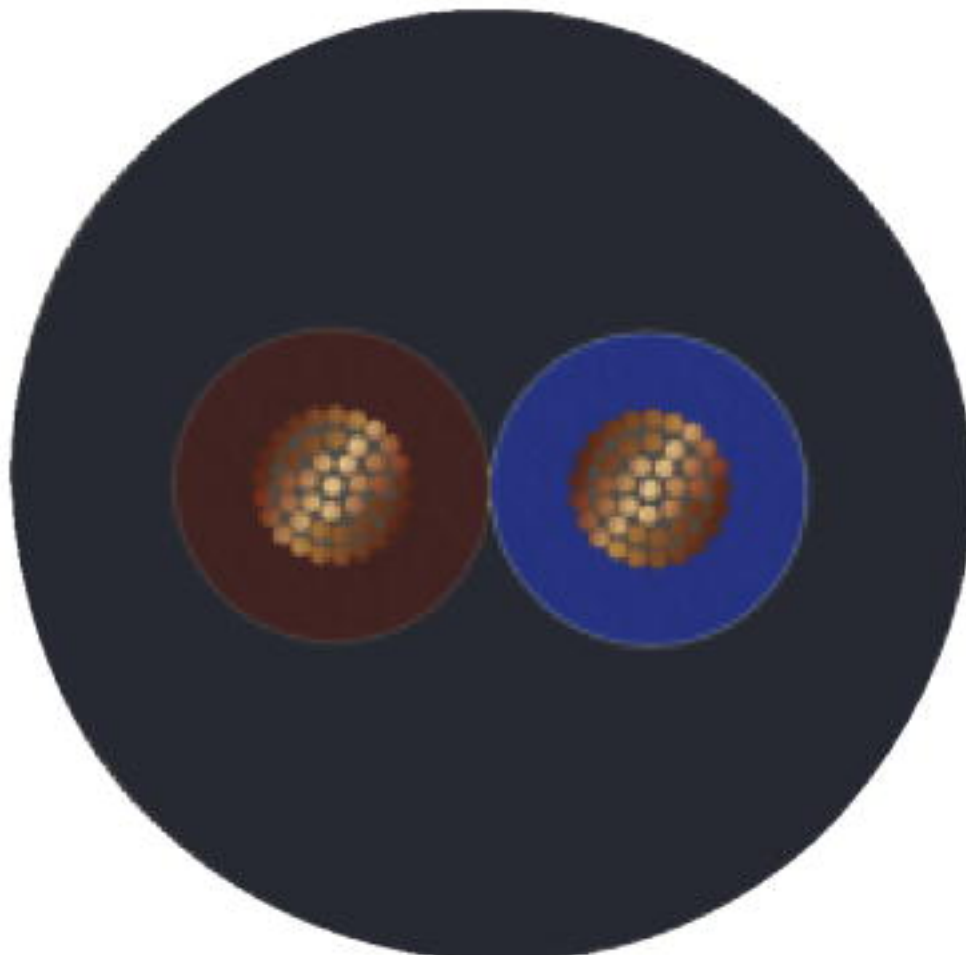
Circuit diagram



Contact assignment of the DEUTSCH DT06-2S

## Sensor/actuator cable - SAC-2P- 3,0-PUR/DTFS-1L - 1410729

Cable cross section



PUR halogen-free black [PUR]

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