

SAC-3P-M12Y/2X3,0-PUR/M 8FR-2LS - Sensor/actuator cable



1534012

<https://www.phoenixcontact.com/us/products/1534012>

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, PUR halogen-free, black-gray RAL 7021, cable length: 3 m

Commercial data

Item number	1534012
Packing unit	5 pc
Minimum order quantity	5 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	AF1COA
GTIN	4017918993559
Weight per piece (including packing)	144.43 g
Weight per piece (excluding packing)	144 g
Customs tariff number	85444290
Country of origin	PL

SAC-3P-M12Y/2X3,0-PUR/M 8FR-2LS - Sensor/actuator cable



1534012

<https://www.phoenixcontact.com/us/products/1534012>

Technical data

Product properties

Product type	Distributor with cable
Shielded	no
Coding	A

Electrical properties

Nominal voltage U_N	24 V DC
-----------------------	---------

Mechanical properties

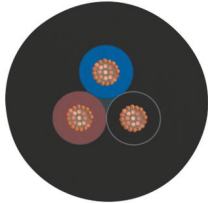
Mechanical data

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

Cable/line

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

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	18 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	3
Shielded	no
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 \pm 0.02 mm
External cable diameter	3.60 mm \pm 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, black
Thickness, insulation	≥ 0.21 mm (Core insulation)
Thickness, outer sheath	approx. 0.50 mm

SAC-3P-M12Y/2X3,0-PUR/M 8FR-2LS - Sensor/actuator cable



1534012

<https://www.phoenixcontact.com/us/products/1534012>

Overall twist	3 wires, twisted
Length of twist, overall twist	40 mm
Max. conductor resistance	≤ 78 Ω/km (at 20 °C)
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, fixed installation	18 mm
Smallest bending radius, movable installation	36 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 44 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥5000000, 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	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)
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

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-M12Y/2X3,0-PUR/M 8FR-2LS - Sensor/actuator cable





1534012

<https://www.phoenixcontact.com/us/products/1534012>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1534012>

 UL Listed Approval ID: FILE E 221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	24 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				
	24 V	4 A	-	-

SAC-3P-M12Y/2X3,0-PUR/M 8FR-2LS - Sensor/actuator cable



1534012

<https://www.phoenixcontact.com/us/products/1534012>

Classifications

ECLASS

ECLASS-13.0	27060313
ECLASS-15.0	27060313

ETIM

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

UNSPSC

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

SAC-3P-M12Y/2X3,0-PUR/M 8FR-2LS - Sensor/actuator cable



1534012

<https://www.phoenixcontact.com/us/products/1534012>

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%
-------------------------------------	----------------------------

EF3.1 Climate Change

CO2e kg	1.34 kg CO2e
---------	--------------

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