

## Sensor/actuator cable - SAC-12P-MS/ 3,0-PUR SCO - 1430543

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Sensor/actuator cable, 12-position, PUR halogen-free, black RAL 9005, Plug straight M12 SPEEDCON, A-coded, on free cable end, cable length: 3 m

### Your advantages

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Save time, thanks to installation with SPEEDCON fast locking system
- ✓ Our standard: robust halogen-free PUR cable
- ✓ Save space – with high-pos. connectors



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 456364
GTIN	4046356456364

### Technical data

#### Dimensions

Length of cable	3 m
Stripping length of the free conductor end	35 mm

#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
Degree of protection	IP65/IP68/IP69K

#### General

Rated current at 40°C	1.5 A
Rated voltage	30 V AC
	30 V DC
Number of positions	12
Insulation resistance	≥ 100 MΩ

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## Technical data

### General

Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Protective circuit/component	unwired
Overvoltage category	II
Degree of pollution	3
Torque	0.4 Nm (M12 connector)

### Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Zinc die-cast, nickel-plated

### Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Resistance to oil	DIN VDE 0472 Part 803, test type B
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
Flammability rating according to UL 94	V0

### Cable

Conductor cross section	12x 0.14 mm <sup>2</sup> (Signal line)
AWG signal line	26
Conductor structure signal line	18x 0.10 mm
Core diameter including insulation	1 mm ±0.05 mm (Signal line)
Wire colors	white, brown, green, yellow, gray, pink, blue, red, black, violet, gray/pink, red/blue
Overall twist	12 wires twisted in layers
External sheath, color	black RAL 9005
External cable diameter D	7.2 mm
Number of bending cycles	4000000
Bending radius	54 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Outer sheath, material	PUR
Material conductor insulation	PP
Conductor material	Tin-plated Cu litz wires
Conductor resistance	142 Ω/km
Special properties	Low adhesion surface

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### Technical data

#### Cable

Flame resistance	in acc. to UL VW1
	DIN EN 60332-1-2
Halogen-free	in accordance with DIN EN 50267-2-1
Resistance to oil	DIN VDE 0472 Part 803, test type B
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
	partly UV-resistant in accordance with DIN EN ISO 4892-2-A
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (cable, flexible installation)

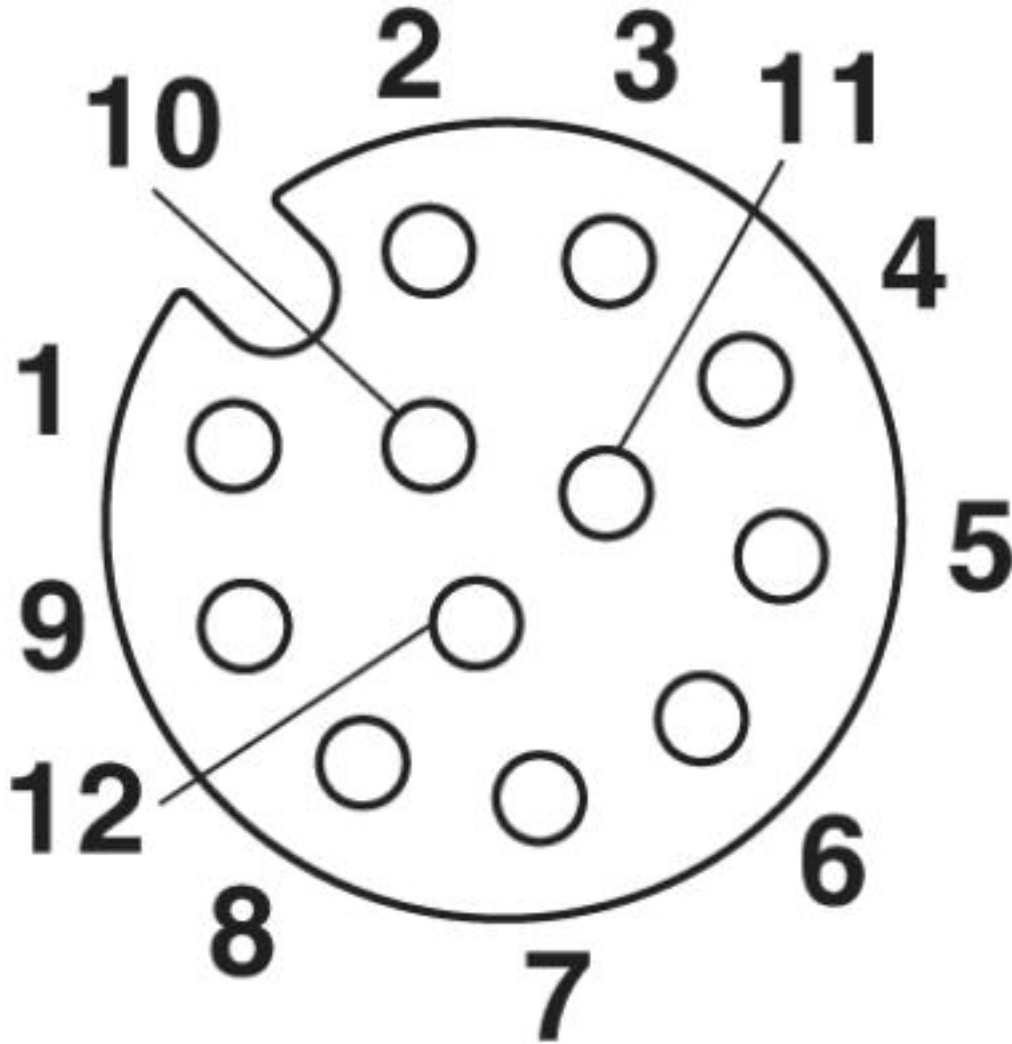
#### Environmental Product Compliance

REACH SVHC	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

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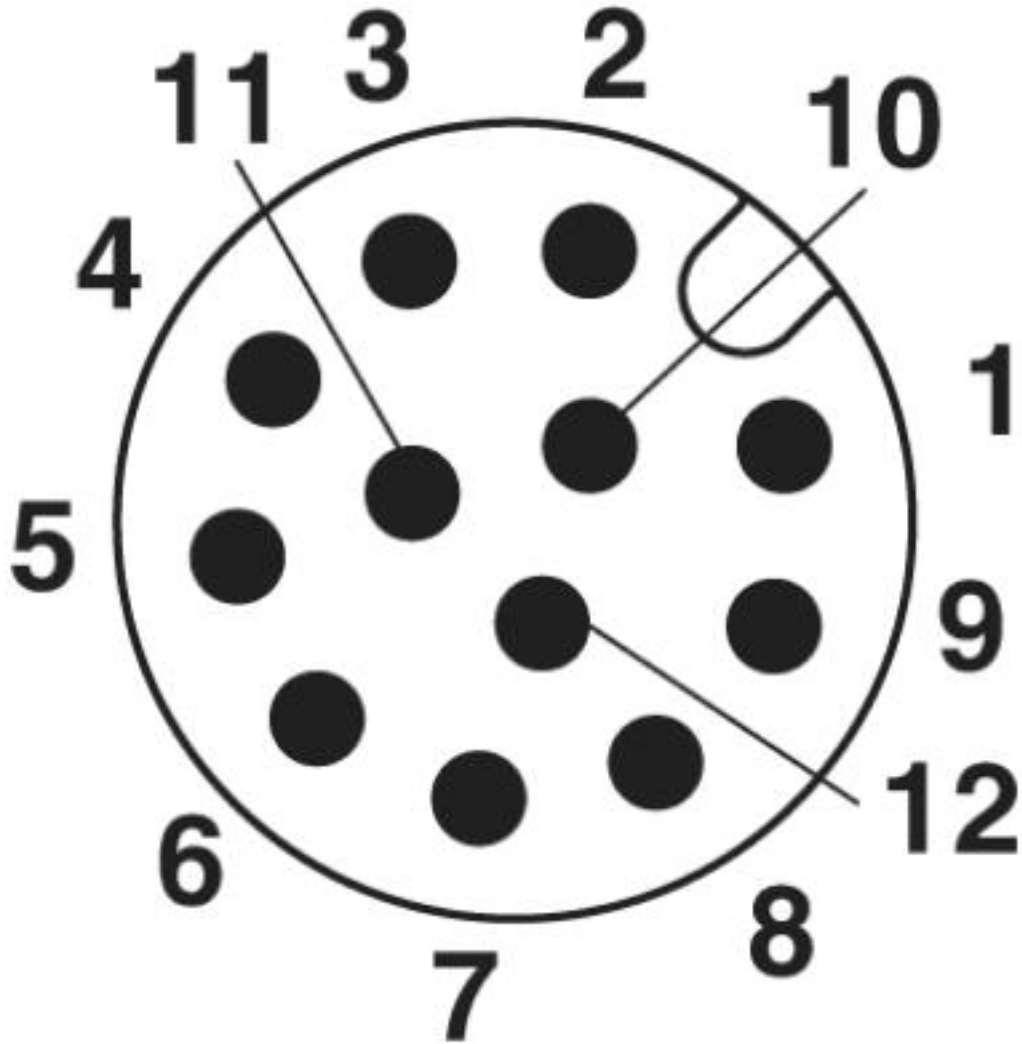
Schematic diagram



Pin assignment M12, 12-pos., female side view

# Sensor/actuator cable - SAC-12P-MS/ 3,0-PUR SCO - 1430543

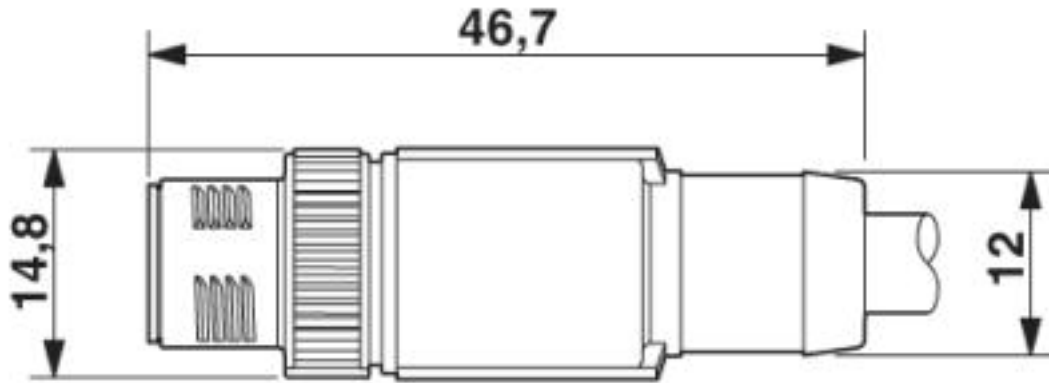
Schematic diagram



Pin assignment M12 male connector, 12-pos., male side view

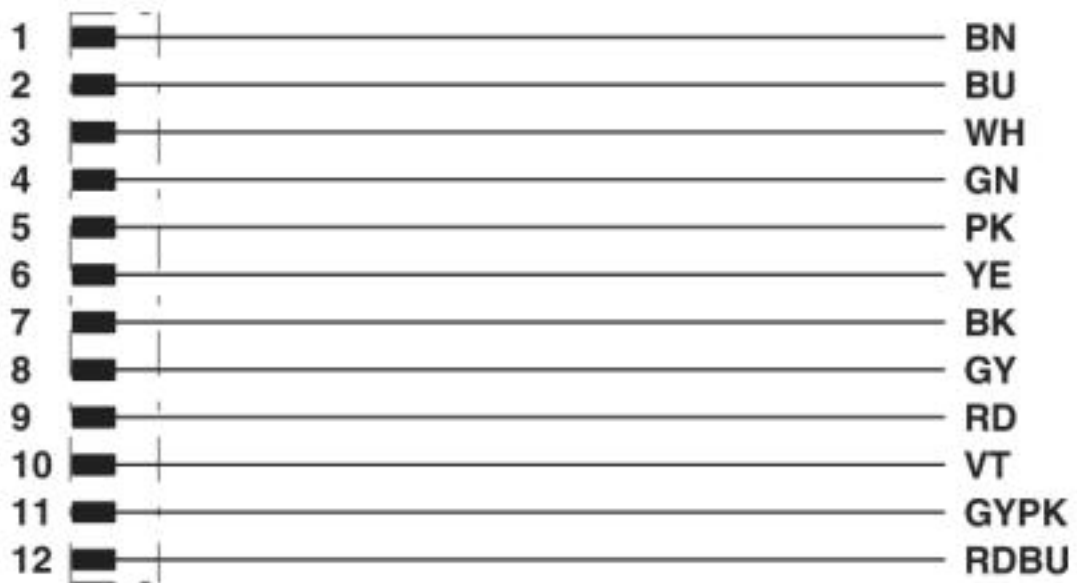
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Dimensional drawing



M12 SPEEDCON plug, straight

Circuit diagram



Contact assignment of the M12 plug

# Sensor/actuator cable - SAC-12P-MS/ 3,0-PUR SCO - 1430543

Cable cross section



PUR halogen-free black [PUR]

## Approvals

Approvals

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Approvals

EAC / UL Listed

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Ex Approvals


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Approval details

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## Approvals

EAC		RU C- DE.BL08.B.00286
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UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 221474
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Nominal voltage UN	30 V
Nominal current IN	1 A

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