

SAC-8P- 5,0-100/M12FS SH TP - Sensor/actuator cable

1534067
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Sensor/actuator cable, 8-position, PUR, gray RAL 7001, shielded, free cable end, on Socket straight M12, coding: A, cable length: 5 m

Commercial data

Item number	1534067
Packing unit	5 pc
Minimum order quantity	50 pc
Product key	AF1CMA
GTIN	4017918993566
Weight per piece (including packing)	461.9 g
Weight per piece (excluding packing)	461.9 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	$\geq 100 \text{ M}\Omega$
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	free cable end
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Connection 2

Type	Socket straight M12
Number of positions	8
Coding type	A

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Cable/line

Cable length	5 m
PUR/PVC shielded, gray [100 TP]	
Cable weight	72 kg/km
Number of positions	8
Shielded	yes
Cable type	PUR/PVC shielded, gray [100 TP]
Conductor structure signal line	32x 0.10 mm (Signal line)
AWG signal line	24
Conductor structure, voltage supply	32x 0.10 mm (Drain wire)
Conductor cross section	4x 2x 0.25 mm ² (twisted pair)
	1x 0.25 mm ² (Drain wire)
Wire diameter incl. insulation	1.3 mm ±0.05 mm
External cable diameter	7.6 mm
Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	white-brown, green-yellow, gray-pink, blue-red
Thickness, insulation	0.33 mm (Core insulation)
	0.80 mm (Outer cable sheath)
Twisted pairs	2 cores to the pair
Type of pair shielding	Aluminum-lined polyester foil
Overall twist	Wires twisted in pair
Optical shield covering	82 %
Insulation resistance	≥ 100 MΩ*km
Working capacitance	100 pF (Line-line)
	145 pF (Line-shield)
Nominal voltage, cable	250 V
Test voltage Core/Core	1500 V
Test voltage Core/Shield	1500.00 V
Smallest bending radius, fixed installation	76 mm
Smallest bending radius, movable installation	76 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 76 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

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Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

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Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



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

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 8.0	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-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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