

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



1506901

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

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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
Sales key	BF35
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

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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

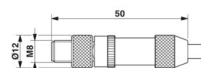
Product type	Circular connector (cable-side)
Sensor type	Universal
Number of positions	3
No. of cable outlets	1
Shielded	yes
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Dimensions

Dimensional drawing



Length

50 mm

External dimensions

Outside diameter	3.5 mm ... 5 mm
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Housing

Diameter housing	12 mm
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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

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Connection method	Solder connection
Connection cross section	0.08 mm² ... 0.25 mm² (flexible)
	0.08 mm² ... 0.25 mm² (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 _N	48 V AC
	60 V DC
Nominal current I _N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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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

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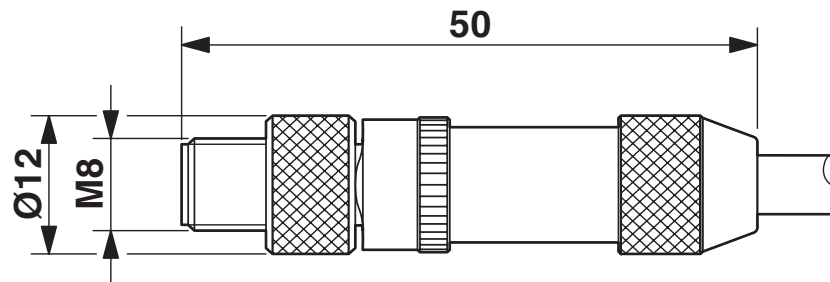


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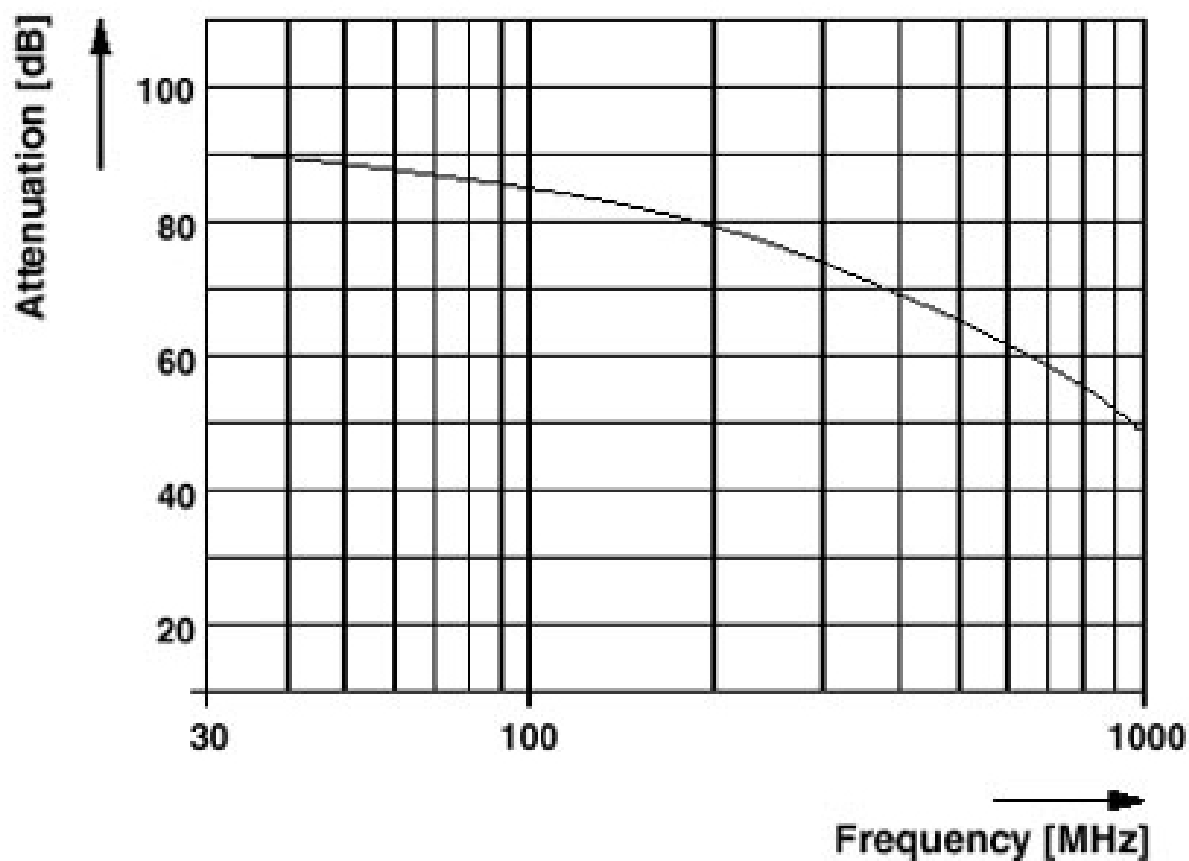
Drawings

Dimensional drawing



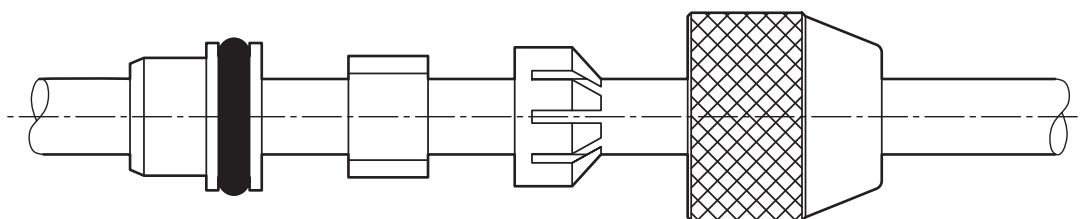
Plug M8 x 1, straight, shielded

Diagram



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

Functional drawing



Assembly steps for M8 male/female plug and conductor

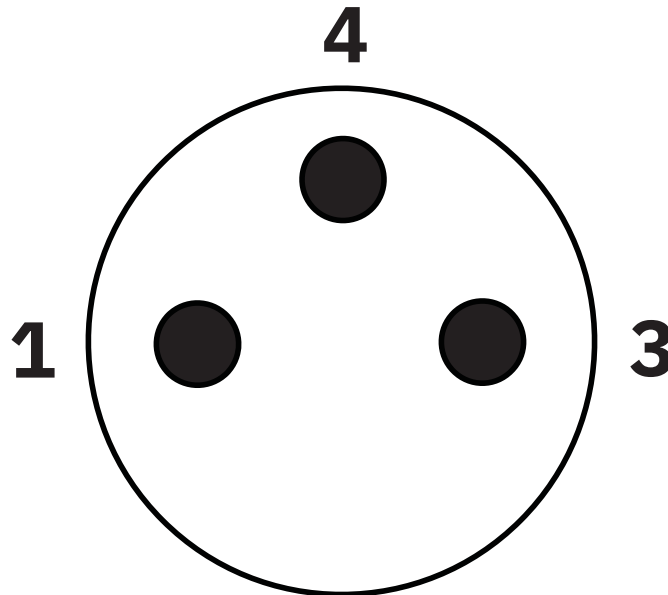
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Schematic diagram



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

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Approvals

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

	UL Listed			
	Approval ID: FILE E 221474			
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
		60 V	4 A	-

	cUL Listed			
	Approval ID: FILE E 221474			
		Nominal voltage U_N	Nominal current I_N	Cross section AWG
		60 V	4 A	-

cULus Listed

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

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Accessories

PROT-M 8 FS-PA-CHAIN - Sealing cap

1430857

<https://www.phoenixcontact.com/us/products/1430857>

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 plugs



SAC-3P-100,0-PUR/SH-0,25 - Cable reel

1526525

<https://www.phoenixcontact.com/us/products/1526525>

By the meter, Cable reel, shielded, PUR halogen-free, black-gray RAL 7021, 3-wire, color single wire: brown, blue, black, cable length: 100 m



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TSD 02 SAC - Torque screwdriver

1208487

<https://www.phoenixcontact.com/us/products/1208487>



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

SACC BIT M8-D12 - Tool

1208474

<https://www.phoenixcontact.com/us/products/1208474>



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 12 mm, for 4 mm hexagonal drive

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TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/us/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/us/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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WIREFOX SAC - Stripping tool

1212623

<https://www.phoenixcontact.com/us/products/1212623>



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

WIREFOX SAC-1 - Stripping tool

1212757

<https://www.phoenixcontact.com/us/products/1212757>



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 3.2 to 4.4 mm, any stripping length

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VS-CABLE-STRIP-VARIO - Stripping tool

1657407

<https://www.phoenixcontact.com/us/products/1657407>

Stripping tool, for the multi-level stripping of shielded cables



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