

Connector - SACC-M 8MS-4QO-0,5-M

1441037

<https://www.phoenixcontact.com/us/products/1441037>



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Connector, Universal, 4-position, Plug straight M8, Coding: A, Insulation displacement connection, knurl material: Nickel-plated brass, 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

Connector - SACC-M 8MS-4QO-0,5-M



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Commercial Data

| | |
|--------------------------------------|--------------------|
| Item number | 1441037 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | B07 |
| Product Key | BF2BCA |
| Catalog Page | Page 16 (C-2-2019) |
| GTIN | 4046356515924 |
| Weight per Piece (including packing) | 8.44 g |
| Weight per Piece (excluding packing) | 8.44 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

Connector - SACC-M 8MS-4QO-0,5-M



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Technical Data

Notes

Assembly instruction:

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) |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A - standard |
| Cable outlet | straight |

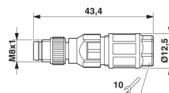
Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Ambient conditions

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Length | 43.4 mm |

External dimensions

| | |
|------------------|-------------------------|
| Outside diameter | 2.5 mm ... 5 mm ±0.2 mm |
|------------------|-------------------------|

Housing

| | |
|------------------|---------|
| Diameter housing | 12.5 mm |
|------------------|---------|

Connector

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

Header 1

| | |
|-------------------|----------|
| Head design | Plug |
| Head cable outlet | straight |
| Head thread type | M8 |

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| | |
|--------|---------|
| Coding | A-coded |
|--------|---------|

Electrical properties

| | |
|-----------------------|----------------------------|
| Rated surge voltage | 0.8 kV |
| Contact resistance | $\leq 5 \text{ m}\Omega$ |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 30 V AC |
| | 30 V DC |
| Nominal current I_N | 4 A |

Material specifications

| | |
|--|------------------------|
| Color Handle area | black |
| Flammability rating according to UL 94 | HB |
| Sealing material | NBR |
| Material of grip body | PA 6 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Cable gland material | Nickel-plated brass |
| Wire insulation material | PVC / PE / PP / rubber |

Connection data

Conductor connection

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

Pin assignment

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

Standards and regulations

M8

| | |
|--------------------------|-----------------|
| Standards/specifications | IEC 61076-2-104 |
|--------------------------|-----------------|

Cable / line

Cable structure

| | |
|-------------------------|-----------------|
| Signal type/category | Universal |
| External cable diameter | 2.5 mm ... 5 mm |

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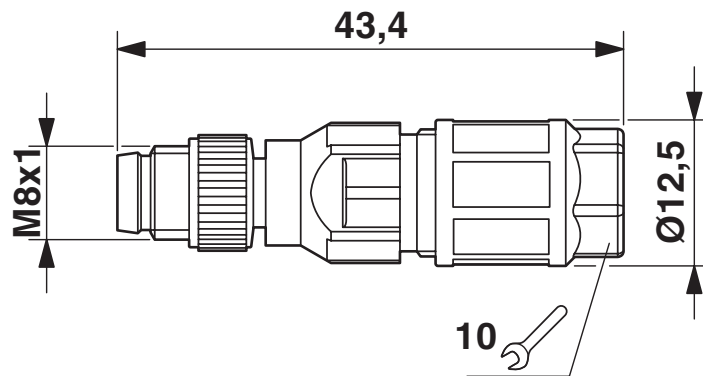
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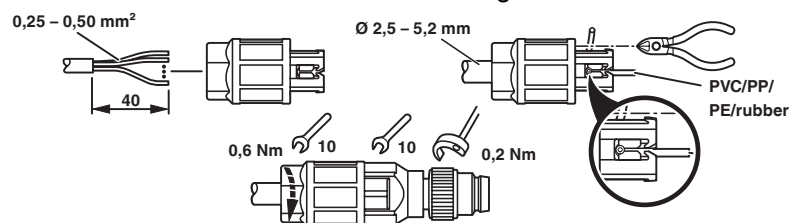
Drawings

Dimensional drawing



M8 x 1 male plug, straight version

Functional drawing



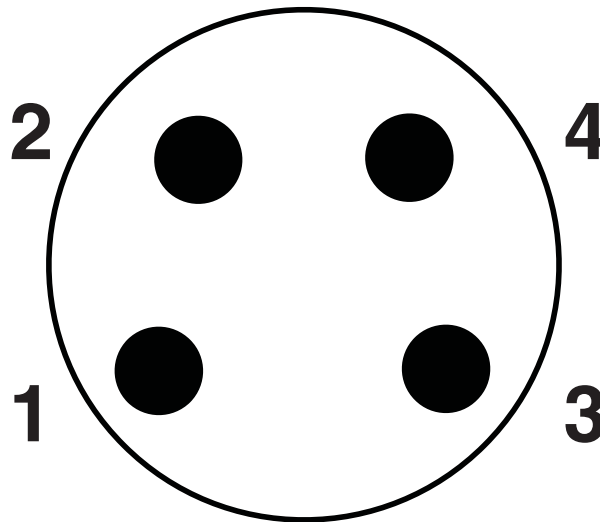
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Schematic diagram



Pin assignment M8 plug, 4-pos., view male side

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Approvals

| cUL Recognized Approval ID: FILE E 118976 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| | 29 V | 4 A | 24 - 20 | - |

| UL Recognized Approval ID: FILE E 118976 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal Voltage U_N | Nominal Current I_N | Cross Section AWG | Cross Section mm^2 |
| | 29 V | 4 A | 24 - 20 | - |

| EAC Approval ID: RU C-DE.AI30.B.01102 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

| EAC Approval ID: EAC-Zulassung | | | | |
|-----------------------------------|--|--|--|--|
|-----------------------------------|--|--|--|--|

| EAC Approval ID: RU C-DE.BL08.B.00511 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

| cULus Recognized | | | | |
|------------------|--|--|--|--|
|------------------|--|--|--|--|

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-10.0.1 | 27440102 |
| ECLASS-9.0 | 27440102 |
| ECLASS-11.0 | 27440102 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC002635 |
|----------|----------|

UNSPSC

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

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Environmental Product Compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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Accessories

Torque screwdriver

Torque screwdriver - TSD 02 SAC - 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

Tool

Tool - SAC BIT M8-D10 - 1208461

<https://www.phoenixcontact.com/us/products/1208461>



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive

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Torque screwdriver

Torque screwdriver - TSD-M 1,2NM - 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

Adapter insert

Adapter insert - TSD-M SAC-BIT ADAPTER - 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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Sealing cap

Sealing cap - PROT-M 8 FS-PA-CHAIN - 1430857

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

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



Cable reel

Cable reel - SAC-4P-100,0-PUR/0,25 - 1501692

<https://www.phoenixcontact.com/us/products/1501692>

By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m



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Cable reel

Cable reel - SAC-4P-100,0-PUR/0,34 - 1501663

<https://www.phoenixcontact.com/us/products/1501663>



By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m

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