

# SAC-5P- 7,5-802/M12FS - Sensor/actuator cable



1454435

<https://www.phoenixcontact.com/us/products/1454435>

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, 5-position, PUR halogen-free, resistant to welding sparks, highly flexible, gray RAL 7001, free cable end, on Socket straight M12, coding: A, cable length: 7.5 m

## Commercial data

Item number	1454435
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF1CDA
GTIN	4046356578066
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	PL

# SAC-5P- 7,5-802/M12FS - Sensor/actuator cable



1454435

<https://www.phoenixcontact.com/us/products/1454435>

## Technical data

### Product properties

Product type	Sensor/actuator cable
Number of positions	5
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 M12
Number of positions	5
Coding type	A

### Cable/line

Cable length	7.5 m
--------------	-------

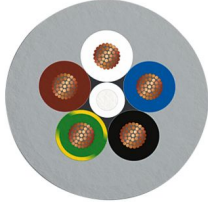
PUR halogen-free highly flexible resistant to welding sparks gray 5th conductor green/yellow [802]

# SAC-5P- 7,5-802/M12FS - Sensor/actuator cable



1454435

<https://www.phoenixcontact.com/us/products/1454435>

Dimensional drawing	
Note	Due to the extremely robust outer sheath, this cable should only be stripped in 5 cm increments.
Cable weight	38 kg/km
UL AWM Style	20549
Number of positions	5
Shielded	no
Cable type	PUR halogen-free highly flexible resistant to welding sparks gray 5th conductor green/yellow [802]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross-section	5x 0.34 mm <sup>2</sup> (Signal line)
Wire diameter incl. insulation	1.3 mm ±0.05 mm (Signal line)
External cable diameter	5.10 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black, green-yellow
Overall twist	5 wires around filler to the core
Max. conductor resistance	approx. 53 Ω/km
Insulation resistance	≥ 20 MΩ*km
Nominal voltage, cable	300 V
Test voltage	1200 V
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	5 x D
Smallest bending radius, fixed installation	26 mm
Smallest bending radius, movable installation	26 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 7,5 x D, Traversing path: 5 m, Traversing rate: 3.3 m/s, Acceleration: 5 m/s <sup>2</sup> Max. bending cycles: 15000000, Bending radius: 50 mm, Traversing path: 0.9 m, Traversing rate: 5 m/s, Acceleration: 30 m/s <sup>2</sup>
Dynamic load capacity (torsion)	Torsion: ±360 °/m, Torsion cycles: 1000000, Torsional frequency: 35 cycles/min.
Halogen-free	The cable is halogen-free
Flame resistance	in accordance with UL 758/1581 FT2
Resistance to oil	in accordance with DIN EN 60811-2-1

# SAC-5P- 7,5-802/M12FS - Sensor/actuator cable



1454435

<https://www.phoenixcontact.com/us/products/1454435>

Other resistance	Highly resistant to acids, alkaline solutions and solvents
	Silicone-free
Special properties	Cable jacket is welding spark-resistant, recyclable, matt, low-adhesion, abrasion-resistant, flame-retardant, and self-extinguishing
	Free from silicone and cadmium
	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °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) (fixed installation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (flexible installation)	-5 °C ... 80 °C (Cable, flexible installation)

# SAC-5P- 7,5-802/M12FS - Sensor/actuator cable

1454435

<https://www.phoenixcontact.com/us/products/1454435>

## Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

# SAC-5P- 7,5-802/M12FS - Sensor/actuator cable



1454435

<https://www.phoenixcontact.com/us/products/1454435>

Circuit diagram



Contact assignment of the M12 sockets

# SAC-5P- 7,5-802/M12FS - Sensor/actuator cable



1454435

<https://www.phoenixcontact.com/us/products/1454435>

## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

# SAC-5P- 7,5-802/M12FS - Sensor/actuator cable



1454435

<https://www.phoenixcontact.com/us/products/1454435>

## 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)