

## Sensor/Actuator cable - SAC-6P-DTMS/ 1,5-PUR - 1415030

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Sensor/Actuator cable, 6-position, PUR halogen-free, black-gray RAL 7021, Plug straight DEUTSCH DT04-6P Clip locking, on free cable end, Cable length: 1.5 m



### Key Commercial Data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 pc     |
| Custom tariff number | 85444290 |
| Country of origin    | Poland   |

### Technical data

#### Dimensions

|                 |       |
|-----------------|-------|
| Length of cable | 1.5 m |
|-----------------|-------|

#### Ambient conditions

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

#### General

|                              |              |
|------------------------------|--------------|
| Rated current at 40°C        | 8 A          |
| Rated voltage                | 48 V         |
| Number of positions          | 6            |
| Insulation resistance        | ≥ 100 MΩ     |
| Coding                       | A - standard |
| Status display               | No           |
| Protective circuit/component | Unwired      |

#### Material

|                                        |          |
|----------------------------------------|----------|
| Flammability rating according to UL 94 | V2       |
| Contact material                       | Cu alloy |

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## Technical data

### Material

|                          |               |
|--------------------------|---------------|
| Contact surface material | Nickel-plated |
| Contact carrier material | PA 66         |
| Material of grip body    | PA            |
| Material, knurls         | not available |
| Sealing material         | Silicon       |

### Cable

|                                               |                                       |
|-----------------------------------------------|---------------------------------------|
| Cable type                                    | PUR halogen-free black                |
| Cable type (abbreviation)                     | PUR                                   |
| Cable abbreviation                            | Li9Y11Y                               |
| UL AWM style                                  | 20549 / 10152 (80°C/300 V)            |
| Conductor cross section                       | 6x 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, white, blue, black, gray, pink |
| Overall twist                                 | 6 wires, horizontally twisted         |
| External sheath, color                        | black-gray RAL 7021                   |
| Outer sheath thickness                        | ≥ 0.38 mm                             |
| External cable diameter D                     | 6.5 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                                  | 68 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)            |

### Classifications

#### eCl@ss

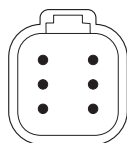
|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001855 |
|----------|----------|

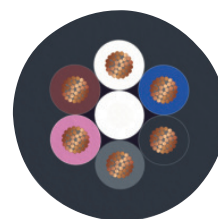
### Drawings

Schematic diagram



DEUTSCH DT04-6P pin assignment

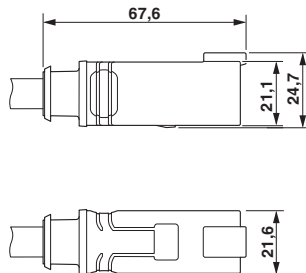
Cable cross section



PUR halogen-free black [PUR]

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Dimensional drawing



DEUTSCH DT04-6P, top view and side view

Circuit diagram



Contact assignment of the DEUTSCH DT04-6P