

# Sensor/actuator cable - SAC-2P- 3,0-PUR/DTFS-1L-S - 1410733


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

RoHS

## Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 924320
GTIN	4046356924320

## 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	3 A
Rated voltage	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	Damping diode

### Material

Flammability rating according to UL 94	V2
Contact material	Cu alloy

# Sensor/actuator cable - SAC-2P- 3,0-PUR/DTFS-1L-S - 1410733

## Technical data

### Material

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
Flame resistance	according to UL 758/1581 (horizontal)

## Sensor/actuator cable - SAC-2P- 3,0-PUR/DTFS-1L-S - 1410733

### Technical data

#### Cable

	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)

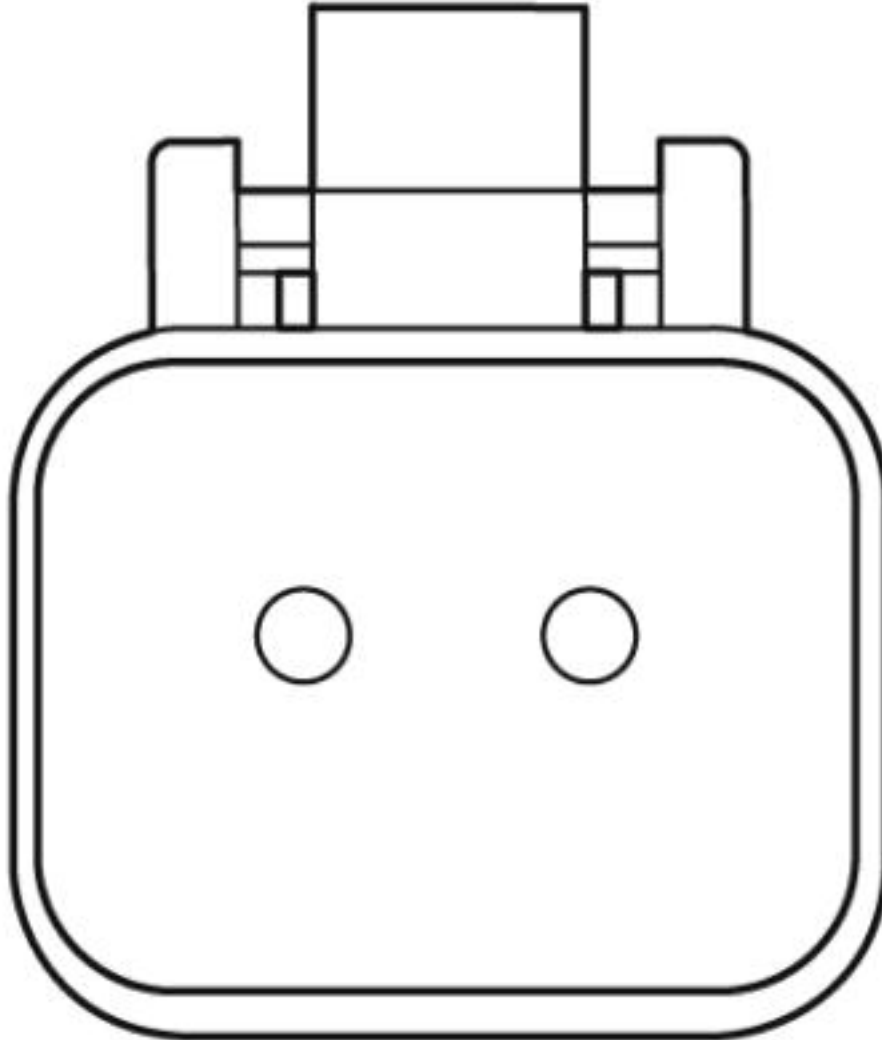
#### Environmental Product Compliance

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-S - 1410733

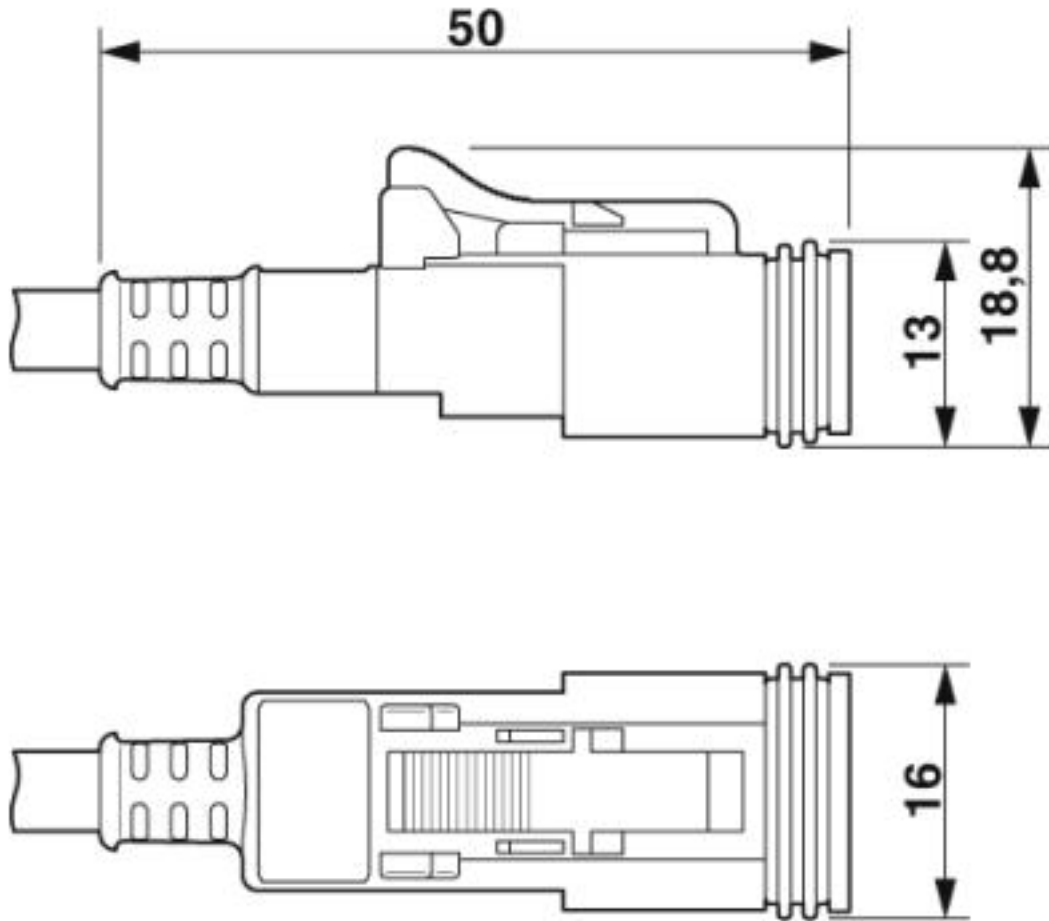
Schematic diagram



DEUTSCH DT06-2S pin assignment

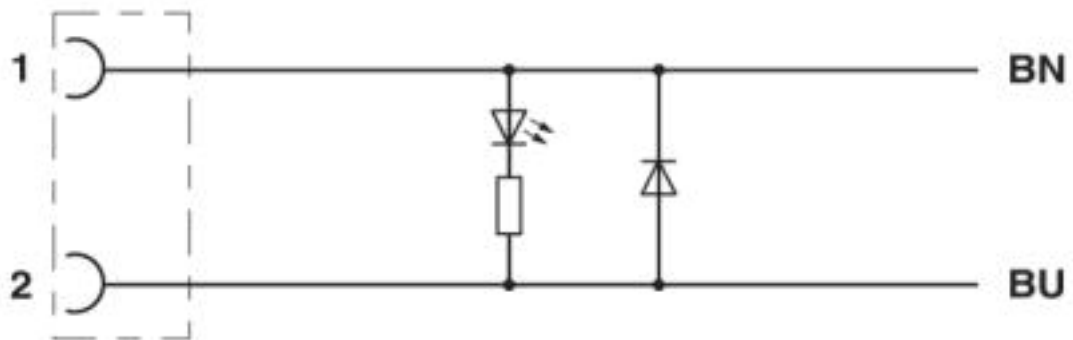
# Sensor/actuator cable - SAC-2P- 3,0-PUR/DTFS-1L-S - 1410733

Dimensional drawing



DEUTSCH DT06-2S, top view and side view

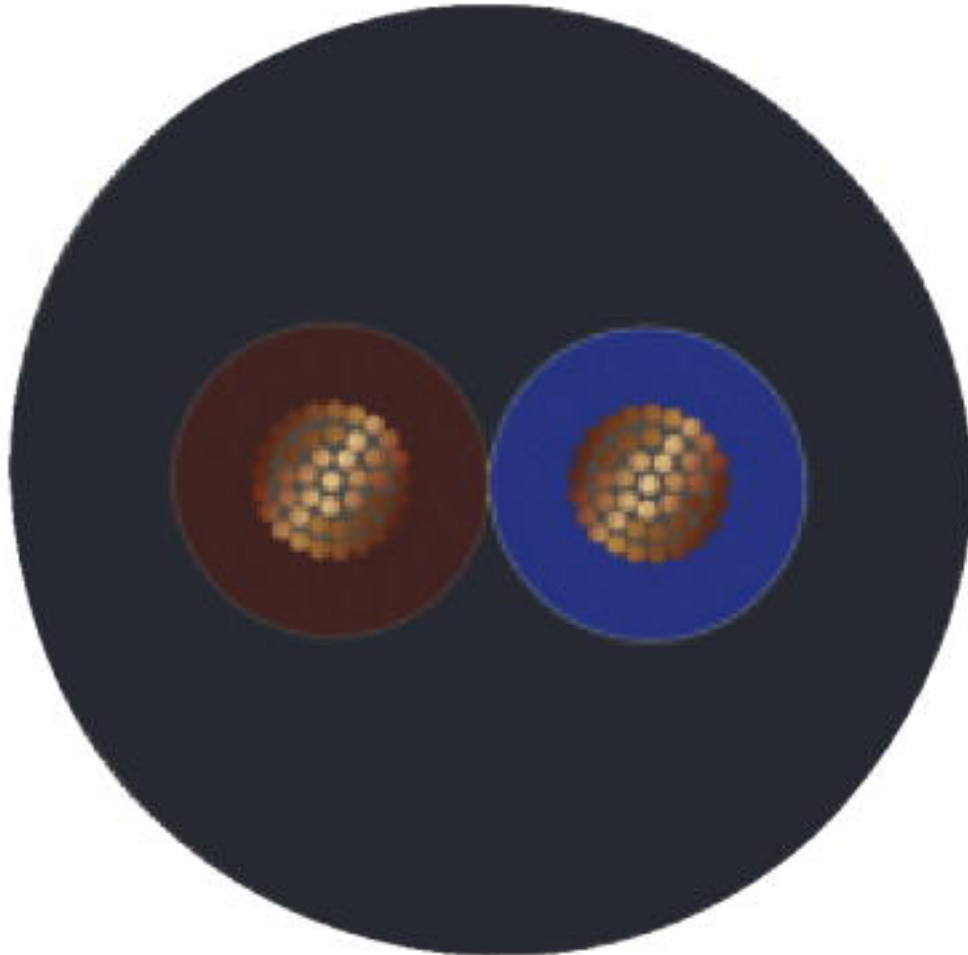
Circuit diagram



Contact assignment of the DEUTSCH DT06-2S

## Sensor/actuator cable - SAC-2P- 3,0-PUR/DTFS-1L-S - 1410733

Cable cross section



PUR halogen-free black [PUR]

---

Phoenix Contact 2019 © - all rights reserved  
<http://www.phoenixcontact.com>

**PHOENIX CONTACT GmbH & Co. KG**  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>