

# SAC-5P- 3,0-PUR/M12FR - Sensor/actuator cable



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Huomioi, että tässä ilmoitetut tiedot ovat peräisin online-luettelosta. Täydelliset tiedot löydät käyttöohjeesta. Internet-latausten yleiset käyttöehdot ovat voimassa.

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Sensor/actuator cable, 5-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 3 m

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## Edut

- Easy and safe: 100 % electrically tested plug-in components

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## Tekniset tiedot

### Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	5
No. of cable outlets	1
Shielded	no
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

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	$\geq 100$
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### Signaling

Status display	no
Status display present	no

### Connection data

#### Conductor connection

Tightening torque	0.4 Nm (M12 connector)
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### Connector

#### Connection 1

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Type	free cable end
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## Connection 2

Type	Socket angled M12
Number of positions	5
Coding type	A

## Cable/line

Cable length	3 m
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## PUR halogen-free black [PUR]

Mittapiirros	
Cable weight	33 kg/km
UL AWM Style	20549
Number of positions	5
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross-section	5x 0.34 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	1.27 mm 0.05 mm (Signal line)
External cable diameter	4.55 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black, green-yellow
Thickness, insulation	approx. 0.50 mm
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 16 GΩ*km (at 20 °C)
Nominal voltage, cable	300 V
Test voltage	3000 V
Smallest bending radius, fixed installation	23 mm
Smallest bending radius, movable installation	46 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 46 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup>
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥2000000, Torsional frequency: 35 cycles/min.

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Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant Resistant to salt water partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish flexible
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65 IP67 IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C ... 80 °C (Cable, flexible installation)

## Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

# SAC-5P- 3,0-PUR/M12FR - Sensor/actuator cable

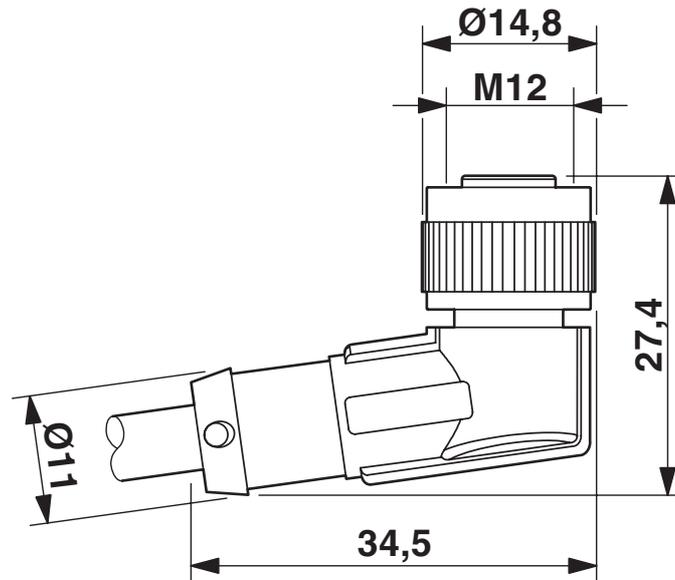
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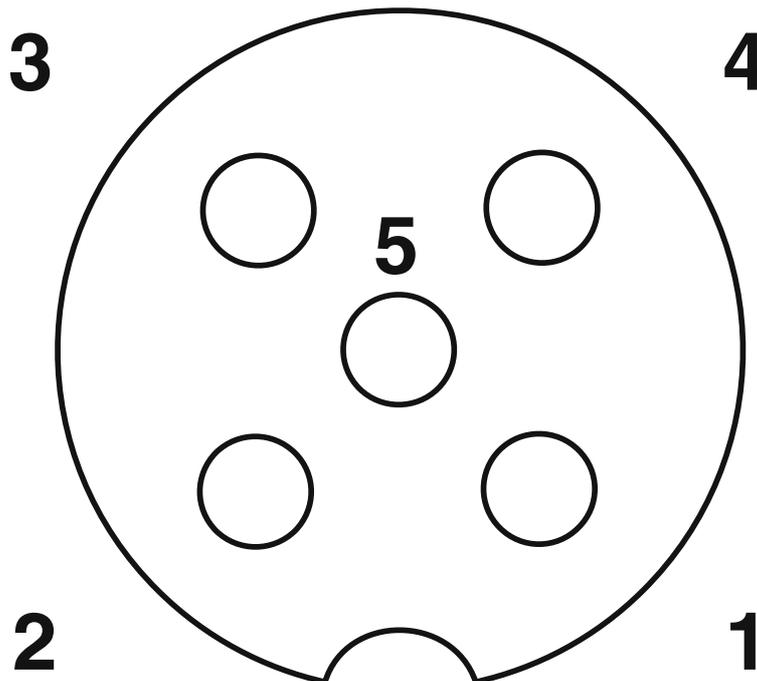
## Piirustukset

Dimensional drawing



M12 x 1 socket, angled

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

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Circuit diagram



Contact assignment of the M12 sockets

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## Hyväksynät

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/fi/tuotteet/1669864>

 <b>UL Listed</b> Hyväksyntätunnus: FILE E 221474				
	Nimellisjännite $U_N$	Nimellisvirta $I_N$	Poikkipinta AWG	Poikkipinta $\text{mm}^2$
keine				
	125 V	4 A	-	-

 <b>cUL Listed</b> Hyväksyntätunnus: FILE E 221474				
	Nimellisjännite $U_N$	Nimellisvirta $I_N$	Poikkipinta AWG	Poikkipinta $\text{mm}^2$
keine				
	125 V	4 A	-	-

 <b>EAC-RoHS</b> Hyväksyntätunnus: RU D-DE.HB35.B.00387				
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## Luokitukset

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

ETIM 10.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Täyttää RoHS-direktiivin vaatimukset	Kyllä, Ei poikkeussäännöksiä
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	Ei raja-arvot ylittäviä vaarallisia aineita

### EU REACH SVHC

Huomautus REACH-kandidaattiaineesta (CAS-nro)	Aineen pitoisuus ei ole yli 0,1 %.
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### EF3.1 Ilmastonmuutos

CO2e kg	1,986 kg CO2e
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