

SAC-4P-10,0-542/M12FS SH BK - Sensor/actuator cable



1406187
<https://www.phoenixcontact.com/us/products/1406187>

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 (Tinned copper braided shield), free cable end, on Socket straight M12, coding: A, cable length: 10 m

Commercial data

Item number	1406187
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF13
Product key	BF1IDB
GTIN	4046356798631
Weight per piece (including packing)	494.333 g
Weight per piece (excluding packing)	512.2 g
Customs tariff number	85444290
Country of origin	US

SAC-4P-10,0-542/M12FS SH BK - Sensor/actuator cable



1406187

<https://www.phoenixcontact.com/us/products/1406187>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	4
Application	Standard, U.S. cables
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

Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Protective circuit	unwired

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)
-------------------	------------------------

SAC-4P-10,0-542/M12FS SH BK - Sensor/actuator cable



1406187

<https://www.phoenixcontact.com/us/products/1406187>

Connector

Connection 1

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

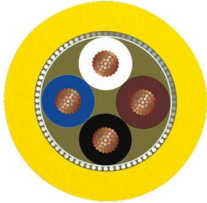
Connection 2

Type	Socket straight M12
Number of positions	4
Coding type	A

Cable/line

Cable length	10 m
--------------	------

PVC yellow 105 °C [542]

Dimensional drawing	
Cable weight	48 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	30x 1.30 mm
AWG signal line	22
Wire diameter incl. insulation	1.27 mm ±0.03 mm
External cable diameter	5.50 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. 50.5 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	66 mm
Flame resistance	FT4

SAC-4P-10,0-542/M12FS SH BK - Sensor/actuator cable



1406187

<https://www.phoenixcontact.com/us/products/1406187>

Other resistance	UV resistant
Special properties	UL standards PLTC and ITC
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

SAC-4P-10,0-542/M12FS SH BK - Sensor/actuator cable



1406187

<https://www.phoenixcontact.com/us/products/1406187>

Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

SAC-4P-10,0-542/M12FS SH BK - Sensor/actuator cable



1406187

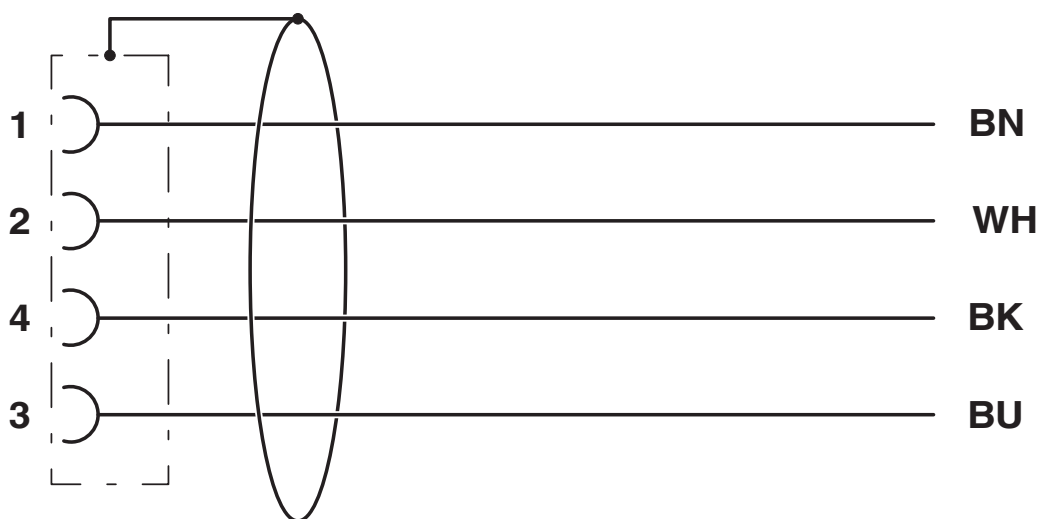
<https://www.phoenixcontact.com/us/products/1406187>

Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

Circuit diagram



SAC-4P-10,0-542/M12FS SH BK - Sensor/actuator cable



1406187
<https://www.phoenixcontact.com/us/products/1406187>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1406187>

	UL Listed Approval ID: FILE E 221474			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	300 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
	300 V	4 A	-	-

cULus Listed

SAC-4P-10,0-542/M12FS SH BK - Sensor/actuator cable



1406187
<https://www.phoenixcontact.com/us/products/1406187>

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-4P-10,0-542/M12FS SH BK - Sensor/actuator cable



1406187
<https://www.phoenixcontact.com/us/products/1406187>

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com