

# SACC-M 8FS-3QO-0,5-M - Connector



1441066

<https://www.phoenixcontact.com/au/products/1441066>

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Connector, Universal, 3-position, Socket straight M8, coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 2.5 mm ... 5 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Insulation displacement connection: innovative and time-saving assembly without stripping the single wire

## Commercial data

Item number	1441066
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF2BCA
Product key	AF2BCA
Catalog page	Page 16 (C-2-2019)
GTIN	4046356515955
Weight per piece (including packing)	7 g
Weight per piece (excluding packing)	6.6 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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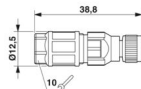
### Product properties

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	38.8 mm

### External dimensions

Outside diameter	2.5 mm ... 5 mm ±0.2 mm
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### Housing

Diameter housing	12.5 mm
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### Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	PA 6
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated
Wire insulation material	PVC / PE / PP / rubber

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## Connection data

### Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.25 mm <sup>2</sup> ... 0.5 mm <sup>2</sup>
Connection cross section AWG	24 ... 20
Tightening torque	0.2 Nm (M8 knurl)
	0.6 Nm (Pressure nut)

### Pin assignment

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

## Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 5 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
External cable diameter	2.5 mm ... 5 mm

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 80 °C (Plug / socket)

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## Standards and regulations

M8

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

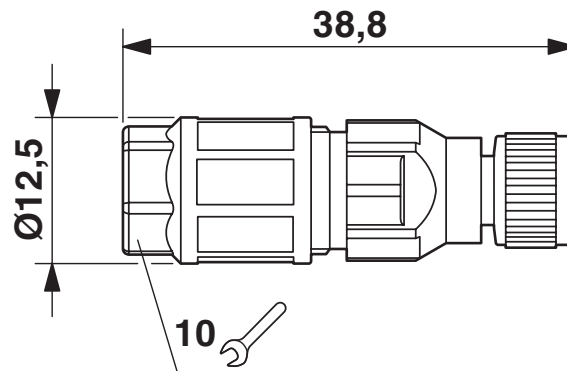
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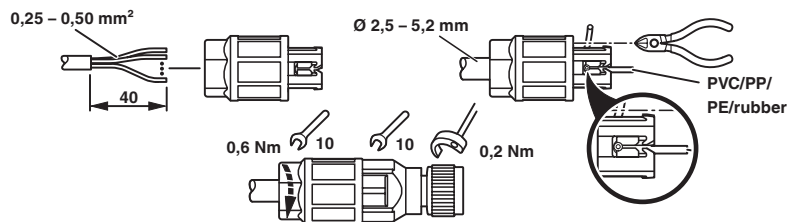
## Drawings

Dimensional drawing



Socket M8 x 1, straight

Functional drawing



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Schematic diagram



Pin assignment of M8 socket, 3-pos., view of pin side

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## Approvals

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 <b>cUL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	29 V	4 A	24 - 20	-

 <b>UL Recognized</b> Approval ID: E118976				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	29 V	4 A	24 - 20	-

 <b>EAC</b> Approval ID: RU C-DE.AI30.B.01102	
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 <b>EAC</b> Approval ID: EAC-Zulassung	
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## Classifications

### ECLASS

ECLASS-13.0

27440116

### ETIM

ETIM 9.0

EC002635

### 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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### EF3.0 Climate Change

CO2e kg	0.477 kg CO2e
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