

SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable



1530809

<https://www.phoenixcontact.com/us/products/1530809>

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 halogen-free, black-gray RAL 7021, shielded (Tinned copper braided shield), Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 30 m

Commercial data

Item number	1530809
Packing unit	5 pc
Minimum order quantity	5 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	BF1CKA
GTIN	4017918990374
Weight per piece (including packing)	1,577.6 g
Weight per piece (excluding packing)	1,577.6 g
Customs tariff number	85444290
Country of origin	PL

SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable



1530809

<https://www.phoenixcontact.com/us/products/1530809>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	A

Material specifications

Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU

Electrical properties

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

Cable/line

Cable length	30 m
--------------	------

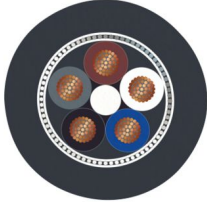
PUR halogen-free black [PUR]

SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable



1530809

<https://www.phoenixcontact.com/us/products/1530809>

Dimensional drawing	
Cable weight	43 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	5
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	5x 0.34 mm ² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External cable diameter	5.25 mm ±0.2 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, gray
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	approx. 0.50 mm
Overall twist	5 wires around filler to the core
Optical shield covering	80 %
Max. conductor resistance	max. 57 Ω/km (at 20 °C)
Insulation resistance	70 GΩ*km (at 20 °C)
Nominal voltage, cable	300 V (at 20 °C)
Test voltage Core/Core	3000 V (at 20 °C)
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	52 mm (up to +60 °C)
Max. bending cycles	10000000
Halogen-free	in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1
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 Resistant to salt water partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) abrasion-resistant

SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable



1530809

<https://www.phoenixcontact.com/us/products/1530809>

Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
	Low adhesion surface
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	IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable

1530809

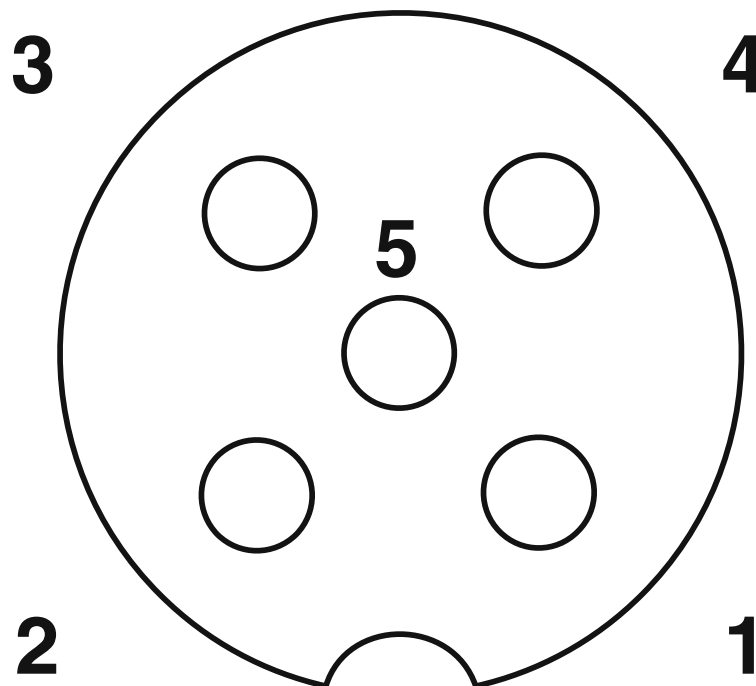
<https://www.phoenixcontact.com/us/products/1530809>

Drawings

Dimensional drawing



Schematic diagram



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

SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable



1530809

<https://www.phoenixcontact.com/us/products/1530809>

Schematic diagram



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

Circuit diagram

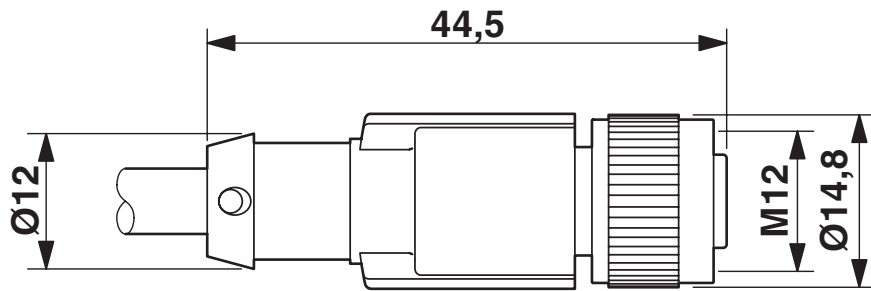


SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable

1530809

<https://www.phoenixcontact.com/us/products/1530809>

Dimensional drawing



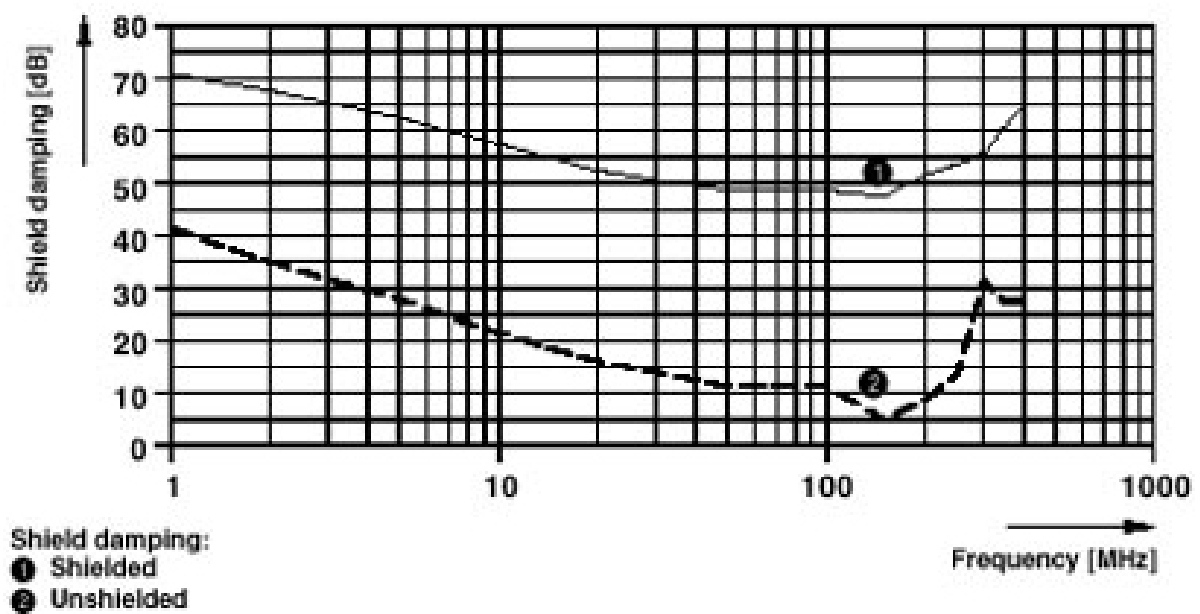
SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable



1530809

<https://www.phoenixcontact.com/us/products/1530809>

Diagram



SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable



1530809
<https://www.phoenixcontact.com/us/products/1530809>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1530809>

	UL Listed Approval ID: FILE E 221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	125 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
	125 V	4 A	-	-

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

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

SAC-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable



1530809
<https://www.phoenixcontact.com/us/products/1530809>

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-5P-M12MS/30,0-PUR/M12FS SH - Sensor/actuator cable



1530809
<https://www.phoenixcontact.com/us/products/1530809>

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