

# SAC-3P-M12MR/3,0-116 VC - Sensor/actuator cable



1405613

<https://www.phoenixcontact.com/us/products/1405613>

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Sensor/actuator cable, 3-pos., PUR/PVC, black RAL 9005, angled M12 plug, to free cable end, cable length: 3 m

## Commercial data

Item number	1405613
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1CBA
GTIN	4046356750363
Weight per piece (including packing)	160.4 g
Weight per piece (excluding packing)	159.4 g
Country of origin	PL

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## Technical data

### Product properties

Product type	Sensor/actuator cable
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	250 V AC 250 V DC
Nominal current $I_N$	4 A

### Connection data

#### Conductor connection

Tightening torque	0.4 Nm
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### Connector

#### Connection 1

Type	Plug angled M12
Number of positions	3
Coding type	A

#### Connection 2

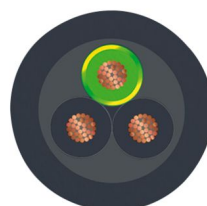
Type	free cable end
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### Cable/line

Cable length	3 m
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PUR/PVC, 0.75 mm<sup>2</sup>, black [116]

Dimensional drawing



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Cable weight	53.4 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR/PVC, 0.75 mm <sup>2</sup> , black [116]
Conductor structure signal line	24x 0.20 mm
AWG signal line	18
Conductor cross-section	3x 0.75 mm <sup>2</sup>
Wire diameter incl. insulation	1.7 mm ±0.05 mm
External cable diameter	5.80 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	black 1, black 2, green/yellow
Overall twist	3 wires, twisted
Max. conductor resistance	26 Ω/km (at 20 °C)
Insulation resistance	≥ 20 MΩ*km
Nominal voltage, cable	300 V
Test voltage	1200 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	29 mm
Smallest bending radius, movable installation	58 mm
Dynamic load capacity (bending)	Max. bending cycles: 1000000, Traversing path: 10 m, Traversing rate: 2 m/s, Acceleration: 2.5 m/s <sup>2</sup>
Flame resistance	DIN VDE 0482 DIN EN 50265-2-1 in acc. with UL FT-2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Low adhesion
Special properties	flexible
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket) -20 °C ... 80 °C (Valve connector) -40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

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## Classifications

### 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

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

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