

# SACC-M12FS-4CON-PG 7-SH - Connector



1694295

<https://www.phoenixcontact.com/us/products/1694295>

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, 4-position, shielded, Socket 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	1694295
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	BF2CBA
Catalog page	Page 24 (C-2-2019)
GTIN	4017918181291
Weight per piece (including packing)	59 g
Weight per piece (excluding packing)	59 g
Customs tariff number	85366990
Country of origin	CN

# SACC-M12FS-4CON-PG 7-SH - Connector



1694295

<https://www.phoenixcontact.com/us/products/1694295>

## Technical data

### Notes

Assembly note	<b>NOTE:</b> Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate 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	4
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	57 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-M12FS-4CON-PG 7-SH - Connector



1694295

<https://www.phoenixcontact.com/us/products/1694295>

## 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	2.5 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	Socket
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)	-40 °C ... 85 °C (Plug / socket)

## Standards and regulations

# SACC-M12FS-4CON-PG 7-SH - Connector



1694295

<https://www.phoenixcontact.com/us/products/1694295>

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

# SACC-M12FS-4CON-PG 7-SH - Connector

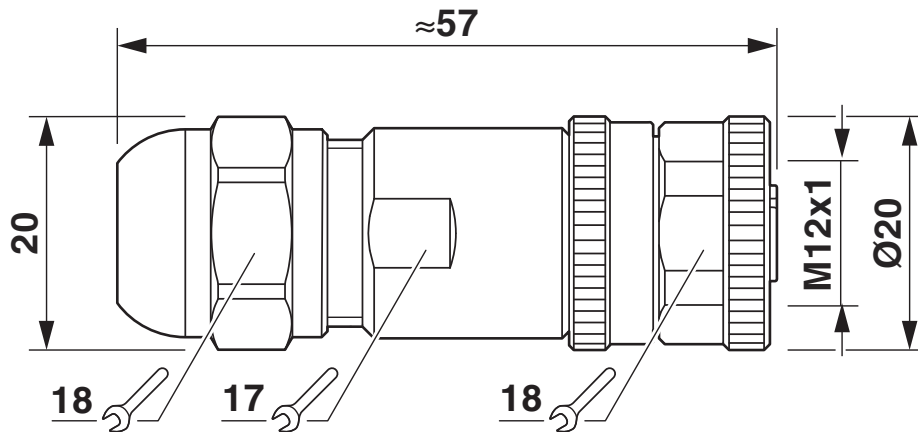
1694295

<https://www.phoenixcontact.com/us/products/1694295>



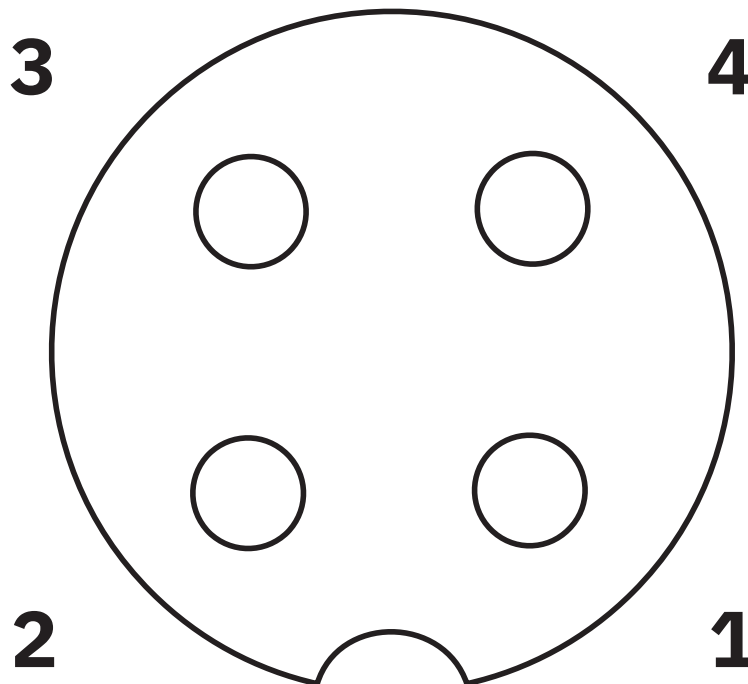
## Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

# SACC-M12FS-4CON-PG 7-SH - Connector





1694295

<https://www.phoenixcontact.com/us/products/1694295>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1694295>

 <b>cUL Recognized</b> Approval ID: FILE E 221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	250 V	4 A	-	-

 <b>UL Recognized</b> Approval ID: FILE E 221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	250 V	4 A	-	-

<b>cULus Recognized</b>				
-------------------------	--	--	--	--

# SACC-M12FS-4CON-PG 7-SH - Connector



1694295

<https://www.phoenixcontact.com/us/products/1694295>

## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

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

### UNSPSC

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

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	3e1a6b4e-9a9c-455d-a809-eed912ada33c



# SACC-M12FS-4CON-PG 7-SH - Connector



1694295

<https://www.phoenixcontact.com/us/products/1694295>

## Accessories

### PROT-M12 MS-PA-CHAIN - Screw plug

1430899

<https://www.phoenixcontact.com/us/products/1430899>

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



---

### SAC-4P-100,0-PUR/SH-0,25 - Cable reel

1535794

<https://www.phoenixcontact.com/us/products/1535794>

By the meter, Cable reel, shielded, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m



# SACC-M12FS-4CON-PG 7-SH - Connector

1694295

<https://www.phoenixcontact.com/us/products/1694295>



## SAC-4P-100,0-PUR/SH-0,34 - Cable reel

1501715

<https://www.phoenixcontact.com/us/products/1501715>



By the meter, Cable reel, shielded, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m

---

## A 0,25- 5 - Ferrule

3202465

<https://www.phoenixcontact.com/us/products/3202465>



Ferrule, color: silver

# SACC-M12FS-4CON-PG 7-SH - Connector



1694295

<https://www.phoenixcontact.com/us/products/1694295>

## TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/us/products/1208429>



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

---

## SACC BIT M12-D20 - Tool

1208445

<https://www.phoenixcontact.com/us/products/1208445>



Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

# SACC-M12FS-4CON-PG 7-SH - Connector

1694295

<https://www.phoenixcontact.com/us/products/1694295>



## TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/us/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

---

## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/us/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

# SACC-M12FS-4CON-PG 7-SH - Connector

1694295

<https://www.phoenixcontact.com/us/products/1694295>



## CRIMPFOX 6H - Crimping pliers

1212046

<https://www.phoenixcontact.com/us/products/1212046>



Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm<sup>2</sup> ... 6 mm<sup>2</sup>, unlockable pressure lock, lateral entry

---

## SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/us/products/1204517>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

---

Phoenix Contact 2024 © - 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)