

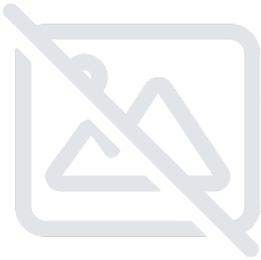
SAC-4P-M12MR/ 0,6-PUR/M12FR TP - Sensor/actuator cable



1505180

<https://www.phoenixcontact.com/us/products/1505180>

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Sensor/actuator cable, 4-position, PUR/PVC, green RAL 6017, Plug angled M12, coding: A, on Socket angled M12, coding: A, cable length: 0.6 m

Commercial data

Item number	1505180
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	AF1CCA
GTIN	4017918902360
Weight per piece (including packing)	68 g
Weight per piece (excluding packing)	68 g
Customs tariff number	85444290
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	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
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

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 angled M12
Number of positions	4
Coding type	A

Connection 2

Type	Socket angled M12
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Number of positions	4
Coding type	A

Cable/line

Cable length	0.6 m
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PUR/PVC green [350]

Number of positions	4
Shielded	no
Cable type	PUR/PVC green [350]
Conductor structure signal line	28x 0.15 mm
AWG signal line	20
Conductor cross section	0.5 mm ²
External cable diameter	7.8 mm
Outer sheath, material	PUR
External sheath, color	green RAL 6017
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown-white, green-yellow
Thickness, insulation	Core insulation approx. 1.00 mm (Inner sheath) approx. 0.70 mm (Outer cable sheath)
Nominal voltage, cable	300 V
Test voltage	1500 V
Smallest bending radius, movable installation	78 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 78 mm, Traversing path: 5 m, Traversing rate: 3 m/s
Ambient temperature (operation)	-25 °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 IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket) -40 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

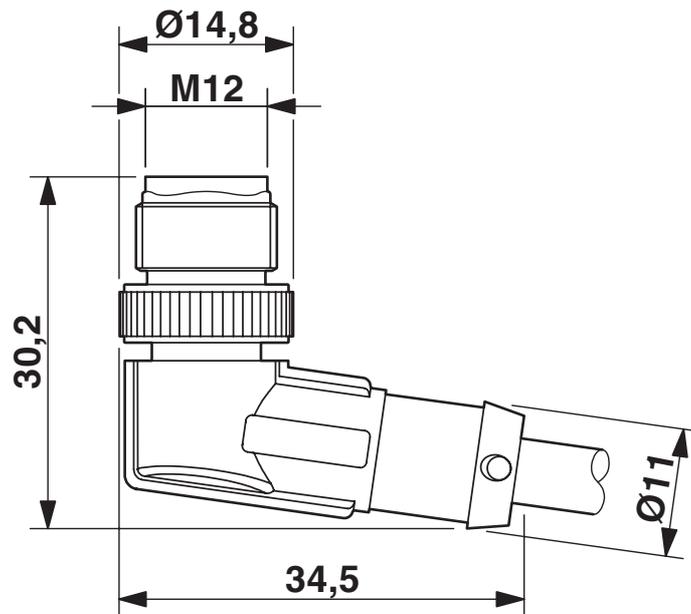
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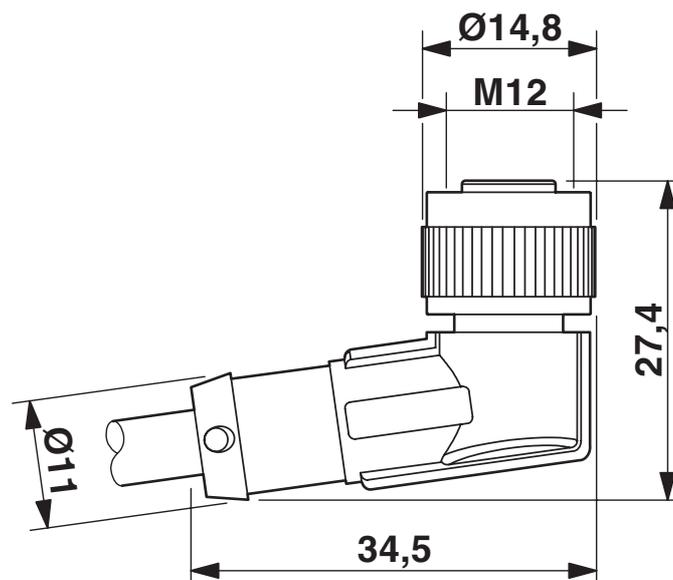
Drawings

Dimensional drawing



M12 x 1 male plug, angled

Dimensional drawing



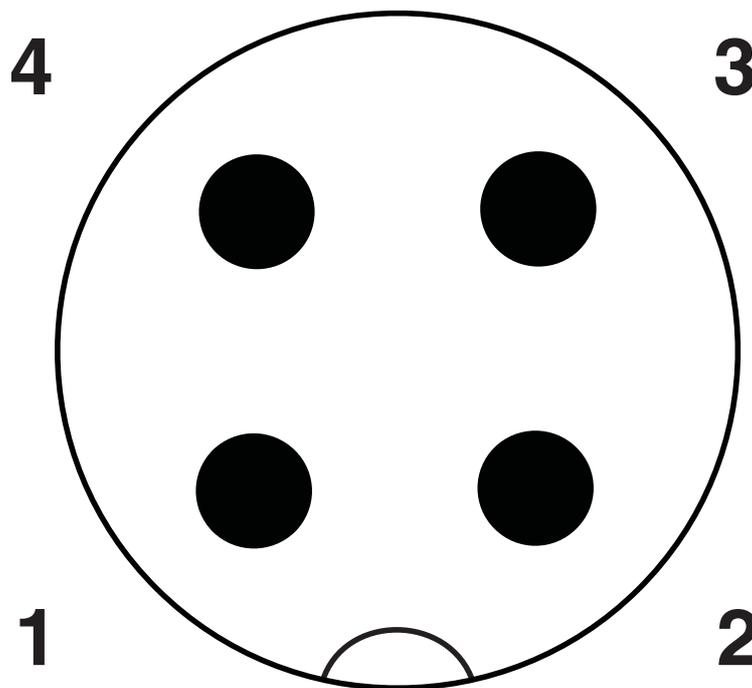
M12 x 1 socket, angled

SAC-4P-M12MR/ 0,6-PUR/M12FR TP - Sensor/actuator cable

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Schematic diagram



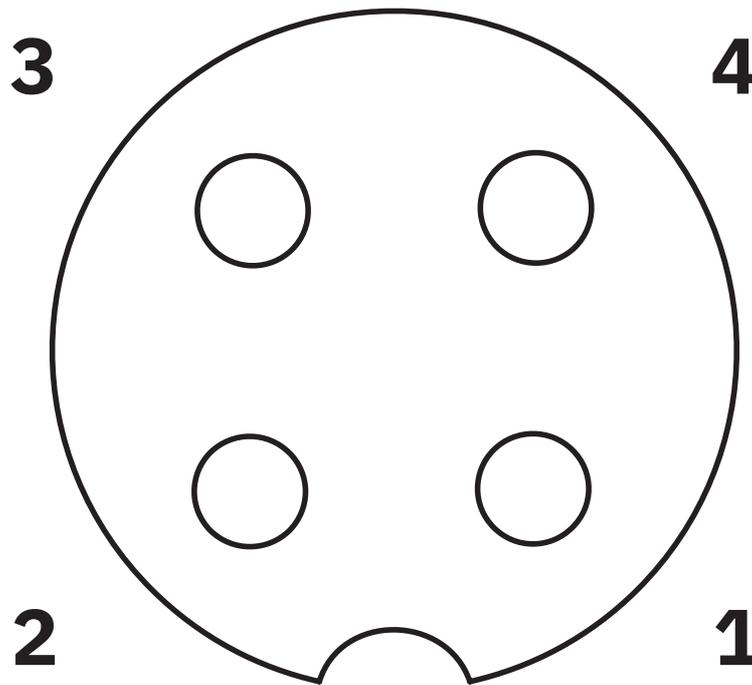
Pin assignment M12 plug, 4-pos., A-coded, view plug side

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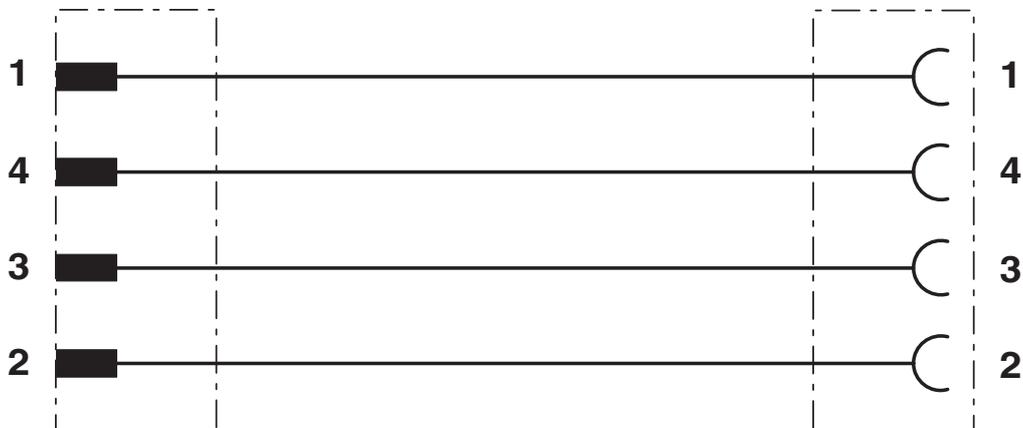
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Schematic diagram



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

Circuit diagram



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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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