

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


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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, 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
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### 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

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## 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
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### 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)

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### 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)

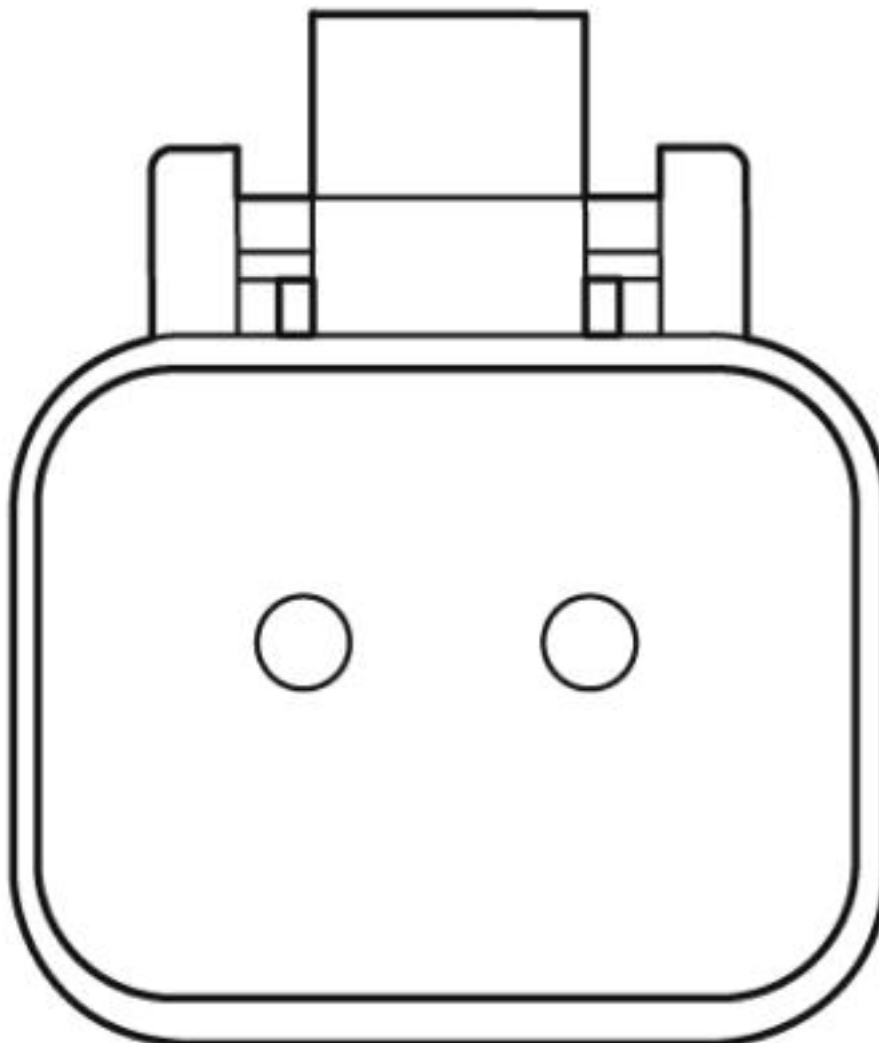
#### Environmental Product Compliance

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

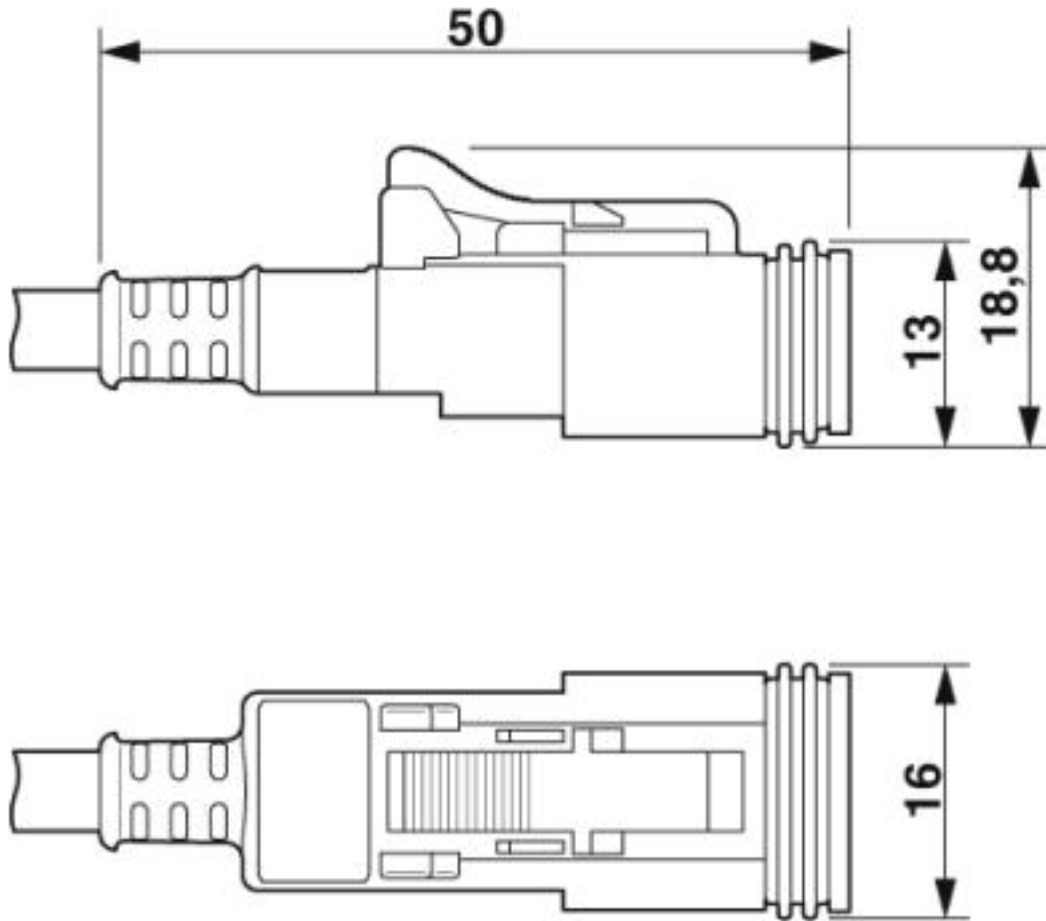
Schematic diagram



DEUTSCH DT06-2S pin assignment

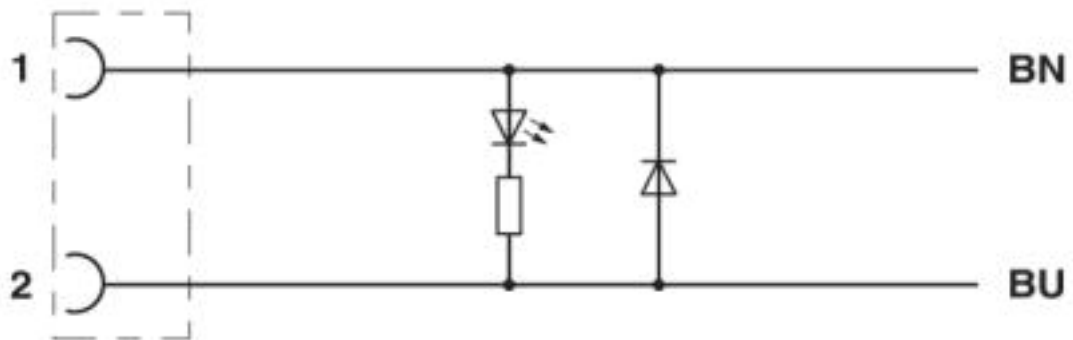
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Dimensional drawing



DEUTSCH DT06-2S, top view and side view

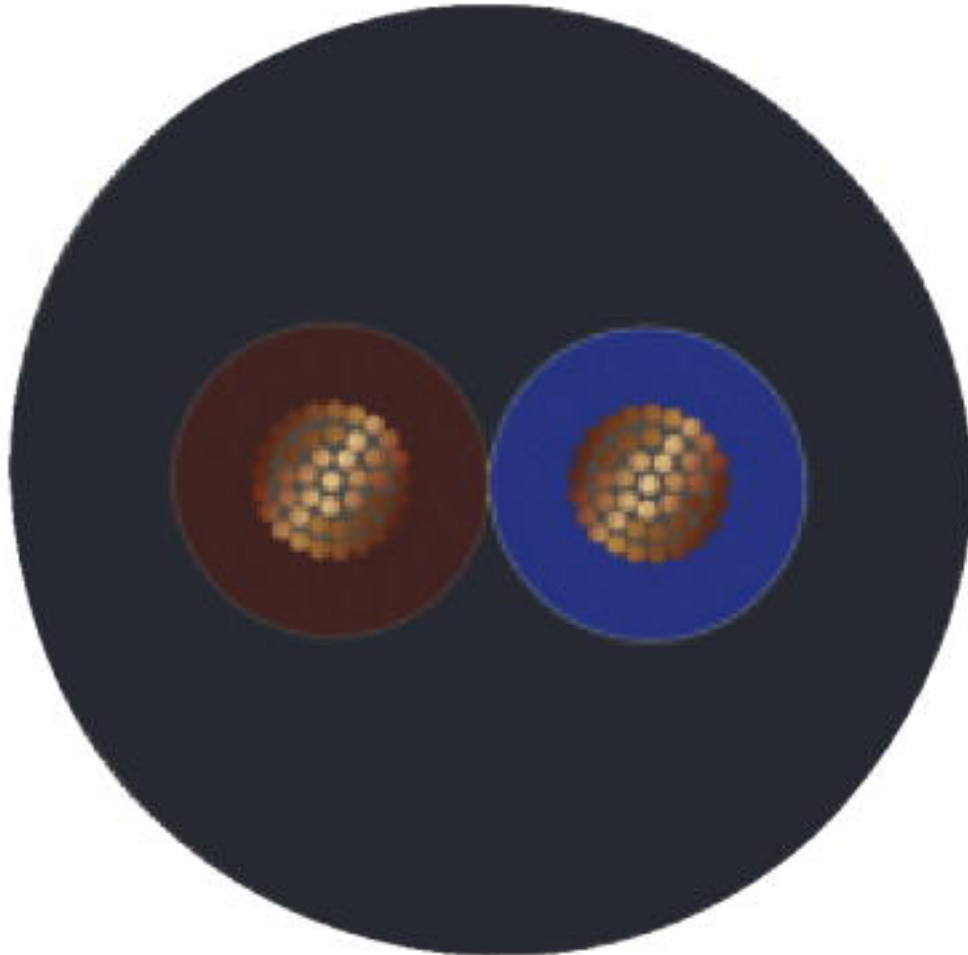
Circuit diagram



Contact assignment of the DEUTSCH DT06-2S

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Cable cross section



PUR halogen-free black [PUR]

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