

# SAC-5P-20,0-600/M12FS HD - Sensor/actuator cable



1420762

<https://www.phoenixcontact.com/us/products/1420762>

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, PP-EPDM halogen-free, gray RAL 7035, free cable end, on Socket straight M12, coding: A, cable length: 20 m, Hygienic design, with high-grade steel knurl

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Stainless steel type 1.4404 used to provide corrosion protection for all exposed metal parts
- Contamination can be detected quickly – thanks to the light color

## Commercial data

Item number	1420762
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF03
Product key	AF1CDA
GTIN	4055626238821
Weight per piece (including packing)	641.5 g
Weight per piece (excluding packing)	616 g
Customs tariff number	85444290
Country of origin	PL

1420762

<https://www.phoenixcontact.com/us/products/1420762>

## Technical data

### Product properties

Product type	Sensor/actuator cable
Application	Food processing industry
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Material specifications

Seal material	FKM
Material of grip body	PP
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PP
Material for screw connection	Stainless steel

### Electrical properties

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
Coding type	A

### Cable/line

Cable length	20 m
--------------	------

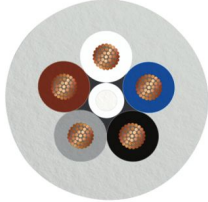
Halogen-free PP gray [600]

# SAC-5P-20,0-600/M12FS HD - Sensor/actuator cable



1420762

<https://www.phoenixcontact.com/us/products/1420762>

Dimensional drawing	
Cable weight	34 kg/km
Number of positions	5
Shielded	no
Cable type	Halogen-free PP gray [600]
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	1.27 mm ±0.02 mm (Signal line)
External cable diameter	5.00 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, gray
Thickness, insulation	≥ 0.21 mm (Core insulation)
Thickness, outer sheath	approx. 0.70 mm
Overall twist	5 cores, twisted
Length of twist, overall twist	55 mm
Max. conductor resistance	58 Ω/km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage	≥ 3000 V AC
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	25 mm
Smallest bending radius, movable installation	50 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s <sup>2</sup>
Dynamic load capacity (torsion)	Torsion: ±270 °/m, Torsion cycles: ≥4000000, Torsional frequency: max.25 Torsion cycles/min
Halogen-free	in accordance with DIN VDE 0472 part 815
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)

# SAC-5P-20,0-600/M12FS HD - Sensor/actuator cable



1420762

<https://www.phoenixcontact.com/us/products/1420762>

	-25 °C ... 105 °C (Cable, flexible installation)
--	--

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP68
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 105 °C (Plug / socket)

## Standards and regulations

### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Standard designation	Material conformance
Standards/specifications	FDA 21 CFR 177.2600

# SAC-5P-20,0-600/M12FS HD - Sensor/actuator cable

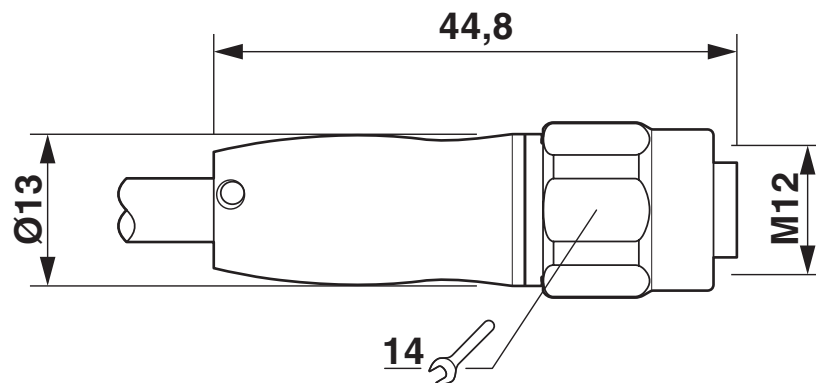


1420762

<https://www.phoenixcontact.com/us/products/1420762>

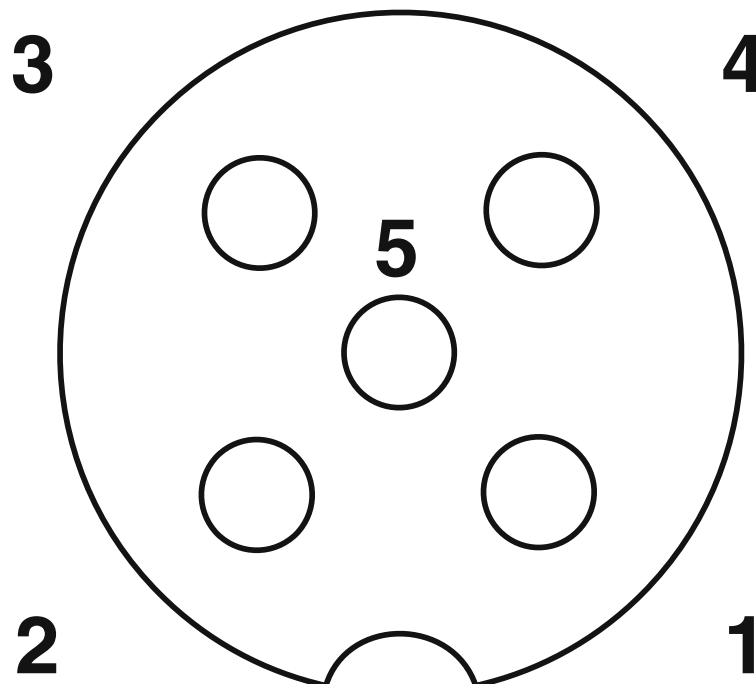
## Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



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

# SAC-5P-20,0-600/M12FS HD - Sensor/actuator cable



1420762

<https://www.phoenixcontact.com/us/products/1420762>

Circuit diagram



Contact assignment of the M12 socket

# SAC-5P-20,0-600/M12FS HD - Sensor/actuator cable



1420762

<https://www.phoenixcontact.com/us/products/1420762>

## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

ETIM 10.0	EC001855
-----------	----------

### UNSPSC

UNSPSC 21.0	26121600
-------------	----------

# SAC-5P-20,0-600/M12FS HD - Sensor/actuator cable



1420762

<https://www.phoenixcontact.com/us/products/1420762>

## 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)