

SACC-M12MS-4CON-PG 7 - Connector



1681088

<https://www.phoenixcontact.com/us/products/1681088>

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Connector, Universal, 4-position, Plug straight M12, coding: A, Screw connection, knurl material: Plastic, 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	1681088
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	AF2CAA
GTIN	4017918157425
Weight per piece (including packing)	17.8 g
Weight per piece (excluding packing)	17.3 g
Customs tariff number	85366990
Country of origin	DE

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

Assembly note

The wires can be connected both with ferrules and without ferrules

Product properties

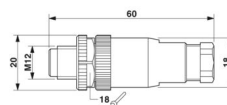
Product type	Circular connector (cable-side)
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	straight
Pg screw connection	Pg7

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing



Width	20 mm
Height	20 mm
Length	60 mm

External dimensions

Outside diameter	4 mm ... 6 mm
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Housing

Diameter housing	20 mm
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Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	PA
Contact material	CuZn

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Contact surface material	CuSnZn
Contact carrier material	PA
Material for screw connection	Plastic

Connection data

Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm ² ... 0.75 mm ² (without ferrule)
	0.14 mm ² ... 0.75 mm ² (with ferrule)
	0.25 mm ² ... 0.75 mm ² (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 screw with sleeve housing)

Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 8 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	250 V AC
	250 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 50
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Connector

Connection 1

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

Interfaces

Signal type/category	Universal
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Environmental and real-life conditions

Ambient conditions

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

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connector)	
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Standards and regulations

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

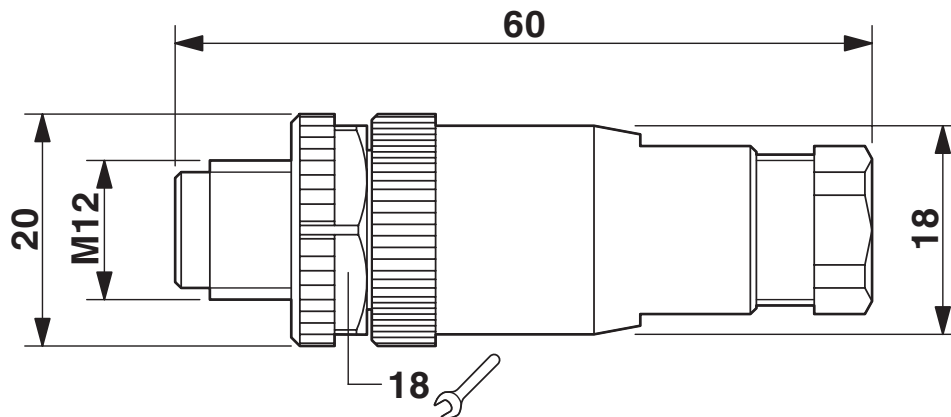
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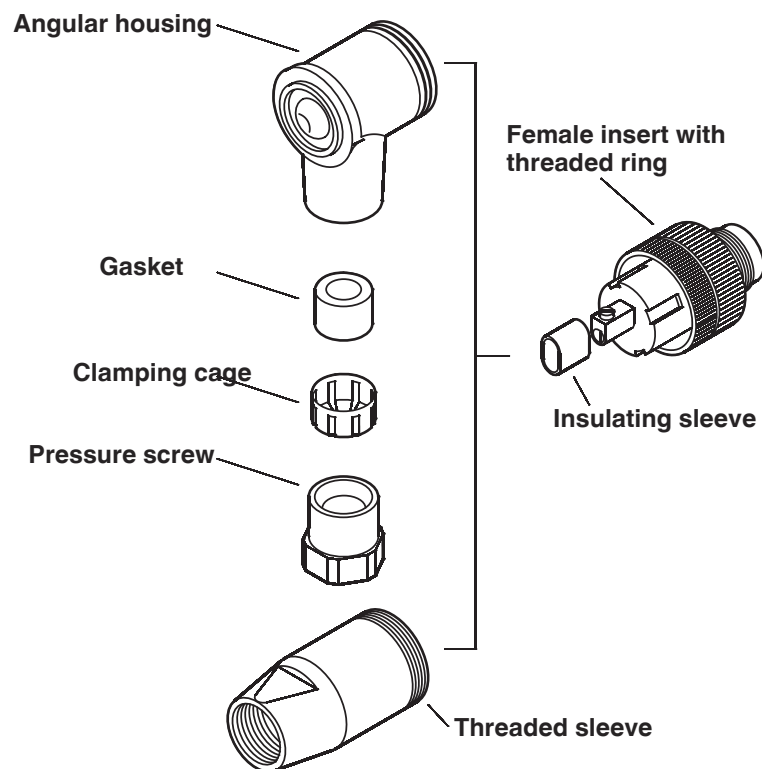
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



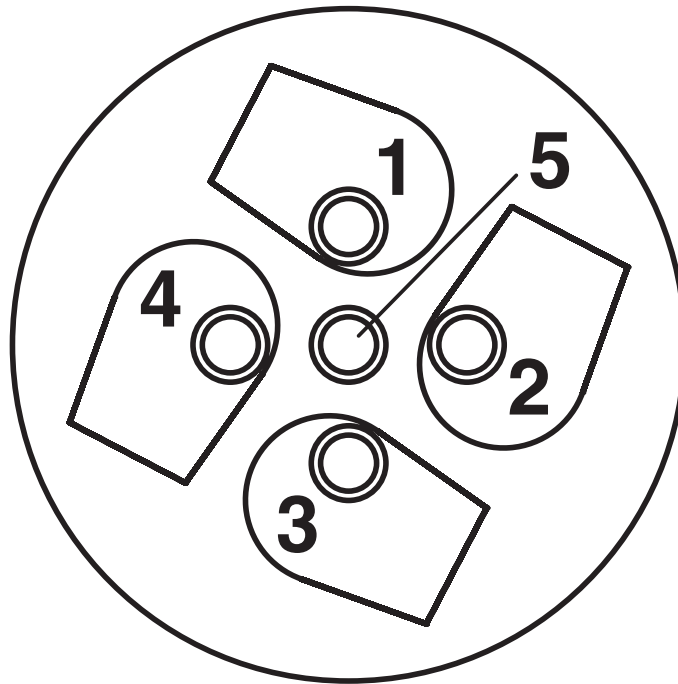
Male/Female M12

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Schematic diagram

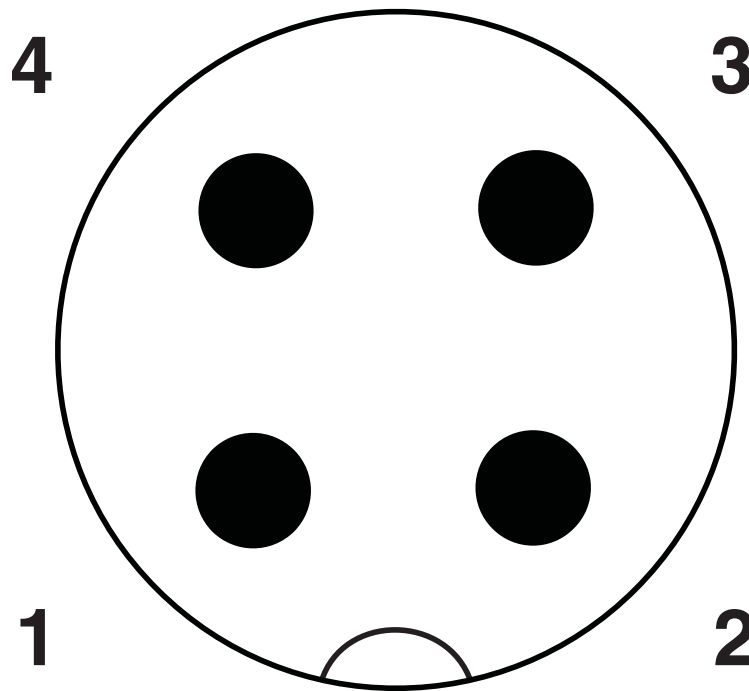


Cable connection side M12 (screw connection)

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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/1681088>

 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 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	903c9562-f553-4805-9055-c04cc7b6a489

EF3.1 Climate Change

CO2e kg	0.444 kg CO2e
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