

# SAC-8P-10,0-285/FS SH SCO - Sensor/actuator cable



1404958

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Sensor/actuator cable, 8-pos., PUR, halogen free, RAL 7001 (gray), shielded, free cable end, to straight M12 SPEEDCON socket, A-coded, cable length: 10 m

as in the figure, but with a gray conductor

## Commercial data

Item number	1404958
Packing unit	1 pc
Minimum order quantity	50 pc
Product key	AF1CMA
GTIN	4046356729666
Weight per piece (including packing)	806 g
Weight per piece (excluding packing)	761 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
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

### 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 SPEEDCON
Number of positions	8
Locking type	SPEEDCON
Coding type	A

### Cable/line

Cable length	10 m
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PUR, gray, shielded [285]

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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 <sup>2</sup> (Signal line) 1x 0.25 mm <sup>2</sup> (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 <sup>2</sup>
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) -40 °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) (male connector/female connector)

-25 °C ... 90 °C (Plug / socket)

Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

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Schematic diagram



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

Circuit diagram



Contact assignment of the M12 socket

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## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

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