

SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable



1404202

<https://www.phoenixcontact.com/us/products/1404202>

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, 8-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, coding: A, on Socket angled M8, cable length: 0.6 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save space – with high-pos. connectors

Commercial data

Item number	1404202
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF01
Product key	BF1BGA
Catalog page	Page 207 (C-2-2019)
GTIN	4046356681223
Weight per piece (including packing)	30.1 g
Weight per piece (excluding packing)	30.1 g
Customs tariff number	85444290
Country of origin	PL

SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable



1404202

<https://www.phoenixcontact.com/us/products/1404202>

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A

Data management status

Article revision	06
------------------	----

Insulation characteristics

Degree of pollution	3
---------------------	---

Material specifications

Flammability rating according to UL 94	HB
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

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	1.5 A

Mechanical properties

Mechanical data

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

Signaling

Status display	no
Status display present	No

Connection data

Conductor connection

Tightening torque	0.2 Nm (M8 connectors)
-------------------	------------------------

Connector

SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable



1404202

<https://www.phoenixcontact.com/us/products/1404202>

Connection 1

Type	Plug straight M8
Number of positions	8
Coding type	A

Connection 2

Type	Socket angled M8
Number of positions	8

Cable/line

Cable length	0.6 m
--------------	-------

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	31.4 kg/km
UL AWM Style	20549
Number of positions	8
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	18x 0.10 mm
AWG signal line	26
Conductor cross section	8x 0.14 mm ² (Signal line)
Wire diameter incl. insulation	1 mm ±0.02 mm (Signal line)
External cable diameter	5.10 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 (Signal line) ≥ 0.38 mm (Outer cable sheath)
Overall twist	8 wires around filler to the core
Length of twist, overall twist	58 mm
Max. conductor resistance	139 Ω/km (at 20 °C)
Insulation resistance	1 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC

SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable



1404202

<https://www.phoenixcontact.com/us/products/1404202>

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	25.5 mm
Smallest bending radius, movable installation	51 mm
Max. bending cycles	4000000
Bending radius	51 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
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C
Other resistance	hydrolysis and microbe resistant
	Resistant to salt water
	Low adhesion
	abrasion-resistant
	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 and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

M8

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable

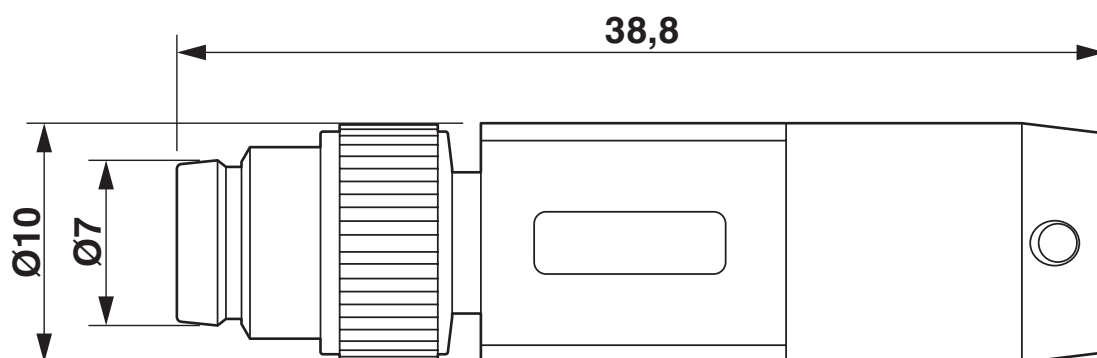


1404202

<https://www.phoenixcontact.com/us/products/1404202>

Drawings

Dimensional drawing



M8 x 1 male plug, straight version

Schematic diagram



M8 plug pin assignment, 8-pos., view of pin side

SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable



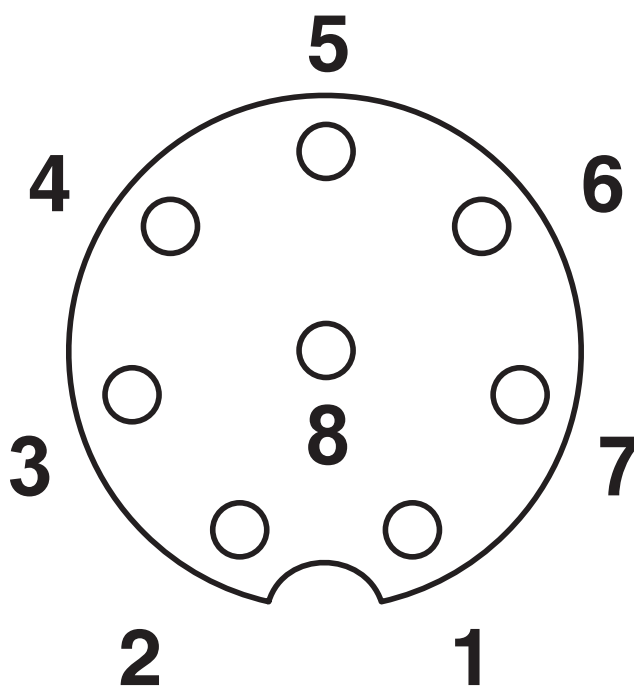
1404202

<https://www.phoenixcontact.com/us/products/1404202>

Circuit diagram



Schematic diagram



Connector pin assignment of M8 socket, 8-pos., view of socket side

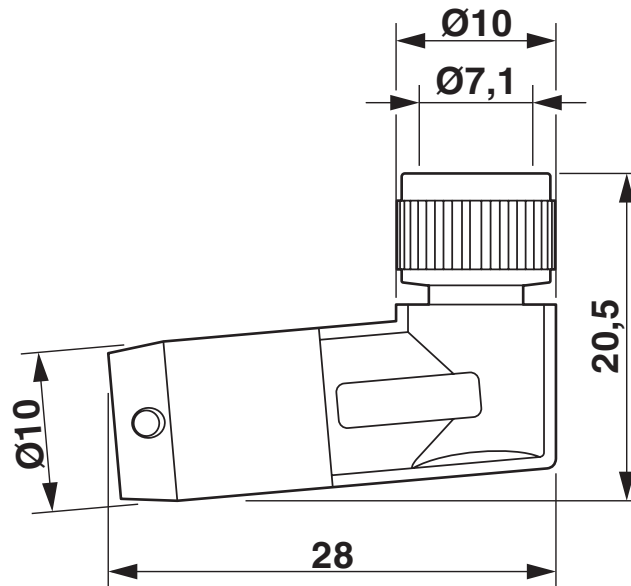
SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable



1404202

<https://www.phoenixcontact.com/us/products/1404202>

Dimensional drawing



Socket M8 x 1, angled

SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable



1404202
<https://www.phoenixcontact.com/us/products/1404202>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1404202>

	UL Listed Approval ID: FILE E 221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	1.5 A	-	-

	cUL Listed Approval ID: FILE E 221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	1.5 A	-	-

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

cULus Listed

SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable



1404202
<https://www.phoenixcontact.com/us/products/1404202>

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

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

SAC-8P-M 8MS/ 0,6-PUR/M 8FR - Sensor/actuator cable



1404202
<https://www.phoenixcontact.com/us/products/1404202>

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 2024 © - 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