

## Sensor/actuator cable - SAC-4P-M12MSS/ 0,5-PUR PE - 1413185

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12 SPEEDCON, S-coded, on free cable end, cable length: 0.5 m, for AC current up to 12 A/630 V

### Your advantages

- Easy and safe: 100% electrically tested plug-in components
- High-performance: AC connectors for up to 12 A and 630 V AC
- Protection against incorrect connection using special S-coding
- Save time, thanks to installation with SPEEDCON fast locking system
- Our standard: robust halogen-free PUR cable



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
GTIN	 4 046356 992558
GTIN	4046356992558

### Technical data

#### Dimensions

Length of cable	0.5 m
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
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#### General

Rated current at 40°C	12 A
Rated voltage	690 V AC
Number of positions	4
Insulation resistance	≥ 10 GΩ
Coding	S power
Status display	No

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## Technical data

### General

Protective circuit/component	unwired
Overvoltage category	III
Degree of pollution	3
Insertion/withdrawal cycles	> 100

### Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated

### Standards and Regulations

Flammability rating according to UL 94	V0
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### Cable

Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
Cable abbreviation	Li9YV1-11Y
UL AWM style	20234 / 10492 (80°C/1000 V)
Conductor cross section	4x 1.5 mm <sup>2</sup>
AWG power supply	16
Conductor structure, voltage supply	78x 0.15 mm
Core diameter including insulation	2.45 mm ±0.05 mm
Thickness, insulation	≥ 0.36 mm
Wire colors	Black 1, black 2, black 3, green/yellow
Overall twist	4 wires, twisted
Length of twist, overall twist	93 mm
External sheath, color	black-gray RAL 7021
Outer sheath thickness	approx. 1.3 mm
External cable diameter D	8.8 mm ±0.25 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	2000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Cable weight	114 kg/km
Outer sheath, material	PUR
Material conductor insulation	PP

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## Technical data

### Cable

Conductor material	Bare Cu litz wires
Insulation resistance	$\geq 1 \text{ G}\Omega \cdot \text{km}$ (at 20 °C)
Conductor resistance	$\leq 13 \Omega/\text{km}$ (at 20 °C)
Nominal voltage, cable	$\leq 1000 \text{ V AC}$
Test voltage, cable	$\geq 10000 \text{ V AC}$ (Spark test)
Flame resistance	According to UL 758/1581 (Cable Flame) according to UL 758/1581 FT1
	According to DIN EN 60332-1-2
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
	According to UL 758, 168 h at 60°C
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
	Low adhesion
	abrasion-resistant
	Resistant to salt water
Ambient temperature (operation)	-50 °C ... 80 °C (cable, fixed installation) -30 °C ... 80 °C (cable, flexible installation)

### Environmental Product Compliance

REACH SVHC	DOTE 15571-58-1
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

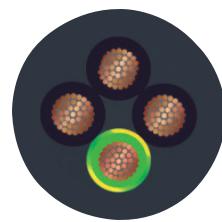
## Drawings

Schematic diagram



M12 plug pin assignment, 4-pos., S-coded, plug side view

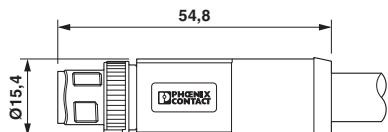
Cable cross section



PUR halogen-free black [PUR]

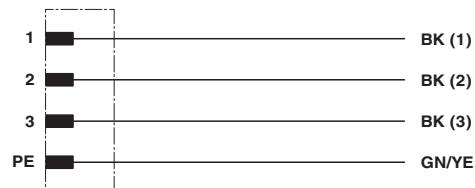
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Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram



Contact assignment of the M12 plug

### Approvals

#### Approvals

##### Approvals

UL Listed / cUL Listed / cULus Listed

##### Ex Approvals

#### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISELECT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISELECT/1FRAME/index.htm</a>	E468743
Nominal voltage UN		600 V	
Nominal current IN		12 A	
mm <sup>2</sup> /AWG/kcmil		16	

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISELECT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISELECT/1FRAME/index.htm</a>	E468743
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cULus Listed	
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