

SAC-4P-M12MS/ 5,0-28X 0,12 OD - Sensor/actuator cable



1564719

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Sensor/actuator cable, 4-position, Plug straight M12, coding: A, on free cable end, cable length: 5 m, for outdoor applications, with high-grade steel knurl

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Robust throughout: resistant to oil, UV, and ozone, withstands temperatures from -40°C ... +105°C

Commercial data

Item number	1564719
Packing unit	1 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	AF1CCA
GTIN	4067923044203
Weight per piece (including packing)	238 g
Weight per piece (excluding packing)	238 g
Customs tariff number	85444290
Country of origin	PL

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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
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	No

Connector

Connection 1

Type	Plug straight M12
Number of positions	4
Coding type	A

Connection 2

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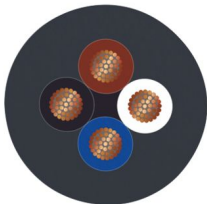
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Type	free cable end
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Cable/line

Cable length	5 m
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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 mm ² (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/s ²	
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)	

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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)	-40 °C ... 105 °C (Plug / socket)
	-40 °C ... 85 °C (On sudden changes in temperature (according to IEC 60512-11-4))

Standards and regulations

M12

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

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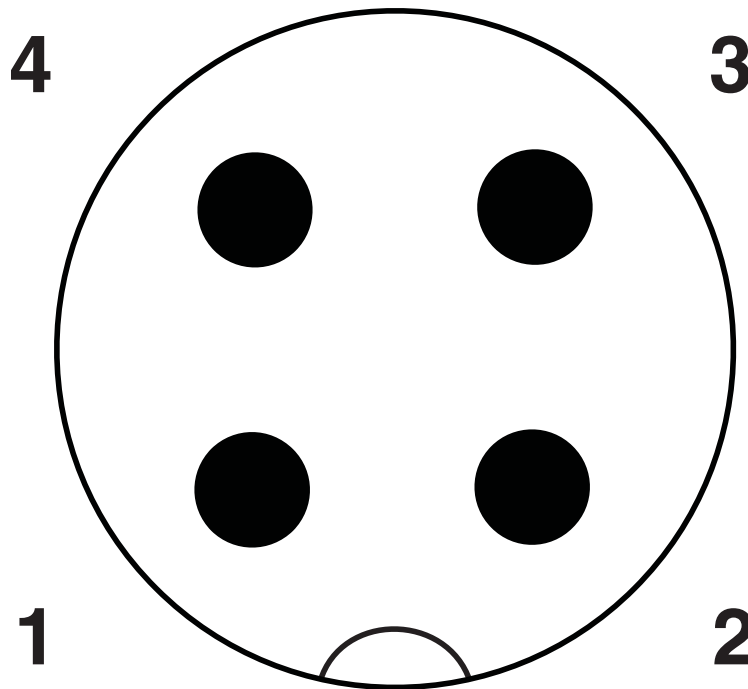


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Drawings

Schematic diagram



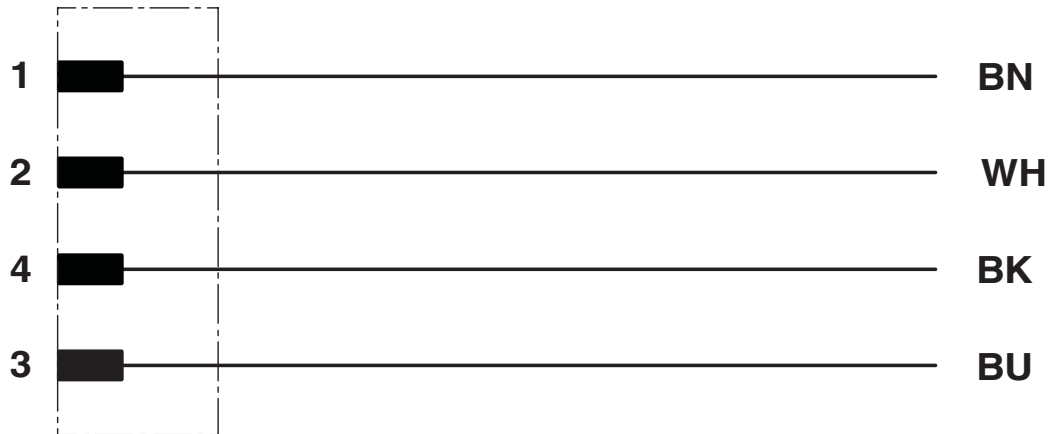
Pin assignment M12 plug, 4-pos., A-coded, view plug side

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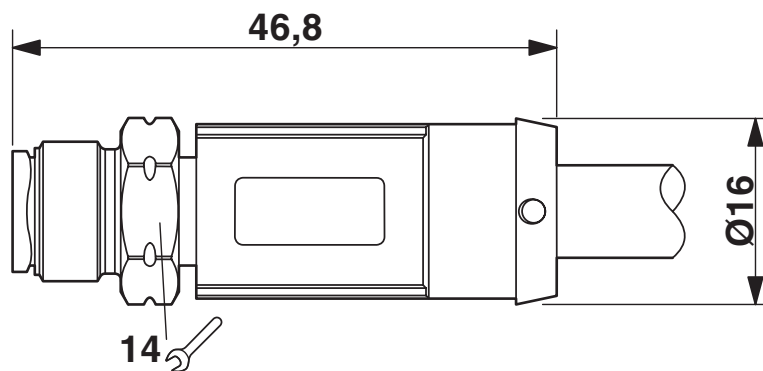
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Circuit diagram



Contact assignment of the M12 plug

Dimensional drawing



Plug, M12 x 1, straight, shielded

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1564719>



UL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	300 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
	300 V	4 A	-	-



EAC-RoHS

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

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 9.0	EC001855
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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%

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Accessories

SACC-M12FS-4QO-0,75-VA - Connector

1440782

<https://www.phoenixcontact.com/in/products/1440782>



Connector, Universal, 4-position, Socket straight M12, coding: A, Insulation displacement connection, knurl material: Stainless steel 1.4404, external cable diameter 4 mm ... 8 mm

TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/in/products/1208429>



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/in/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/in/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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SAC BIT M12-W14 - Tool

1212513

<https://www.phoenixcontact.com/in/products/1212513>

Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a hexagonal knurl wrench size of 14 mm, with 4 mm hexagonal drive



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