

# SAC-3P-M8MS/1,5-542/FS SCO BK

Order No.: 1406275



<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=1406275>

Sensor/Actuator cable, 3-position, PVC, Yellow RAL 1021, Plug straight M8, on Socket straight M12 SPEEDCON, A-coded, Cable length: 1.5 m



## Product notes

WEEE/RoHS-compliant since:  
04/03/2012



## Commercial data

EAN	 4 046356 797771
Note	Made-to-order
sales group	D110
Pack	1 Pcs.
Customs tariff	85444290
Gross weight in pieces	0.02222 KG
Net weight per piece	0.02222 KG

<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

## Technical data

### Dimensions

Length of cable	1.5 m
<b>Ambient conditions</b>	
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
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101 M8 connector IEC 61076-2-104
Status display	No
Protective circuit/component	Unwired
Surge voltage category	II
Pollution degree	3
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 connector) 0.2 Nm (M8 connectors)

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

#### 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
Nominal voltage, cable	300 V
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

### Certificates / Approvals



Certification cULus Listed

Certifications applied for:

Certification Ex:

### Accessories

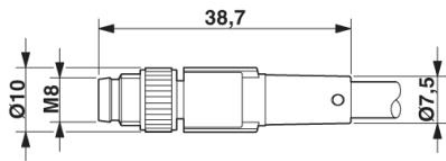
Item	Designation	Description
<b>Fuse</b>		
1558991	SAC-M12-EXCLIP-F	Fuse clip for the socket side of sensor/actuator cables with M12 connector and M12 connectors which can be assembled with QUICKON fast connection technology, prevents the disconnection of plug-in connections without tools
<b>Protection and sealing elements</b>		
1430857	PROT-M 8 FS-PA-CHAIN	M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs
1430899	PROT-M12 MS-PA-CHAIN	M12 sealing cap with fixing band, for sensor cables, for free M12 sockets

**Tools**

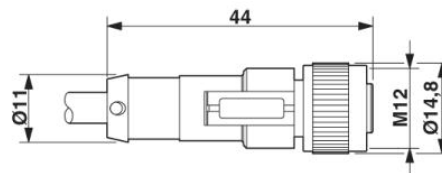
1208432	SAC BIT M12-D15	Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive
1208461	SAC BIT M8-D10	Nut for assembling sensor/actuator cables with M8 connector and for M8 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive
1208487	TSD 02 SAC	Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors
1208429	TSD 04 SAC	Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors
1212224	TSD-M 1,2NM	Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm
1212600	TSD-M SAC-BIT ADAPTER	Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

**Drawings**

Dimensioned drawing

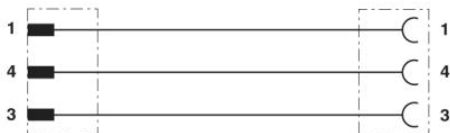


M8 x 1 male plug, straight version



M12 x 1 socket, straight

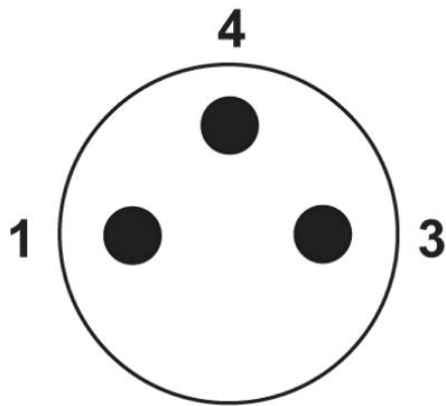
Circuit diagram



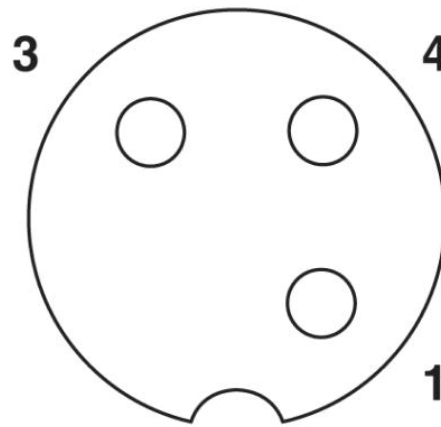
Contact assignment of M8 plugs / M12 sockets

Schematic diagram

---



Pin assignment M8 plug, 3-pos., view male side



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

**Address**

PHOENIX CONTACT Deutschland GmbH  
Flachmarktstr. 8  
32825 Blomberg, Germany  
Phone +49 5235 3 12000  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>



© 2014 Phoenix Contact  
Technical modifications reserved;