

SAC-4P- 0,12-PUR/M12FR BK D-DE - Sensor/actuator cable



1402215

<https://www.phoenixcontact.com/us/products/1402215>

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, free cable end, on Socket angled M12, cable length: 0.12 m

Commercial data

Item number	1402215
Packing unit	1 pc
Minimum order quantity	100 pc
Product key	AF1CCA
GTIN	4046356588850
Weight per piece (including packing)	109.573 g
Weight per piece (excluding packing)	109.573 g
Country of origin	DE

SAC-4P- 0,12-PUR/M12FR BK D-DE - Sensor/actuator cable



1402215

<https://www.phoenixcontact.com/us/products/1402215>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	4

Material specifications

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

Nominal voltage U_N	250 V AC
	250 V DC

Mechanical properties

Mechanical data

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

Connector

Connection 1

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

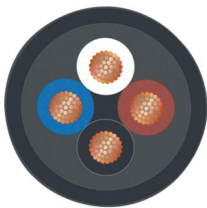
Connection 2

Type	Socket angled M12
Number of positions	4

Cable/line

Cable length	0.12 m
--------------	--------

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	30 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)

SAC-4P- 0,12-PUR/M12FR BK D-DE - Sensor/actuator cable



1402215

<https://www.phoenixcontact.com/us/products/1402215>

Number of positions	4
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	4x 0.34 mm ² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm
External cable diameter	4.20 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
Thickness, outer sheath	approx. 0.50 mm
Overall twist	4 wires, twisted
Max. conductor resistance	≤ 58 Ω/km
Insulation resistance	≥ 1 GΩ*km
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	21 mm
Smallest bending radius, movable installation	42 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 42 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 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 partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) Low adhesion abrasion-resistant
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)

SAC-4P- 0,12-PUR/M12FR BK D-DE - Sensor/actuator cable



1402215

<https://www.phoenixcontact.com/us/products/1402215>

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

Environmental and real-life conditions

Ambient conditions	
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

SAC-4P- 0,12-PUR/M12FR BK D-DE - Sensor/actuator cable

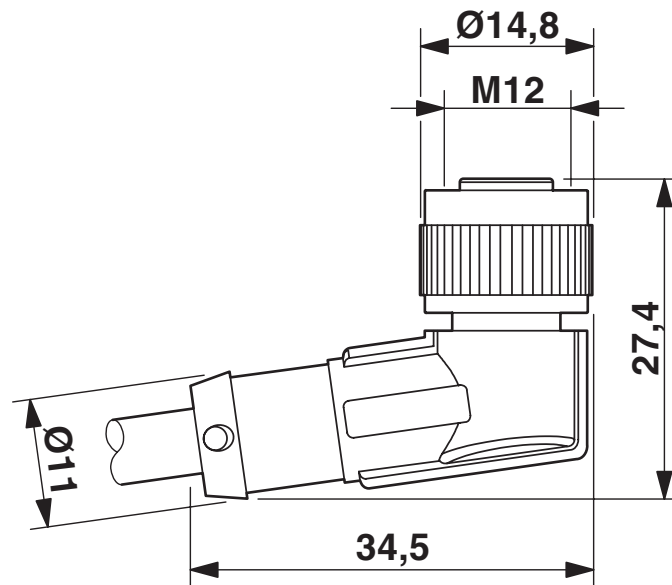


1402215

<https://www.phoenixcontact.com/us/products/1402215>

Drawings

Dimensional drawing



M12 x 1 socket, angled

SAC-4P- 0,12-PUR/M12FR BK D-DE - Sensor/actuator cable



1402215

<https://www.phoenixcontact.com/us/products/1402215>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

SAC-4P- 0,12-PUR/M12FR BK D-DE - Sensor/actuator cable



1402215

<https://www.phoenixcontact.com/us/products/1402215>

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