

# SACC-M 8MS-3CON-M-SH - Connector



1506901

<https://www.phoenixcontact.com/pc/products/1506901>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Connector, Universal, 3-position, shielded, Plug straight M8, coding: A, Solder connection, knurl material: Brass, nickel-plated, external cable diameter 3.5 mm ... 5 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

## Commercial data

Item number	1506901
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	BF2BJA
Catalog page	Page 18 (C-2-2019)
GTIN	4017918881191
Weight per piece (including packing)	19.62 g
Weight per piece (excluding packing)	17.625 g
Customs tariff number	85366990
Country of origin	DE

# SACC-M 8MS-3CON-M-SH - Connector



1506901

<https://www.phoenixcontact.com/pc/products/1506901>

## Technical data

### Notes

Assembly note

**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

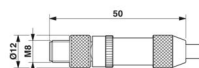
Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	3
No. of cable outlets	1
Shielded	yes
Coding	A

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Dimensions

Dimensional drawing



Length

50 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	Brass, nickel-plated
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	Brass, nickel-plated

### Connection data

Conductor connection

# SACC-M 8MS-3CON-M-SH - Connector



1506901

<https://www.phoenixcontact.com/pc/products/1506901>

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

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
-----------------------------	-------

## Connector

### Connection 1

Head design	Plug
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

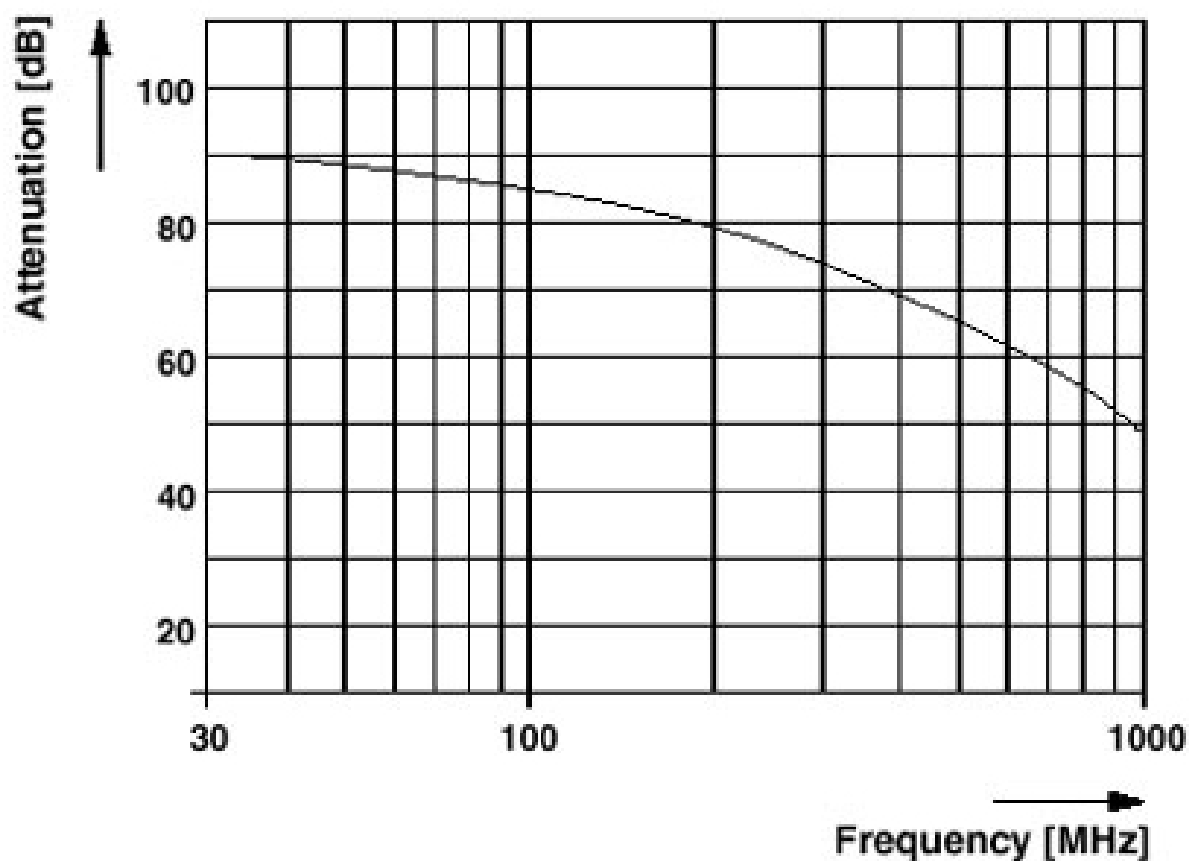
Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

## Standards and regulations

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

## Drawings

### Diagram



**Attenuation curve of the SACC... male/female connectors**

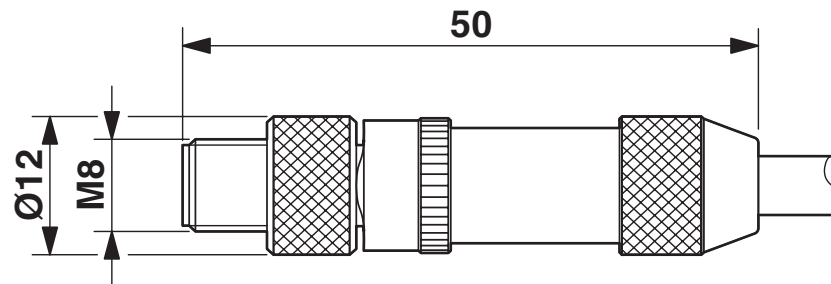
# SACC-M 8MS-3CON-M-SH - Connector



1506901

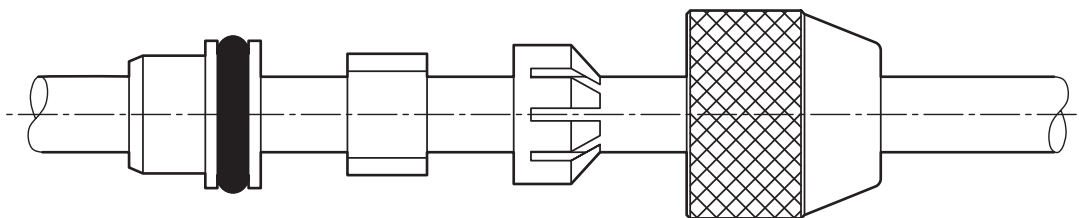
<https://www.phoenixcontact.com/pc/products/1506901>

Dimensional drawing



Plug M8 x 1, straight, shielded

Functional drawing



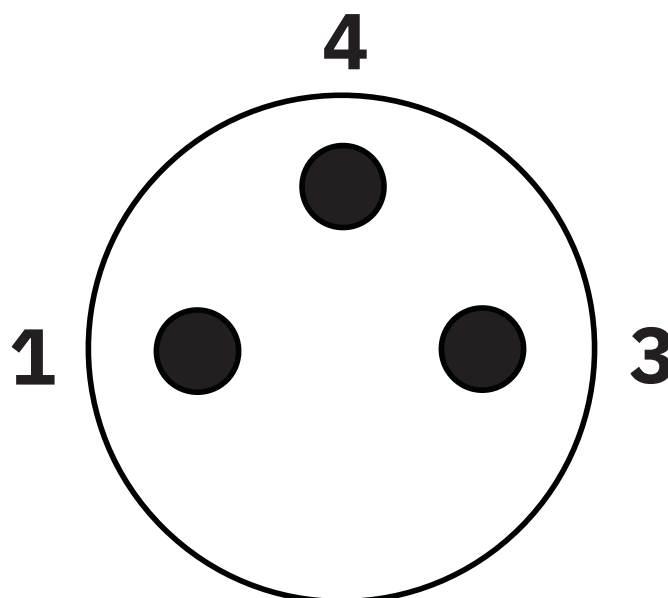
Assembly steps for M8 male/female plug and conductor

# SACC-M 8MS-3CON-M-SH - Connector

1506901

<https://www.phoenixcontact.com/pc/products/1506901>

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side

# SACC-M 8MS-3CON-M-SH - Connector





1506901

<https://www.phoenixcontact.com/pc/products/1506901>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1506901>

<div><b>UL Listed</b> Approval ID: FILE E 221474</div>				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	60 V	4 A	-	-

<div><b>cUL Listed</b> Approval ID: FILE E 221474</div>				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	60 V	4 A	-	-

<b>cULus Listed</b>				
---------------------	--	--	--	--

# SACC-M 8MS-3CON-M-SH - Connector



1506901

<https://www.phoenixcontact.com/pc/products/1506901>

## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------



# SACC-M 8MS-3CON-M-SH - Connector



1506901  
<https://www.phoenixcontact.com/pc/products/1506901>

## 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	97fcf87d-9863-4fef-9c84-3c9f3af85d38

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstraße 8  
D-32825 Blomberg  
+49 (0) 5235-3 00  
[info@phoenixcontact.com](mailto:info@phoenixcontact.com)