

SAC-3P-M5MS/0,2-PUR/M5FS - Sensor/actuator cable



1402494

<https://www.phoenixcontact.com/us/products/1402494>

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Sensor/actuator cable, 3-position, PUR, black RAL 9005, Plug straight M5, coding: A, on Socket straight M5, coding: A, cable length: 0.2 m

Commercial data

Item number	1402494
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	B06
Product key	AF1ABA
GTIN	4046356620321
Weight per piece (including packing)	12.9 g
Weight per piece (excluding packing)	12.9 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Material of grip body	PUR
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PUR
Material for screw connection	Brass, nickel-plated
Outer sheath, material	PUR

Electrical properties

Insulation resistance	$\geq 10 \text{ G}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	1 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 M5
Number of positions	3
Coding type	A

Connection 2

Type	Socket straight M5
Number of positions	3

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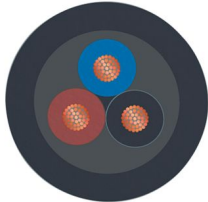
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Coding type	A
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Cable/line

Cable length	0.2 m
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PUR/PVC black [350]

Dimensional drawing	
Cable weight	12.9 kg/km
Number of positions	3
Shielded	no
Cable type	PUR/PVC black [350]
Conductor structure signal line	18x 0.10 mm
AWG signal line	26
Conductor cross-section	3x 0.14 mm ² (Signal line)
Wire diameter incl. insulation	1.1 mm
External cable diameter	3.00 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue, black
Overall twist	3 wires, twisted
Max. conductor resistance	148 Ω/km
Insulation resistance	100 MΩ*km
Nominal voltage, cable	250 V
Test voltage	800 V _{rms}
Smallest bending radius, fixed installation	8 mm
Smallest bending radius, movable installation	15 mm
Ambient temperature (operation)	-15 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

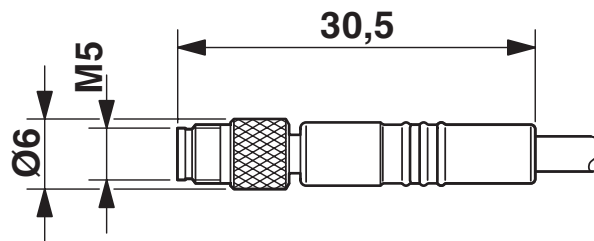
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 80 °C (Plug / socket)

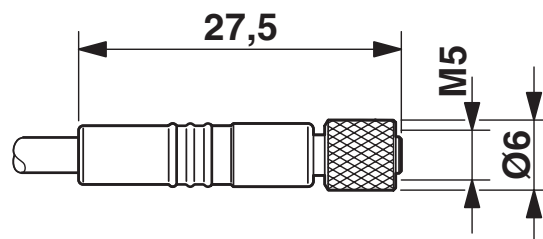
Drawings

Dimensional drawing



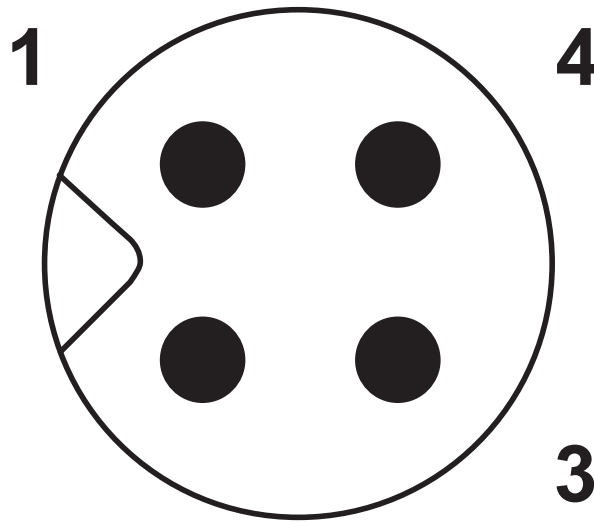
Plug M5 x 0.5, straight

Dimensional drawing



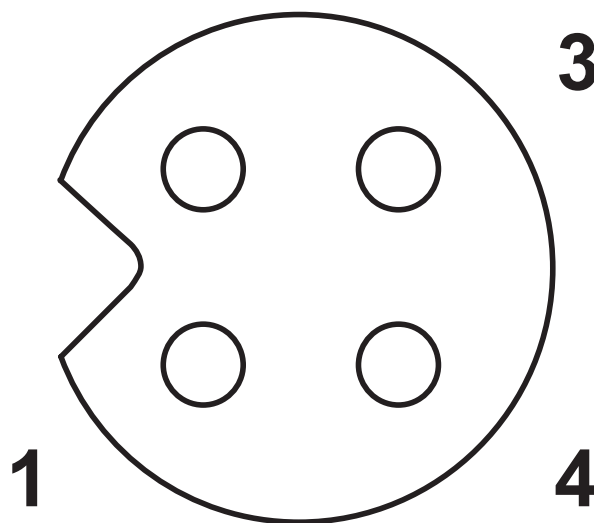
Socket M5 x 0.5, straight

Schematic diagram



Plug M5, 3-pos.

Schematic diagram

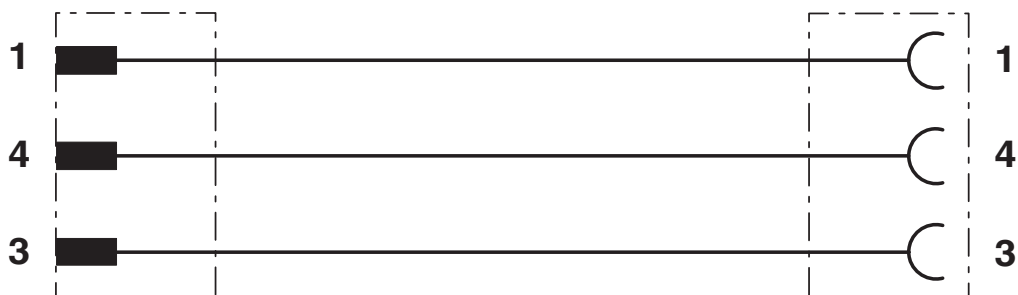


Socket M5, 3-pos.

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Circuit diagram



Contact assignment of the M5 male/female connectors

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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