

SAC-4P-M12MS/ 5,0-170/M8SIFS - Sensor/actuator cable

1564341
<https://www.phoenixcontact.com/us/products/1564341>

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, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: A, on Socket straight M8 Snap-in, cable length: 5 m

Commercial data

Item number	1564341
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1CCA
GTIN	4046356306973
Weight per piece (including packing)	119.9 g
Weight per piece (excluding packing)	119.9 g
Customs tariff number	85444290
Country of origin	PL

SAC-4P-M12MS/ 5,0-170/M8SIFS - Sensor/actuator cable



1564341

<https://www.phoenixcontact.com/us/products/1564341>

Technical data

Mounting

Thread type	()
-------------	----

Product properties

Product type	Sensor/actuator cable
Number of positions	4
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	Zinc die-cast, nickel-plated
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Max. conductor resistance	78 Ω/km

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
Max. bending cycles	4000000

Signaling

Status display	no
Status display present	No

Connector

SAC-4P-M12MS/ 5,0-170/M8SIFS - Sensor/actuator cable



1564341

<https://www.phoenixcontact.com/us/products/1564341>

Connection 1

Type	Plug straight M12
Number of positions	4
Coding type	A

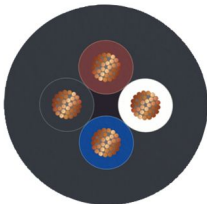
Connection 2

Type	Socket straight M8 Snap-in
Number of positions	4
Locking type	Snap-in

Cable/line

Cable length	5 m
--------------	-----

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	23 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	4
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	4x 0.25 mm ² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm (Signal line)
External cable diameter	3.95 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation) approx. 0.50 mm (Outer cable sheath)
Overall twist	4 wires, twisted
Max. conductor resistance	max. 78 Ω/km (at 20 °C)
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V

SAC-4P-M12MS/ 5,0-170/M8SIFS - Sensor/actuator cable



1564341

<https://www.phoenixcontact.com/us/products/1564341>

Smallest bending radius, fixed installation	20 mm
Smallest bending radius, movable installation	40 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 44 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 5 m/s ²
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2 DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish
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
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket) -40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

SAC-4P-M12MS/ 5,0-170/M8SIFS - Sensor/actuator cable

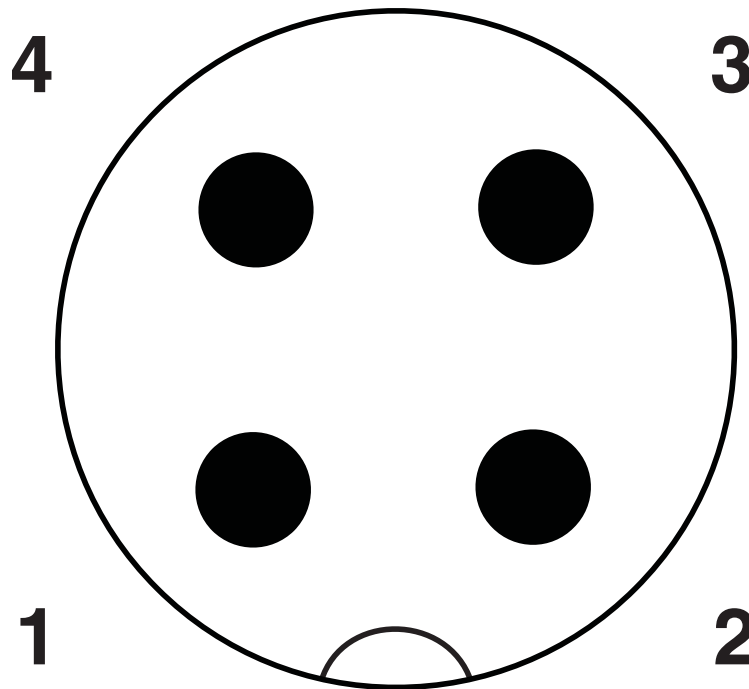


1564341

<https://www.phoenixcontact.com/us/products/1564341>

Drawings

Schematic diagram



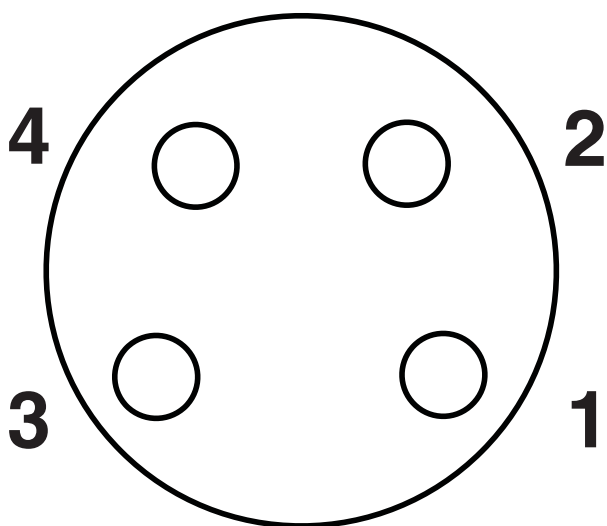
Pin assignment M8 plug, 4-pos., view male side

SAC-4P-M12MS/ 5,0-170/M8SIFS - Sensor/actuator cable

1564341

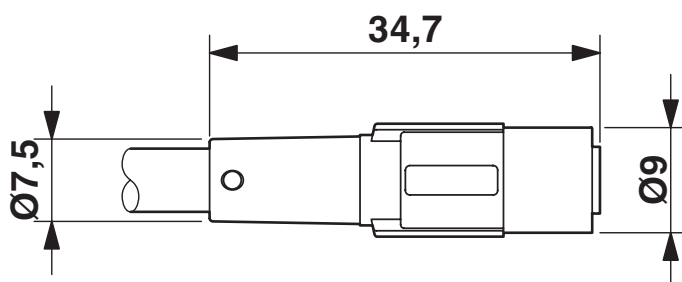
<https://www.phoenixcontact.com/us/products/1564341>

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

Dimensional drawing



M8 snap-in sockets

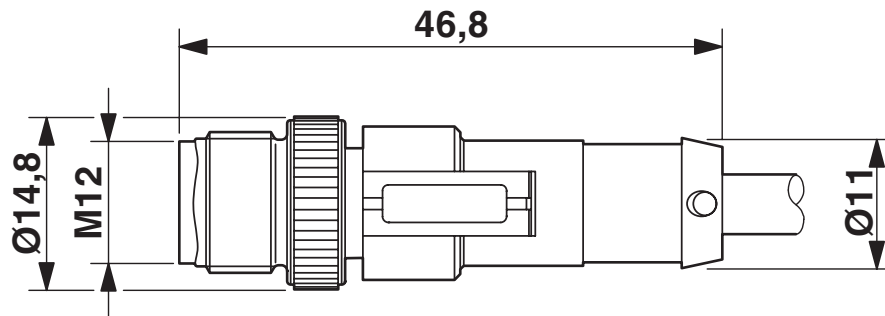
SAC-4P-M12MS/ 5,0-170/M8SIFS - Sensor/actuator cable



1564341

<https://www.phoenixcontact.com/us/products/1564341>

Dimensional drawing



Plug, M12 x 1, straight, shielded

SAC-4P-M12MS/ 5,0-170/M8SIFS - Sensor/actuator cable



1564341

<https://www.phoenixcontact.com/us/products/1564341>

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

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

1564341
<https://www.phoenixcontact.com/us/products/1564341>

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