

# SAC-2P-20,0-PUR/DTFS - Sensor/actuator cable



1421665

<https://www.phoenixcontact.com/us/products/1421665>

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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, coding: A, cable length: 20 m

## Commercial data

Item number	1421665
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF08
Product key	AF1DWA
GTIN	4055626275246
Weight per piece (including packing)	675 g
Weight per piece (excluding packing)	642 g
Customs tariff number	85444290
Country of origin	SK

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## Technical data

### Product properties

Product type	Sensor/actuator cable
Application	Mobile hydraulics
Number of positions	2
No. of cable outlets	1
Shielded	no
Coding	A

### Material specifications

Flammability rating according to UL 94	V2
Seal material	Silicon
Material of grip body	TPU
Contact material	Cu alloy
Contact surface material	nickel-plated
Contact carrier material	PA 6.6
Material for screw connection	not available

### Electrical properties

Nominal voltage $U_N$	48 V AC
	48 V DC
Nominal current $I_N$	8 A

### Signaling

Status display	no
Status display present	no

### Connector

#### Connection 1

Type	free cable end
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#### Connection 2

Type	Socket straight DEUTSCH DT06-2S
Coding type	A

### Cable/line

Cable length	20 m
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PUR halogen-free black [PUR]

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Dimensional drawing	
Cable weight	33 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	2
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.15 mm
AWG signal line	18
Conductor cross-section	2x 0.75 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	1.69 mm ±0.05 mm (Signal line)
External cable diameter	4.80 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, blue
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	≥ 0.38 mm
Overall twist	2 wires, twisted
Max. conductor resistance	≤ 26 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage	≥ 3000 V AC (Spark test)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	24 mm
Smallest bending radius, movable installation	48 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 48 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup>
Halogen-free	in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1
Flame resistance	according to UL 758/1581 (horizontal) in accordance with UL 758/1581 FT2 according to DIN EN 60332-2-2
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C according to UL 758, 168 h at 60 °C

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Other resistance	hydrolysis and microbe resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
	Low adhesion
	abrasion-resistant
Special properties	flexible
	Flexible cable conduit capable
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-20 °C ... 85 °C (Plug / socket)

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## Drawings

Dimensional drawing



DEUTSCH DT06-2S, top view and side view

Schematic diagram



DEUTSCH DT06-2S pin assignment

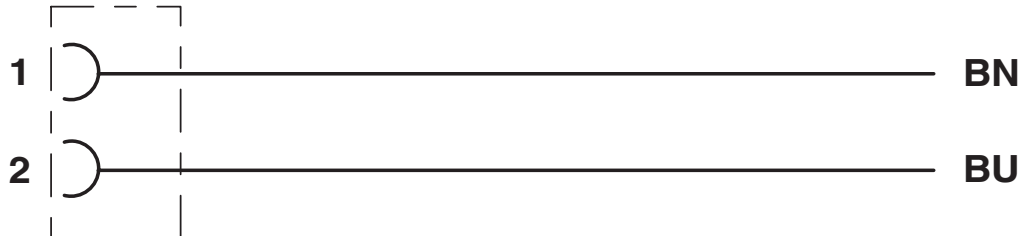
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Circuit diagram



Contact assignment of the DEUTSCH DT06-2S

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## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

ETIM 10.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	cfzca9c1-7e2d-42bb-b4ac-d8f0d05c9396

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