

## Sensor/Actuator cable - SAC-4P-M12MS/ 0,6-511/M12FS FB - 1552638


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Sensor/Actuator cable, 4-position, Special mixture on PVC base, black RAL 9005, Plug straight M12, A-coded, on Socket straight M12, A-coded, Cable length: 0.6 m, For the food industry, with high-grade steel knurl

RoHS

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 155977
GTIN	4046356155977
Weight per Piece (excluding packing)	42.500 g
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### Dimensions

Length of cable	0.6 m
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#### Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65
	IP67
	IP68
	IP69K

#### General

Rated current at 40°C	4 A
Rated voltage	250 V

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## Technical data

### General

Number of positions	4
Insulation resistance	$\geq 100 \text{ M}\Omega$
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
Insertion/withdrawal cycles	$\geq 100$
Torque	0.4 Nm (M12 connector)

### Material

Flammability rating according to UL 94	HB
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material of grip body	TPU, hardly inflammable, self-extinguishing
Material, knurls	Stainless steel
Sealing material	NBR

### Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	HB

### Cable

Cable type	PVC black FDA
Cable type (abbreviation)	511
Cable abbreviation	LiYY-HF
Conductor cross section	0.34 mm <sup>2</sup>
AWG signal line	22
Conductor structure signal line	42x 0.10 mm
Core diameter including insulation	1.52 mm $\pm$ 0.05 mm
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
External sheath, color	black RAL 9005
External cable diameter D	5.2 mm $\pm$ 0.2 mm
Outer sheath, material	Special mixture on PVC base
Material conductor insulation	PVC

# Sensor/Actuator cable - SAC-4P-M12MS/ 0,6-511/M12FS FB - 1552638

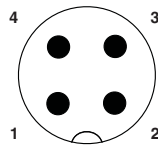
## Technical data

### Cable

Conductor material	Bare Cu litz wires
Nominal voltage, cable	300 V
Test voltage, cable	1500 V
Special properties	FDA compliant
Resistance to oil	good oil-resistance
Other resistance	UV resistant
	Silicone-free
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 90 °C (cable, flexible installation)

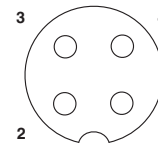
## Drawings

Schematic diagram



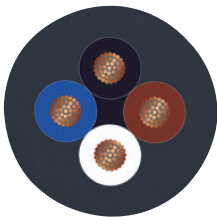
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



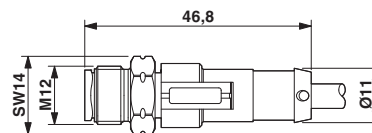
Pin assignment M12 socket, 4-pos., A-coded, view female side

Cable cross section



PVC black FDA [511]

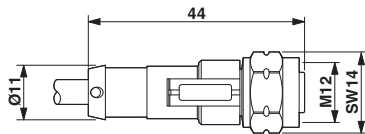
Dimensional drawing



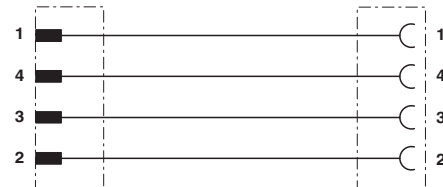
Plug, M12 x 1, straight, shielded

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Dimensional drawing



Circuit diagram



M12 x 1 socket, straight

Contact assignment of the M12 plug and the M12 socket

### Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855
ETIM 6.0	EC001855

UNSPSC

UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501
UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501

### Approvals

Approvals

## Sensor/Actuator cable - SAC-4P-M12MS/ 0,6-511/M12FS FB - 1552638

### Approvals

Approvals

EAC

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Ex Approvals

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### Approval details

EAC		EAC-Zulassung
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### Accessories

Accessories

Screwdriver tools

Adapter - SAC BIT M12-W14 - 1212513



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a hexagonal knurl wrench size of 14 mm, with 4 mm hexagonal drive

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### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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