

SAC-4P-M12MRD/0,3-PUR - Sensor/actuator cable

1404836

<https://www.phoenixcontact.com/us/products/1404836>



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Sensor/actuator cable, 4-pos., PUR, halogen free, black-gray RAL 7021, angled M12 plug, D-coded, to free cable end, cable length: 0.3 m

Commercial data

Item number	1404836
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1CCA
GTIN	4046356723817
Weight per piece (including packing)	19 g
Weight per piece (excluding packing)	18.2 g
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	D

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
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	$\geq 10 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Max. conductor resistance	58 Ω/km

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100
Max. bending cycles	4000000

Signaling

Status display	no
Status display present	no

Connector

Connection 1	
Type	Plug angled M12
Number of positions	4

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Coding type

D

Connection 2

Type

free cable end

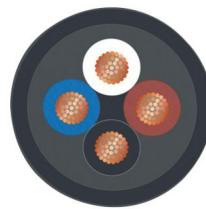
Cable/line

Cable length

0.3 m

PUR halogen-free black [PUR]

Dimensional drawing



Cable weight

30 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

42x 0.10 mm

AWG signal line

22

Conductor cross section

4x 0.34 mm² (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

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

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C ... 80 °C (Cable, flexible installation)

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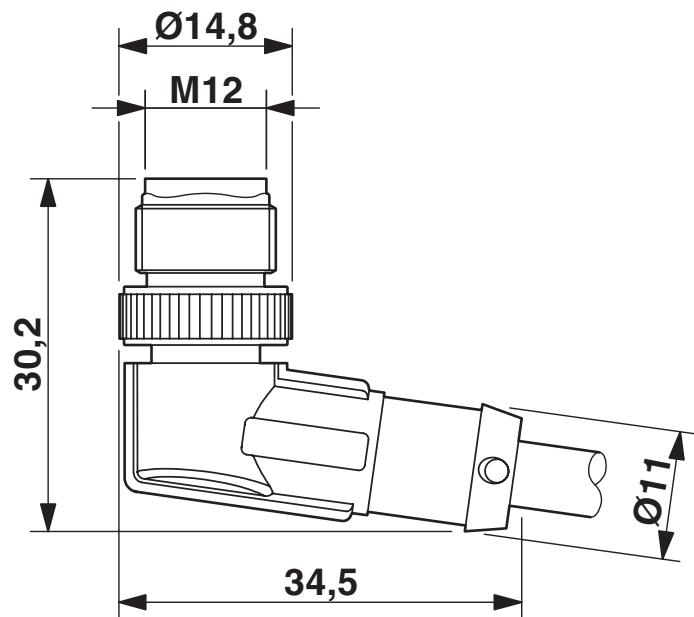


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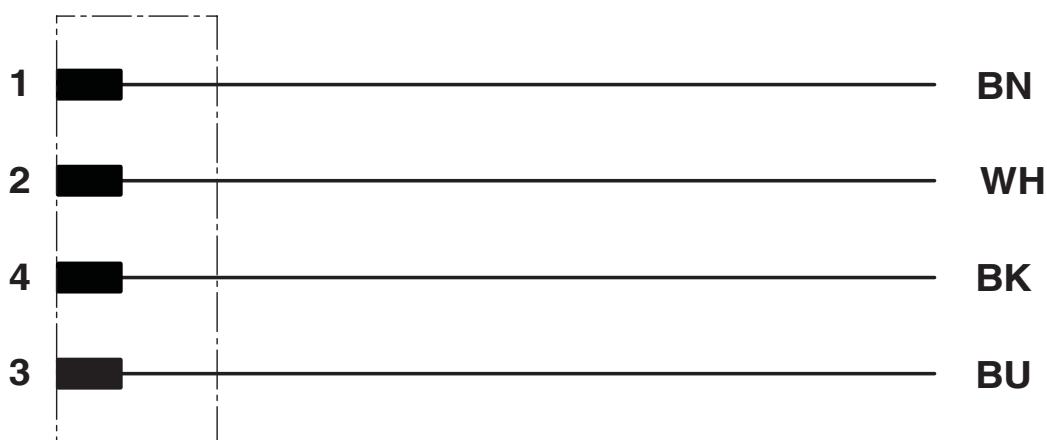
Drawings

Dimensional drawing



M12 x 1 male plug, angled

Circuit diagram



Contact assignment of the M12 plug

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Classifications

ECLASS

ECCLASS-13.0	27060311
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ETIM

ETIM 8.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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%
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