

# SACC-M12MSB-5CON-DM 5-8 SH VA - Connector



1440148

<https://www.phoenixcontact.com/us/products/1440148>

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Connector, 5-position, shielded, Plug straight M12, coding: B, Screw connection, knurl material: Stainless steel 1.4404, cable gland M16, external cable diameter 5.5 mm ... 8.6 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
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

## Commercial data

Item number	1440148
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	BF2CBA
Catalog page	Page 139 (C-4-2013)
GTIN	4046356483322
Weight per piece (including packing)	58.1 g
Weight per piece (excluding packing)	57.71 g
Customs tariff number	85366990
Country of origin	DE

## 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.

### Product properties

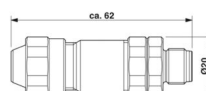
Product type	Circular connector (cable-side)
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	B
Cable outlet	straight
Pg screw connection	M16

#### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

#### Dimensional drawing



#### Length

62 mm

#### External dimensions

Outside diameter	5.5 mm ... 8.6 mm
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#### Housing

Diameter housing	20 mm
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### Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Material of grip body	Stainless steel 1.4404
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Stainless steel 1.4404

### Connection data

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## Conductor connection

Connection method	Screw connection
Connection cross section	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (without ferrule)
	0.14 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (with ferrule)
	0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> (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 nut with sleeve housing with 4 mm ... 8 mm external cable diameter )
	1 Nm ... 1.4 Nm (Pressure nut with sleeve housing with 8 mm ... 12 mm external cable diameter )

## Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC
	60 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	straight
Head thread type	M12
Coding	B

## 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
	IP69K
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

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## Standards and regulations

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

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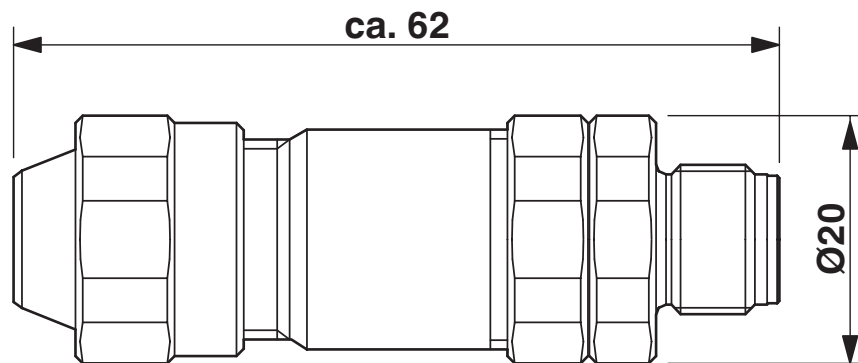


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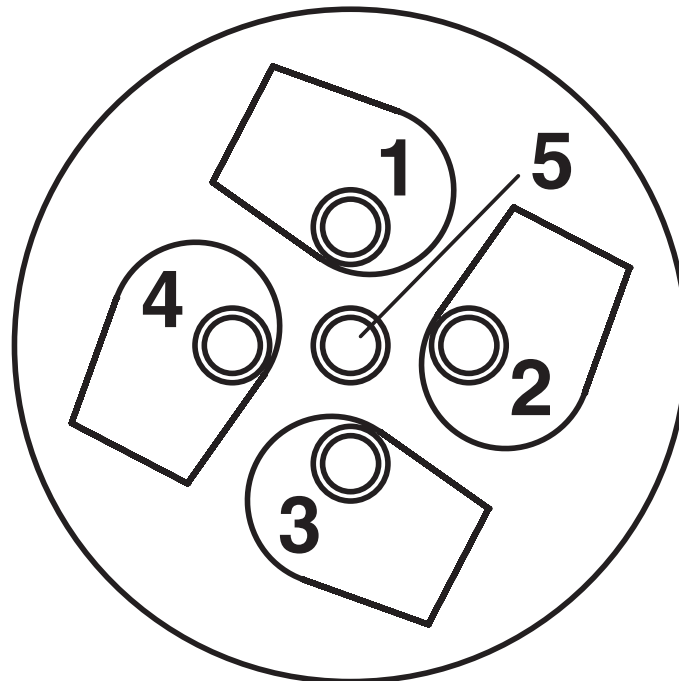
## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram

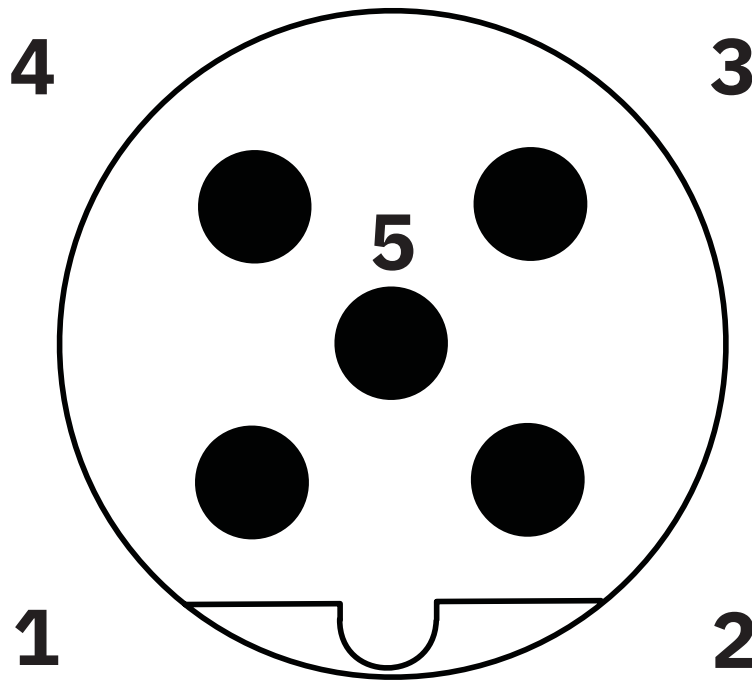


Cable connection side M12 (screw connection)

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Schematic diagram



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1440148>

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

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

<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

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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