Sensor/Actuator cable - SAC-6P-DTMS/ 1,5-PUR/DTFS - 1415037

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Sensor/Actuator cable, 6-position, PUR halogen-free, black-gray RAL 7021, Plug straight DEUTSCH DT04-6P Clip locking, on Socket straight DEUTSCH DT06-6S Clip locking, Cable length: 1.5 m

Key Commercial Data

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

Technical data

Dimensions

Length of cable	1.5 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

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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 mm² (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/s²
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

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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

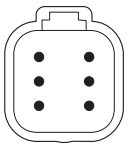
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ETIM

ETIM 5.0	EC001855

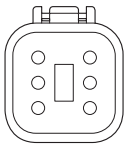
Drawings

Schematic diagram



DEUTSCH DT04-6P pin assignment

Schematic diagram



DEUTSCH DT06-6S pin assignment

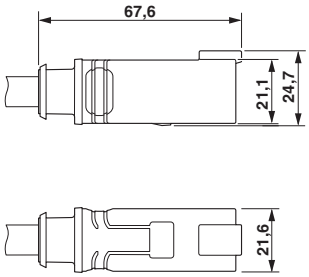
Sensor/Actuator cable - SAC-6P-DTMS/ 1,5-PUR/DTFS - 1415037

Cable cross section



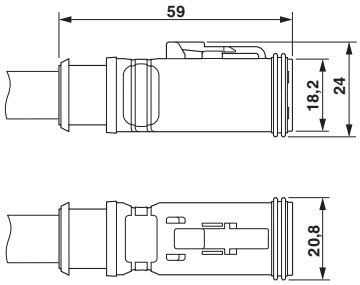
PUR halogen-free black [PUR]

Dimensional drawing



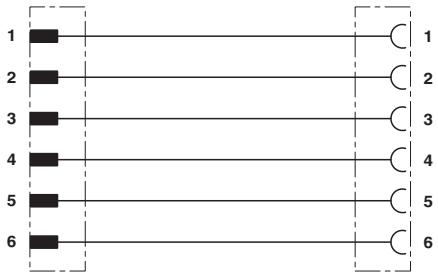
DEUTSCH DT04-6P, top view and side view

Dimensional drawing



DEUTSCH DT06-3S, top view and side view

Circuit diagram



Contact assignment of the DEUTSCH connectors

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