

# SACC-M12MR-4CON-PG 7-VA - Connector



1553200

<https://www.phoenixcontact.com/pc/products/1553200>

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Connector, Universal, 4-position, Plug angled M12, coding: A, Screw connection, knurl material: Stainless steel 1.4404, 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	1553200
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF2CAA
Catalog page	Page 23 (C-2-2019)
GTIN	4046356170123
Weight per piece (including packing)	24 g
Weight per piece (excluding packing)	23.02 g
Customs tariff number	85366990
Country of origin	DE

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## Technical data

### Notes

Assembly note

**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 note

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

### Product properties

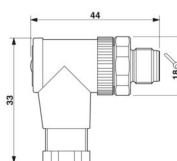
Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	angled
Pg screw connection	Pg7

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

Dimensional drawing



Length

44 mm

### External dimensions

Outside diameter

4 mm ... 6 mm

### Housing

Diameter housing

20 mm

### Material specifications

Seal material	NBR
Material of grip body	PA
Contact material	CuZn
Contact surface material	Au

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Contact carrier material	PA
Material for screw connection	Stainless steel 1.4404

## 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)
Tightening torque	0.8 Nm ... 1 Nm (Pressure screw)
	0.2 Nm (Screw terminal blocks)

## Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	250 V AC
	250 V DC
Nominal current I <sub>N</sub>	4 A

## 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

Signal type/category	Universal
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
	IP69K
Ambient temperature (operation)	-40 °C ... 85 °C

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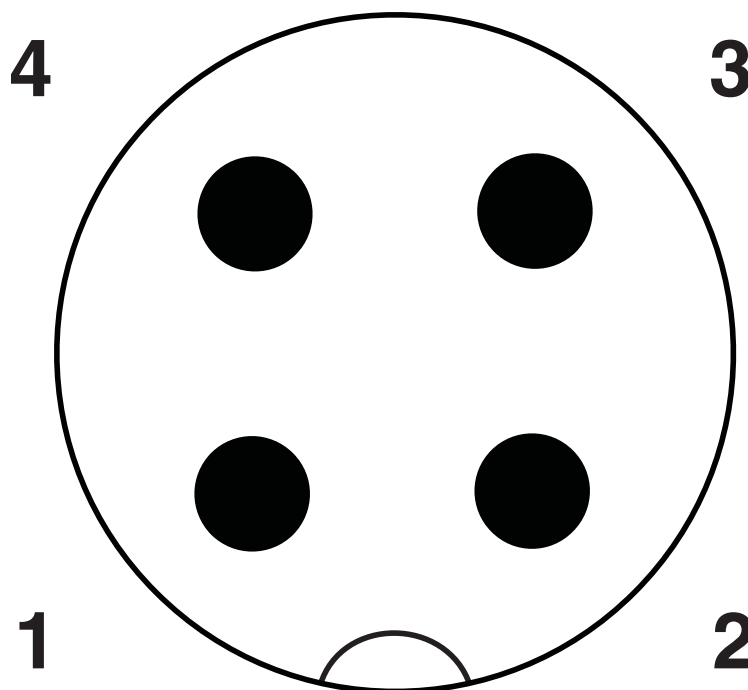
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## Standards and regulations

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

## Drawings

Schematic diagram



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

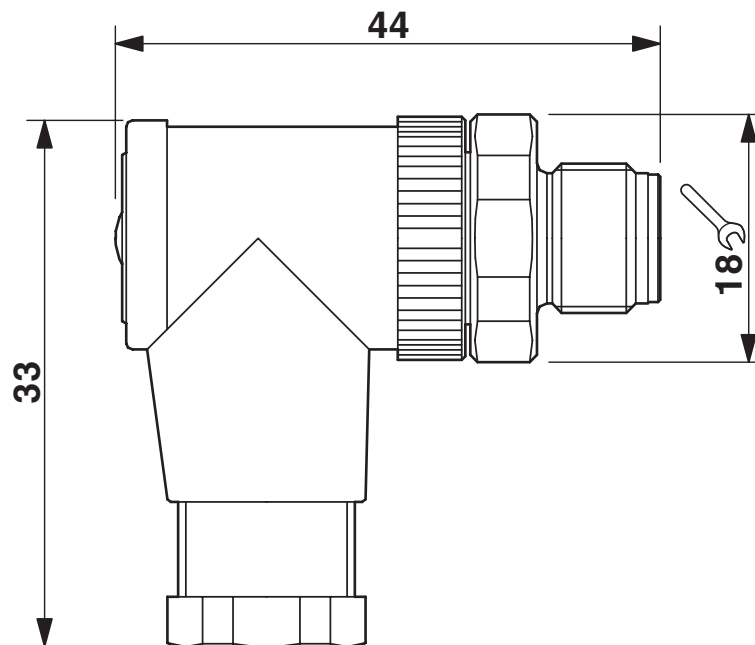
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Dimensional drawing



M12 x 1 male plug, angled

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1553200>

 <b>cUL Recognized</b> Approval ID: FILE E 221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	250 V	4 A	-	-

 <b>UL Recognized</b> Approval ID: FILE E 221474				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	250 V	4 A	-	-

 <b>EAC</b> Approval ID: RU C-DE.BL08.B.00511				
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<b>cULus Recognized</b>				
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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

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	63044468-9ef7-4953-b35f-cba80f04a67c

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## Accessories

### SACC-M12-SET/2,5-3,5 - Connector

1436505

<https://www.phoenixcontact.com/pc/products/1436505>



Sensor/actuator connector, accessories, pressure screw and Pg7 seal, for unshielded M12 connector, cable diameter 2.5 mm - 3.5 mm

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### A 0,25- 5 - Ferrule

3202465

<https://www.phoenixcontact.com/pc/products/3202465>



Ferrule, color: silver

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## TSD 04 SAC - Torque screwdriver

1208429

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



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

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## TSD-M 1,2NM - Torque screwdriver

1212224

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



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

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## SAC BIT M12-W14 - Tool

1212513

<https://www.phoenixcontact.com/pc/products/1212513>



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a hexagonal knurl wrench size of 14 mm, with 4 mm hexagonal drive

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## CRIMPFOX 6H - Crimping pliers

1212046

<https://www.phoenixcontact.com/pc/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 mm<sup>2</sup> ... 6 mm<sup>2</sup>, unlockable pressure lock, lateral entry

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## SZF 1-0,6X3,5 - Screwdriver

1204517

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