

# SAC-5P-M12MS/20-150/M12FS 0,5 - Sensor/actuator cable



1405339

<https://www.phoenixcontact.com/us/products/1405339>

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-pos., PUR, halogen-free, irradiated, RAL 2003 (orange), straight M12 plug (A-coded) to straight M12 socket (A-coded), cable length: 20 m

## Commercial data

Item number	1405339
Packing unit	1 pc
Minimum order quantity	25 pc
Product key	AF1CDA
GTIN	4046356740449
Weight per piece (including packing)	969 g
Weight per piece (excluding packing)	950 g
Country of origin	PL

# SAC-5P-M12MS/20-150/M12FS 0,5 - Sensor/actuator cable



1405339

<https://www.phoenixcontact.com/us/products/1405339>

## 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 $U_N$	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

### 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/20-150/M12FS 0,5 - Sensor/actuator cable

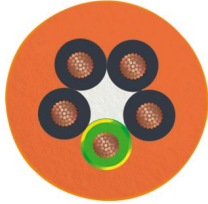
1405339

<https://www.phoenixcontact.com/us/products/1405339>

## Cable/line

Cable length	20 m
--------------	------

PUR irradiated halogen-free orange [150]

Dimensional drawing	
Number of positions	5
Shielded	no
Cable type	PUR irradiated halogen-free orange [150]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross-section	5x 0.5 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	1.46 mm ±0.02 mm (Signal line)
External cable diameter	5.80 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	orange RAL 2003
Conductor material	Bare Cu litz wires
Material, filler	PP
Material wire insulation	TPE-E
Single wire, color	black 1, black 2, black 3, black 4, green/yellow
Thickness, insulation	≥ 0.21 mm (Core insulation) approx. 0.60 mm (Outer cable sheath)
Overall twist	5 wires around filler to the core
Max. conductor resistance	max. 39 Ω/km
Insulation resistance	≥ 100 MΩ*km
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 5 mm, Traversing path: 10 m, Traversing rate: 3 m/s
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with DIN UL-Style 20549
Special properties	Silicone-free Irradiated
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

## Environmental and real-life conditions

# SAC-5P-M12MS/20-150/M12FS 0,5 - Sensor/actuator cable



1405339

<https://www.phoenixcontact.com/us/products/1405339>

## Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-50 °C ... 105 °C (cable, fixed installation)
	-40 °C ... 105 °C (Cable, flexible installation)

# SAC-5P-M12MS/20-150/M12FS 0,5 - Sensor/actuator cable



1405339

<https://www.phoenixcontact.com/us/products/1405339>

## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight

# SAC-5P-M12MS/20-150/M12FS 0,5 - Sensor/actuator cable

1405339

<https://www.phoenixcontact.com/us/products/1405339>

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/20-150/M12FS 0,5 - Sensor/actuator cable



1405339

<https://www.phoenixcontact.com/us/products/1405339>

## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

# SAC-5P-M12MS/20-150/M12FS 0,5 - Sensor/actuator cable



1405339

<https://www.phoenixcontact.com/us/products/1405339>

## 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)