

SAC-4P- 1,0-100/M 8SIFS - Sensor/actuator cable



1579763

<https://www.phoenixcontact.com/us/products/1579763>

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Sensor/actuator cable, 4-position, PUR/PVC, gray RAL 7001, free cable end, on Socket straight M8, cable length: 1 m

as in the figure, but with a gray conductor

Commercial data

Item number	1579763
Packing unit	1 pc
Minimum order quantity	25 pc
Product key	AF1BCA
GTIN	4046356515733
Weight per piece (including packing)	36.64 g
Weight per piece (excluding packing)	36.64 g
Country of origin	DE

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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	4
No. of cable outlets	1

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	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 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 M8
Number of positions	4

Cable/line

Cable length	1 m
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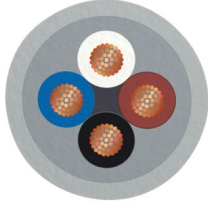
PUR/PVC gray [100]

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Dimensional drawing	
Cable weight	32 kg/km
Number of positions	4
Shielded	no
Cable type	PUR/PVC gray [100]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross-section	0.25 mm ²
Wire diameter incl. insulation	1.32 mm ±0.02 mm
External cable diameter	4.70 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.23 mm (Core insulation) ≥ 0.38 mm (Outer cable sheath) approx. 3.80 mm ±0.1 mm (Inner sheath)
Overall twist	4 wires, twisted
Max. conductor resistance	max. 78 Ω/km (at 20 °C)
Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, fixed installation	47 mm
Smallest bending radius, movable installation	47 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 47 mm, Traversing path: 5 m, Traversing rate: 3 m/s
Flame resistance	in accordance with DIN UL-Style 20549
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
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

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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)

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Drawings

Dimensional drawing



M8 snap-in sockets

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

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Circuit diagram



Contact assignment of M8 socket

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Classifications

ECLASS

ECLASS-15.0	27060311
ECLASS-13.0	27060311

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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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