

Sensor/Actuator cable - SAC-2P- 5,0-PUR/DTFS-1L - 1410730

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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 Clip locking, with 1 LED, Cable length: 5 m



Key commercial data

Packing unit	1 pc
GTIN	 4 046356 924290
Weight per Piece (excluding packing)	180.3 g
Custom tariff number	85444290
Country of origin	Poland

Technical data

Dimensions

Length of cable	5 m
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Ambient conditions

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

General

Rated current at 40°C	8 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	Unwired

Material

Inflammability class according to UL 94	V2
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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 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, 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 ²
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

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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

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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

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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 Ø 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 Ø of 4.4 to 7 mm, any stripping length

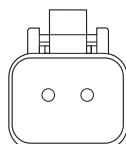
Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

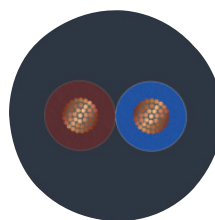
Drawings

Schematic diagram



DEUTSCH DT06-2S pin assignment

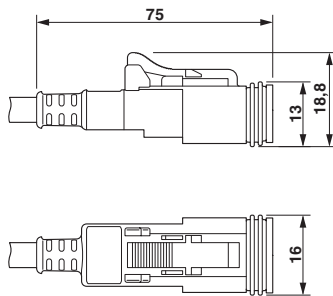
Cable cross section



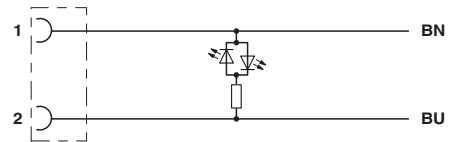
PUR halogen-free, black [PUR]

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Dimensioned drawing



Circuit diagram



Contact assignment of the DEUTSCH DT06-2S

DEUTSCH DT06-2S, top view and side view