

SAC-4P- 2,0-542/M8 FR SH BK - Sensor/actuator cable



1406021
<https://www.phoenixcontact.com/za/products/1406021>

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, 4-position, PVC, yellow, shielded, free cable end, on Socket angled M8, coding: A, cable length: 2 m

Commercial data

Item number	1406021
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF1
Product key	BF1IBB
GTIN	4046356800099
Weight per piece (including packing)	86,3 g
Weight per piece (excluding packing)	86,3 g
Customs tariff number	85444290
Country of origin	US

SAC-4P- 2,0-542/M8 FR SH BK - Sensor/actuator cable



1406021

<https://www.phoenixcontact.com/za/products/1406021>

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard, U.S. cables
Number of positions	4
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	0.2 Nm (M8 connectors)
-------------------	------------------------

Connector

SAC-4P- 2,0-542/M8 FR SH BK - Sensor/actuator cable



1406021

<https://www.phoenixcontact.com/za/products/1406021>

Connection 1

Type	free cable end
------	----------------

Connection 2

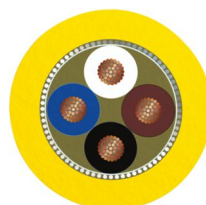
Type	Socket angled M8
Number of positions	4
Coding type	A

Cable/line

Cable length	2 m
--------------	-----

PVC yellow 105 °C [542]

Dimensional drawing



Cable weight	37 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	4
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	4.90 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, white
Overall twist	4 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	59 mm
Flame resistance	FT4
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

SAC-4P- 2,0-542/M8 FR SH BK - Sensor/actuator cable



1406021

<https://www.phoenixcontact.com/za/products/1406021>

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	M8 connector
Standards/specifications	IEC 61076-2-104

SAC-4P- 2,0-542/M8 FR SH BK - Sensor/actuator cable

1406021

<https://www.phoenixcontact.com/za/products/1406021>

Drawings

Dimensional drawing



Socket M8 x 1, angled, shielded

Schematic diagram



Pin assignment M8 socket, 4-pos.

SAC-4P- 2,0-542/M8 FR SH BK - Sensor/actuator cable

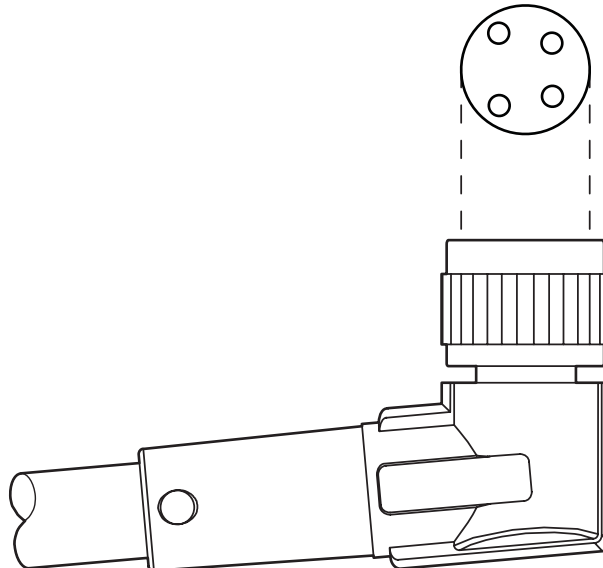
1406021

<https://www.phoenixcontact.com/za/products/1406021>

Circuit diagram



Schematic diagram



Layout of connector pin assignments

SAC-4P- 2,0-542/M8 FR SH BK - Sensor/actuator cable



1406021

<https://www.phoenixcontact.com/za/products/1406021>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/za/products/1406021>

	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			

	cUL Listed Approval ID: FILE E 221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	4 A	-	-

	UL Listed Approval ID: FILE E 221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	4 A	-	-

SAC-4P- 2,0-542/M8 FR SH BK - Sensor/actuator cable



1406021
<https://www.phoenixcontact.com/za/products/1406021>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

1406021
<https://www.phoenixcontact.com/za/products/1406021>

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	ee0650c6-9041-4a60-bac4-aecffe1b9b25

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