

1694596

<https://www.phoenixcontact.com/us/products/1694596>

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Connector, Universal, 5-position, Socket straight M12, coding: A, Screw connection, knurl material: Plastic, cable gland Pg11-DUO, external cable diameter 2.1 mm ... 3 mm / 4 mm ... 5.2 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
- Save space: connect two sensors to one connector with a multiple grommet

Commercial data

Item number	1694596
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF30
Product key	BF2CAA
Catalog page	Page 25 (C-2-2019)
GTIN	4017918457099
Weight per piece (including packing)	22.1 g
Weight per piece (excluding packing)	22 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Assembly note	<b>NOTE:</b> 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.
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Mounting

Assembly note	This connector includes one seal for small and one seal for large outer cable diameters.
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Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	5
No. of cable outlets	2
Shielded	no
Coding	A
Cable outlet	straight
Pg screw connection	Pg11


Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Data management status

Article revision	02
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Dimensions

Dimensional drawing	
Length	58 mm

External dimensions

Outside diameter	2x 2.1 mm ... 3 mm (when using the seal for small outer cable diameters)
	2x 4 mm ... 5.2 mm (when using the seal for large outer cable diameters)

Housing

Diameter housing	20 mm
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Material specifications

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Seal material	NBR
Material of grip body	PA
Contact material	CuZn
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 <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)
	0.8 Nm ... 1 Nm
	0.2 Nm (Screw terminal blocks)

## Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 8 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	≥ 50
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## Connector

### Connection 1

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

## Cable/line

Signal type/category	Universal
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)	-40 °C ... 85 °C (Plug / socket)

## Standards and regulations

### M12

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

# SACC-M12FS-5CON-PG11-DUO - Connector

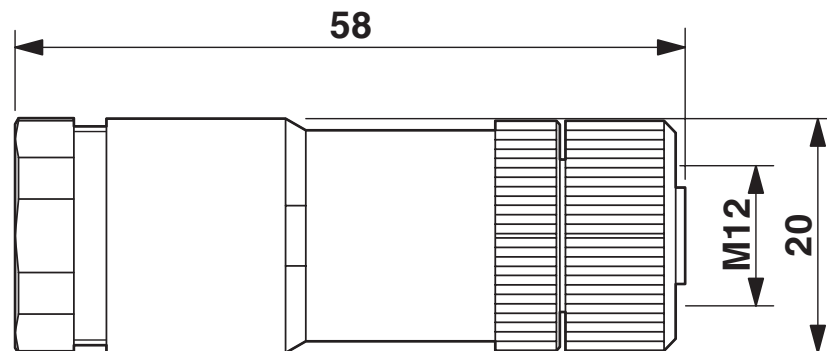


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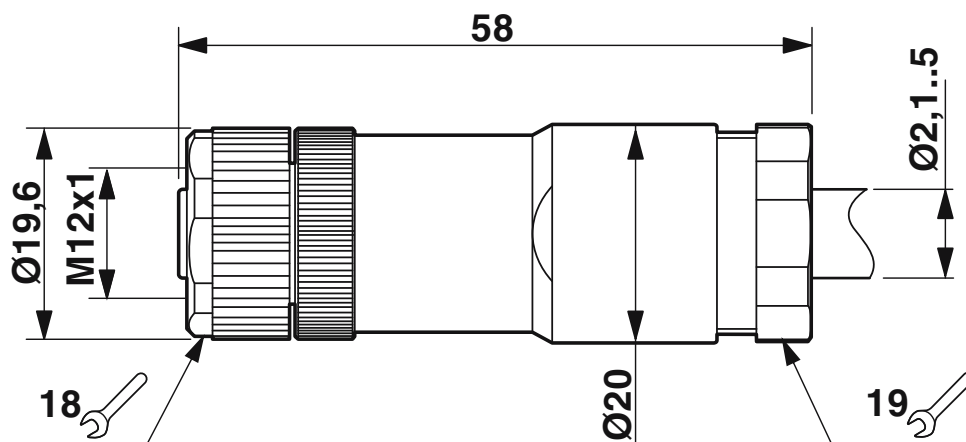
## Drawings

Dimensional drawing



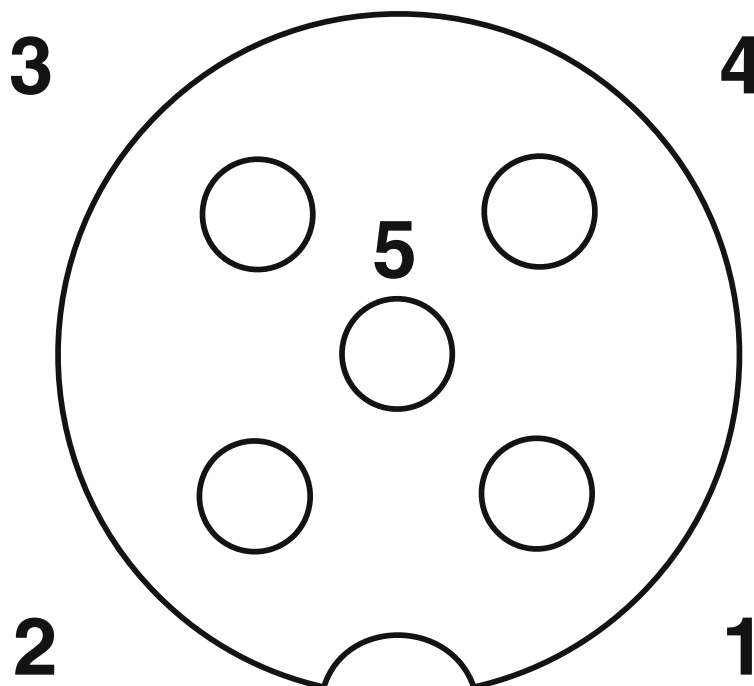
M12 x 1 socket, straight

Dimensional drawing



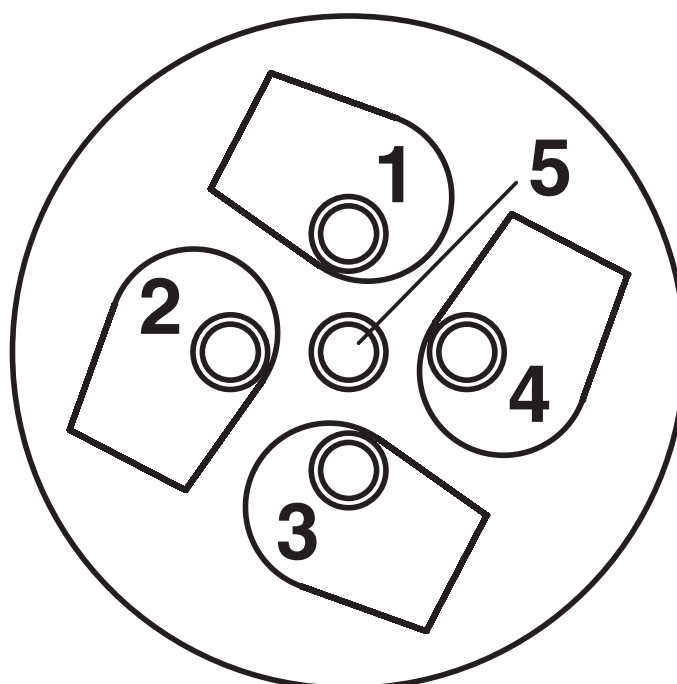
M12 x 1 socket, straight

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

Schematic diagram



Cable connection side M12 (screw connection)

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1694596>

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

<div> <b>UL Recognized</b> Approval ID: FILE E 221474</div>				
	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

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	6620722d-6e83-4b20-801c-c4ed6bd17206