SAC-8P-M12MR/4,0-285/M12FR SH - Sensor/actuator cable

1401754

https://www.phoenixcontact.com/us/products/1401754

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Sensor/actuator cable, 8-position, PUR, highly flexible, gray RAL 7001, shielded, Plug angled M12, coding: A, on Socket angled M12, coding: A, cable length: 4 m, Twisted pair cable

Commercial data

Item number	1401754
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1CMA
GTIN	4046356571944
Weight per piece (including packing)	346.5 g
Weight per piece (excluding packing)	346.5 g
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	8
No. of cable outlets	1
Shielded	yes
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	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	2 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100

Signaling

Status display	no
Status display present	no

Connector

Connection 1

Type	Plug angled M12
Number of positions	8
Coding type	A

Connection 2

Type	Socket angled M12

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Number of positions	8
Coding type	A

Cable/line

Cable length	4 m

PUR, gray, shielded [285]

Dimensional drawing	

Number of positions	8
Shielded	yes
Cable type	PUR, gray, shielded [285]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	4x 2x 0.25 mm² (Signal line)
	1x 0.25 mm² (Drain wire)
External cable diameter	7.60 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PES
Single wire, color	white-brown, green-yellow, gray-pink, blue-red
Twisted pairs	2 cores to the pair
Overall twist	4 pairs for core
Optical shield covering	85 %
Insulation resistance	≥ 100 MΩ*km
Nominal voltage, cable	350 V
Test voltage	1200 V
Minimum bending radius, flexible installation	7.5 x D
Smallest bending radius, movable installation	57 mm
Dynamic load capacity (bending)	Max. bending cycles: 3000000, Bending radius: 100 mm, Traversing path: 1.2 m, Traversing rate: 1.4 m/s, Acceleration: 2 m/s²
Resistance to oil	very good oil and chemical resistance
Other resistance	Ozone and UV resistant
	Low adhesion
	abrasion-resistant
	notch tough
Ambient temperature (operation)	-50 °C ... 80 °C (cable, fixed installation)

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	-40 °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 ... 90 °C (Plug / socket)

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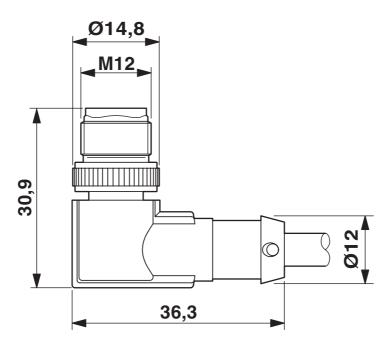
https://www.phoenixcontact.com/us/products/1401754
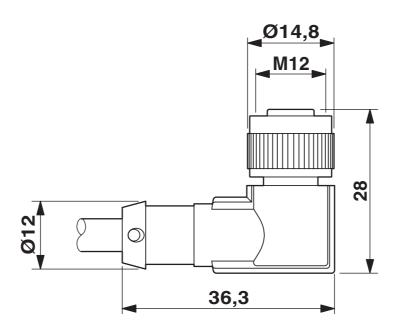
Drawings

Dimensional drawing

Ø14,8

M12

30,9

36,3

Ø12

M12 x 1 male plug, angled, shielded

Dimensional drawing

Ø14,8

M12

28

Ø12

36,3
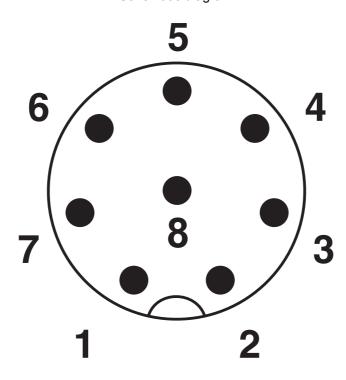
M12 x 1 socket, angled, shielded

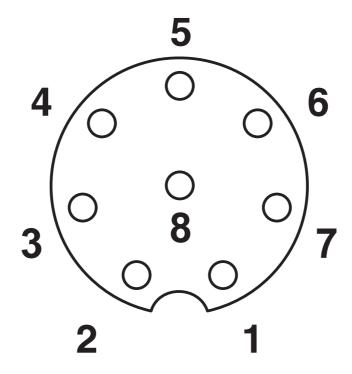# SAC-8P-M12MR/4,0-285/M12FR SH - Sensor/actuator cable

1401754

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Schematic diagram

Pin assignment M12 plug, 8-pos., A-coded, view plug side

Schematic diagram

Pin assignment M12 socket, 8-pos., A-coded, view female side

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1401754

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Classifications

ECLASS

ECLASS-13.0	27060311

ETIM

ETIM 8.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

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.)	Lead(CAS: 7439-92-1)
SCIP	dce9851e-bb9a-4244-b59a-accef454ed21