

# SAC-3P-M 8MS/10,0-280/M 8FS BK - Sensor/actuator cable



1400348

<https://www.phoenixcontact.com/us/products/1400348>

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Sensor/actuator cable, 3-position, PUR halogen-free, silver-gray RAL 7001, Plug straight M8, coding: A, on Socket straight M8, cable length: 10 m

## Commercial data

Item number	1400348
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF1BBA
GTIN	4046356490436
Weight per piece (including packing)	250.5 g
Weight per piece (excluding packing)	222.22 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Sensor/actuator cable
Number of positions	3
No. of cable outlets	1
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

### Signaling

Status display	no
Status display present	no

### Connector

#### Connection 1

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	10 m
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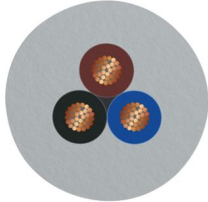
PUR halogen-free gray [280]

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Dimensional drawing	
Cable weight	24 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free gray [280]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross-section	0.25 mm <sup>2</sup>
Wire diameter incl. insulation	1.17 mm ±0.02 mm
External cable diameter	4.40 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	silver-gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation) approx. 0.90 mm (Outer cable sheath)
Overall twist	3 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	44 mm
Smallest bending radius, movable installation	44 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 44 mm, Traversing path: 10 m, Traversing rate: 3 m/s
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 DIN UL-Style 20549
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

Ambient conditions

IP65

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Degree of protection	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

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## Drawings

Dimensional drawing



M8 x 1 male plug, straight version

Dimensional drawing



Socket M8 x 1, straight

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Schematic diagram



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

Schematic diagram



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

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Circuit diagram



Contact assignment of M8 plugs/sockets

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## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

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