

Sensor/Actuator cable - SAC-6P-DTMS/ 0,3-PUR/DTFS - 1415035

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Sensor/Actuator cable, 6-position, PUR halogen-free, black-gray RAL 7021, Plug straight DEUTSCH DT04-6P Clip locking, on Socket straight DEUTSCH DT06-6S Clip locking, Cable length: 0.3 m



Key Commercial Data

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

Technical data

Dimensions

| | |
|-----------------|-------|
| Length of cable | 0.3 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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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 ² (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 ² |
| 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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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

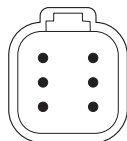
| | |
|------------|----------|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |

ETIM

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

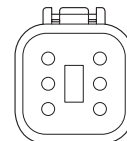
Drawings

Schematic diagram



DEUTSCH DT04-6P pin assignment

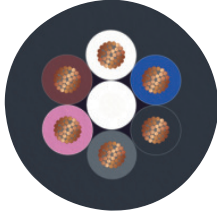
Schematic diagram



DEUTSCH DT06-6S pin assignment

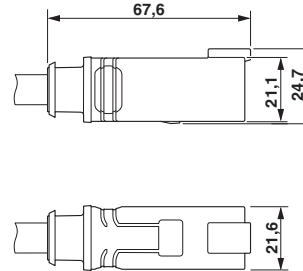
Sensor/Actuator cable - SAC-6P-DTMS/ 0,3-PUR/DTFS - 1415035

Cable cross section



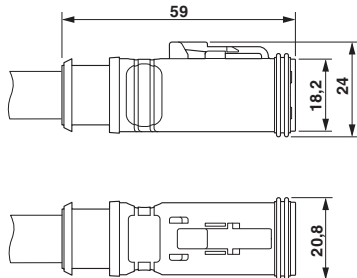
PUR halogen-free black [PUR]

Dimensional drawing

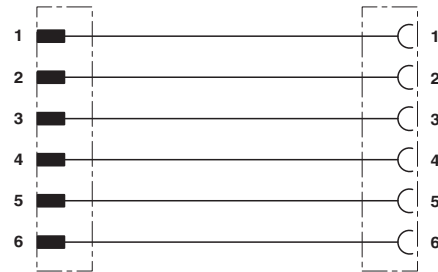


DEUTSCH DT04-6P, top view and side view

Dimensional drawing



Circuit diagram



DEUTSCH DT06-3S, top view and side view

Contact assignment of the DEUTSCH connectors