

Sensor/actuator cable - SAC-4P-M 8MS/ 5,0-600 FB



1406839

<https://www.phoenixcontact.com/pc/products/1406839>

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Sensor/actuator cable, 4-position, PP-EPDM halogen-free, gray RAL 7035, Plug straight M8, on free cable end, cable length: 5 m, Hygienic design, with plastic knurl

Your advantages

- Easy and safe: 100% electrically tested plug-in components
- Contamination can be detected quickly – thanks to the light color

Commercial Data

Item number	1406839
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	BF1BCA
Catalog Page	Page 141 (C-4-2013)
GTIN	4046356781619
Weight per Piece (including packing)	122 g
Weight per Piece (excluding packing)	122 g
Customs tariff number	85444290
Country of origin	PL

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Technical Data

Product properties

Product type	Sensor/actuator cable
Number of positions	4
Application	Food processing industry
No. of cable outlets	1
Shielded	no
Coding	A - standard

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Material of grip body	PP
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material for screw connection	Polypropylene

Electrical properties

Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A
Protective circuit	unwired

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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LED signaling

Status display	No
Status display present	No

Connection data

Conductor connection

Tightening torque	0.2 Nm (M8 connectors)
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Connector

Connection 1

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Head design	Plug
Head cable outlet	straight
Head thread type	M8


Connection 2

Head design	free cable end
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Cable / line

Cable length	5 m
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Halogen-free PP gray [600]

Dimensional drawing	
Cable weight	23 kg/km
Number of positions	4
Shielded	no
Cable type	Halogen-free PP gray [600]
Conductor structure signal line	32x 0.10 mm
AWG signal line	24
Conductor cross section	4x 0.25 mm ² (Signal line)
Wire diameter incl. insulation	1.17 mm ±0.02 mm (Signal line)
External cable diameter	4.5 mm ±0.15 mm
Outer sheath, material	PP-EPDM
External sheath, color	gray RAL 7035
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation)
Thickness, outer sheath	approx. 0.8 mm
Overall twist	4 wires, twisted
Length of twist, overall twist	44 mm
Max. conductor resistance	78 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage	≥ 3000 V AC (Spark test)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Max. bending cycles	4000000
Torsion force	± 270 °/m

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Torsion cycles	≥ 4000000
Torsional frequency	max. 25 (Torsion cycles/min)
Halogen-free	in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1
Other resistance	Resistant to cold bending and cold impacts according to DIN EN 60811-1-4 (-40 °C)
Special properties	FDA compliant according to FDA 21 CFR 177.2600 highly flexible Flexible cable conduit capable
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation) -25 °C ... 105 °C (Cable, flexible installation)

Ambient conditions

Degree of protection	IP65 IP67 IP68 IP69K
Ambient temperature (operation)	-40 °C ... 105 °C (Plug / socket)

Standards and regulations

M8

Standards/specifications	IEC 61076-2-104
Standards/specifications	FDA 21 CFR 177.2600

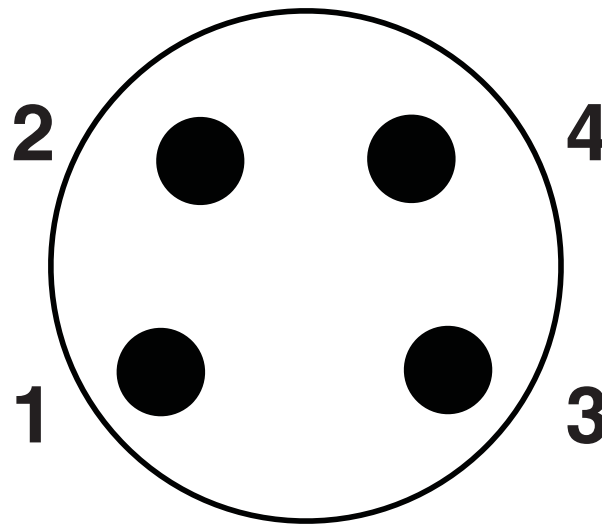
Sensor/actuator cable - SAC-4P-M 8MS/ 5,0-600 FB

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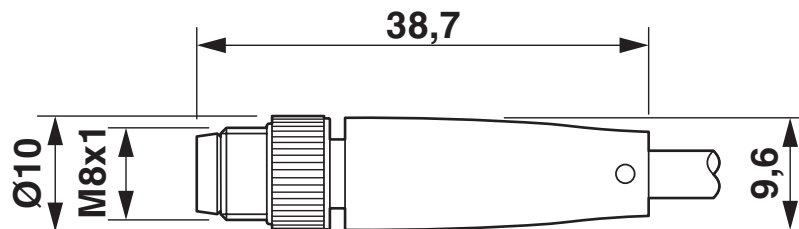
Drawings

Schematic diagram



Pin assignment M8 plug, 4-pos., view male side

Dimensional drawing



M8 x 1 male plug, straight version

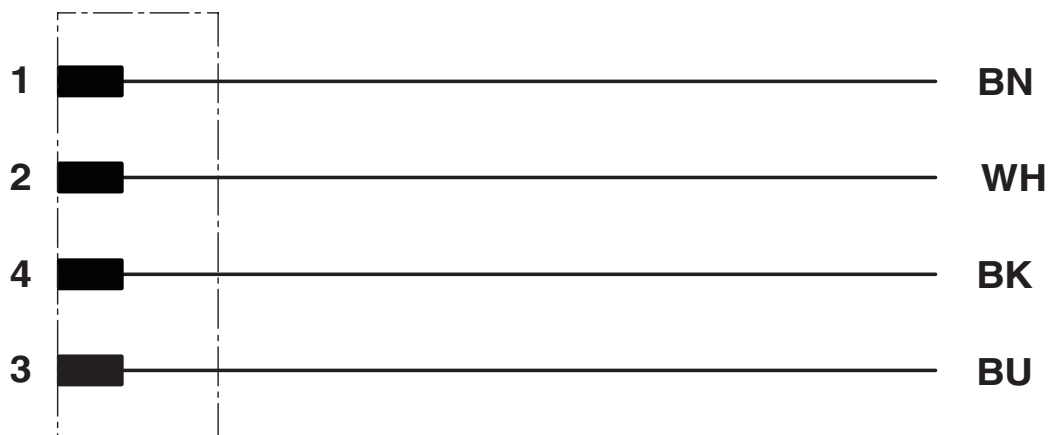
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Circuit diagram



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Approvals



EAC

Approval ID: RU C-DE.BL08.B.00286



EAC

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

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Classifications

ECLASS

ECLASS-9.0	27060311
ECLASS-10.0.1	27060311
ECLASS-11.0	27060311

ETIM

ETIM 8.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

Diagonal cutter

Diagonal cutter - CUTFOX-S VDE - 1212207

<https://www.phoenixcontact.com/pc/products/1212207>



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

Stripping tool

Stripping tool - WIREFOX SAC - 1212623

<https://www.phoenixcontact.com/pc/products/1212623>



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

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Stripping tool

Stripping tool - WIREFOX 10 - 1212150

<https://www.phoenixcontact.com/pc/products/1212150>



Stripping tool, for cables and conductors from 0.02 - 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

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