

SAC-8P-M12MS/ 3,0-285/M12FS SH - Sensor/actuator cable



1191705

<https://www.phoenixcontact.com/us/products/1191705>

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Sensor/actuator cable, 8-position, PUR, highly flexible, gray RAL 7001, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 3 m

as in the figure, but with a gray conductor

Commercial data

Item number	1191705
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1CMA
GTIN	4063151242978
Weight per piece (including packing)	279.4 g
Weight per piece (excluding packing)	104.93 g
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	8
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	CuZn
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	30 V AC
	30 V DC
Nominal current I_N	2 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	8
Coding type	A

Connection 2

Type	Socket straight M12
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Number of positions	8
Coding type	A

Cable/line

Cable length	3 m
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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 mm ² (Signal line) 1x 0.25 mm ² (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/s ²
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)
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

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Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

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Schematic diagram



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

Schematic diagram



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

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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

ETIM

ETIM 9.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com