

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, free cable end, on Socket straight M8, coding: A, cable length: 15 m

Your advantages

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

Commercial data

Item number	1002651
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF1BGA
GTIN	4055626465333
Weight per piece (including packing)	473.2 g
Weight per piece (excluding packing)	450 g
Country of origin	PL

# SAC-8P-15,0-PUR/M8FS - Sensor/actuator cable



1002651

<https://www.phoenixcontact.com/us/products/1002651>

## Technical data

### Product properties

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

### 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

### Signaling

Status display	no
Status display present	no

### Connector

#### Connection 1

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

#### Connection 2

Type	Socket straight M8
Coding type	A (Standard)

### Cable/line

Cable length	15 m
--------------	------


PUR halogen-free black [PUR]

# SAC-8P-15,0-PUR/M8FS - Sensor/actuator cable



1002651

<https://www.phoenixcontact.com/us/products/1002651>

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 <sup>2</sup> (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
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
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 51 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup>
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

# SAC-8P-15,0-PUR/M8FS - Sensor/actuator cable



1002651

<https://www.phoenixcontact.com/us/products/1002651>

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
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)

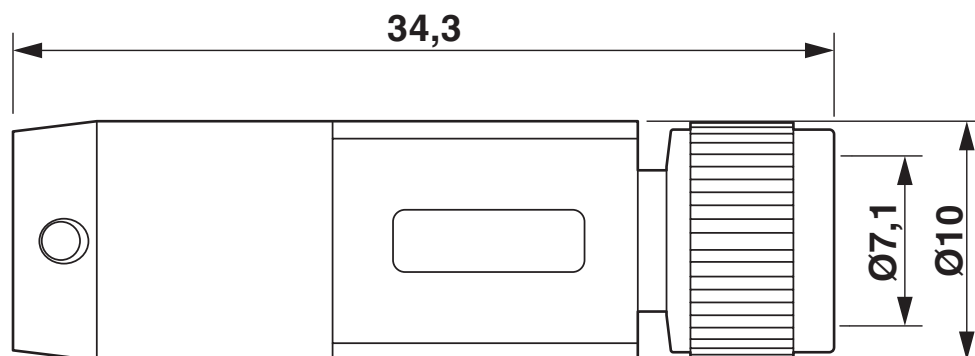
## Standards and regulations

### M8

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

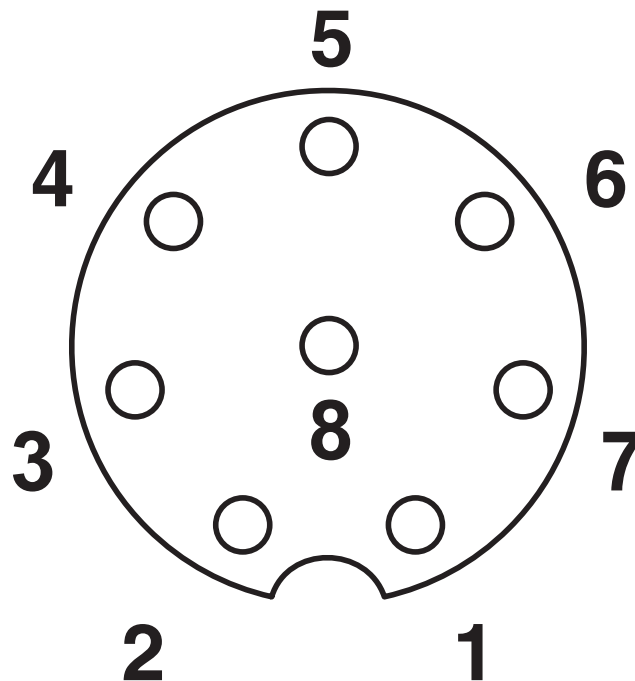
## Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



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

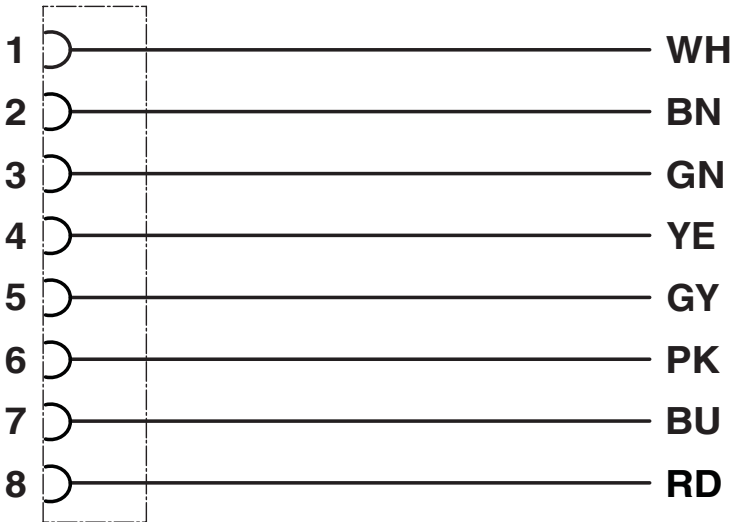
# SAC-8P-15,0-PUR/M8FS - Sensor/actuator cable



1002651

<https://www.phoenixcontact.com/us/products/1002651>

Circuit diagram



Contact assignment of M8 socket

# SAC-8P-15,0-PUR/M8FS - Sensor/actuator cable





1002651

<https://www.phoenixcontact.com/us/products/1002651>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1002651>

 <b>UL Listed</b> Approval ID: FILE E 221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	30 V	1.5 A	-	-

 <b>cUL Listed</b> Approval ID: FILE E 221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	30 V	1.5 A	-	-

# SAC-8P-15,0-PUR/M8FS - Sensor/actuator cable



1002651

<https://www.phoenixcontact.com/us/products/1002651>

## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

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

### UNSPSC

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

# SAC-8P-15,0-PUR/M8FS - Sensor/actuator cable



1002651

<https://www.phoenixcontact.com/us/products/1002651>

## 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%
-------------------------------------	----------------------------

### EF3.0 Climate Change

CO2e kg	11.603 kg CO2e
---------	----------------

Phoenix Contact 2025 © - 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](mailto:info@phoenixcon.com)