

# SAC-3P-MS/5,0-647/FS SCO BK - Sensor/actuator cable



1415137

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Sensor/actuator cable, 3-position, TPE, yellow, Plug straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 5 m

## Commercial data

Item number	1415137
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	AF1IFA
GTIN	4055626048727
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	US

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## Technical data

### Product properties

Product type	Sensor/actuator cable
Application	Standard, U.S. cables
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated
Outer sheath, material	TPE

### Electrical properties

Nominal voltage $U_N$	250 V AC
	250 V DC
Nominal current $I_N$	4 A

### Signaling

Status display	no
Status display present	no

### Connection data

#### Conductor connection

Tightening torque	0.4 Nm (M12 connector)
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### Connector

#### Connection 1

Type	Plug straight M12 SPEEDCON
Number of positions	3
Locking type	SPEEDCON
Coding type	A

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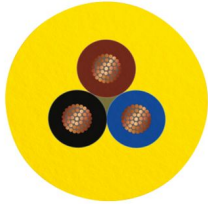
## Connection 2

Type	Socket straight M12 SPEEDCON
Number of positions	3
Locking type	SPEEDCON
Coding type	A

## Cable/line

Cable length	5 m
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## TPE yellow 105 °C [647]

Dimensional drawing	
Cable weight	23 kg/km
UL AWM Style	20327 (105 °C / 300 V)
Number of positions	3
Shielded	no
Cable type	TPE yellow 105 °C [647]
Conductor structure signal line	41x 0.16 mm
AWG signal line	18
Wire diameter incl. insulation	1.8 mm
External cable diameter	5.70 mm ±0.25 mm
Outer sheath, material	TPE
External sheath, color	yellow
Material wire insulation	PVC
Thickness, insulation	0.23 mm
Thickness, outer sheath	0.89 mm
Overall twist	3 wires, twisted
Nominal voltage, cable	300 V
Flame resistance	According to FT1
Resistance to oil	OIL RES I according to UL 2256
Other resistance	UV resistant (720 h) (to UL 2256)
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67

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	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

## Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

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## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight

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Schematic diagram



Pin assignment M12 plug, 3-pos., A-coded, view male side

Schematic diagram



Pin assignment M12 socket, 3-pos., A-coded, view female side

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Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### UNSPSC

UNSPSC 21.0	31251501
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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.

### EU REACH SVHC

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