

Sensor/actuator cable - SAC-3P-M 8MS/ 2,0-PUR/M8FR-2L - 1693555


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, 3-position, PUR, black-gray RAL 7021, Plug straight M8, A-coded, on Socket angled M8, A-coded, with 2 LEDs, cable length: 2 m

RoHS

Key Commercial Data

Packing unit	5 pc
Minimum order quantity	25 pc
GTIN	 4 017918 173548
GTIN	4017918173548
Sales Key	02

Technical data

Dimensions

Length of cable	2 m
-----------------	-----

Ambient conditions

Degree of protection	IP65
	IP67
	IP68

General

Rated current at 40°C	4 A
Rated voltage	24 V
	24 V DC
Number of positions	3
Insulation resistance	≥ 100 GΩ
Coding	A - standard
Status display	2 LEDs
Overvoltage category	II
Degree of pollution	3

Sensor/actuator cable - SAC-3P-M 8MS/ 2,0-PUR/M8FR-2L - 1693555

Technical data

General

Insertion/withdrawal cycles	≥ 100
-----------------------------	-------

Material

Flammability rating according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

Standards and Regulations

Flammability rating according to UL 94	HB
--	----

Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9Y11Y-HF
UL AWM style	20549
Conductor cross section	3x 0.25 mm ²
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.17 mm ±0.02 mm
Thickness, insulation	≥ 0.21 mm (Core insulation)
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
External sheath, color	black-gray RAL 7021
Outer sheath thickness	approx. 0.5 mm
External cable diameter D	3.6 mm ±0.15 mm
Smallest bending radius, fixed installation	18 mm
Smallest bending radius, movable installation	36 mm
Number of bending cycles	10000000
Bending radius	44 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s ²
Cable weight	18 kg/km
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 100 GΩ*km (at 20 °C)

Sensor/actuator cable - SAC-3P-M 8MS/ 2,0-PUR/M8FR-2L - 1693555

Technical data

Cable

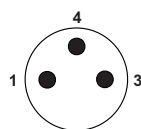
Conductor resistance	≤ 78 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage, cable	≥ 3000 V
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
Halogen-free	in accordance with DIN VDE 0472 part 815
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	hydrolysis and microbe resistant
	Highly resistant to acids, alkaline solutions and solvents
	Resistant to salt water
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (cable, flexible installation)

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

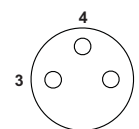
Drawings

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side

Schematic diagram



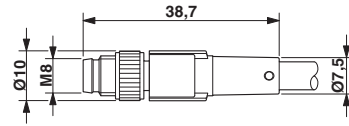
Pin assignment M8 socket, 3-pos., view female side

Sensor/actuator cable - SAC-3P-M 8MS/ 2,0-PUR/M8FR-2L - 1693555

Cable cross section



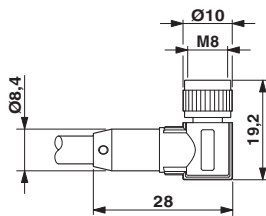
Dimensional drawing



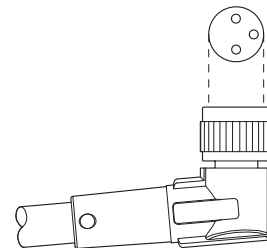
PUR halogen-free black [PUR]

M8 x 1 male plug, straight version

Dimensional drawing



Schematic diagram



Socket M8 x 1, angled, with LED

Layout of connector pin assignments

Approvals

Approvals

Approvals

UL Listed / cUL Listed / cULus Listed


Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 221474
Nominal voltage UN	24 V		
Nominal current IN	4 A		

Sensor/actuator cable - SAC-3P-M 8MS/ 2,0-PUR/M8FR-2L - 1693555

Approvals

cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 221474
Nominal voltage UN		24 V	
Nominal current IN		4 A	

cULus Listed	
--------------	---

Phoenix Contact 2018 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Sensor Cables / Actuator Cables](#) category:

Click to view products by [Phoenix Contact](#) manufacturer:

Other Similar products are found below :

[1300070444](#) [43-10984](#) [M83513/19-F01CP](#) [704000D02F120](#) [MDM15SH001K](#) [MDM25PH003BF222](#) [802027107404-1](#) [885030A09M010](#)
[885030A09M020](#) [1200650174](#) [1200651332](#) [1200651713](#) [1200660171](#) [1200660208](#) [1200660343](#) [1200660804](#) [1200660845](#) [1200660926](#)
[1200660977](#) [1200661173](#) [1200661354](#) [120066-1712](#) [1200720053](#) [1200720099](#) [1200720153](#) [1200720172](#) [1200720217](#) [1200720226](#)
[1200720251](#) [1200720285](#) [1200720296](#) [1200720404](#) [1200730148](#) [1200730378](#) [1200800231](#) [1200860112](#) [1200860121](#) [1200860125](#)
[1200860337](#) [1200860365](#) [1200860420](#) [1200870046](#) [1200870123](#) [1200870248](#) [1200980102](#) [1200660181](#) [1200660183](#) [1200660827](#)
[1200660849](#) [1200661170](#)