

# SAC-5P-M12MS/ 3,0-927/M12FS VA - Sensor/actuator cable



1402948

<https://www.phoenixcontact.com/us/products/1402948>

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5-pos. cable, black PVC, shielded, shielded plug, straight M12, A-coded, on shielded socket, straight M12, A-coded with VA knurl, length: 3 m

## Commercial data

Item number	1402948
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF04
Product key	AF1CDD
GTIN	4046356637664
Weight per piece (including packing)	303.2 g
Weight per piece (excluding packing)	285.7 g
Customs tariff number	85444290
Country of origin	PL

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## Technical data

### Product properties

Product type	Data cable preassembled
Number of positions	5

### Electrical properties

Nominal voltage $U_N$	48 V AC
	60 V DC

### Cable/line

CANopen®/DeviceNet™, PVC, black [927]

Cable weight	83 kg/km
UL AWM Style	2464 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	CANopen®/DeviceNet™, PVC, black [927]
Signal runtime	4.46 ns/m
Conductor structure signal line	44x 0.10 mm
AWG signal line	22
Conductor structure, voltage supply	44x 0.10 mm
AWG power supply	22
Conductor cross-section	2x 0.34 mm <sup>2</sup> (Signal line)
	2x 0.34 mm <sup>2</sup> (Power supply)
	1x 0.38 mm <sup>2</sup> (Drain wire)
Wire diameter incl. insulation	2.55 mm (Signal line)
	1.37 mm (Power supply)
External cable diameter	8.30 mm ±0.3 mm
Outer sheath, material	PVC
External sheath, color	black
Conductor material	Tin-plated Cu litz wires
Material wire insulation	Foamed PP (Signal line)
	PVC (Power supply)
Single wire, color	red-black, blue-white
Thickness, insulation	≥ 0.30 mm (Wire insulation power supply)
Thickness, outer sheath	≥ 1.00 mm
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	2 pairs with filler elements, around a drain wire in the center to the core
Optical shield covering	85 %
Max. conductor resistance	≤ 56 Ω/km
Insulation resistance	≥ 20 MΩ*km

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Wave impedance	120 $\Omega$ $\pm$ 12 $\Omega$ (f = 1 MHz)
Working capacitance	approx. 39.8 nF (Signal line, line-line)
	$\leq$ 4000 pF (Signal line, line-shield)
Nominal voltage, cable	$\leq$ 300 V
Test voltage	2000 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	34 mm
Smallest bending radius, movable installation	67 mm
Flame resistance	in acc. with UL 1581, section 1061
Ambient temperature (operation)	-30 °C ... 80 °C

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## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### 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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