

## Sensor/Actuator cable - SAC-3P-MR/0,5-542/M8 FS SCO BK - 1406306

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Sensor/Actuator cable, 3-position, yellow, Plug angled M12 SPEEDCON, A-coded, on Socket straight M8, Cable length: 0.5 m



### Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	50.000 g
Custom tariff number	85444290
Country of origin	United States

### Technical data

#### Dimensions

Length of cable	0.5 m
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#### Ambient conditions

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

#### General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	3
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
	M8 connector IEC 61076-2-104

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## Technical data

### General

Status display	No
Protective circuit/component	Unwired
Overvoltage category	II
Degree of pollution	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector)
	0.2 Nm (M8 connectors)

### 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	Zinc die-cast, nickel-plated
Sealing material	NBR

### Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Standard designation	M8 connector
Standards/regulations	IEC 61076-2-104
Flammability rating according to UL 94	HB

### Cable

Cable type	PVC yellow 105 °C
Cable type (abbreviation)	542
UL AWM style	2517 (105°C/300 V)
AWG signal line	24
Core diameter including insulation	1.12 mm ±0.03 mm
Wire colors	brown, blue, black
Overall twist	3 wires, twisted
External sheath, color	yellow
External cable diameter D	4.1 mm ±0.2 mm
Minimum bending radius, flexible installation	8 x D
Cable weight	21 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires

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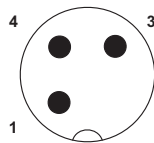
## Technical data

### Cable

Insulation resistance	$\geq (550 \text{ M Ohms/m @ } 500\text{V})$
Conductor resistance	max. $79.7 \text{ } \Omega/\text{km (} 20^\circ \text{ C)}$
Nominal voltage, cable	300 V
Other resistance	UV resistant
Ambient temperature (operation)	$-30 \text{ }^\circ\text{C} \dots 105 \text{ }^\circ\text{C}$ (cable, fixed installation)

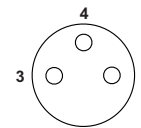
## Drawings

Schematic diagram



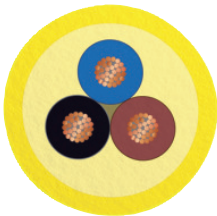
Pin assignment M12 plug, 3-pos., A-coded, view male side

Schematic diagram



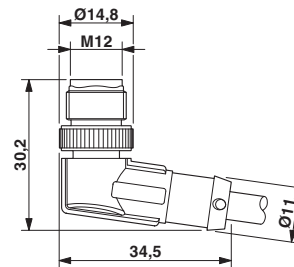
Pin assignment M8 socket, 3-pos., view female side

Cable cross section



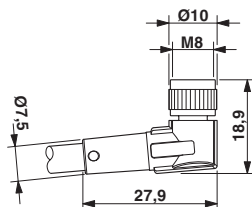
PVC yellow 105 °C [542]

Dimensional drawing



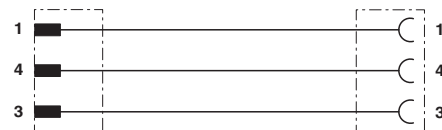
M12 x 1 male plug, angled

Dimensional drawing



Socket M8 x 1, angled

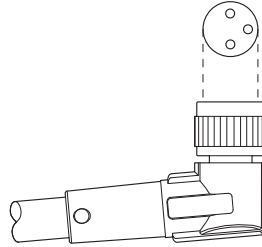
Circuit diagram



Contact assignment of M8 plugs / M12 sockets

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Schematic diagram



Layout of connector pin assignments

## Approvals


Approvals


Approvals

UL Listed / cUL Listed / cULus Listed

Ex Approvals

## Approval details

UL Listed  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 221474	
Nominal current IN	4 A
Nominal voltage UN	125 V

cUL Listed  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 221474	
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cULus Listed 	
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