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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Sensor/Actuator cable - SAC-2P-DTMS/ 3,0-PUR/DTFS - 1414994

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Sensor/Actuator cable, 2-position, PUR halogen-free, black-gray RAL 7021, Plug straight DEUTSCH DT04-2P Clip locking, on Socket straight DEUTSCH DT06-2S Clip locking, Cable length: 3 m



### Key Commercial Data

Packing unit	1 pc
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	3 m
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#### 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
Number of positions	2
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Status display	No
Protective circuit/component	Unwired

#### Material

Flammability rating according to UL 94	V2
Contact material	Cu alloy

## Sensor/Actuator cable - SAC-2P-DTMS/ 3,0-PUR/DTFS - 1414994

### Technical data

#### Material

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

# Sensor/Actuator cable - SAC-2P-DTMS/ 3,0-PUR/DTFS - 1414994

## Technical data

### Cable

Flame resistance	according to UL 758/1581 (horizontal)
	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)

## Classifications

### eCl@ss

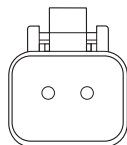
eCl@ss 5.1	27061801
eCl@ss 6.0	27279218

### ETIM

ETIM 5.0	EC001855
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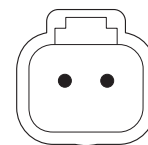
## Drawings

Schematic diagram



DEUTSCH DT06-2S pin assignment

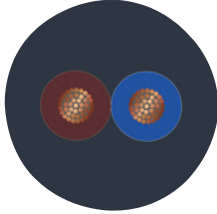
Schematic diagram



DEUTSCH DT04-2P pin assignment

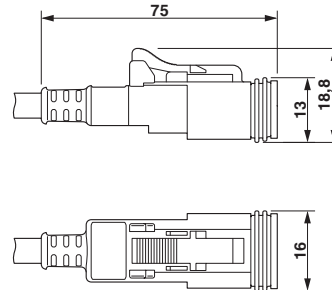
# Sensor/Actuator cable - SAC-2P-DTMS/ 3,0-PUR/DTFS - 1414994

Cable cross section



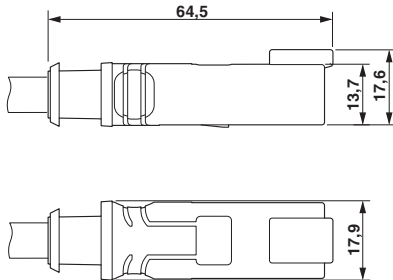
PUR halogen-free black [PUR]

Dimensional drawing



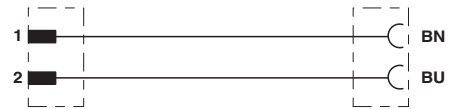
DEUTSCH DT06-2S, top view and side view

Dimensional drawing



DEUTSCH DT04-2P, top view and side view

Circuit diagram



Contact assignment of the DEUTSCH connectors