

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 |
|------------------|-----------------|

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 |
|----------------------|

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| | |
|---|--|
| Connection method | Solder connection |
| Connection cross section | 0.08 mm ² ... 0.25 mm ² (flexible) |
| | 0.08 mm ² ... 0.25 mm ² (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 |

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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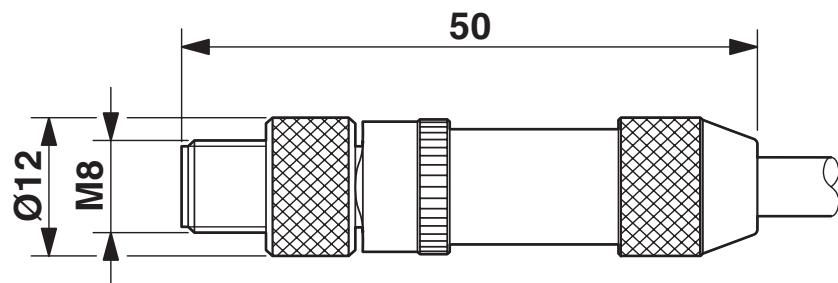
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Drawings

Dimensional drawing



Plug M8 x 1, straight, shielded

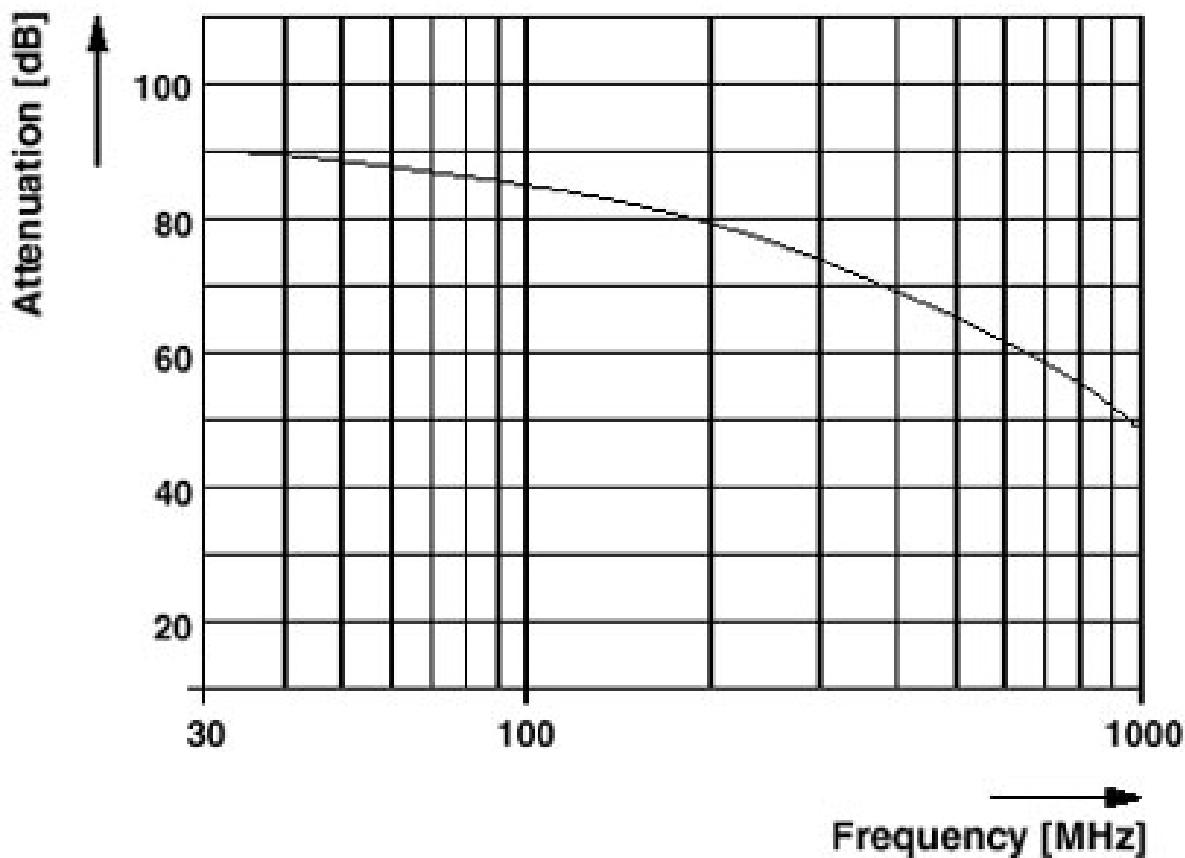
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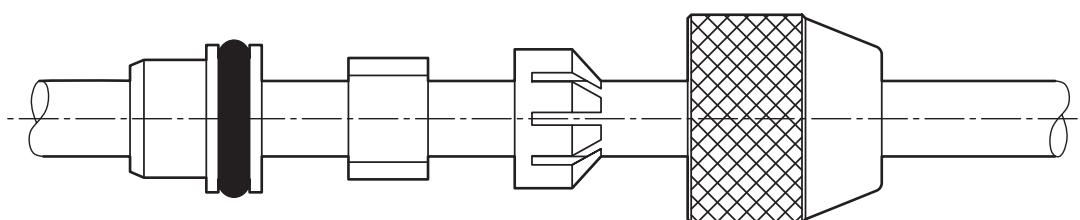
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Diagram



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

Functional drawing



Assembly steps for M8 male/female plug and conductor

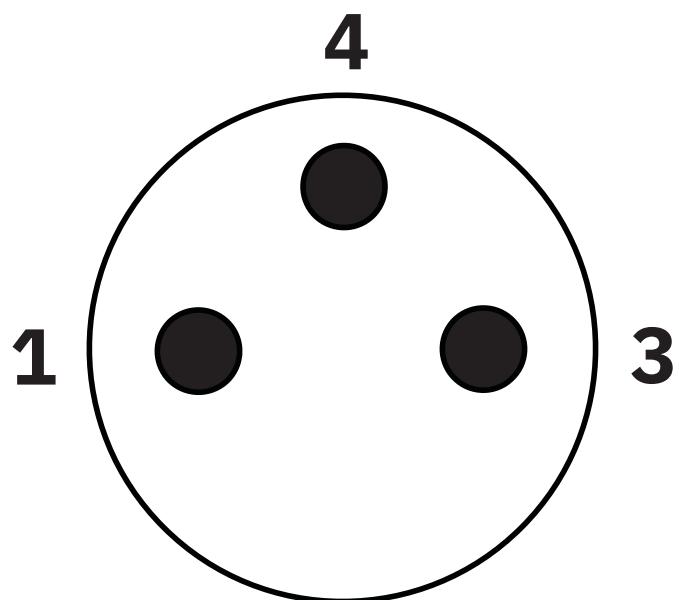
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Schematic diagram



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 | Cross section mm^2 |
| | 60 V | 4 A | - | - |

| cUL Listed Approval ID: FILE E 221474 | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
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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 |
|----------|----------|

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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