

SAC-4P-M12MR/ 3,0-CEI/M12FR GY - Sensor/actuator cable



1562916

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Sensor/actuator cable, 4-position, PVC, gray RAL 7035, Plug angled M12, coding: A, on Socket angled M12, coding: A, cable length: 3 m

Commercial data

Item number	1562916
Packing unit	50 pc
Minimum order quantity	50 pc
Product key	AF1CCA
GTIN	4046356300537
Weight per piece (including packing)	159.27 g
Weight per piece (excluding packing)	139.27 g
Country of origin	DE

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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	4
No. of cable outlets	1
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	$\geq 10 \text{ M}\Omega$
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
Number of positions	4

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Coding type	A
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Cable/line

Cable length	3 m
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PVC gray [CEI]

Number of positions	4
Shielded	no
Cable type	PVC gray [CEI]
Conductor structure signal line	32x 0.10 mm (VDE 0295 Class 6)
AWG signal line	24
Conductor cross section	4x 0.25 mm ²
Wire diameter incl. insulation	1.4 mm ±0.05 mm
External cable diameter	5.00 mm +0.1 mm (CEI 20/11 RZ)
Outer sheath, material	PVC
External sheath, color	gray RAL 7035
Conductor material	Bare Cu litz wires
Material wire insulation	PVC (CEI 20/11 R2)
Single wire, color	brown, white, blue, black
Max. conductor resistance	< 74 Ω/km (at 20 °C)
Nominal voltage, cable	300 V
Test voltage Core/Core	3000 V (rms)
Minimum bending radius, fixed installation	10 x D
Smallest bending radius, fixed installation	50 mm
Flame resistance	in accordance with CEI 20-22II according to IEC 332-3
Resistance to oil	in accordance with ISO 6722
Other resistance	Resistance to low temperatures (acc. to EN 60811-1-4) Resistance to high temperatures (in accordance with ISO 6722 (3000 h))
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation) -20 °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)

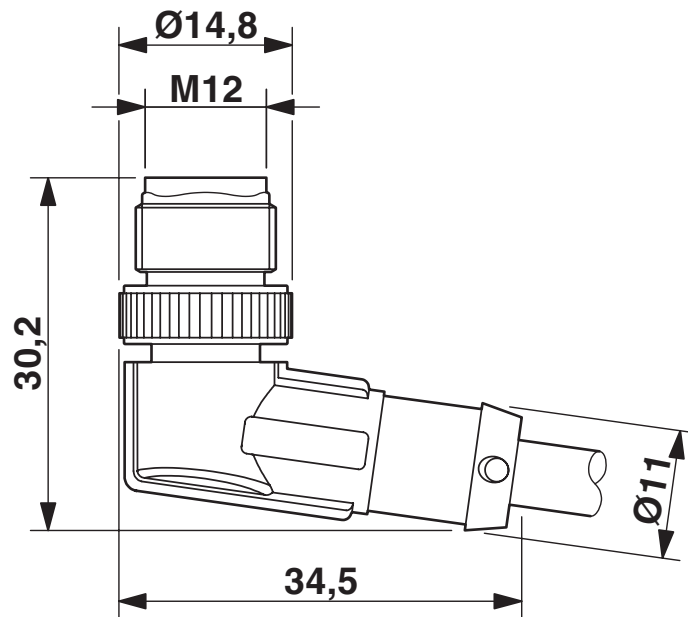
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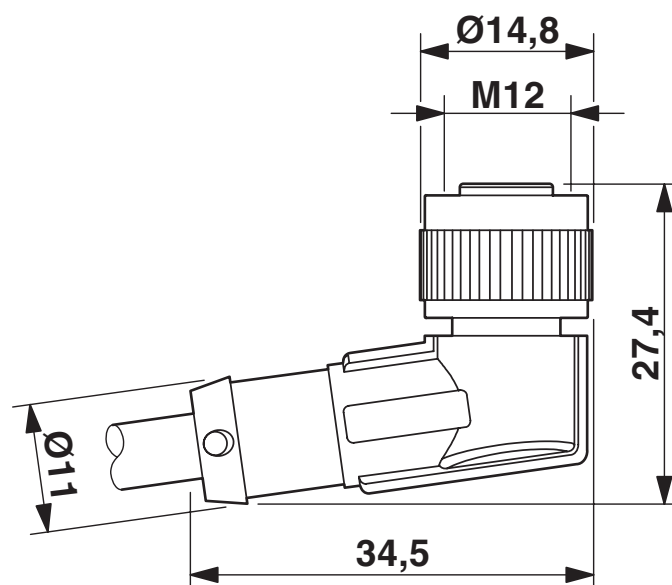
Drawings

Dimensional drawing



M12 x 1 male plug, angled

Dimensional drawing



M12 x 1 socket, angled

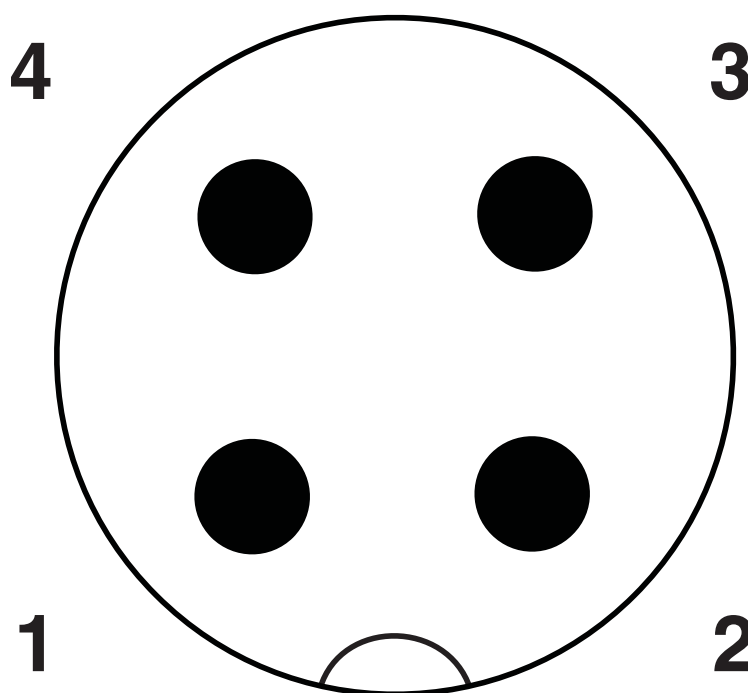
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Schematic diagram



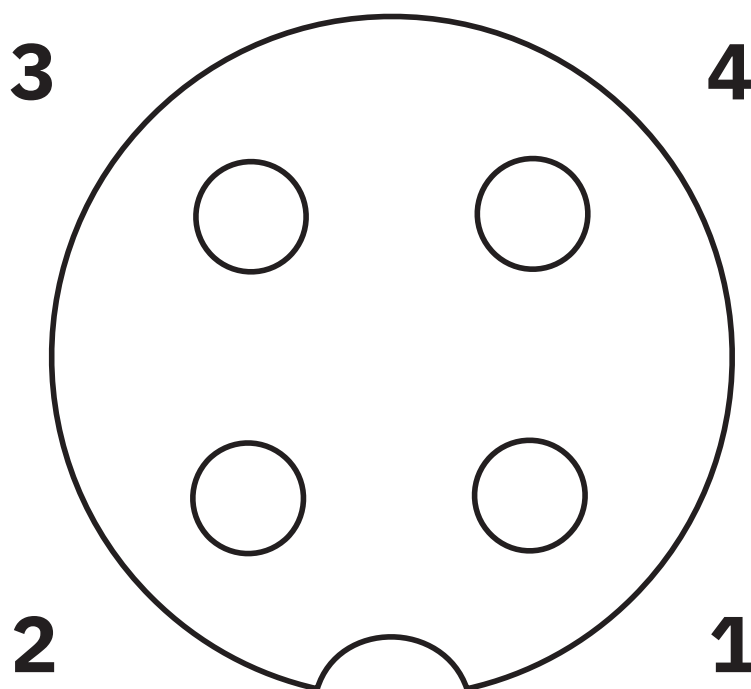
Pin assignment M12 plug, 4-pos., A-coded, view plug side

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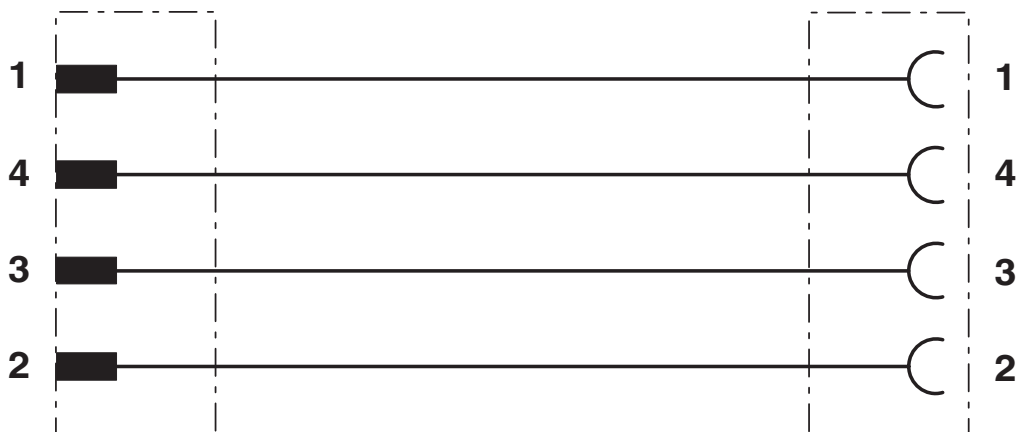
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Schematic diagram



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

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com