

SAC-6P- 3,0-PUR/M 8FS - Sensor/actuator cable



1522202

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Sensor/actuator cable, 6-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M8, coding: A, cable length: 3 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components

Commercial data

Item number	1522202
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	AF1BGA
GTIN	4046356020992
Weight per piece (including packing)	106.866 g
Weight per piece (excluding packing)	102 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	6
No. of cable outlets	1
Shielded	no
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	1.5 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connection data

Conductor connection	
Tightening torque	0.2 Nm (M8 connectors)

Connector

Connection 1

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Type

free cable end

Connection 2

Type

Socket straight M8

Number of positions

6

Coding type

A

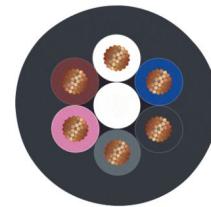
Cable/line

Cable length

3 m

PUR halogen-free black [PUR]

Dimensional drawing



Cable weight

34 kg/km

Number of positions

6

Shielded

no

Cable type

PUR halogen-free black [PUR]

Conductor structure signal line

32x 0.10 mm

AWG signal line

24

Conductor cross section

6x 0.25 mm² (Signal line)

Wire diameter incl. insulation

1.17 mm ±0.02 mm

External cable diameter

5 mm

5.00 mm ±0.15 mm

Outer sheath, material

PUR

External sheath, color

black-gray RAL 7021

Conductor material

Bare Cu litz wires

Material, filler

PE

Material wire insulation

PP

Single wire, color

brown, white, blue, black, gray, pink

Thickness, insulation

≥ 0.21 mm (Core insulation)

Thickness, outer sheath

approx. 0.70 mm

Overall twist

Six cores around the filler to the core

Max. conductor resistance

78 Ω/km (at 20 °C)

Insulation resistance

≥ 100 MΩ*km (at 20 °C)

Nominal voltage, cable

≤ 300 V

Test voltage

≥ 3000 V

Minimum bending radius, fixed installation

5 x D

Minimum bending radius, flexible installation

10 x D

Smallest bending radius, fixed installation

25 mm

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Smallest bending radius, movable installation	50 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 50 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Dynamic load capacity (torsion)	Torsion: ± 180 °/m, Torsion cycles: ≥ 2000000 , Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with DIN UL-Style 20549
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents hydrolysis and microbe resistant partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °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 IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C ... 80 °C (Cable, flexible installation)

Standards and regulations

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

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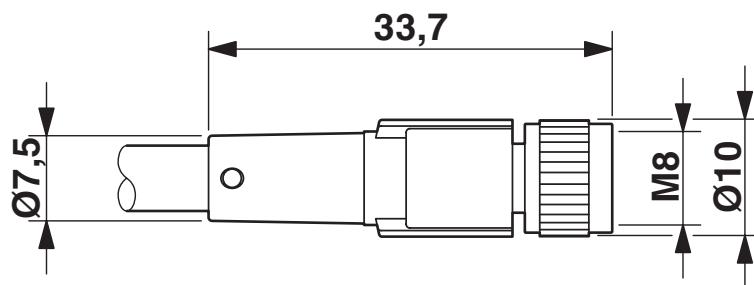
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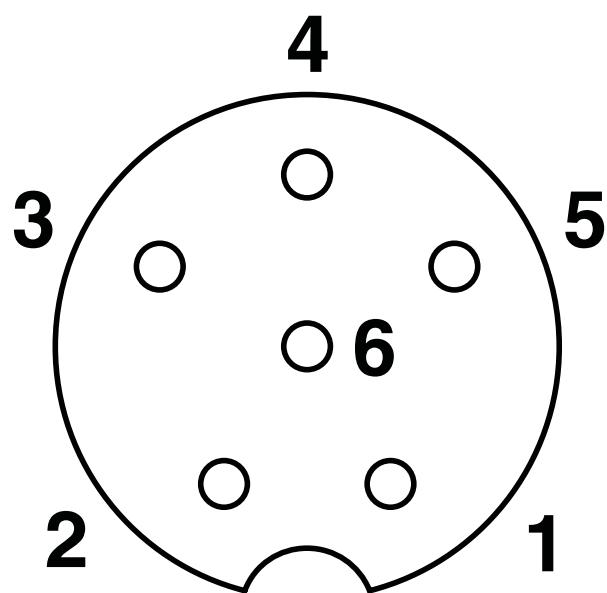
Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



Pin assignment M8 socket, 6-pos.

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Circuit diagram



Contact assignment of M8 socket

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Approvals

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UL Listed		Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine					
		30 V	1.5 A	-	-

cUL Listed		Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine					
		30 V	1.5 A	-	-

EAC-RoHS		Approval ID: RU D-DE.HB35.B.00387			

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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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EF3.0 Climate Change

CO2e kg	0.727 kg CO2e
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