

SACC-M12MR-5CON-PG9-M - Connector



1681473

<https://www.phoenixcontact.com/pc/products/1681473>

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Connector, Universal, 5-position, Plug angled M12, coding: A, Screw connection, knurl material:
Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 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	1681473
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	02
Product key	BF2CAA
Catalog page	Page 22 (C-2-2019)
GTIN	4017918157470
Weight per piece (including packing)	26.18 g
Weight per piece (excluding packing)	24.6 g
Customs tariff number	85366990
Country of origin	HU

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1681473

<https://www.phoenixcontact.com/pc/products/1681473>

Technical data

Notes

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.
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Mounting

Assembly instructions	The connector pin assignment can be rotated 90° to the cable outlet
Connection method	Screw connection

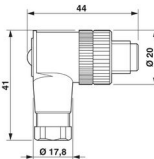
Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	angled
Pg screw connection	Pg9

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing	
Length	41 mm

External dimensions

Outside diameter	6 mm ... 8 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

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1681473

<https://www.phoenixcontact.com/pc/products/1681473>

Contact material	CuZn
Contact surface material	CuSnZn
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

Connection data

Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm² ... 0.75 mm² (without ferrule)
	0.14 mm² ... 0.75 mm² (with ferrule)
	0.25 mm² ... 0.75 mm² (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	1.5 kV
Contact resistance	≤ 8 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 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	angled
Head thread type	M12
Coding	A

Cable/line

Signal type/category	Universal
Stripping length of the individual wire	5 mm

Environmental and real-life conditions

Ambient conditions

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1681473

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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

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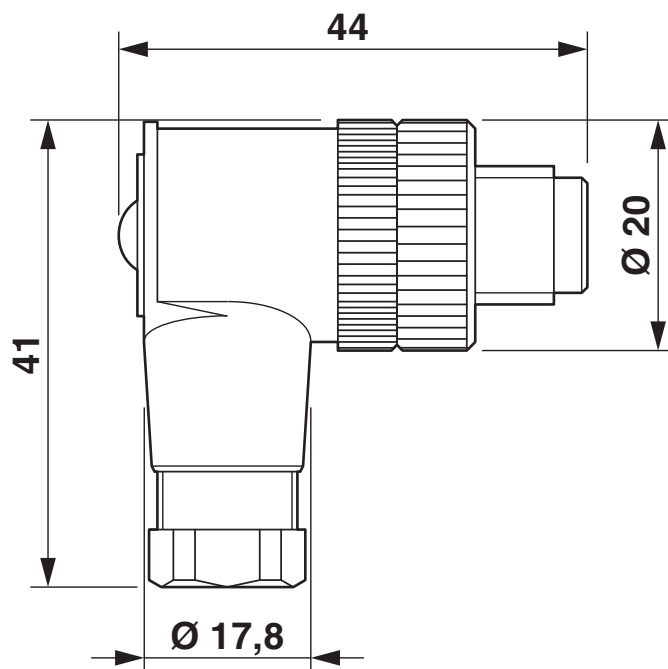
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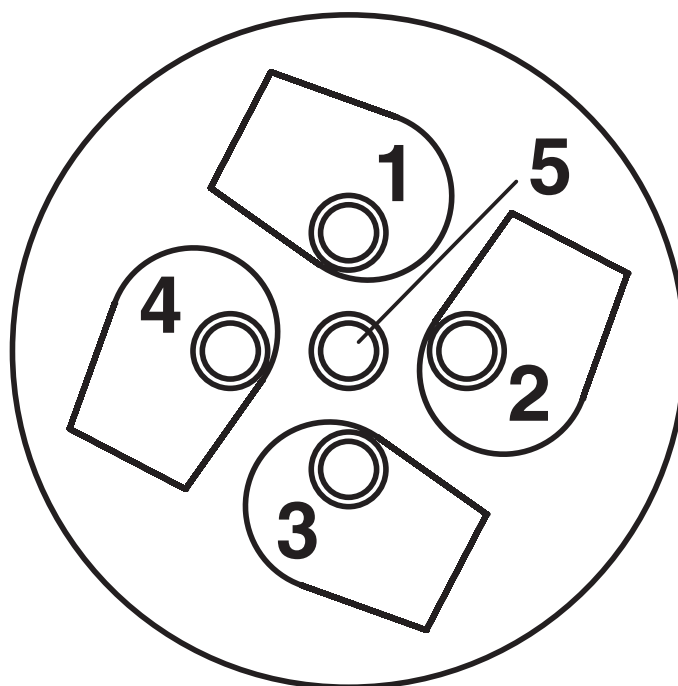
Drawings

Dimensional drawing



M12 x 1 male plug, angled

Schematic diagram

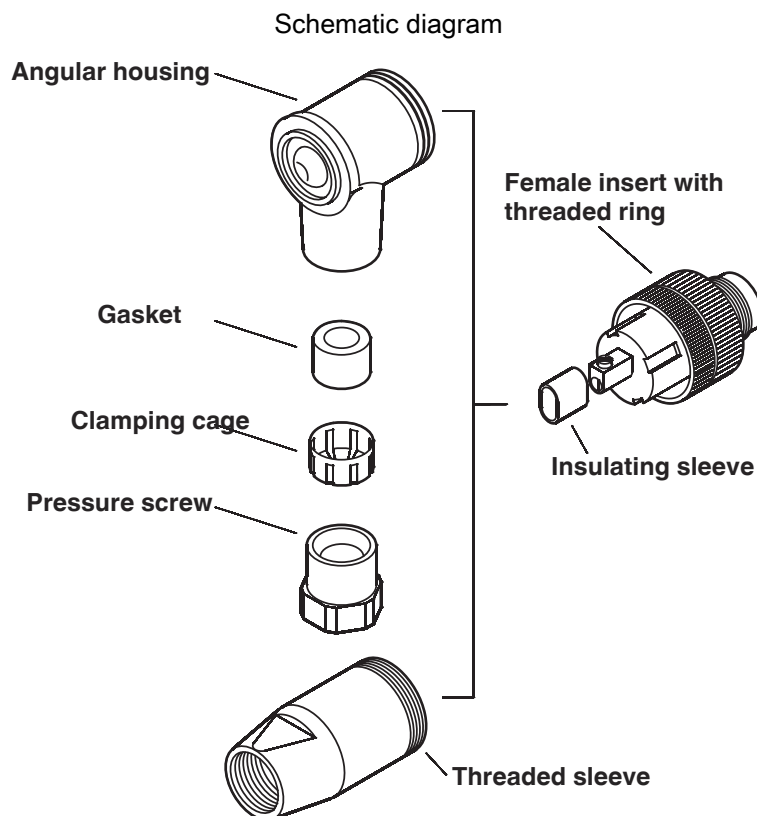


Cable connection side M12 (screw connection)

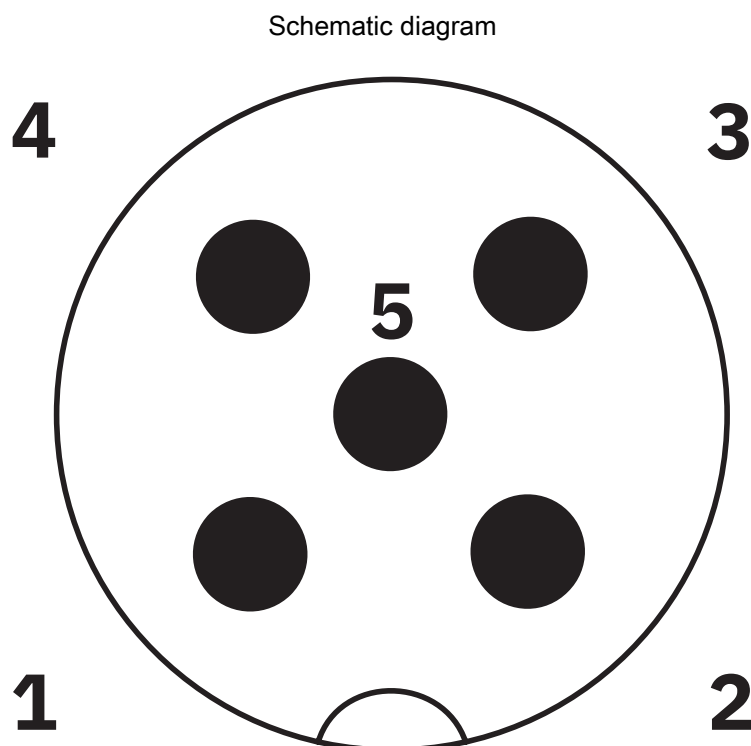
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1681473

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Male/Female M12



Pin assignment M12 male connector, 5-pos., A-coded, male side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1681473>

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

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	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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Classifications

ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

ETIM

ETIM 9.0	EC002635
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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