

SACC-M12FRS-2PECON-PG 9-M - Power connector



1419642

<https://www.phoenixcontact.com/pc/products/1419642>

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, 3-position, Socket angled M12, coding: S, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm, for alternating current up to 16 A/630 V

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
- High-performance: AC connectors for up to 16 A and 630 V AC
- Protection against incorrect connection using special S-coding

Commercial data

Item number	1419642
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF2CAB
Catalog page	Page 279 (C-2-2019)
GTIN	4055626181806
Weight per piece (including packing)	27.3 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

General	Strip 21 mm off the cable sheath, strip 6 mm off the conductor insulation, crimp the ferrule, then shorten this to 5 mm. Conductor length with shortened ferrule: 20 mm. Connect conductors and tighten the mounting screws with 0.2 Nm.
General	NOTE: 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.

Mounting

Assembly instructions	The connector pin assignment can be rotated 90° to the cable outlet
-----------------------	---

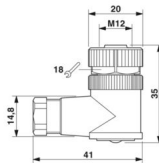
Product properties

Product type	Circular connector (cable-side)
Number of positions	3
Application	Power supply
No. of cable outlets	1
Shielded	no
Coding	S
Cable outlet	angled
Pg screw connection	Pg9

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	35 mm
Wrench size, union nut	16 mm

External dimensions	
Outside diameter	6 mm ... 8 mm

Housing	
Diameter housing	20 mm

Material specifications

SACC-M12FRS-2PECON-PG 9-M - Power connector



1419642

<https://www.phoenixcontact.com/pc/products/1419642>

Flammability rating according to UL 94	V0
Seal material	Viton
	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

Conductor connection

Connection method	Screw connection
Connection cross section	0.75 mm ² ... 1.5 mm ² (with ferrule)
	0.75 mm ² ... 2.5 mm ² (solid)
Connection cross section AWG	18 ... 16 (with ferrule)
Stripping length of the individual wire	5 mm
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	6 kV
Contact resistance	≤ 5 mΩ
Insulation resistance	> 10 GΩ
Nominal voltage U _N	630 V AC
Nominal current I _N	16 A (when using 2.5 mm ² conductors)
	16 A (at 40 °C)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
-----------------------------	-------

Connector

Connection 1

Head design	Socket
Head cable outlet	angled
Head thread type	M12
Coding	S

Cable/line

Stripping length of the individual wire	5 mm
---	------

SACC-M12FRS-2PECON-PG 9-M - Power connector



1419642

<https://www.phoenixcontact.com/pc/products/1419642>

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 61076-2-111

Phoenix Contact 2024 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG

Flachsmarktstraße 8

D-32825 Blomberg

+49 (0) 5235-3 00

info@phoenixcontact.com