

## Sensor/Actuator cable - SAC-4P-M 8MR/ 3,0-600 FB - 1406843

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Sensor/Actuator cable, 4-position, PP-EPDM halogen-free, gray RAL 7035, Plug angled M8, on free cable end, Cable length: 3 m, Hygienic design, with plastic knurl

### Why buy this product

- ✓ Easy and safe: 100% electrically tested plug-in components
- ✓ Easy to clean, thanks to the special hygienic design
- ✓ Contamination can be detected quickly – thanks to the light color

### Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4046356781640

### Technical data

#### Dimensions

Length of cable	3 m
-----------------	-----

#### Ambient conditions

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

#### General

Rated current at 40°C	4 A
Rated voltage	30 V
Number of positions	4
Insulation resistance	≥ 100 MΩ

# Sensor/Actuator cable - SAC-4P-M 8MR/ 3,0-600 FB - 1406843

## Technical data

### General

Coding	A - standard
Standards/regulations	M8 connector IEC 61076-2-104
	Material conformance FDA 21 CFR 177.2600
Status display	No
Protective circuit/component	Unwired
Insertion/withdrawal cycles	≥ 100
Torque	0.2 Nm (M8 connectors)

### Material

Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material of grip body	PP
Material, knurls	Polypropylene

### Standards and Regulations

Standard designation	M8 connector
Standards/regulations	IEC 61076-2-104
Standard designation	Material conformance
Standards/regulations	FDA 21 CFR 177.2600

### Cable

Cable type	Halogen-free PP gray
Cable type (abbreviation)	600
Cable abbreviation	Li9Y14Y
Conductor cross section	4x 0.25 mm <sup>2</sup> (Signal line)
AWG signal line	24
Conductor structure signal line	32x 0.10 mm
Core diameter including insulation	1.17 mm ±0.02 mm (Signal line)
Thickness, insulation	≥ 0.21 mm (Core insulation)
Wire colors	brown, white, blue, black
Overall twist	4 wires, twisted
Length of twist, overall twist	44 mm
External sheath, color	gray RAL 7035
Outer sheath thickness	approx. 0.8 mm
External cable diameter D	4.5 mm ±0.15 mm
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	4000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m
Traversing rate	3 m/s

# Sensor/Actuator cable - SAC-4P-M 8MR/ 3,0-600 FB - 1406843

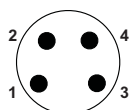
## Technical data

### Cable

Acceleration	10 m/s <sup>2</sup>
Torsion force	± 270 °/m (4,000,000 torsion cycles, max. 25 torsion cycles/min)
Cable weight	23 kg/km
Outer sheath, material	PP-EPDM
Material conductor insulation	PP
Conductor material	Bare Cu litz wires
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Conductor resistance	78 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage, cable	≥ 3000 V AC (Spark test)
Special properties	FDA compliant according to FDA 21 CFR 177.2600
	highly flexible
	Flexible cable conduit capable
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)
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation)
	-25 °C ... 105 °C (cable, flexible installation)

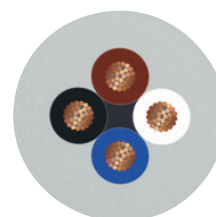
## Drawings

Schematic diagram



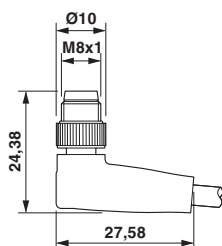
Pin assignment M8 plug, 4-pos., view male side

Cable cross section



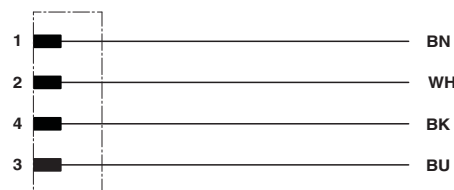
Halogen-free PP gray [600]

Dimensional drawing



M8 x 1 male plug, angled version

Circuit diagram



Contact assignment of the M8 plug

---

Phoenix Contact 2017 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>