

# SAC-3P- 5,0-100/M 8FS GY - Sensor/actuator cable



1436950

<https://www.phoenixcontact.com/us/products/1436950>

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 documentation. Our general terms of use for downloads are valid.



Sensor/actuator cable, 3-position, PUR/PVC, gray RAL 7001, free cable end, on Socket straight M8, coding: A, cable length: 5 m

## Commercial data

Item number	1436950
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF1BBA
GTIN	4046356444347
Weight per piece (including packing)	138.8 g
Weight per piece (excluding packing)	138.7 g
Country of origin	DE

1436950

<https://www.phoenixcontact.com/us/products/1436950>

## Technical data

### Product properties

Product type	Sensor/actuator cable
Number of positions	3
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	CuSn
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 $U_N$	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
------	----------------

#### Connection 2

Type	Socket straight M8
Number of positions	3
Coding type	A

### Cable/line

Cable length	5 m
--------------	-----

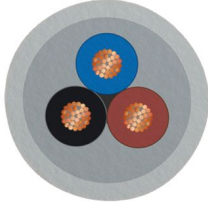
PUR/PVC gray [100]

# SAC-3P- 5,0-100/M 8FS GY - Sensor/actuator cable



1436950

<https://www.phoenixcontact.com/us/products/1436950>

Dimensional drawing	
Cable weight	27 kg/km
Number of positions	3
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 <sup>2</sup>
Wire diameter incl. insulation	1.32 mm ±0.02 mm
External cable diameter	4.40 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, blue, black
Thickness, insulation	≥ 0.23 mm (Core insulation) ≥ 0.38 mm (Outer cable sheath) approx. 3.50 mm ±0.1 mm (Inner sheath)
Overall twist	3 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	22 mm
Smallest bending radius, movable installation	44 mm
Dynamic load capacity (bending)	Max. bending cycles: 2000000, Bending radius: 44 mm, Traversing path: 5 m, Traversing rate: 3 m/s
Flame resistance	As per UL-Style 2464
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 IP68
Ambient temperature (operation) (male connector/female)	-25 °C ... 90 °C (Plug / socket)

# SAC-3P- 5,0-100/M 8FS GY - Sensor/actuator cable



1436950

<https://www.phoenixcontact.com/us/products/1436950>

connector)

# SAC-3P- 5,0-100/M 8FS GY - Sensor/actuator cable

1436950

<https://www.phoenixcontact.com/us/products/1436950>

## Drawings

Dimensional drawing



Socket M8 x 1, angled

Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

# SAC-3P- 5,0-100/M 8FS GY - Sensor/actuator cable



1436950

<https://www.phoenixcontact.com/us/products/1436950>

Circuit diagram



Contact assignment of M8 plugs/sockets

# SAC-3P- 5,0-100/M 8FS GY - Sensor/actuator cable



1436950

<https://www.phoenixcontact.com/us/products/1436950>

## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

# SAC-3P- 5,0-100/M 8FS GY - Sensor/actuator cable



1436950

<https://www.phoenixcontact.com/us/products/1436950>

## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

### 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)