

SAC-5P-10,0-PUR/M12FSB - Sensor/actuator cable



1401729

<https://www.phoenixcontact.com/us/products/1401729>

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, free cable end, on Socket straight M12, coding: B, cable length: 10 m

Commercial data

Item number	1401729
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	AF1CDA
GTIN	4046356570251
Weight per piece (including packing)	331.5 g
Weight per piece (excluding packing)	316.5 g
Customs tariff number	85444290
Country of origin	DE

SAC-5P-10,0-PUR/M12FSB - Sensor/actuator cable



1401729

<https://www.phoenixcontact.com/us/products/1401729>

Technical data

Product properties

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

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	58 Ω/m

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
Max. bending cycles	4000000

Signaling

Status display	no
Status display present	no

Connector

Connection 1

Type	free cable end
------	----------------

SAC-5P-10,0-PUR/M12FSB - Sensor/actuator cable



1401729

<https://www.phoenixcontact.com/us/products/1401729>

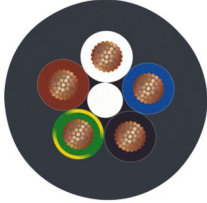
Connection 2

Type	Socket straight M12
Number of positions	5
Coding type	B

Cable/line

Cable length	10 m
--------------	------

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	33 kg/km
UL AWM Style	20549
Number of positions	5
Shielded	no
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 0.05 mm (Signal line)
External cable diameter	4.55 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, green-yellow
Thickness, insulation	approx. 0.50 mm
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 16 GΩ*km (at 20 °C)
Nominal voltage, cable	300 V
Test voltage	3000 V
Smallest bending radius, fixed installation	23 mm
Smallest bending radius, movable installation	46 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 46 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥2000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815

SAC-5P-10,0-PUR/M12FSB - Sensor/actuator cable



1401729

<https://www.phoenixcontact.com/us/products/1401729>

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)
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
	flexible
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)
	-5 °C ... 80 °C (Cable, flexible installation)

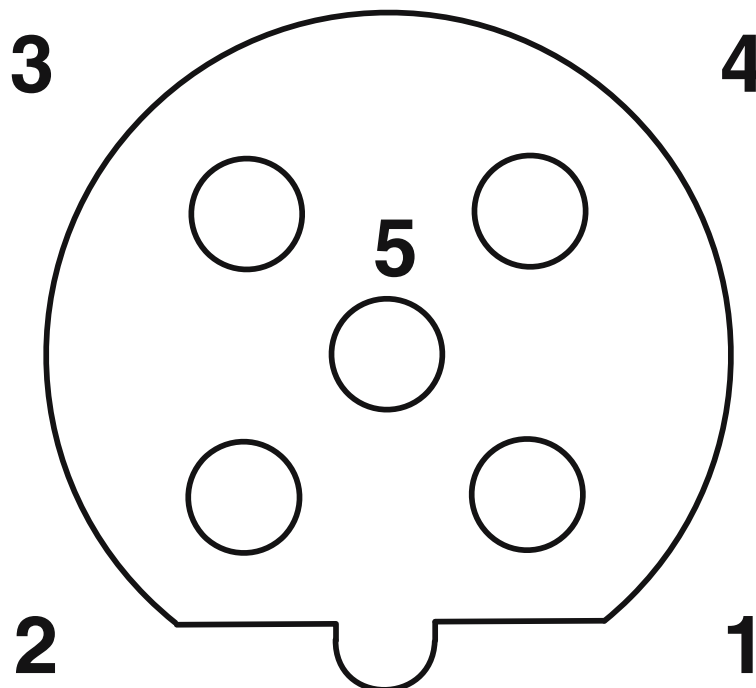
Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment M12 socket, 5-pos., B-coded, female side

SAC-5P-10,0-PUR/M12FSB - Sensor/actuator cable



1401729

<https://www.phoenixcontact.com/us/products/1401729>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1401729>

	UL Listed			
	Approval ID: FILE E 221474			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG
		125 V	4 A	-
				Cross section mm ²
				-

	cUL Listed			
	Approval ID: FILE E 221474			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG
		125 V	4 A	-
				Cross section mm ²
				-

SAC-5P-10,0-PUR/M12FSB - Sensor/actuator cable



1401729

<https://www.phoenixcontact.com/us/products/1401729>

Classifications

ECLASS

ECLASS-13.0	27060311
-------------	----------

ETIM

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

UNSPSC

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

SAC-5P-10,0-PUR/M12FSB - Sensor/actuator cable



1401729

<https://www.phoenixcontact.com/us/products/1401729>

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 2025 © - 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