

SAC-4P-M12MR/1,0-PVC/M12FR 2/4 - Sensor/actuator cable



1409743

<https://www.phoenixcontact.com/us/products/1409743>

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, black RAL 9005, Plug angled M12, coding: A, on Socket angled M12, coding: A, cable length: 1 m, Special wiring

Commercial data

Item number	1409743
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1CCA
GTIN	4046356881005
Weight per piece (including packing)	58.5 g
Weight per piece (excluding packing)	58.5 g
Country of origin	PL

SAC-4P-M12MR/1,0-PVC/M12FR 2/4 - Sensor/actuator cable



1409743

<https://www.phoenixcontact.com/us/products/1409743>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	4
No. of cable outlets	1
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

Electrical properties

Insulation resistance	$\geq 10 \text{ M}\Omega$
Nominal voltage U_N	250 V AC 250 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	Plug angled M12
Number of positions	4
Coding type	A

Connection 2

Type	Socket angled M12
Number of positions	4

SAC-4P-M12MR/1,0-PVC/M12FR 2/4 - Sensor/actuator cable

1409743

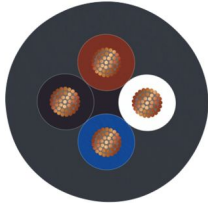
<https://www.phoenixcontact.com/us/products/1409743>

Coding type	A
-------------	---

Cable/line

Cable length	1 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-M12MR/1,0-PVC/M12FR 2/4 - Sensor/actuator cable



1409743

<https://www.phoenixcontact.com/us/products/1409743>

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C ... 80 °C (Cable, flexible installation)

SAC-4P-M12MR/1,0-PVC/M12FR 2/4 - Sensor/actuator cable

1409743

<https://www.phoenixcontact.com/us/products/1409743>

Drawings

Dimensional drawing



M12 x 1 male plug, angled

Dimensional drawing



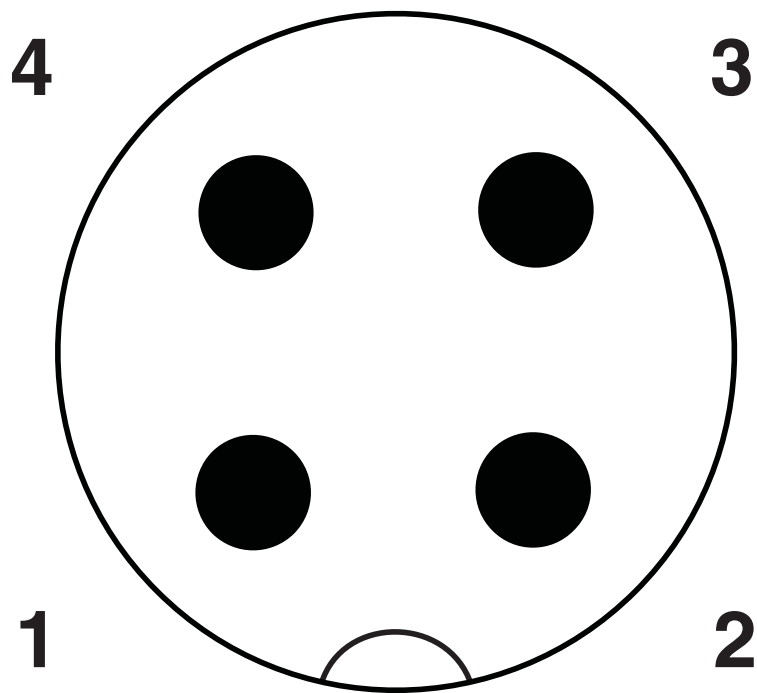
M12 x 1 socket, angled

SAC-4P-M12MR/1,0-PVC/M12FR 2/4 - Sensor/actuator cable

1409743

<https://www.phoenixcontact.com/us/products/1409743>

Schematic diagram



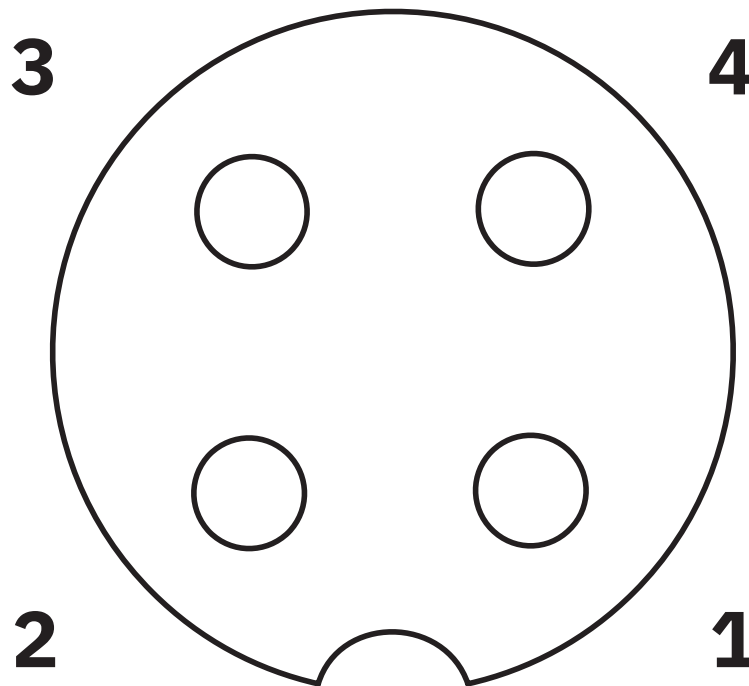
Pin assignment M12 plug, 4-pos., A-coded, view plug side

SAC-4P-M12MR/1,0-PVC/M12FR 2/4 - Sensor/actuator cable

1409743

<https://www.phoenixcontact.com/us/products/1409743>

Schematic diagram



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

SAC-4P-M12MR/1,0-PVC/M12FR 2/4 - Sensor/actuator cable



1409743

<https://www.phoenixcontact.com/us/products/1409743>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

SAC-4P-M12MR/1,0-PVC/M12FR 2/4 - Sensor/actuator cable



1409743

<https://www.phoenixcontact.com/us/products/1409743>

Environmental product compliance

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.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - 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