

# SACC-M12MS-5CON-PG 7-SH - Connector

1693416

<https://www.phoenixcontact.com/us/products/1693416>



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.



Connector, Universal, 5-position, shielded, Plug straight M12, coding: A, Screw connection, knurl material: Brass, nickel-plated, cable gland Pg7, external cable diameter 4 mm ... 6 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Screw connection: proven connection technology for a large selection of different conductors
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

## Commercial data

Item number	1693416
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	AF2CBA
GTIN	4017918173531
Weight per piece (including packing)	57 g
Weight per piece (excluding packing)	57 g
Customs tariff number	85366990
Country of origin	CN

# SACC-M12MS-5CON-PG 7-SH - Connector

1693416

<https://www.phoenixcontact.com/us/products/1693416>



## Technical data

### Notes

Assembly note	<b>NOTE:</b> Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.
---------------	---

### Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	A
Cable outlet	straight
Pg screw connection	Pg7

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	20 mm
Height	20 mm
Length	62 mm

### External dimensions

Outside diameter	4 mm ... 6 mm
------------------	---------------

### Housing

Diameter housing	20 mm
------------------	-------

### Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	Brass, nickel-plated
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Brass, nickel-plated

# SACC-M12MS-5CON-PG 7-SH - Connector

1693416

<https://www.phoenixcontact.com/us/products/1693416>



## Connection data

### Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (without ferrule) 0.14 mm <sup>2</sup> ... 0.5 mm <sup>2</sup> (with ferrule) 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (solid)
Connection cross section AWG	24 ... 18 (without ferrule) 26 ... 20 (with ferrule)
Stripping length of the individual wire	5 mm
Tightening torque	0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm ... 1 Nm (Pressure nut with coupling sleeve)

## Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC 60 V DC
Nominal current I <sub>N</sub>	4 A

## Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100

## Connector

### Connection 1

Head design	Plug
Head cable outlet	straight
Head thread type	M12
Coding	A

## Cable/line

Signal type/category	Universal
Stripping length of the individual wire	5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-40 °C ... 85 °C (Plug / socket)

# SACC-M12MS-5CON-PG 7-SH - Connector

1693416

<https://www.phoenixcontact.com/us/products/1693416>



## Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

# SACC-M12MS-5CON-PG 7-SH - Connector

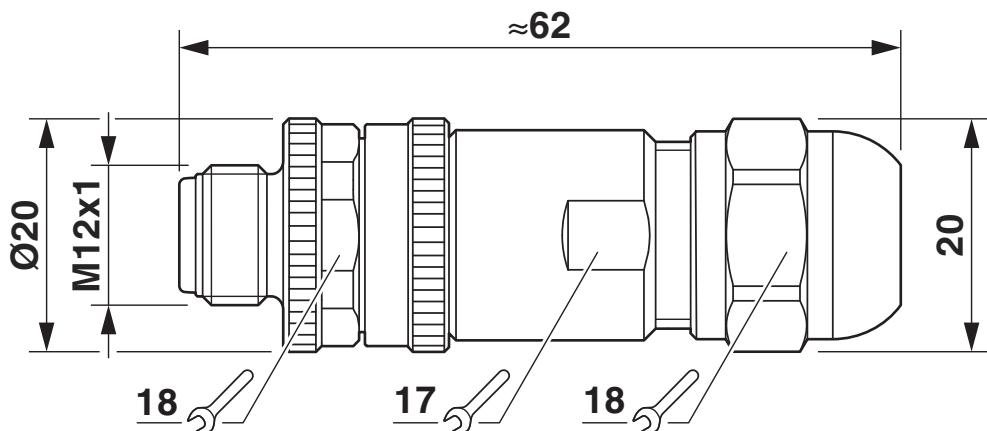
1693416

<https://www.phoenixcontact.com/us/products/1693416>



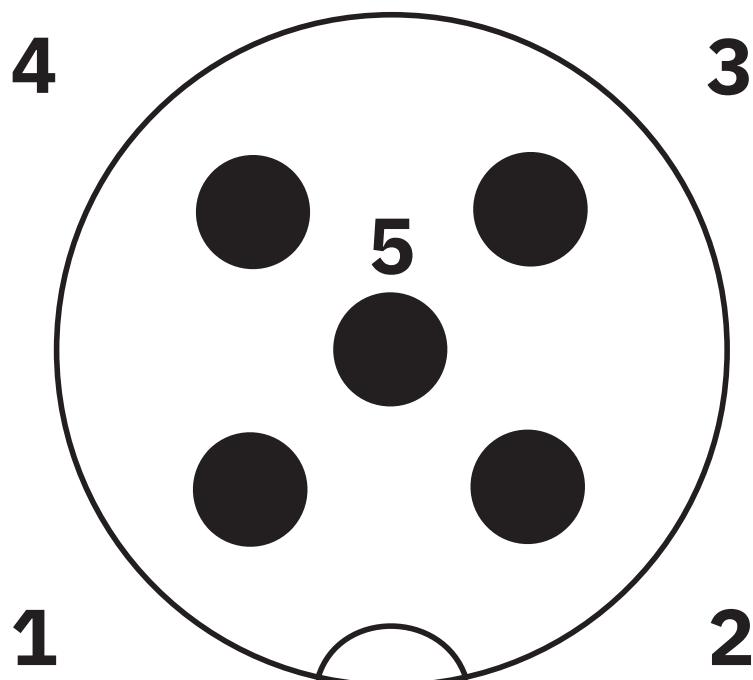
## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

# SACC-M12MS-5CON-PG 7-SH - Connector

1693416

<https://www.phoenixcontact.com/us/products/1693416>



## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1693416>

		cUL Recognized		
		Approval ID: FILE E 221474		
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
keine		60 V	4 A	-
				-

		UL Recognized		
		Approval ID: FILE E 221474		
		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG
keine		60 V	4 A	-
				-

# SACC-M12MS-5CON-PG 7-SH - Connector

1693416

<https://www.phoenixcontact.com/us/products/1693416>



## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 9.0	EC002635
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# SACC-M12MS-5CON-PG 7-SH - Connector

1693416

<https://www.phoenixcontact.com/us/products/1693416>



## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.	

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	047379f9-2f73-46b6-b1c3-80acc3be5ab2

### EF3.0 Climate Change

CO2e kg	0.907 kg CO2e
---------	---------------

Phoenix Contact 2025 © - 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)