

## Sensor/Actuator cable - SAC-4P-M12MS/ 0,6-511/M12FR FB - 1552670

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Sensor/Actuator cable, 4-position, Special mixture on PVC base, Black RAL 9005, Plug straight M12, A-coded, on Socket angled M12, A-coded, Cable length: 0.6 m



### Key commercial data

Packing unit	1 1
Weight per Piece (excluding packing)	42.7 GRM
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
Number of positions	4
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101

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### Technical data

#### General

Status display	No
Surge voltage category	II
Pollution degree	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)

#### Material

Inflammability class 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	High-grade steel
Sealing material	NBR

#### 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 ±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 ± 0.2 mm
Outer sheath, material	Special mixture on PVC base
Material conductor insulation	PVC
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)

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## 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	27061801

### ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

### UNSPSC

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

## Approvals

### Approvals

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Approvals

GOST

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Ex Approvals

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Approvals submitted

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### Approval details

GOST
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# Sensor/Actuator cable - SAC-4P-M12MS/ 0,6-511/M12FR FB - 1552670

## Accessories

Accessories

Screwdriver tools

Adapter - SAC BIT M12-W14 - 1212513



SAC nut, for assembling M12 connectors with hexagonal high-grade steel knurl, with 4 mm hexagonal drive

## Torque tool

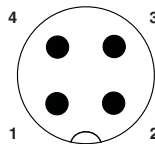
Torque screwdriver - TSD 04 SAC - 1208429



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

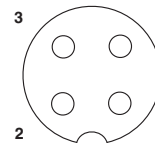
## Drawings

Schematic diagram



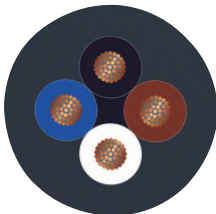
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Schematic diagram



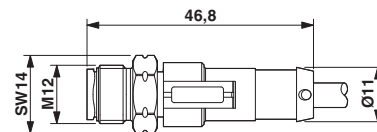
Pin assignment M12 socket, 4-pos., A-coded, view female side

Cable cross section



PVC black FDA [511]

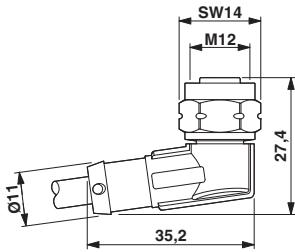
Dimensioned drawing



M12 x 1 plug, straight

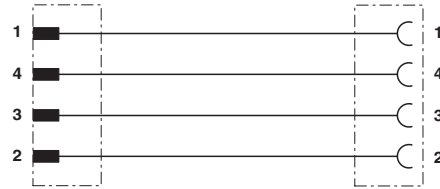
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Dimensioned drawing



M12 x 1 socket, angled

Circuit diagram



Contact assignment of the M12 plug and the M12 socket