

# Sensor/actuator cable - SAC-6P-10,0-PUR/DTFS - 1415029

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Sensor/actuator cable, 6-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight DEUTSCH DT06-6S Clip locking, cable length: 10 m



## Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 055626 037011 |
| GTIN                                 | 4055626037011   |
| Weight per Piece (excluding packing) | 735.100 g   |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland  |

## Technical data

### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 10 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 AC      |
|                              | 48 V DC      |
| Number of positions          | 6            |
| Color handle area            | black        |
| Insulation resistance        | ≥ 100 MΩ     |
| Coding                       | A - standard |
| Status display               | No           |
| Protective circuit/component | unwired      |

# Sensor/actuator cable - SAC-6P-10,0-PUR/DTFS - 1415029

## Technical data

### Material

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

# Sensor/actuator cable - SAC-6P-10,0-PUR/DTFS - 1415029

## Technical data

### Cable

|                                 |   |
|---------------------------------|---|
|                                 | Flexible cable conduit capable  |
| Flame resistance                | according to UL 758/1581 (horizontal)<br>in accordance with UL 758/1581 FT2                     |
|                                 | according to DIN EN 60332-2-2   |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815<br>in accordance with DIN EN 50267-2-1                 |
| 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             |
| Other resistance                | hydrolysis and microbe resistant<br>partly UV-resistant in accordance with DIN EN ISO 4892-2-A  |
|                                 | Low adhesion<br>abrasion-resistant  |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)<br>-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          |

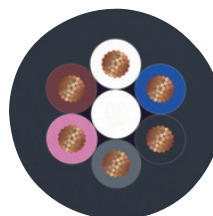
## Drawings

Schematic diagram



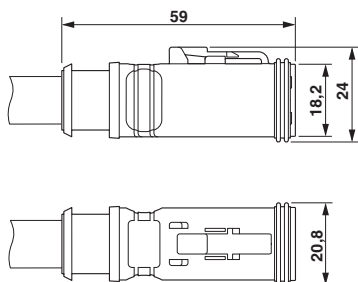
DEUTSCH DT06-6S pin assignment

Cable cross section



PUR halogen-free black [PUR]

Dimensional drawing



DEUTSCH DT06-3S, top view and side view

Circuit diagram



Contact assignment of the DEUTSCH DT06-6S

# Sensor/actuator cable - SAC-6P-10,0-PUR/DTFS - 1415029

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.1 | 27061800 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 31251501 |
|-------------|----------|

## Accessories

### Accessories

#### Conductor marking

Insert label - PABA WH/23 - 1013779



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 - 35 mm, lettering field size: 23 x 4 mm

Insert label - PABA YE/23 - 1013782



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 - 35 mm, lettering field size: 23 x 4 mm

Insert label - PABA WH/15 - 1013151



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 0.6 - 50 mm, lettering field size: 15 x 4 mm

## Sensor/actuator cable - SAC-6P-10,0-PUR/DTFS - 1415029

### Accessories

Insert label - PABA YE/15 - 1013698



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 0.6 - 50 mm, lettering field size: 15 x 4 mm

---

Insert label - PABA RD/15 - 1013944



Insert label, Strip, red, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 0.6 - 50 mm, lettering field size: 15 x 4 mm

---

### Corrugated pipe

Protective hose - WP-PA HF 13,0 BK - 3240681



Polyamide protective hose, inflammability class V0, UV resistant

---

Protective hose - WP-PA HF-HB 13,0 BK - 3240839



Polyamide protective hose, inflammability class HB, UV resistant

---

### Cutting tools

Diagonal cutter - CUTFOX-S VDE - 1212207



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

---

### Marker carrier cable

## Sensor/actuator cable - SAC-6P-10,0-PUR/DTFS - 1415029

### Accessories

Conductor marker carrier - PATG 2/15 - 1013038



Conductor marker carrier, transparent, unlabeled, mounting type: slide on, cable diameter range: 2 - 4 mm, lettering field size: 15 x 4 mm

---

Conductor marker carrier - PATG 3/15 - 1013041



Conductor marker carrier, transparent, unlabeled, mounting type: slide on, cable diameter range: 4 - 7 mm, lettering field size: 15 x 4 mm

---

Conductor marker carrier - PATG 4/15 - 1013054



Conductor marker carrier, transparent, unlabeled, mounting type: slide on, cable diameter range: 6 - 10 mm, lettering field size: 15 x 4 mm

---

### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

---

### Stripping tool

Stripping tool - WIREFOX SAC-1 - 1212757



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from  $\varnothing$  of 3.2 to 4.4 mm, any stripping length

---

## Sensor/actuator cable - SAC-6P-10,0-PUR/DTFS - 1415029

### Accessories

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from  $\varnothing$  of 4.4 to 7 mm, any stripping length

Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

Protective hose adapter - WP-CTA POM 13,0 BK - 1422884



Protective hose adapter, for corrugated hoses with a nominal size of 13 (10 x 13), corrugated in parallel