

SACC-M12FS-5CON-PG 7-SH - Connector



1694305

<https://www.phoenixcontact.com/us/products/1694305>

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, 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	1694305
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	BF2CBA
Catalog page	Page 24 (C-2-2019)
GTIN	4017918181307
Weight per piece (including packing)	60 g
Weight per piece (excluding packing)	59.5 g
Customs tariff number	85366990
Country of origin	CN

SACC-M12FS-5CON-PG 7-SH - Connector



1694305

<https://www.phoenixcontact.com/us/products/1694305>

Technical data

Notes

Assembly note

NOTE: 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.

Mounting

Thread type

()

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

Data management status

Article revision

04

Insulation characteristics

Overvoltage category

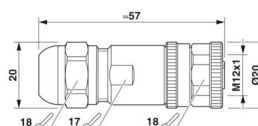
II

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

SACC-M12FS-5CON-PG 7-SH - Connector



1694305

<https://www.phoenixcontact.com/us/products/1694305>

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

Connection data

Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm² ... 0.75 mm² (without ferrule)
	0.14 mm² ... 0.5 mm² (with ferrule)
	0.25 mm² ... 0.75 mm² (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 _N	48 V AC
	60 V DC
Nominal current I _N	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

SACC-M12FS-5CON-PG 7-SH - Connector



1694305

<https://www.phoenixcontact.com/us/products/1694305>

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

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

SACC-M12FS-5CON-PG 7-SH - Connector

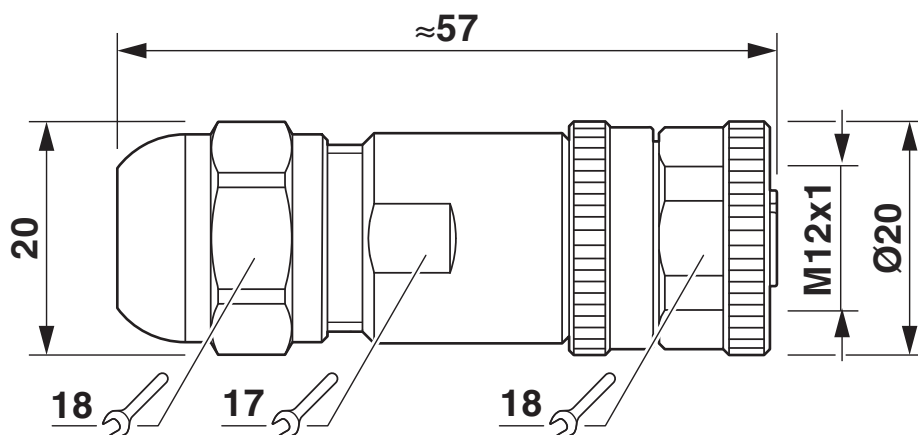
1694305

<https://www.phoenixcontact.com/us/products/1694305>



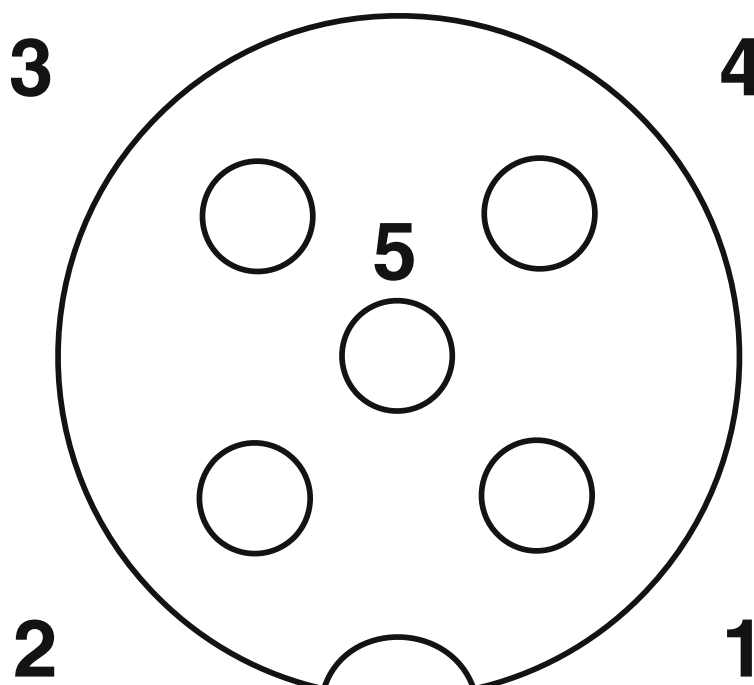
Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

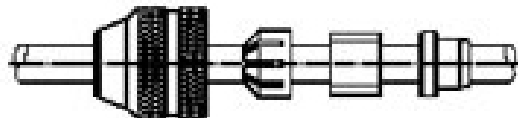
Schematic diagram



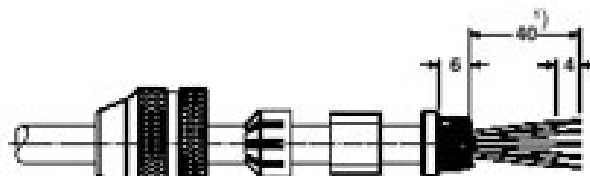
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Functional drawing

Assembly steps for M 12 male/female connector and conductor

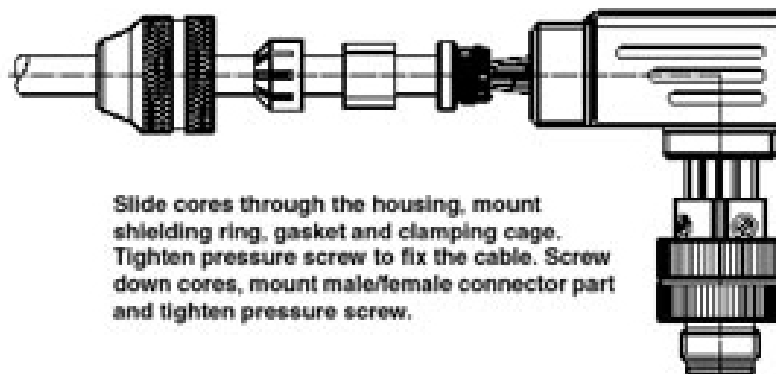


Slide parts onto the conductor



*) For straight version: 35

Strip conductor, widen shield and lay around the shielding ring, cut off projecting mesh.



Slide cores through the housing, mount shielding ring, gasket and clamping cage. Tighten pressure screw to fix the cable. Screw down cores, mount male/female connector part and tighten pressure screw.

Assembly steps for M12 male/female plug and conductor

a = Slide on parts

b= Strip conductor, widen shield and lay around the shielding ring, cut off projecting mesh. Slide cores through the housing. Mount shielding ring, gasket and clamping cage. Tighten pressure screw to fix the cable. Screw down cores. Mount male/female part. Tighten pressure screw.

SACC-M12FS-5CON-PG 7-SH - Connector



1694305

<https://www.phoenixcontact.com/us/products/1694305>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1694305>

 cUL Recognized Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	60 V	4 A	-	-

 UL Recognized Approval ID: FILE E 221474				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	60 V	4 A	-	-

cULus Recognized				
-------------------------	--	--	--	--

SACC-M12FS-5CON-PG 7-SH - Connector



1694305

<https://www.phoenixcontact.com/us/products/1694305>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

SACC-M12FS-5CON-PG 7-SH - Connector



1694305
<https://www.phoenixcontact.com/us/products/1694305>

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	12c19019-36f6-4d91-a9e7-62ad1611fbf3

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