

Sensor/Actuator cable - SAC-6P-DTMS/ 3,0-PUR - 1415031

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, 6-position, PUR halogen-free, black-gray RAL 7021, Plug straight DEUTSCH DT04-6P Clip locking, on free cable end, 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
-----------------	-----

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	6
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-6P-DTMS/ 3,0-PUR - 1415031

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 / 10152 (80°C/300 V)
Conductor cross section	6x 0.75 mm ² (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, white, blue, black, gray, pink
Overall twist	6 wires, horizontally twisted
External sheath, color	black-gray RAL 7021
Outer sheath thickness	≥ 0.38 mm
External cable diameter D	6.5 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 ²
Cable weight	68 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-6P-DTMS/ 3,0-PUR - 1415031

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

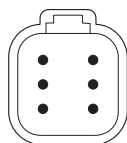
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801

ETIM

ETIM 5.0	EC001855
----------	----------

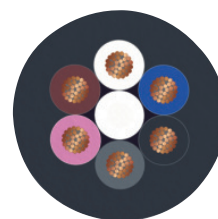
Drawings

Schematic diagram



DEUTSCH DT04-6P pin assignment

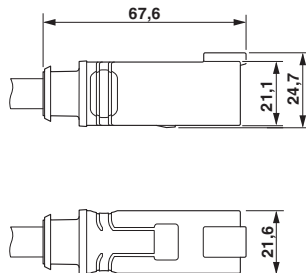
Cable cross section



PUR halogen-free black [PUR]

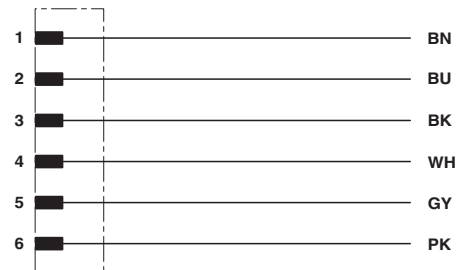
Sensor/Actuator cable - SAC-6P-DTMS/ 3,0-PUR - 1415031

Dimensional drawing



DEUTSCH DT04-6P, top view and side view

Circuit diagram



Contact assignment of the DEUTSCH DT04-6P