

# SACC-M12MR-4CON-PG11-M PWR - Power connector



1408990

<https://www.phoenixcontact.com/us/products/1408990>

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Power connector, 4-position, Plug angled M12, coding: A, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg11, external cable diameter 8 mm ... 10 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	1408990
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	AF2CAA
GTIN	4046356885102
Weight per piece (including packing)	26.05 g
Weight per piece (excluding packing)	26.05 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Mounting

Assembly note	The connector pin assignment can be rotated 90° to the cable outlet
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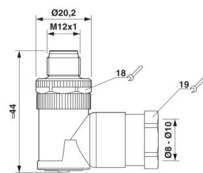
### Product properties

Product type	Circular connector (cable-side)
Application	Energy supply
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	angled
Pg screw connection	Pg11

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

Dimensional drawing	
Length	44 mm

### External dimensions

Outside diameter	8 mm ... 10 mm
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### Housing

Diameter housing	20.2 mm
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### Material specifications

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

### Connection data

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## Conductor connection

Connection method	Screw connection
Connection cross section	0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (without ferrule)
	0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule)
	0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (solid)
Connection cross section AWG	18 ... 16 (without ferrule)
	16 ... 18 (with ferrule)
Stripping length of the individual wire	5 mm
Tightening torque	0.4 Nm (M12 knurl)
	1.5 Nm ... 2 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 AC
	250 V DC
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
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## Connector

### Connection 1

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

## Cable/line

Stripping length of the individual wire	5 mm
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## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

Standard designation	M12 connector
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Standards/specifications

IEC 61076-2-101

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## Drawings

Dimensional drawing



M12 x 1 male plug, angled

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Schematic diagram



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1408990>

 <b>cUL Recognized</b> Approval ID: FILE E 221474				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	250 V	4 A	-	-

 <b>UL Recognized</b> Approval ID: FILE E 221474				
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keine				
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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 10.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## 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	23de4b9a-96e0-4d82-bf9e-8b4a7ae8c3a0

### EF3.1 Climate Change

CO2e kg	1.241 kg CO2e
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