

# SAC-5P-M12MS/0,5-351/M12FS SCH - Sensor/actuator cable



1401054

<https://www.phoenixcontact.com/us/products/1401054>

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, 5-position, PUR/PVC, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 0.5 m

## Commercial data

Item number	1401054
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1CDA
GTIN	4046356519847
Weight per piece (including packing)	55.1 g
Weight per piece (excluding packing)	52.7 g
Country of origin	PL

# SAC-5P-M12MS/0,5-351/M12FS SCH - Sensor/actuator cable



1401054

<https://www.phoenixcontact.com/us/products/1401054>

## Technical data

### Product properties

Number of positions	5
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	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC
	60 V DC
Nominal current I <sub>N</sub>	4 A

### Mechanical properties

#### Mechanical data

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

### Signaling

Status display	no
Status display present	no

### Connector

#### Connection 1

Type	Plug straight M12
Number of positions	5
Coding type	A

#### Connection 2

Type	Socket straight M12
Number of positions	5
Coding type	A

# SAC-5P-M12MS/0,5-351/M12FS SCH - Sensor/actuator cable



1401054

<https://www.phoenixcontact.com/us/products/1401054>

## Cable/line

Cable length	0.5 m
Cable weight	67 kg/km
UL AWM Style	20549 / 1729 (80°C/300 V)
Number of positions	5
Shielded	no
Conductor structure signal line	64x 0.10 mm
AWG signal line	20
Conductor cross-section	5x 0.5 mm <sup>2</sup>
Wire diameter incl. insulation	1.8 mm ±0.05 mm
External cable diameter	6.70 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, white, black, blue, green/yellow
Thickness, insulation	0.23 mm
Inner sheath thickness	approx. 0.50 mm
Thickness, outer sheath	≥ 0.38 mm
Overall twist	5 wires around filler to the core
Max. conductor resistance	≤ 39 Ω/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	34 mm
Smallest bending radius, movable installation	67 mm
Flame resistance	in accordance with DIN UL-Style 20549 in accordance with UL 758/1581 FT2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Hydrolysis-resistant Microbe-resistant salt water resistant
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

## 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)

# SAC-5P-M12MS/0,5-351/M12FS SCH - Sensor/actuator cable



1401054

<https://www.phoenixcontact.com/us/products/1401054>

---

-25 °C ... 80 °C (Cable, flexible installation)

# SAC-5P-M12MS/0,5-351/M12FS SCH - Sensor/actuator cable

1401054

<https://www.phoenixcontact.com/us/products/1401054>

## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight

# SAC-5P-M12MS/0,5-351/M12FS SCH - Sensor/actuator cable

1401054

<https://www.phoenixcontact.com/us/products/1401054>

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

# SAC-5P-M12MS/0,5-351/M12FS SCH - Sensor/actuator cable

1401054

<https://www.phoenixcontact.com/us/products/1401054>

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

# SAC-5P-M12MS/0,5-351/M12FS SCH - Sensor/actuator cable



1401054

<https://www.phoenixcontact.com/us/products/1401054>

## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

ETIM 10.0	EC001855
-----------	----------

### UNSPSC

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

# SAC-5P-M12MS/0,5-351/M12FS SCH - Sensor/actuator cable



1401054

<https://www.phoenixcontact.com/us/products/1401054>

## 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 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](mailto:info@phoenixcon.com)