

SAC-4P-65,0-28X/M12FR OD - Sensor/actuator cable



1493806

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Sensor/actuator cable, 4-position, PE-X halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 65 m, for outdoor applications, with high-grade steel knurl

Commercial data

Item number	1493806
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	AF1CCA
GTIN	4063151943110
Weight per piece (including packing)	2,901 g
Weight per piece (excluding packing)	2,803.1 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Product properties

Product type	Sensor/actuator cable
Application	External areas
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	V0
Seal material	FPM
Material of grip body	PP
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material for screw connection	Stainless steel

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	250 V AC
	250 V DC

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100

Signaling

Status display	no
Status display present	no

Connector

Connection 1	
Type	free cable end

Connection 2

Type	Socket angled M12
Number of positions	4

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Coding type

A

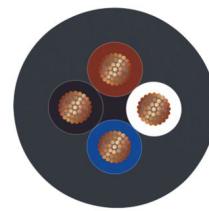
Cable/line

Cable length

65 m

PE-X black [28X]

Dimensional drawing



Cable weight

44 kg/km

Number of positions

4

Shielded

no

Cable type

PE-X black [28X]

Conductor structure signal line

28x 0.15 mm

AWG signal line

20

Conductor cross section

4x 0.5 mm² (Signal line)

Wire diameter incl. insulation

1.6 mm ±0.05 mm (Signal line)

External cable diameter

5.20 mm ±0.2 mm

Outer sheath, material

PE-X

External sheath, color

black-gray RAL 7021

Conductor material

Bare Cu litz wires

Material wire insulation

PE-X

Single wire, color

brown, white, blue, black

Thickness, insulation

approx. 0.30 mm (Core insulation)

approx. 0.60 mm (Outer cable sheath)

Overall twist

4 wires, twisted

Length of twist, overall twist

61.6 mm

Max. conductor resistance

≤ 39 Ω/km (at 20 °C)

Insulation resistance

≥ 100 MΩ·km (at 20 °C)

Nominal voltage, cable

≤ 300 V AC

Test voltage

≥ 3000 V AC

Smallest bending radius, fixed installation

26 mm

Smallest bending radius, movable installation

52 mm

Dynamic load capacity (bending)

Max. bending cycles: 2000000, Bending radius: 52 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²

Halogen-free

in accordance with DIN VDE 0472 part 815

Flame resistance

according to DIN 60332-1-2

according to DIN EN 50266-2-5

according to IEC 60332-3-25 (bunched fire test)

Fume corrosiveness	according to IEC 60754
Concentration of fumes	according to DIN EN 61034
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	UV resistant (according to DIN VDE 0276-605)
Special properties	Irradiated
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation) -15 °C ... 105 °C (Cable, flexible installation) 120 °C (at 48 h - see test report 19233) 180 °C (at 48 h - see test report 19233)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 IP67 IP68 IP69K
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 105 °C (Plug / socket)
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation) -15 °C ... 105 °C (Cable, flexible installation)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

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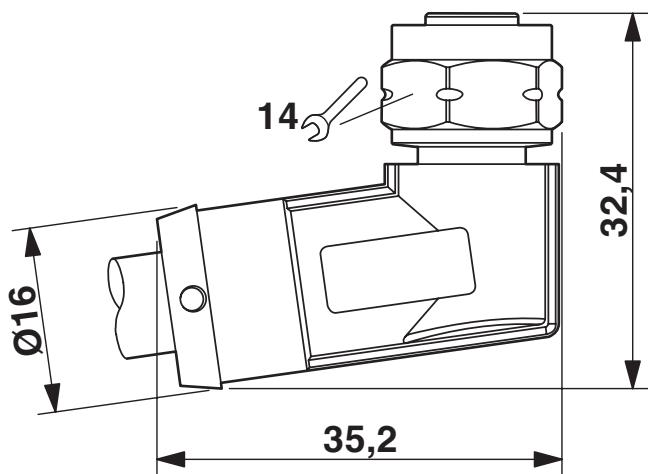


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Drawings

Dimensional drawing



M12 x 1 socket, angled

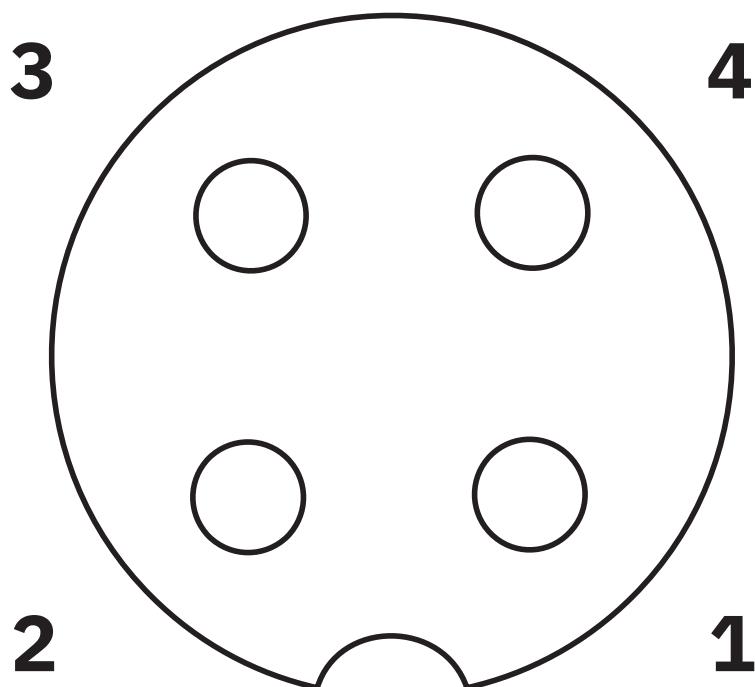
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1493806

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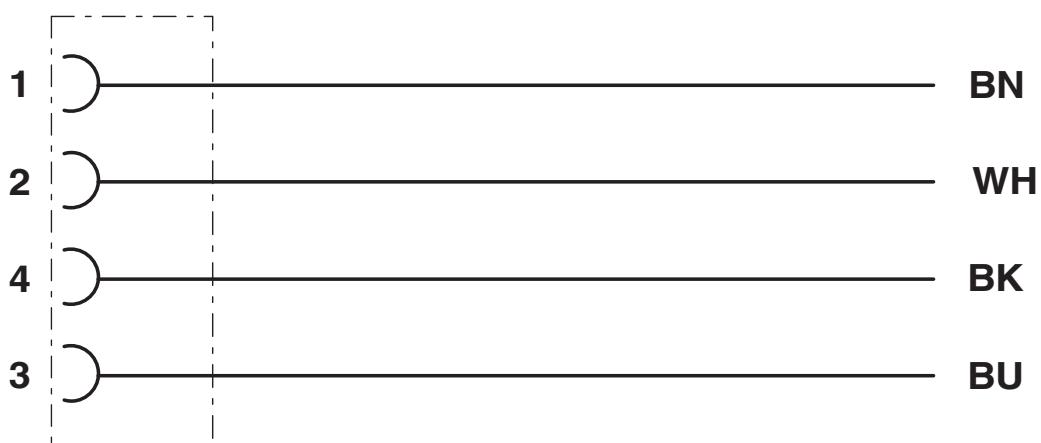


Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

Circuit diagram



Contact assignment of the M12 socket

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 9.0	EC001855
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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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