

# SACC-M 8FS-3CON-M - Connector



1681172

<https://www.phoenixcontact.com/in/products/1681172>

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Connector, Universal, 3-position, Socket straight M8, A, Solder connection, knurl material: Nickel-plated brass, external cable diameter 3.5 mm ... 5 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection

## Commercial Data

Item number	1681172
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF2
Product Key	BF2BIA
Catalog Page	Page 18 (C-2-2019)
GTIN	4017918157524
Weight per Piece (including packing)	9.13 g
Weight per Piece (excluding packing)	6.92 g
Customs tariff number	85366990
Country of origin	DE

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## Technical Data

### Notes

Assembly instruction:

**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

Connection method

Solder connection

### Product properties

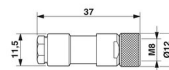
Product type	Circular connector (cable-side)
Number of positions	3
Sensor type	Universal
No. of cable outlets	1
Shielded	no
Coding	A
Cable outlet	straight

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

Dimensional drawing



Length

37 mm

### External dimensions

Outside diameter

3.5 mm ... 5 mm

### Housing

Diameter housing

12 mm

### Material specifications

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

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Material for screw connection	Nickel-plated brass
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## Connection data

### Conductor connection

Connection method	Solder connection
Connection cross section	0.08 mm <sup>2</sup> ... 0.25 mm <sup>2</sup> (flexible)
	0.08 mm <sup>2</sup> ... 0.25 mm <sup>2</sup> (solid)
Connection cross section AWG	28 ... 24 (flexible)
	28 ... 24 (solid)
Stripping length of the individual wire	3 mm
Tightening torque	0.2 Nm (M8 knurl)

## Electrical properties

Min. AWG, flexible, multi-strand	28
Rated surge voltage	0.8 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	Socket
Head cable outlet	straight
Head thread type	M8
Coding	A

## Cable/line

Signal type/category	Universal
Stripping length of the individual wire	3 mm

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

Standards/specifications	IEC 61076-2-104
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