

SACC-M12MS-5CON-DM 3-5 SH VA - Connector



1440012

<https://www.phoenixcontact.com/no/products/1440012>

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Connector, 5-position, shielded, Plug straight M12, coding: A, Screw connection, knurl material: Stainless steel 1.4404, cable gland M16, external cable diameter 3 mm ... 5.5 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Screw connection: proven connection technology for a large selection of different conductors
- Reliable signal transmission – 360° shielding in environments with electromagnetic interference

Commercial data

| | |
|--------------------------------------|--------------------|
| Item number | 1440012 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | 31BBFS |
| Product key | BF2CBA |
| Catalog page | Page 24 (C-2-2019) |
| GTIN | 4046356480864 |
| Weight per piece (including packing) | 60.46 g |
| Weight per piece (excluding packing) | 59.97 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

Technical data

Notes

General

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

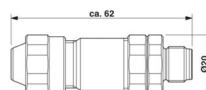
| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Number of positions | 5 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | A |
| | A |
| Cable outlet | straight |
| Pg screw connection | M16 |

Insulation characteristics

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

Dimensions

Dimensional drawing



Length

62 mm

External dimensions

| | |
|------------------|-----------------|
| Outside diameter | 3 mm ... 5.5 mm |
|------------------|-----------------|

Housing

| | |
|------------------|-------|
| Diameter housing | 20 mm |
|------------------|-------|

Material specifications

| | |
|--|------------------------|
| Flammability rating according to UL 94 | V0 |
| Seal material | FKM |
| Material of grip body | Stainless steel 1.4404 |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA |
| Material for screw connection | Stainless steel 1.4404 |

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Connection data

Conductor connection

| | |
|---|--|
| Connection method | Screw connection |
| Connection cross section | 0.25 mm ² ... 0.75 mm ² (without ferrule) |
| | 0.14 mm ² ... 0.75 mm ² (with ferrule) |
| | 0.25 mm ² ... 0.75 mm ² (solid) |
| Connection cross section AWG | 24 ... 18 (without ferrule) |
| | 26 ... 20 (with ferrule) |
| Stripping length of the individual wire | 5 mm |
| Tightening torque | 0.4 Nm (M12 knurl) |
| | 0.2 Nm (Screw terminal blocks) |
| | 0.3 Nm ... 0.4 Nm (Pressure nut with sleeve housing with 3 mm ... 4 mm external cable diameter) |
| | 0.8 Nm ... 1 Nm (Pressure nut with sleeve housing with 4 mm ... 8 mm external cable diameter) |

Electrical properties

| | |
|--------------------------------|----------|
| Rated surge voltage | 1.5 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 | M12 |
| Coding | A |

Cable/line

| | |
|---|------|
| Stripping length of the individual wire | 5 mm |
|---|------|

Environmental and real-life conditions

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP65 |
| | IP67 |

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| | |
|---------------------------------|----------------------------------|
| | IP69K |
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |

Standards and regulations

| | |
|--------------------------|-----------------|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |

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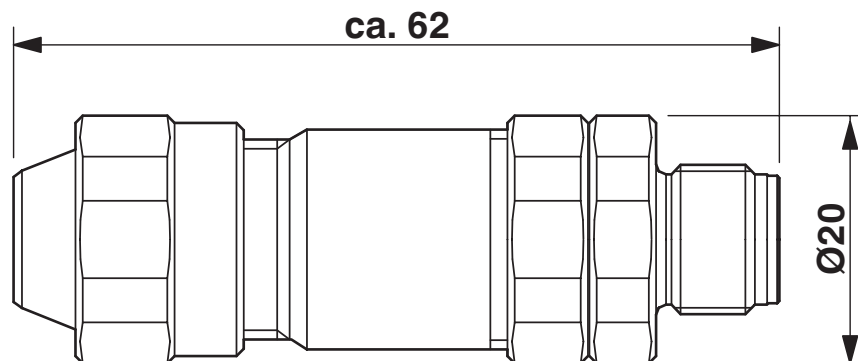


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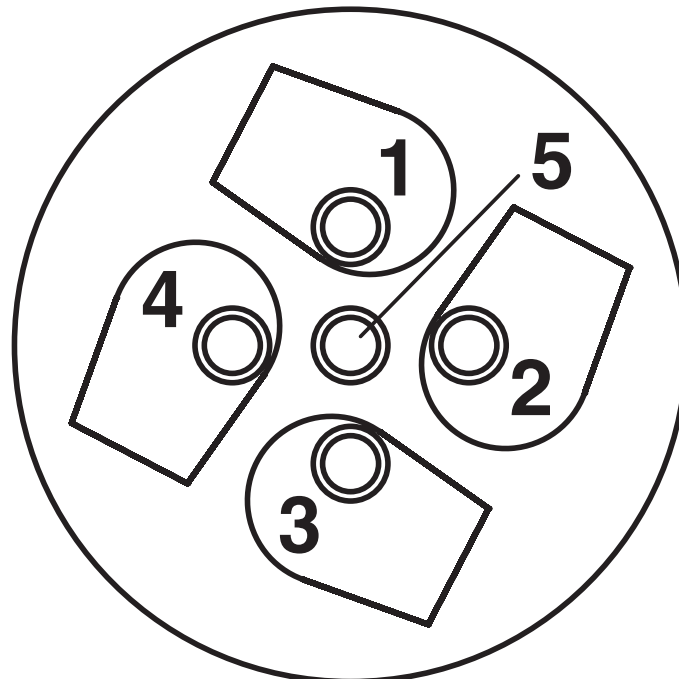
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram

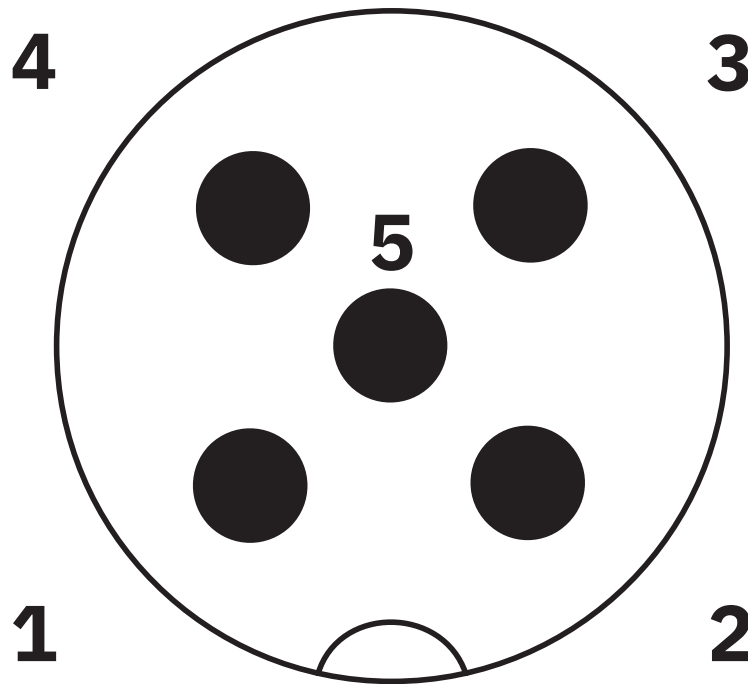


Cable connection side M12 (screw connection)

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Schematic diagram

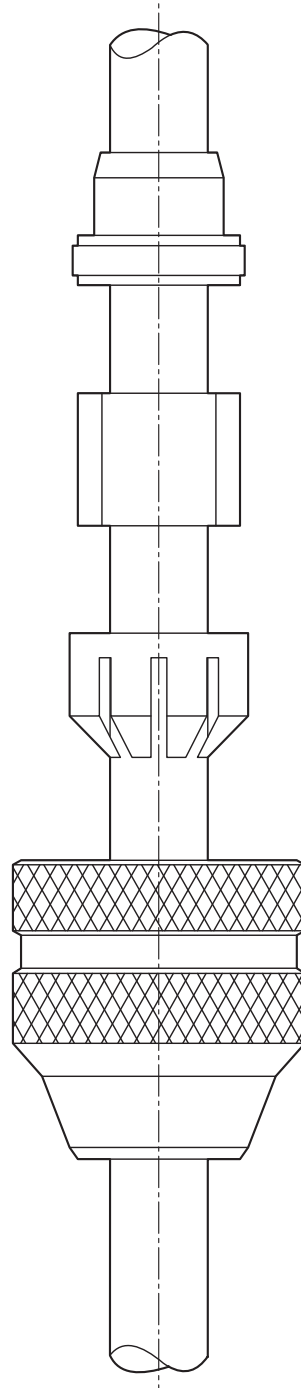


Pin assignment M12 male connector, 5-pos., A-coded, male side

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Functional drawing



Assembly steps for M12 male/female plug and conductor

a = Slide on parts

b= Strip conductor, widen shield and lay around the shielding ring, cut off projecting mesh. Slide cores through the housing. Mount shielding ring, gasket and clamping cage. Tighten pressure screw to fix the cable. Screw down cores. Mount male/female part. Tighten pressure screw.

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1440012>

| | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|  cUL Recognized Approval ID: FILE E 221474 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 60 V | 4 A | - | - |

| | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  UL Recognized Approval ID: FILE E 221474 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 60 V | 4 A | - | - |

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

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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

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