

# SACC-M12MS-4CON-PG 7-M PWR - Power connector



1421125

<https://www.phoenixcontact.com/in/products/1421125>

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.



Power connector, 4-position, Plug straight M12, coding: A, Screw connection, knurl material: Zinc die-cast, 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

## Commercial data

Item number	1421125
Packing unit	1 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	AF2CAA
GTIN	4055626254401
Weight per piece (including packing)	22.6 g
Weight per piece (excluding packing)	22.41 g
Customs tariff number	85366990
Country of origin	DE

## Technical data

### Notes

General	Strip 22 mm off the cable sheath, strip 7 mm off the conductor insulation, crimp the ferrule, then shorten this to 5 mm. Length of conductor with shortened ferrule: 20 mm. Connect conductors and tighten the mounting screws with 0.2 Nm.
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.

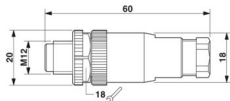
### Product properties

Product type	Circular connector (cable-side)
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	straight
Pg screw connection	Pg7

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

Dimensional drawing	
Length	60 mm

### External dimensions

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

### Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	PA
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

### Connection data

# SACC-M12MS-4CON-PG 7-M PWR - Power connector



1421125

<https://www.phoenixcontact.com/in/products/1421125>

## Conductor connection

Connection method	Screw connection
Connection cross section	1.5 mm <sup>2</sup>
Connection cross section AWG	16
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm ... 1 Nm (Pressure screw with sleeve housing)
	0.4 Nm (Screw plug insert with sleeve housing as far it will go)
	0.2 Nm (Screw terminal blocks)

## Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	> 10 GΩ
Nominal voltage U <sub>N</sub>	250 V DC
	250 V AC
Nominal current I <sub>N</sub>	8 A
	when using 1.5 mm <sup>2</sup> conductors

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	-------

## Connector

### Connection 1

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

## 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-M12MS-4CON-PG 7-M PWR - Power connector

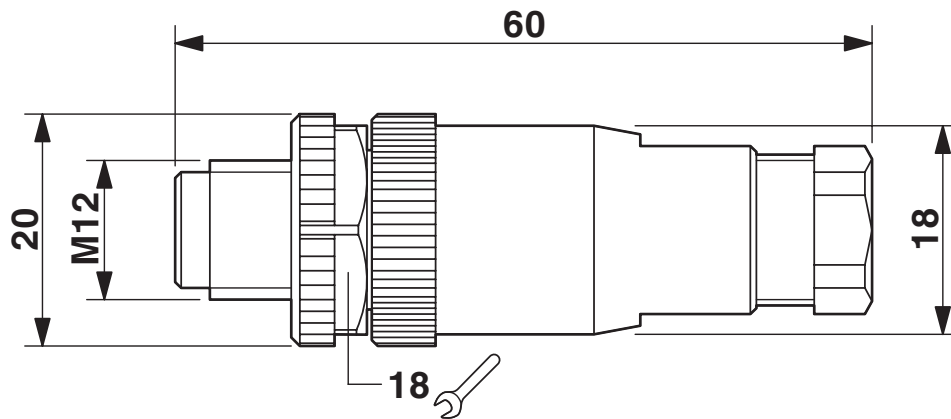


1421125

<https://www.phoenixcontact.com/in/products/1421125>

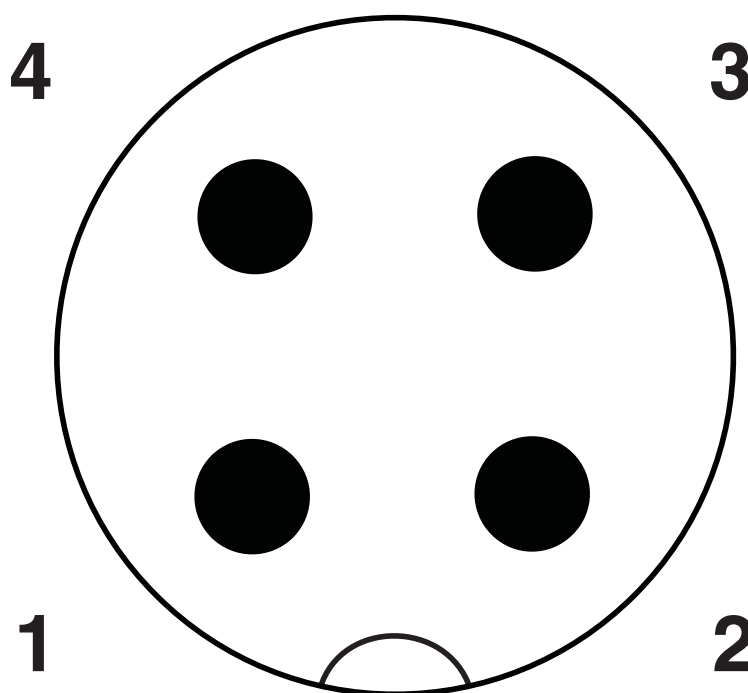
## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



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

# SACC-M12MS-4CON-PG 7-M PWR - Power connector



1421125

<https://www.phoenixcontact.com/in/products/1421125>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1421125>

cUL Recognized 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>
	60 V	12 A	- 16	-

UL Recognized 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>
	60 V	12 A	- 16	-

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

# SACC-M12MS-4CON-PG 7-M PWR - Power connector



1421125

<https://www.phoenixcontact.com/in/products/1421125>

## 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	9ec0eadf-8821-4b70-8d0e-8c0619a830a0



# SACC-M12MS-4CON-PG 7-M PWR - Power connector



1421125

<https://www.phoenixcontact.com/in/products/1421125>

## Accessories

### SACC-M12-SET/2,5-3,5 - Connector

1436505

<https://www.phoenixcontact.com/in/products/1436505>



Sensor/actuator connector, accessories, pressure screw and Pg7 seal, for unshielded M12 connector, cable diameter 2.5 mm - 3.5 mm

---

### PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

<https://www.phoenixcontact.com/in/products/1430873>



M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs

# SACC-M12MS-4CON-PG 7-M PWR - Power connector



1421125

<https://www.phoenixcontact.com/in/products/1421125>

## A 1,5 - 7 - Ferrule

3200263

<https://www.phoenixcontact.com/in/products/3200263>



Ferrule, Length contact range: 7 mm, sleeve length: 7 mm, color: silver

---

## TSD 04 SAC - Torque screwdriver

1208429

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



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

# SACC-M12MS-4CON-PG 7-M PWR - Power connector



1421125

<https://www.phoenixcontact.com/in/products/1421125>

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

1212224

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



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

# SACC-M12MS-4CON-PG 7-M PWR - Power connector



1421125

<https://www.phoenixcontact.com/in/products/1421125>

## SACC BIT M12-D20 - Tool

1208445

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

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



---

## WIREFOX 6SC - Stripping tool

1212158

<https://www.phoenixcontact.com/in/products/1212158>

Stripping tool, for cables and conductors (especially for cables protected against short circuits and ground leakages) 1.5 - 6 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade



# SACC-M12MS-4CON-PG 7-M PWR - Power connector



1421125

<https://www.phoenixcontact.com/in/products/1421125>

## CRIMPFOX 6H - Crimping pliers

1212046

<https://www.phoenixcontact.com/in/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/in/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 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.  
A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420  
[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)