

# SAC-3P-5,0-100/M8FR B-IH - Sensor/actuator cable



1404258

<https://www.phoenixcontact.com/us/products/1404258>

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Sensor/actuator cable, 3-position, PUR/PVC, gray RAL 7001, free cable end, on Socket angled M8, cable length: 5 m

as in the figure, but gray conductor

## Commercial data

Item number	1404258
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1BBA
GTIN	4046356682565
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	DE

## Technical data

### Product properties

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

### 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	free cable end
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#### Connection 2

Type	Socket angled M8
Number of positions	3

### Cable/line

Cable length	5 m
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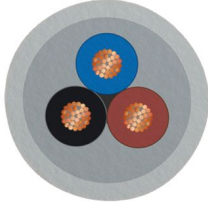
PUR/PVC gray [100]

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Dimensional drawing	
Cable weight	27 kg/km
Number of positions	3
Shielded	no
Cable type	PUR/PVC gray [100]
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	1.32 mm ±0.02 mm
External cable diameter	4.40 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue, black
Thickness, insulation	≥ 0.23 mm (Core insulation) ≥ 0.38 mm (Outer cable sheath) approx. 3.50 mm ±0.1 mm (Inner sheath)
Overall twist	3 wires, twisted
Max. conductor resistance	max. 78 Ω/km (at 20 °C)
Insulation resistance	≥ 100 MΩ*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: 2000000, Bending radius: 44 mm, Traversing path: 5 m, Traversing rate: 3 m/s
Flame resistance	As per UL-Style 2464
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65 IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket) -25 °C ... 80 °C (cable, fixed installation)

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-5 °C ... 80 °C (Cable, flexible installation)

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## Drawings

Dimensional drawing



Socket M8 x 1, angled

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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## 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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