SAC-3P-M 8MS/ 2,0-PUR/M 8FS - Sensor/actuator cable

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-position, PUR halogen-free, black-gray RAL 7021, Plug straight M8, coding: A, on Socket straight M8, cable length: 2 m

Your advantages

• Easy and safe: 100 % electrically tested plug-in components

Commercial data

Item number	1500237
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	BF1BBA
GTIN	4017918584795
Weight per piece (including packing)	45.5 g
Weight per piece (excluding packing)	35.76 g
Customs tariff number	85444290
Country of origin	DE

SAC-3P-M 8MS/ 2,0-PUR/M 8FS - Sensor/actuator cable

1500237

https://www.phoenixcontact.com/us/products/1500237

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A

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

Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 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

Connection 1

SAC-3P-M 8MS/ 2,0-PUR/M 8FS - Sensor/actuator cable

PHŒNIX CONTACT

1500237

https://www.phoenixcontact.com/us/products/1500237

Type	Plug straight M8
Number of positions	3
Coding type	A
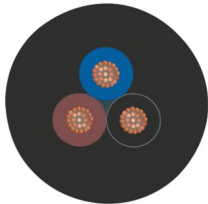
Connection 2

Type	Socket straight M8
Number of positions	3

Cable/line

Cable length	2 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 mm² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	3.60 mm ±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
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

Max. bending cycles	10000000
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

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

Standards and regulations

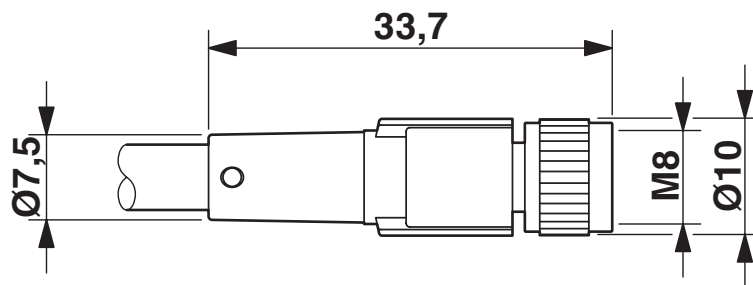|	
Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

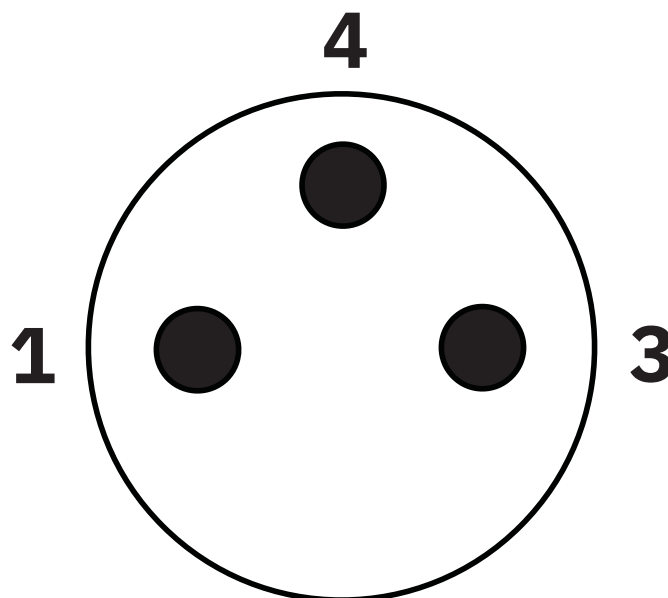# SAC-3P-M 8MS/ 2,0-PUR/M 8FS - Sensor/actuator cable

1500237

https://www.phoenixcontact.com/us/products/1500237

Drawings

Dimensional drawing

33,7

Ø7,5

M8

Ø10

Socket M8 x 1, straight

Schematic diagram

4

1

3

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

SAC-3P-M 8MS/ 2,0-PUR/M 8FS - Sensor/actuator cable

1500237

https://www.phoenixcontact.com/us/products/1500237

Dimensional drawing
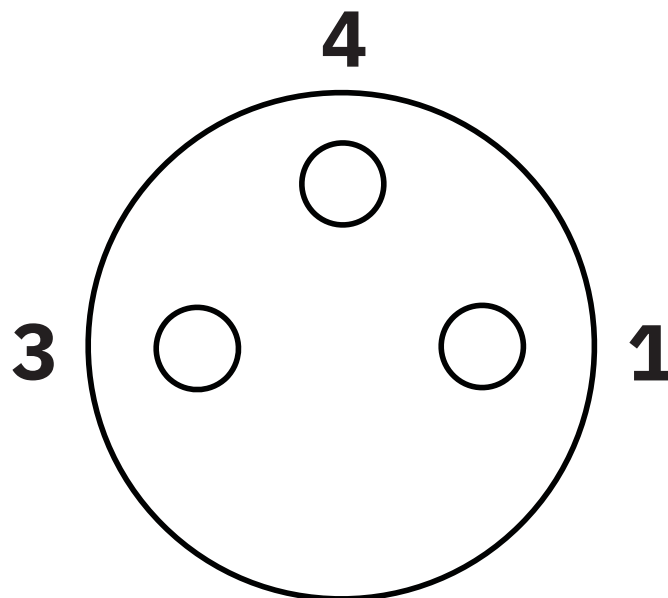
38,7

Ø10 M8 Ø7,5
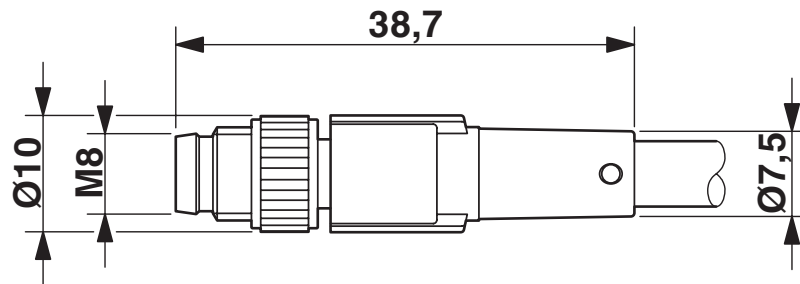
M8 x 1 male plug, straight version

Schematic diagram

4

3   **1**

Pin assignment M8 socket, 3-pos., view female side

SAC-3P-M 8MS/ 2,0-PUR/M 8FS - Sensor/actuator cable

1500237

https://www.phoenixcontact.com/us/products/1500237

Circuit diagram

```
1  ▬━━━━━━━━━━━━━━━━━━━━━━━  ⊂  1

4  ▬━━━━━━━━━━━━━━━━━━━━━━━  ⊂  4

3  ▬━━━━━━━━━━━━━━━━━━━━━━━  ⊂  3
```
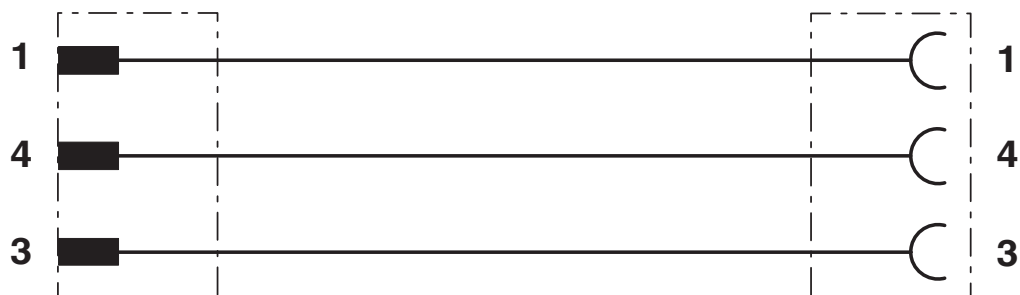
Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1500237

UL Listed
Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	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
	60 V	4 A	-	-

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

cULus Listed

SAC-3P-M 8MS/ 2,0-PUR/M 8FS - Sensor/actuator cable

1500237

https://www.phoenixcontact.com/us/products/1500237

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

SAC-3P-M 8MS/ 2,0-PUR/M 8FS - Sensor/actuator cable

1500237

https://www.phoenixcontact.com/us/products/1500237

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	a68cda68-1747-44d1-8bef-2a37deb2feb1

EF3.0 Climate Change

CO_2e kg	0.193 kg CO_2e

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