

SACC-M12FR-4CON-PG11-M PWR - Power connector



1408991

<https://www.phoenixcontact.com/fr/products/1408991>

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Power connector, 4-position, Socket 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	1408991
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF2CAA
Product key	AF2CAA
GTIN	4046356885119
Weight per piece (including packing)	28.21 g
Weight per piece (excluding packing)	28.76 g
Customs tariff number	85366990
Country of origin	DE

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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	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

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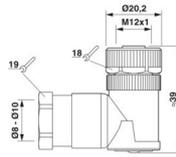
Product properties

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	39 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
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Seal material	Viton
	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

Conductor connection

Connection method	Screw connection
Connection cross section	0.75 mm ² ... 1.5 mm ² (without ferrule)
	0.75 mm ² ... 1.5 mm ² (with ferrule)
	0.75 mm ² ... 1.5 mm ² (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 _N	250 V AC
	250 V DC
Nominal current I _N	8 A (when using 1.5 mm ² conductors)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Connector

Connection 1

Head design	Socket
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
Standards/specifications	IEC 61076-2-101

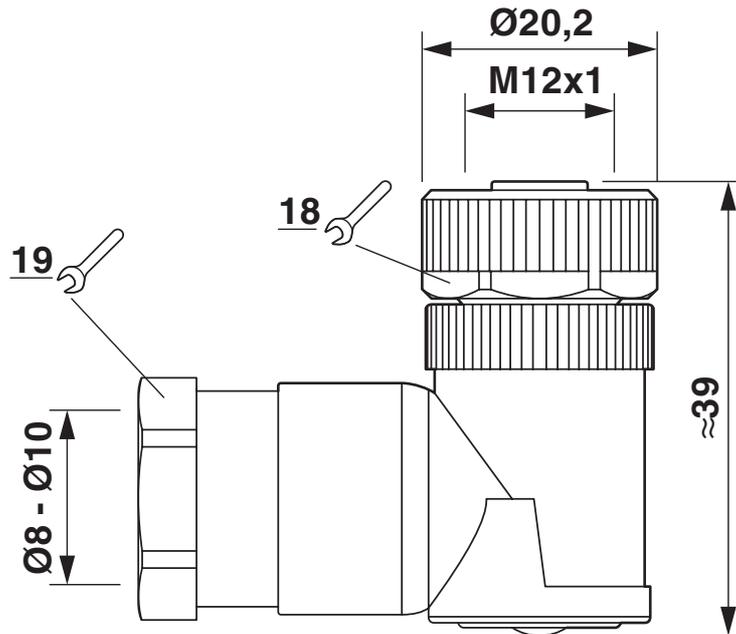
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Drawings

Dimensional drawing



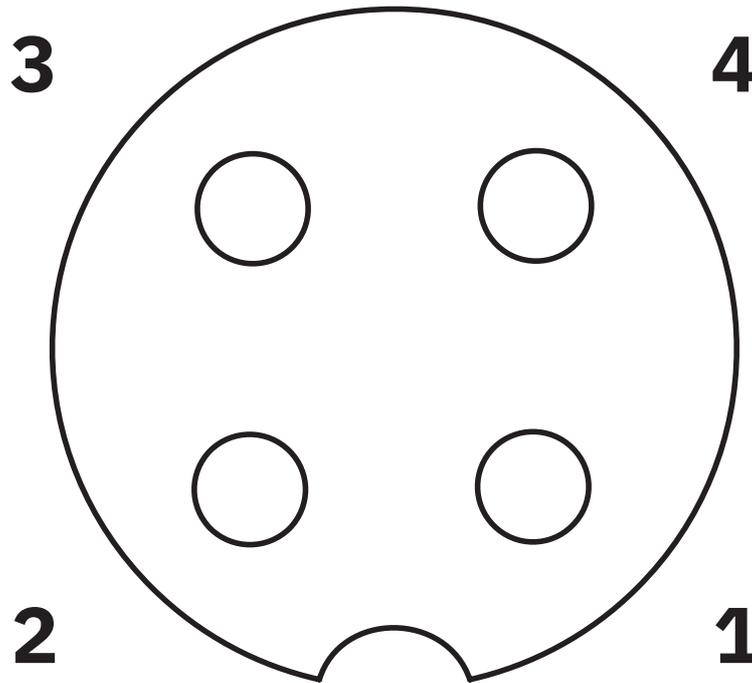
M12 x 1 socket, straight

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Schematic diagram



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

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/fr/products/1408991>

 cUL Recognized Approval ID: FILE E 221474				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	250 V	4 A	-	-

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Classifications

ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

ETIM

ETIM 9.0	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	8eda3e49-4627-4828-bc1c-b6d459899d55

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Accessories

PROT-M12 MS-PA-CHAIN - Screw plug

1430899

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

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



A 1,5 - 7 - Ferrule

3200263

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

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



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TSD 04 SAC - Torque screwdriver

1208429

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



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

TSD-M 1,2NM - Torque screwdriver

1212224

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



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

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TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

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



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

SACC BIT M12-D20 - Tool

1208445

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



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

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WIREFOX 6SC - Stripping tool

1212158

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



Stripping tool, for cables and conductors (especially for cables protected against short circuits and ground leakages) 1.5 - 6 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

CRIMPFOX 6H - Crimping pliers

1212046

<https://www.phoenixcontact.com/fr/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 mm² ... 6 mm², unlockable pressure lock, lateral entry

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SZF 1-0,6X3,5 - Screwdriver

1204517

<https://www.phoenixcontact.com/fr/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

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