

## Sensor/Actuator cable - SAC-2P- 5,0-PUR/DTFS-1L-S - 1410734

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 Damping diode, Cable length: 5 m



### Key commercial data

Packing unit	1 pc
GTIN	 4 046356 924337
Weight per Piece (excluding packing)	181.5 g
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	5 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
Number of positions	2
Contact resistance	≤ 8 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Status display	1 LED
Protective circuit/component	Damping diode

#### Material

Inflammability class according to UL 94	V2
---	----

# Sensor/Actuator cable - SAC-2P- 5,0-PUR/DTFS-1L-S - 1410734

## Technical data

### Material

Contact material	Cu alloy
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 / 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)
	in accordance with UL 758/1581 FT2

# Sensor/Actuator cable - SAC-2P- 5,0-PUR/DTFS-1L-S - 1410734

## Technical data

### Cable

	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	27279218
eCl@ss 8.0	27279218

### ETIM

ETIM 4.0	EC001855
ETIM 5.0	EC001855

## Accessories

### Accessories

#### Conductor marking

Insert label - PABA WH/15 - 1013151



Insert label, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

Insert label - PABA YE/15 - 1013698



Insert label, Strip, yellow, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

## Sensor/Actuator cable - SAC-2P- 5,0-PUR/DTFS-1L-S - 1410734

### Accessories

Insert label - PABA RD/15 - 1013944



Insert label, Strip, red, unlabeled, can be labeled with: Plotter, Mounting type: Thread on, Cable diameter: 0.6-50 mm, Lettering field: 15 x 4 mm

---

### Cutting tools

Diagonal cutter - CUTFOX-S VDE - 1212207



Diagonal cutter for copper and aluminum conductors, VDE-tested

---

### Marker carrier cable

Conductor marker carrier - PATG 2/15 - 1013038



Conductor marker carrier, transparent, unlabeled, Mounting type: slide on, Cable diameter: 2-4 mm, Lettering field: 4 x 15 mm

---

Conductor marker carrier - PATG 3/15 - 1013041



Conductor marker carrier, transparent, unlabeled, Mounting type: slide on, Cable diameter: 4-7 mm, Lettering field: 4 x 15 mm

---

Conductor marker carrier - PATG 4/15 - 1013054



Conductor marker carrier, transparent, unlabeled, Mounting type: slide on, Cable diameter: 6-10 mm, Lettering field: 4 x 15 mm

---

### Marker pen

# Sensor/Actuator cable - SAC-2P- 5,0-PUR/DTFS-1L-S - 1410734

## Accessories

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

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

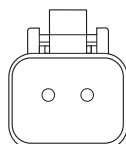


Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

---

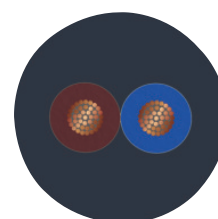
## Drawings

Schematic diagram



DEUTSCH DT06-2S pin assignment

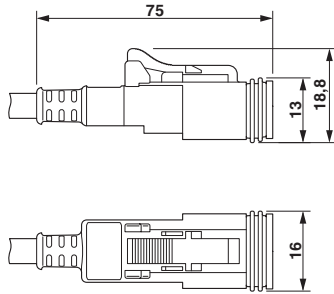
Cable cross section



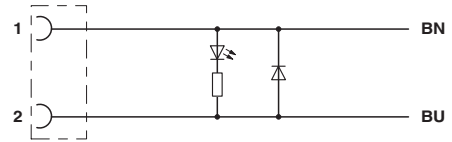
PUR halogen-free, black [PUR]

## Sensor/Actuator cable - SAC-2P- 5,0-PUR/DTFS-1L-S - 1410734

Dimensioned drawing



Circuit diagram



Contact assignment of the DEUTSCH DT06-2S

DEUTSCH DT06-2S, top view and side view