

# SAC-4P- 1,5-PUR/M8 FS BK - Sensor/actuator cable



1423612

<https://www.phoenixcontact.com/us/products/1423612>

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M8, coding: A, cable length: 1.5 m

## Commercial data

Item number	1423612
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	AF1IAB
GTIN	4055626349787
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	US

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## Technical data

### Product properties

Product type	Sensor/actuator cable
Number of positions	4
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	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	48 V AC
	60 V DC
Nominal current $I_N$	4 A

### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	$\geq 100$

### Connection data

Conductor connection	
Tightening torque	0.2 Nm (M8 connectors)

### Connector

Connection 1	
Type	free cable end

Connection 2	
Type	Socket straight M8
Number of positions	4

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Coding type

A

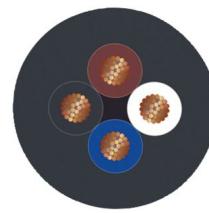
## Cable/line

Cable length

1.5 m

PUR halogen-free black [PUR]

Dimensional drawing



Cable weight

25 kg/km

UL AWM Style

20549

Number of positions

4

Shielded

no

Cable type

PUR halogen-free black [PUR]

Conductor structure signal line

32x 0.10 mm

AWG signal line

24

Conductor cross section

4x 0.25 mm<sup>2</sup> (Signal line)

Wire diameter incl. insulation

1.17 mm ±0.02 mm (Signal line)

External cable diameter

4.40 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, white, blue, black

Thickness, insulation

≥ 0.21 mm (Core insulation)

Thickness, outer sheath

approx. 0.70 mm

Overall twist

4 wires, twisted

Max. conductor resistance

max. 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

22 mm

Smallest bending radius, movable installation

44 mm

Dynamic load capacity (bending)

Max. bending cycles: 4000000, Bending radius: 44 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 5 m/s<sup>2</sup>

Halogen-free

in accordance with DIN VDE 0472 part 815

Flame resistance

in accordance with DIN UL-Style 20549

Resistance to oil

in accordance with DIN EN 60811-2-1

Highly resistant to acids, alkaline solutions and solvents

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Other resistance	hydrolysis and microbe resistant
	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) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

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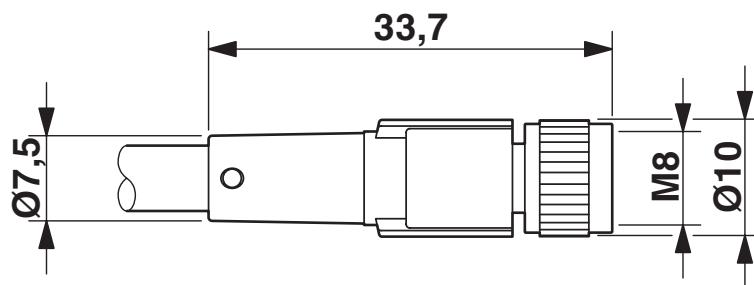
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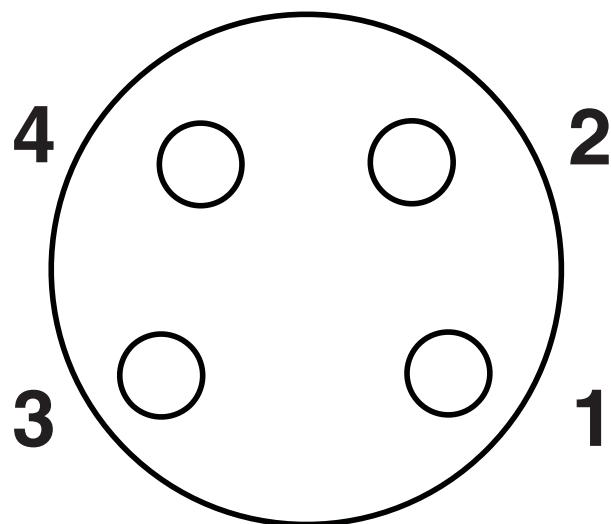
## Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

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1423612

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## Approvals

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UL Listed		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine		30 V	4 A	-	-

cUL Listed		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine		30 V	4 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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