

# SAC-4P-M12MS/ 5,0-280/M12FS-2L - Sensor/actuator cable



1401139

<https://www.phoenixcontact.com/us/products/1401139>

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Sensor/actuator cable, 4-position, PUR halogen-free, gray RAL 7001, Plug straight M12, on Socket straight M12, cable length: 5 m

## Commercial data

Item number	1401139
Packing unit	1 pc
Minimum order quantity	25 pc
Product key	AF1CCA
GTIN	4046356526876
Weight per piece (including packing)	163.7 g
Weight per piece (excluding packing)	163.7 g
Country of origin	PL

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## Technical data

### Product properties

Product type	Sensor/actuator cable
Number of positions	4

### Electrical properties

Nominal voltage $U_N$	24 V DC
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### Mechanical properties

#### Mechanical data

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

#### Connection 1

Type	Plug straight M12
Number of positions	4

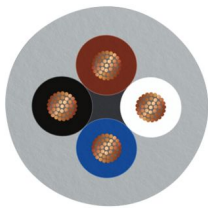
#### Connection 2

Type	Socket straight M12
Number of positions	4

### Cable/line

Cable length	5 m
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#### PUR halogen-free gray [280]

Dimensional drawing	
Cable weight	30 kg/km
Number of positions	4
Shielded	no
Cable type	PUR halogen-free gray [280]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross-section	0.34 mm <sup>2</sup>
Wire diameter incl. insulation	1.27 mm $\pm 0.02$ mm
External cable diameter	4.70 mm $\pm 0.15$ mm

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Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation) approx. 0.80 mm (Outer cable sheath)
Overall twist	4 wires, twisted
Length of twist, overall twist	49.5 mm
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 100 MΩ*km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, fixed installation	23.5 mm
Smallest bending radius, movable installation	47 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 47 mm, 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: ≥5000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1
Flame resistance	in accordance with DIN UL-Style 20549 in accordance with FT1 as per UL 758
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
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

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## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

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## Environmental product compliance

### China RoHS

Environment friendly use period (EFUP)	EFUP-50 An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
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### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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