

SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable



1414993

<https://www.phoenixcontact.com/nl/products/1414993>

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 documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 2-position, PUR halogen-free, black-gray RAL 7021, Plug straight DEUTSCH DT04-2P Clip locking, coding: A, Wiring: unwired, on Socket straight DEUTSCH DT06-2S Clip locking, Wiring: unwired, cable length: 1.5 m

Commercial data

Item number	1414993
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF1DWA
Product key	AF1DWA
GTIN	4055626036595
Weight per piece (including packing)	76,9 g
Weight per piece (excluding packing)	69 g
Customs tariff number	85444290
Country of origin	DE

SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable



1414993

<https://www.phoenixcontact.com/nl/products/1414993>

Technical data

Product properties

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

Insulation resistance	$\geq 100 \text{ M}\Omega$
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	Plug straight DEUTSCH DT04-2P Clip locking
Number of positions	2
Locking type	Clip locking
Coding type	A
Protective circuit	unwired

Connection 2

Type	Socket straight DEUTSCH DT06-2S Clip locking
Number of positions	2
Locking type	Clip locking
Protective circuit	unwired

Cable/line

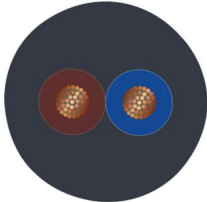
Cable length	1.5 m
--------------	-------

SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable

1414993

<https://www.phoenixcontact.com/nl/products/1414993>

PUR halogen-free black [PUR]

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 ² (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 ²
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

SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable



1414993

<https://www.phoenixcontact.com/nl/products/1414993>

Other resistance	according to UL 758, 168 h at 60 °C
	hydrolysis and microbe resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
	Low adhesion
Special properties	abrasion-resistant
	flexible
Ambient temperature (operation)	Flexible cable conduit capable
	-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
	IP69K
Ambient temperature (operation) (male connector/female connector)	-20 °C ... 80 °C (Plug / socket)

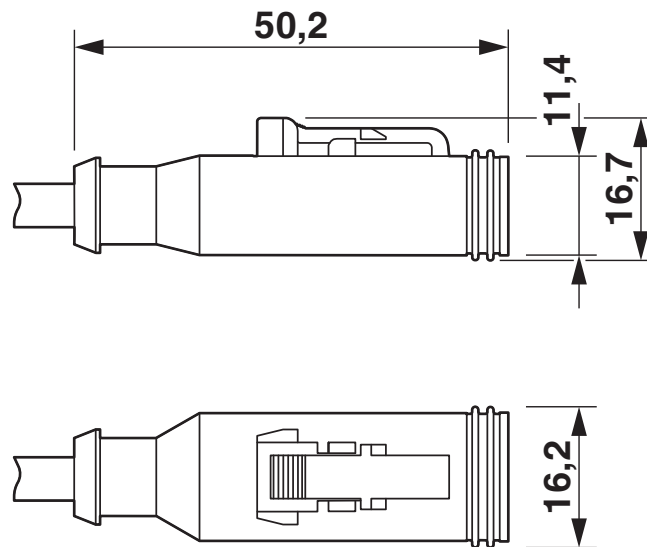
SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable

1414993

<https://www.phoenixcontact.com/nl/products/1414993>

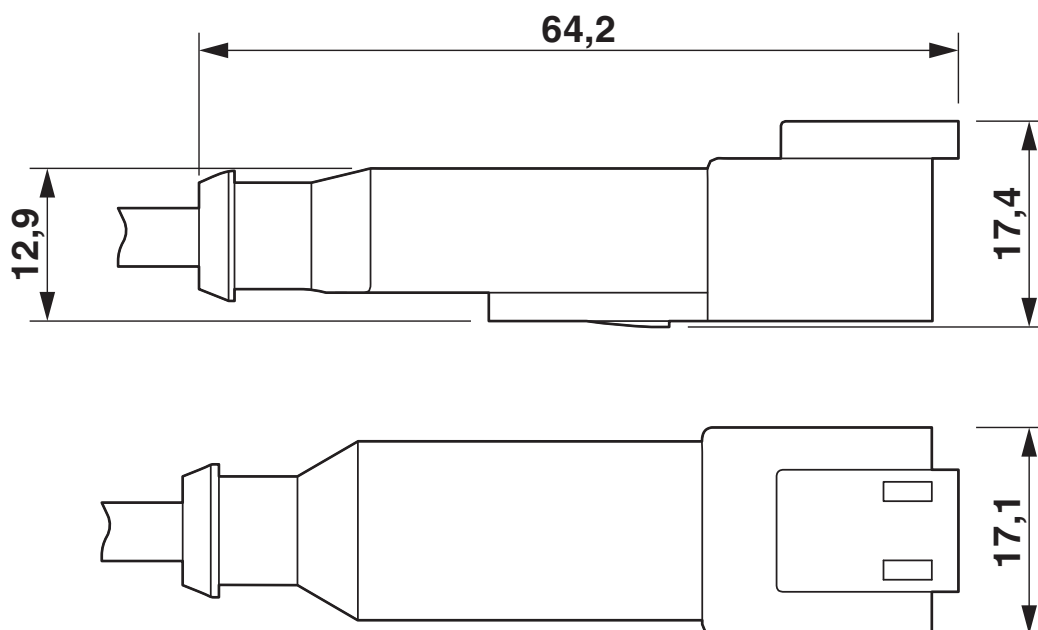
Drawings

Dimensional drawing



DEUTSCH DT06-2S, top view and side view

Dimensional drawing



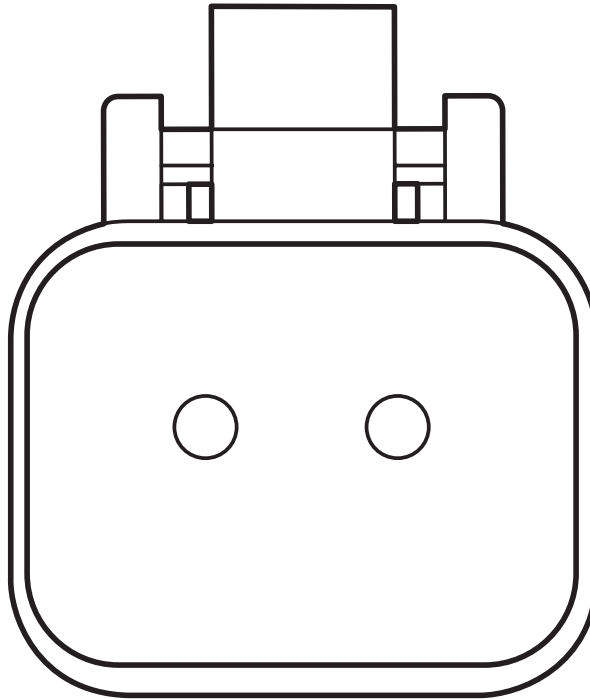
DEUTSCH DT04-2P, top view and side view

SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable

1414993

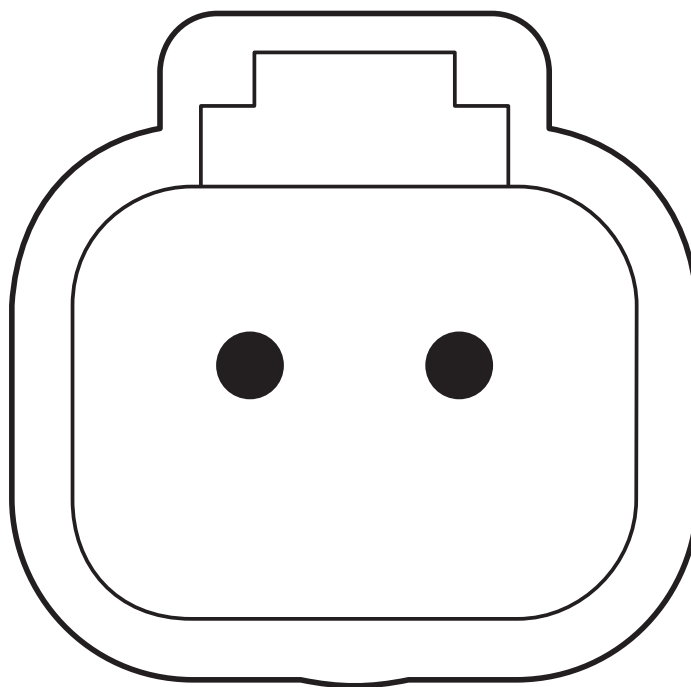
<https://www.phoenixcontact.com/nl/products/1414993>

Schematic diagram



DEUTSCH DT06-2S pin assignment

Schematic diagram



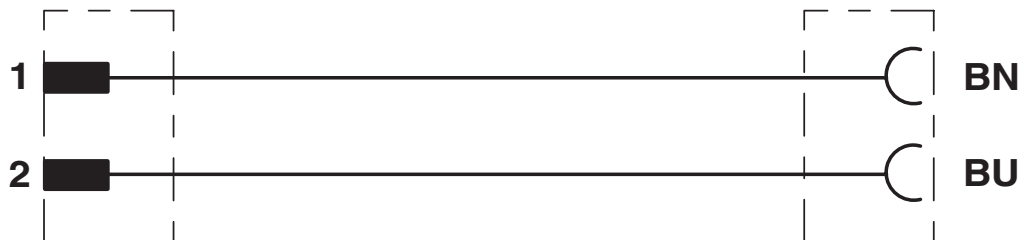
DEUTSCH DT04-2P pin assignment

SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable

1414993

<https://www.phoenixcontact.com/nl/products/1414993>

Circuit diagram



Contact assignment of the DEUTSCH connectors

SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable



1414993

<https://www.phoenixcontact.com/nl/products/1414993>

Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1414993>



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable



1414993

<https://www.phoenixcontact.com/nl/products/1414993>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 10.0	EC001855
-----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

SAC-2P-DTMS/ 1,5-PUR/DTFS - Sensor/actuator cable



1414993

<https://www.phoenixcontact.com/nl/products/1414993>

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	81dd1aa9-56f3-42dd-baee-7d8c6a2bcd7

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT B.V.
Hengelder 56 6902 PA Zevenaar
Postbus 246 6900 AE Zevenaar
(0316) 59 17 20
sales@phoenixcontact.nl