

SAC-8P-M12MS/ 2,6-PUR AE - Sensor/actuator cable



1281241

<https://www.phoenixcontact.com/us/products/1281241>

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, Universal, 8-position, PUR halogen-free, black-gray RAL 7021, Plug straight, coding: A, on free cable end, cable length: 2.6 m

Commercial data

Item number	1281241
Packing unit	1 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Product key	AF1CFA
GTIN	4063151478643
Weight per piece (including packing)	124.5 g
Weight per piece (excluding packing)	124.5 g
Country of origin	PL

SAC-8P-M12MS/ 2,6-PUR AE - Sensor/actuator cable



1281241

<https://www.phoenixcontact.com/us/products/1281241>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	8
Shielded	no

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Electrical properties

Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	2 A

Connection data

Conductor connection

Tightening torque	0.4 Nm
-------------------	--------

Connector


Connection 2

Type	free cable end
------	----------------

Cable/line

Cable length	2.6 m
--------------	-------

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	46 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	8
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24

SAC-8P-M12MS/ 2,6-PUR AE - Sensor/actuator cable



1281241

<https://www.phoenixcontact.com/us/products/1281241>

Conductor cross-section	8x 0.25 mm ² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	5.90 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material, filler	PE
Material wire insulation	PP
Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	approx. 0.80 mm
Overall twist	8 wires around filler to the core
Max. conductor resistance	≤ 78 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Wave impedance	100 Ω +15 % (with 1 MHz)
Cable capacity	≤ 70 pF/m
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Minimum bending radius, fixed installation	8 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	48 mm
Smallest bending radius, movable installation	59 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 59 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
Resistance to oil	According to DIN EN 60332-2-2 (20 s)
Other resistance	in accordance with DIN EN 60811-2-1
Special properties	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
	Low adhesion
Ambient temperature (operation)	abrasion-resistant
	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	flexible
	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

SAC-8P-M12MS/ 2,6-PUR AE - Sensor/actuator cable



1281241

<https://www.phoenixcontact.com/us/products/1281241>

Ambient conditions

Degree of protection	IP65
	IP67
	IP68

SAC-8P-M12MS/ 2,6-PUR AE - Sensor/actuator cable





1281241

<https://www.phoenixcontact.com/us/products/1281241>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1281241>

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

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

1281241

<https://www.phoenixcontact.com/us/products/1281241>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

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

UNSPSC

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

SAC-8P-M12MS/ 2,6-PUR AE - Sensor/actuator cable



1281241

<https://www.phoenixcontact.com/us/products/1281241>

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