

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









# Sensor/Actuator cable - SAC-3P-MS/1,5-542/M8FRSH SCOBK - 1406024

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)



Sensor/Actuator cable, 3-position, PVC, yellow, shielded, Plug straight M12 SPEEDCON, A-coded, on Socket angled M8, Cable length: 1.5 m



# **Key Commercial Data**

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	4 046356 800068
GTIN	4046356800068

#### Technical data

### Dimensions

Length of cable	1.5 m
-----------------	-------

#### Ambient conditions

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

#### General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	3
Insulation resistance	$\geq$ 100 M $\Omega$
Coding	A - standard
Standards/regulations	M8 connector IEC 61076-2-104
	M8 connector IEC 61076-2-104
Status display	No



# Sensor/Actuator cable - SAC-3P-MS/1,5-542/M8FRSH SCOBK - 1406024

# Technical data

# General

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

#### 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
Shielding	Tinned copper braided shield
Optical shield covering	85 %
External sheath, color	yellow
External cable diameter D	4.7 mm ±0.2 mm
Minimum bending radius, flexible installation	12 x D
Cable weight	33 kg/km
Outer sheath, material	PVC
Material conductor insulation	PVC
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ (550 M Ohms/m @ 500V)



# Sensor/Actuator cable - SAC-3P-MS/1,5-542/M8FRSH SCOBK - 1406024

#### Technical data

#### Cable

Conductor resistance	max. 79.7 Ω/km (20° C)
Nominal voltage, cable	300 V
Flame resistance	FT4
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)

# Drawings

Schematic diagram



Schematic diagram



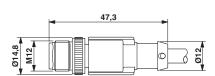
Pin assignment M12 plug, 3-pos., A-coded, view male side

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

Cable cross section



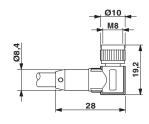
Dimensional drawing



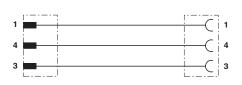
PVC yellow 105 °C [542]

Plug, M12 x 1, straight, shielded

Dimensional drawing



#### Circuit diagram



Socket M8 x 1, angled, shielded

Contact assignment of M12 plugs / M8 sockets

# Approvals

#### Approvals



# Sensor/Actuator cable - SAC-3P-MS/1,5-542/M8FRSH SCOBK - 1406024

# Approvals

Α	nı	or	οv	al	S

UL Listed / cUL Listed / cULus Listed

Ex Approvals

# Approval details

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

cUL Listed	CUL	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE		FILE E 221474
Nominal current IN			4 A	
Nominal voltage UN			125 V	

cULus Listed	C UL US			
--------------	---------	--	--	--

Phoenix Contact 2017 © - all rights reserved http://www.phoenixcontact.com

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstr. 8 32825 Blomberg Germany

Tel. +49 5235 300 Fax +49 5235 3 41200

http://www.phoenixcontact.com