

# SACC-M 8FS-3PCON - Connector



1506778

<https://www.phoenixcontact.com/us/products/1506778>

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Connector, Universal, 3-position, Socket straight M8, coding: A, Piercecon® fast connection, knurl material: Brass, nickel-plated, external cable diameter 3 mm ... 5 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Piercecon® connection: maximum contact density in a connector that can be assembled

## Commercial data

Item number	1506778
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF32
Product key	AF2BGA
GTIN	4017918892692
Weight per piece (including packing)	18.4 g
Weight per piece (excluding packing)	18.8 g
Customs tariff number	85366990
Country of origin	DE

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## 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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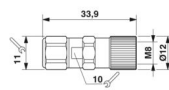
### Product properties

Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	3
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	33.9 mm
Wrench size, union nut	11 mm

### External dimensions

Outside diameter	3 mm ... 5 mm
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### Housing

Diameter housing	12 mm
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### Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Material of grip body	PA 6.6
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Brass, nickel-plated

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## Connection data

### Conductor connection

Connection method	Piercecon® fast connection
Connection cross section	0.14 mm <sup>2</sup> ... 0.38 mm <sup>2</sup> (flexible)
Connection cross section AWG	22 ... 26 (flexible)
Tightening torque	0.5 Nm (Pressure nut with coupling sleeve)
	0.8 Nm (Connector with coupling sleeve)
	0.2 Nm (M8 knurl)

### Connection assignment

Contact   Color (signal designation)   Contact (optional)	1 = BN
	2 = WH
	3 = BU
	4 = BK

## Electrical properties

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
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)

## Standards and regulations

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M8

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

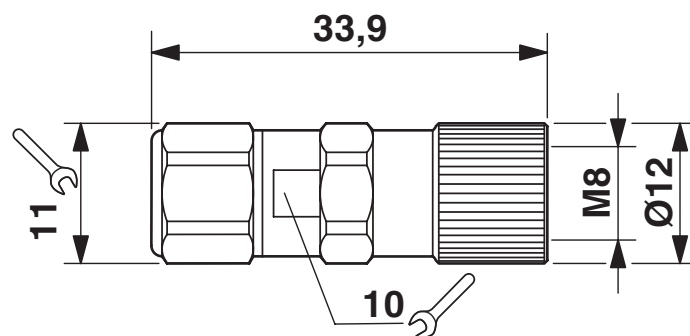
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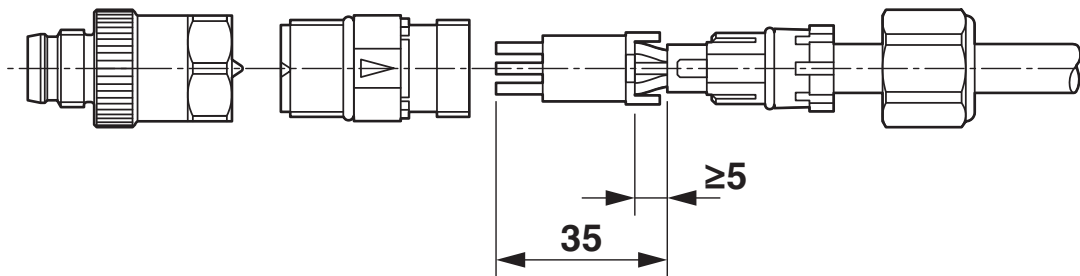
## Drawings

Dimensional drawing



Socket M8 x 1, straight

Functional drawing



a = cut flush

b = coding

When assembled, the coding marks must line up.

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Schematic diagram



Pin assignment M8 socket, 3-pos., view female side

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## Classifications

### ECLASS

ECLASS-13.0	27440116
ECLASS-15.0	27440116

### ETIM

ETIM 10.0	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, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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