

SAC-4P- 5,0-PVC/M12FR-V2A - Sensor/actuator cable



1501566

<https://www.phoenixcontact.com/us/products/1501566>

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, black RAL 9005, free cable end, on Socket angled M12, coding: A, cable length: 5 m

Commercial data

Item number	1501566
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1CCA
GTIN	4017918615062
Weight per piece (including packing)	183.8 g
Weight per piece (excluding packing)	183.8 g
Customs tariff number	85444290
Country of origin	PL

SAC-4P- 5,0-PVC/M12FR-V2A - Sensor/actuator cable



1501566

<https://www.phoenixcontact.com/us/products/1501566>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	3
No. of cable outlets	1
Shielded	no
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	Stainless steel

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	24 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

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

Signaling

Status display	No
Status display present	No

Connector

Connection 1

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

Connection 2

Type	Socket angled M12
Number of positions	3
Coding type	A

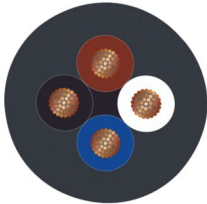
SAC-4P- 5,0-PVC/M12FR-V2A - Sensor/actuator cable



1501566

<https://www.phoenixcontact.com/us/products/1501566>

Cable/line

Cable length	5 m
PVC black [PVC]	
Dimensional drawing	
Cable weight	40 kg/km
UL AWM Style	2464 / 1729 (80°C/300 V)
Number of positions	4
Shielded	no
Cable type	PVC black [PVC]
Conductor structure signal line	19x 0.15 mm
AWG signal line	22
Conductor cross section	4x 0.34 mm ² (Signal line)
Wire diameter incl. insulation	1.26 mm ±0.05 mm
External cable diameter	4.70 mm ±0.15 mm
Outer sheath, material	PVC
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.23 mm (Core insulation)
Thickness, outer sheath	≥ 0.76 mm
Overall twist	4 wires, twisted
Max. conductor resistance	≤ 57 Ω/km (at 20 °C)
Insulation resistance	≥ 200 MΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	24 mm
Smallest bending radius, movable installation	47 mm
Flame resistance	As per UL-Style 2464
Resistance to oil	according to DIN EN 60811-2-1, 168 h at 60 °C
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation) -10 °C ... 80 °C (Cable, flexible installation)

SAC-4P- 5,0-PVC/M12FR-V2A - Sensor/actuator cable



1501566

<https://www.phoenixcontact.com/us/products/1501566>

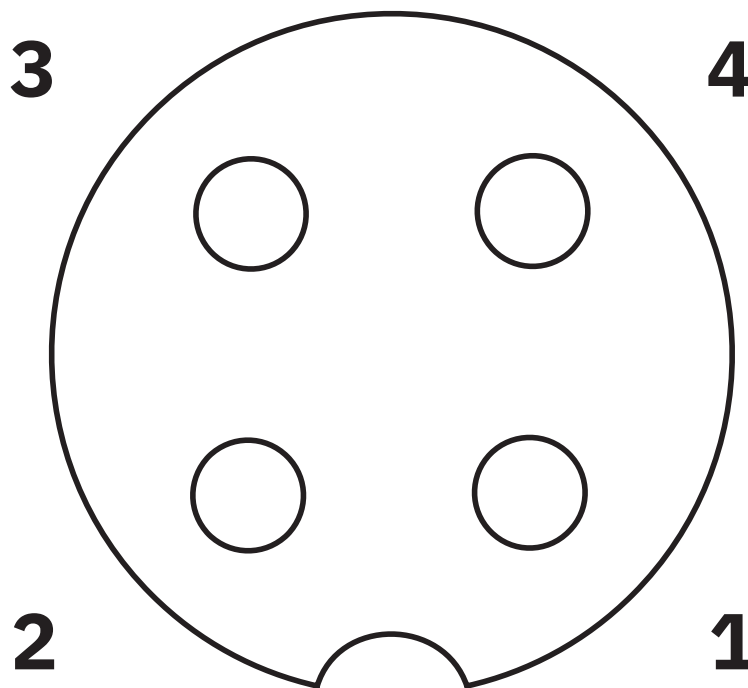
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

Drawings

Schematic diagram



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

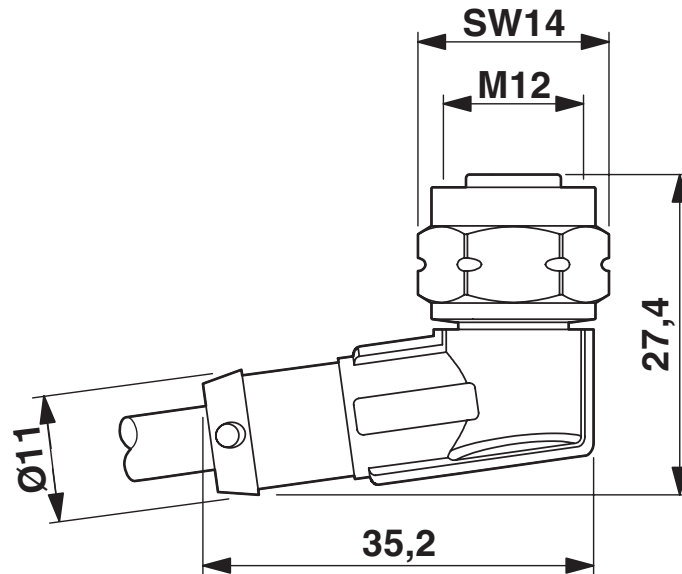
SAC-4P- 5,0-PVC/M12FR-V2A - Sensor/actuator cable



1501566

<https://www.phoenixcontact.com/us/products/1501566>

Dimensional drawing



M12 x 1 socket, angled

SAC-4P- 5,0-PVC/M12FR-V2A - Sensor/actuator cable



1501566

<https://www.phoenixcontact.com/us/products/1501566>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1501566>

	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	-	-

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

cULus Listed				
---------------------	--	--	--	--

SAC-4P- 5,0-PVC/M12FR-V2A - Sensor/actuator cable



1501566

<https://www.phoenixcontact.com/us/products/1501566>

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC001855
----------	----------

UNSPSC

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

SAC-4P- 5,0-PVC/M12FR-V2A - Sensor/actuator cable



1501566

<https://www.phoenixcontact.com/us/products/1501566>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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