

SAC-3P-M8MS/3,0-PUR/M8FRSH AI - Sensor/actuator cable



1402367

<https://www.phoenixcontact.com/us/products/1402367>

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, 3-pos., PUR, halogen free, black-gray RAL 7021, shielded, straight M8 plug, to angled M8 socket, cable length: 5 m

Commercial data

Item number	1402367
Packing unit	1 pc
Minimum order quantity	25 pc
Note	Made to order (non-returnable)
Product key	AF1BIA
GTIN	4046356609005
Weight per piece (including packing)	94 g
Weight per piece (excluding packing)	22.22 g
Country of origin	PL

SAC-3P-M8MS/3,0-PUR/M8FRSH AI - Sensor/actuator cable

1402367

<https://www.phoenixcontact.com/us/products/1402367>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	3
Shielded	yes

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

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

Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

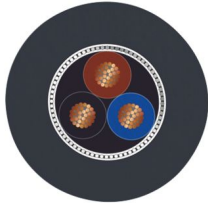
Signaling

Status display	no
Status display present	no

Cable/line

Cable length	3 m
--------------	-----

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	26 kg/km
UL AWM Style	20549
Number of positions	3

SAC-3P-M8MS/3,0-PUR/M8FRSH AI - Sensor/actuator cable



1402367

<https://www.phoenixcontact.com/us/products/1402367>

Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross-section	3x 0.25 mm ² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm (Signal line)
External cable diameter	4.35 mm ±0.2 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, black
Thickness, insulation	≥ 0.21 mm (Core insulation) ≥ 0.50 mm (Outer cable sheath)
Overall twist	3 wires, twisted
Optical shield covering	80 %
Max. conductor resistance	max. 79 Ω/km
Insulation resistance	≥ 100 GΩ*km
Nominal voltage, cable	300 V
Test voltage	3000 V
Smallest bending radius, fixed installation	22 mm
Smallest bending radius, movable installation	44 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 50 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥2000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67

SAC-3P-M8MS/3,0-PUR/M8FRSH AI - Sensor/actuator cable



1402367

<https://www.phoenixcontact.com/us/products/1402367>

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

SAC-3P-M8MS/3,0-PUR/M8FRSH AI - Sensor/actuator cable

1402367

<https://www.phoenixcontact.com/us/products/1402367>

Drawings

Dimensional drawing



Plug M8 x 1, straight, shielded

Schematic diagram



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

SAC-3P-M8MS/3,0-PUR/M8FRSH AI - Sensor/actuator cable



1402367

<https://www.phoenixcontact.com/us/products/1402367>

Schematic diagram



Pin assignment M8 socket, 3-pos.

SAC-3P-M8MS/3,0-PUR/M8FRSH AI - Sensor/actuator cable



1402367

<https://www.phoenixcontact.com/us/products/1402367>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1402367>

 UL Listed Approval ID: FILE E 221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	60 V	4 A	-	-

 cUL Listed Approval ID: FILE E 221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	60 V	4 A	-	-

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

SAC-3P-M8MS/3,0-PUR/M8FRSH AI - Sensor/actuator cable



1402367

<https://www.phoenixcontact.com/us/products/1402367>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

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

UNSPSC

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

SAC-3P-M8MS/3,0-PUR/M8FRSH AI - Sensor/actuator cable



1402367

<https://www.phoenixcontact.com/us/products/1402367>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
-----------------------------------------	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com