

# Sensor/actuator cable - SAC-5P-M 8MSB/0,48-115 - 1413096

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Sensor/actuator cable, 5-position, PUR, black-gray RAL 7021, Plug straight M8, B-coded, on free cable end, cable length: 0.48 m

## Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Our standard: robust halogen-free PUR cable

## Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	
GTIN	4046356985291

## Technical data

### Dimensions

Length of cable	0.48 m
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### Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
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### General

Rated current at 40°C	3 A
Rated voltage	30 V AC
	30 V DC
Number of positions	5
Insulation resistance	≥ 100 MΩ
Coding	B - inverse
Standards/regulations	M8 connector IEC 61076-2-104
Status display	No

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## Technical data

### General

Protective circuit/component	unwired
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100

### Material

Flammability rating according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR

### Standards and Regulations

Standard designation	M8 connector
Standards/regulations	IEC 61076-2-104
Flammability rating according to UL 94	HB

### Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	115
Cable abbreviation	Li9Y11Y
UL AWM style	20549
Conductor cross section	0.25 mm <sup>2</sup>
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.17 mm ±0.02 mm
Thickness, insulation	approx. 0.21 mm (Core insulation)
	approx. 0.7 mm (Outer cable sheath)
Wire colors	Brown, white, blue, black, gray
Overall twist	5 cores, twisted
Length of twist, overall twist	75 mm
External sheath, color	black-gray RAL 7021
External cable diameter D	4.7 mm ±0.15 mm
Smallest bending radius, fixed installation	23.5 mm
Smallest bending radius, movable installation	47 mm
Number of bending cycles	4000000
Bending radius	47 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>

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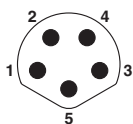
## Technical data

### Cable

Cable weight	30 kg/km
Outer sheath, material	PUR
Material, filler	PP
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 1 \text{ G}\Omega \cdot \text{km}$
Conductor resistance	$\leq 75 \text{ }\Omega/\text{km}$
Nominal voltage, cable	$\leq 300 \text{ V (AC)}$
Test voltage, cable	$\geq 3000 \text{ V (AC)}$
Flame resistance	according to UL 758/1581 (horizontal)
	in accordance with UL 758/1581 FT2
Halogen-free	in accordance with DIN VDE 0472 part 815
	in accordance with DIN EN 50267-2-1
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C
Other resistance	hydrolysis and microbe resistant
	Resistant to salt water
	Low adhesion
	abrasion-resistant
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (cable, flexible installation)

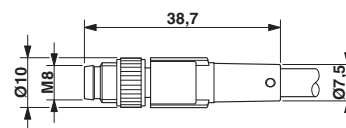
## Drawings

Schematic diagram



Pin assignment, pin side, M8, 5-pos., B-coded

Dimensional drawing



M8 x 1 male plug, straight version

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Circuit diagram



Contact assignment of the M8 plug

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