

SAC-3P-M12MR/ 0,5-542/M8FSSHBK -
Sensor/actuator cable

1406027
<https://www.phoenixcontact.com/za/products/1406027>

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 documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 3-position, PVC, yellow, shielded, Plug angled M12, coding: A, on Socket straight M8, cable length: 0.5 m

Commercial data

Item number	1406027
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF1
Product key	BF1IDA
GTIN	4046356800037
Weight per piece (including packing)	23,6 g
Weight per piece (excluding packing)	21,9 g
Customs tariff number	85444290
Country of origin	US

SAC-3P-M12MR/ 0,5-542/M8FSSHBK - Sensor/actuator cable



1406027

<https://www.phoenixcontact.com/za/products/1406027>

Technical data

Product properties

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

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	------------

Signaling

Status display	no
Status display present	No

Connection data

Conductor connection

Tightening torque	0.4 Nm (M12 connector)
	0.2 Nm (M8 connectors)

SAC-3P-M12MR/ 0,5-542/M8FSSHBK - Sensor/actuator cable



1406027

<https://www.phoenixcontact.com/za/products/1406027>

Connector

Connection 1

Type	Plug angled M12
Number of positions	3
Coding type	A

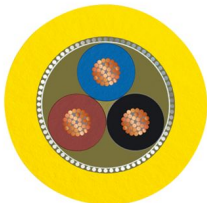
Connection 2

Type	Socket straight M8
Number of positions	3

Cable/line

Cable length	0.5 m
--------------	-------

PVC yellow 105 °C [542]

Dimensional drawing	
Cable weight	33 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	3
Shielded	yes
Cable type	PVC yellow 105 °C [542]
Conductor structure signal line	32x 1.10 mm
AWG signal line	24
Wire diameter incl. insulation	1.12 mm ±0.03 mm
External cable diameter	4.70 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue, black
Overall twist	3 wires, twisted
Optical shield covering	85 %
Max. conductor resistance	max. 79.7 Ω/km (20 °C)
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Nominal voltage, cable	300 V
Minimum bending radius, flexible installation	12 x D
Smallest bending radius, movable installation	57 mm

SAC-3P-M12MR/ 0,5-542/M8FSSHBK - Sensor/actuator cable



1406027

<https://www.phoenixcontact.com/za/products/1406027>

Flame resistance	FT4
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)
	-5 °C ... 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

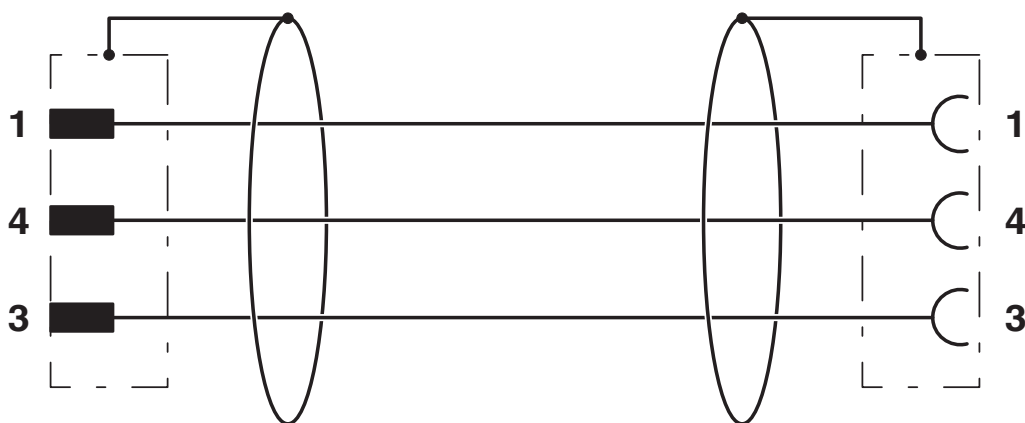
SAC-3P-M12MR/ 0,5-542/M8FSSH BK - Sensor/actuator cable

1406027

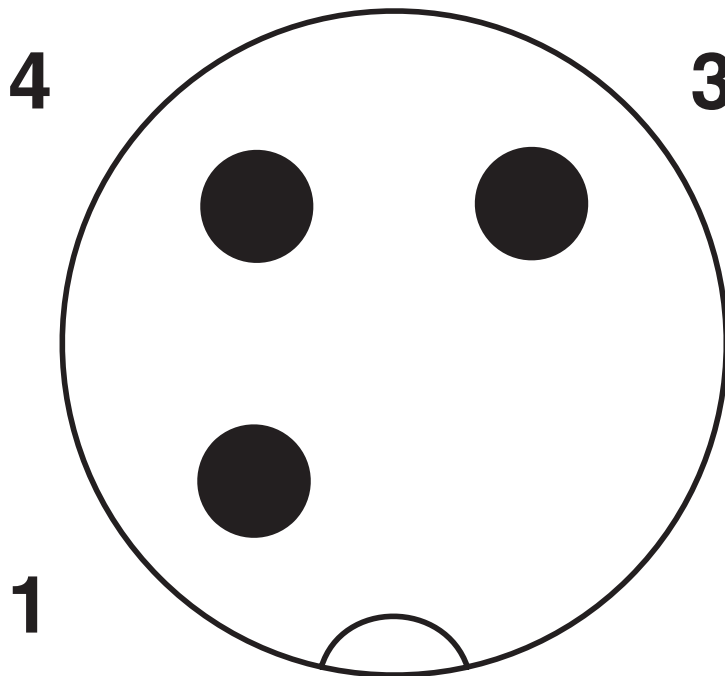
<https://www.phoenixcontact.com/za/products/1406027>

Drawings

Circuit diagram



Schematic diagram



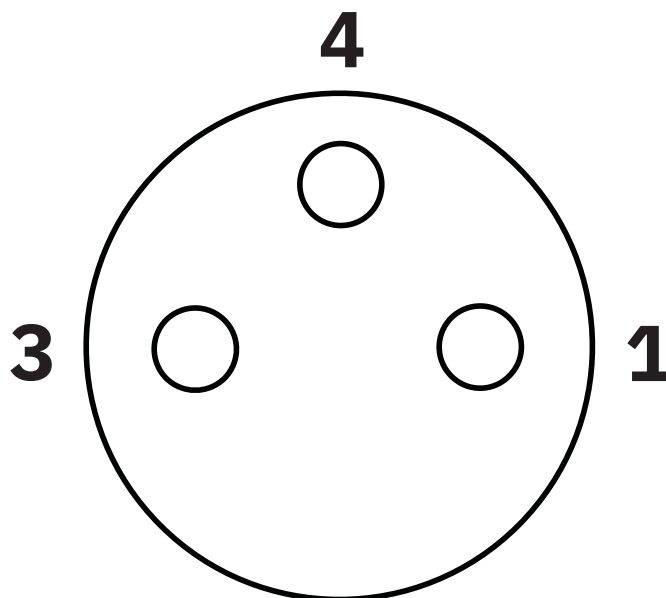
Pin assignment M12 plug, 3-pos., A-coded, view male side

SAC-3P-M12MR/ 0,5-542/M8FSSH BK - Sensor/actuator cable

1406027

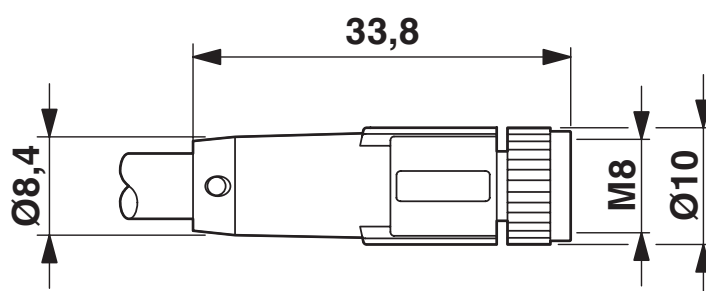
<https://www.phoenixcontact.com/za/products/1406027>

Schematic diagram



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

Dimensional drawing



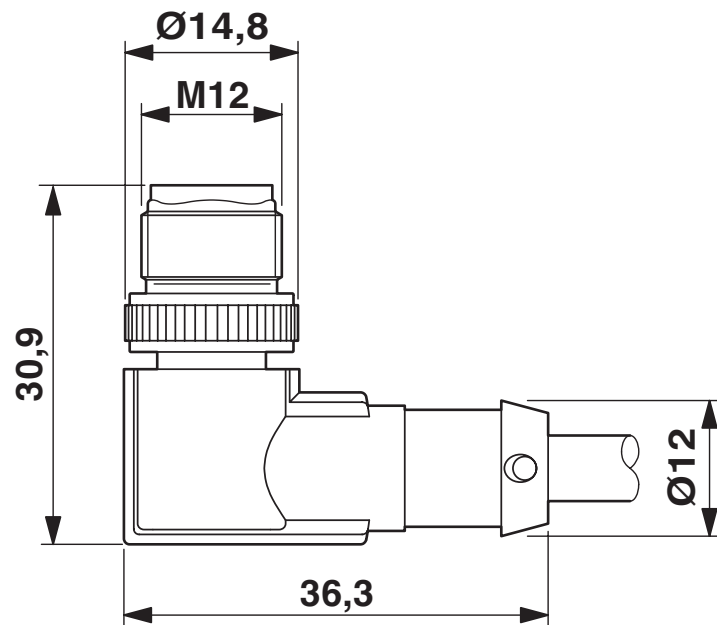
Socket M8 x 1, straight, shielded

SAC-3P-M12MR/ 0,5-542/M8FSSHBK - Sensor/actuator cable

1406027

<https://www.phoenixcontact.com/za/products/1406027>

Dimensional drawing



M12 x 1 male plug, angled, shielded

1406027
<https://www.phoenixcontact.com/za/products/1406027>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/za/products/1406027>

	UL Listed Approval ID: FILE E 221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	125 V	4 A	-	-

	cUL Listed Approval ID: FILE E 221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	125 V	4 A	-	-

	EAC-RoHS Approval ID: RU D-DE.HB35.B.00387			

cULus Listed

SAC-3P-M12MR/ 0,5-542/M8FSSHBK - Sensor/actuator cable



1406027

<https://www.phoenixcontact.com/za/products/1406027>

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

SAC-3P-M12MR/ 0,5-542/M8FSSHBK - Sensor/actuator cable



1406027
<https://www.phoenixcontact.com/za/products/1406027>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
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.)	Lead(CAS: 7439-92-1)
SCIP	eff81618-daa8-4147-9bbc-dcc46bde5c72

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT (Pty) Ltd.
36 Lyn Road P.O. Box 916 ZA-Ferndale 2160

+27/11/801-8200
info@phoenixcontact.co.za