

SACC-M12MR-5PL DN - Data connector



1072544

<https://www.phoenixcontact.com/us/products/1072544>

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Data connector, CANopen®, DeviceNet™, 5-position, unshielded, Plug angled M12, coding: A, Push-lock spring connection, knurl material: Plastic, external cable diameter 4 mm ... 8 mm



Your advantages

- Time-saving Push-Lock connection: Tool-free connection and disconnection of conductors by opening the contact levers
- Intuitive connection: Easy assignment of individual litz wires with color-coded and numerical identification of the contact levers
- Integrated Push-in Technology: Wire rigid and pretreated conductors easily by means of simple, direct insertion
- Shock- and vibration-resistant connection: Proven spring-cage technology guarantees secure and reliable contacting
- Flexible cable outlets with angled connectors

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1072544 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF33 |
| Product key | BF2CEA |
| GTIN | 4063151358402 |
| Weight per piece (including packing) | 14.5 g |
| Weight per piece (excluding packing) | 14 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 routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

Mounting

Assembly note

The connector pin assignment can be rotated 45° to the cable outlet

The wires can be connected both with ferrules and without ferrules

Product properties

| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Application | Data |
| Sensor type | CANopen® |
| Number of positions | 5 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |
| Cable outlet | angled |

Data management status

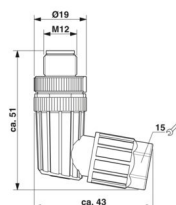
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| Article revision | 00 |
|------------------|----|

Insulation characteristics

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

Dimensions

Dimensional drawing



Length

51 mm

External dimensions

| | |
|------------------|---------------|
| Outside diameter | 4 mm ... 8 mm |
|------------------|---------------|

Housing

| | |
|------------------|-------|
| Diameter housing | 19 mm |
|------------------|-------|

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Material specifications

| | |
|--|---------|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |
| Material of grip body | PA 6.6 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 6.6 |
| Material for screw connection | Plastic |

Connection data

Conductor connection

| | |
|---|---|
| Connection method | Push-lock spring connection |
| Connection cross section | 0.14 mm ² ... 0.75 mm ² (without ferrule) |
| | 0.08 mm ² ... 0.5 mm ² (with ferrule) |
| | 0.14 mm ² ... 0.75 mm ² (solid) |
| Connection cross section AWG | 26 ... 18 (without ferrule) |
| | 28 ... 20 (with ferrule) |
| Stripping length of the individual wire | 7 mm |
| Tightening torque | 0.4 Nm (M12 knurl) |
| | 0.4 Nm (Connector with coupling sleeve) |
| | 1.5 Nm (Pressure nut with coupling sleeve) |

Pin assignment

| | |
|---|-----------------|
| Contact Color (signal designation) Contact (optional) | 1 = GY (shield) |
| | 2 = RD |
| | 3 = BK |
| | 4 = WH |
| | 5 = BU |

Electrical properties

| | |
|--------------------------------|--|
| Rated surge voltage | 1.5 kV |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 48 V AC |
| | 60 V DC |
| Nominal current I _N | 4 A (2 A when using 0.14 mm ² conductors) |

Mechanical properties

Mechanical data

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

Connector

Connection 1

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| | |
|-------------------|--------|
| Head design | Plug |
| Head cable outlet | angled |
| Head thread type | M12 |
| Coding | A |

Cable/line

| | |
|---|------------|
| Signal type/category | CANopen® |
| | DeviceNet™ |
| Stripping length of the individual wire | 7 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |

Standards and regulations

M12

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

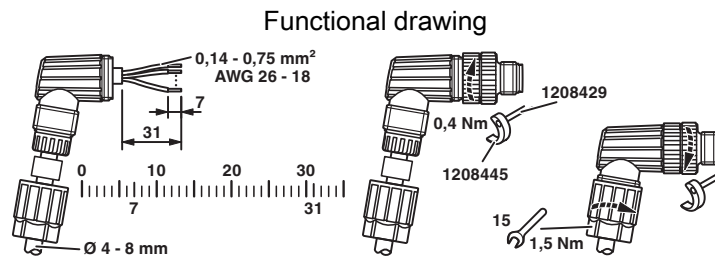
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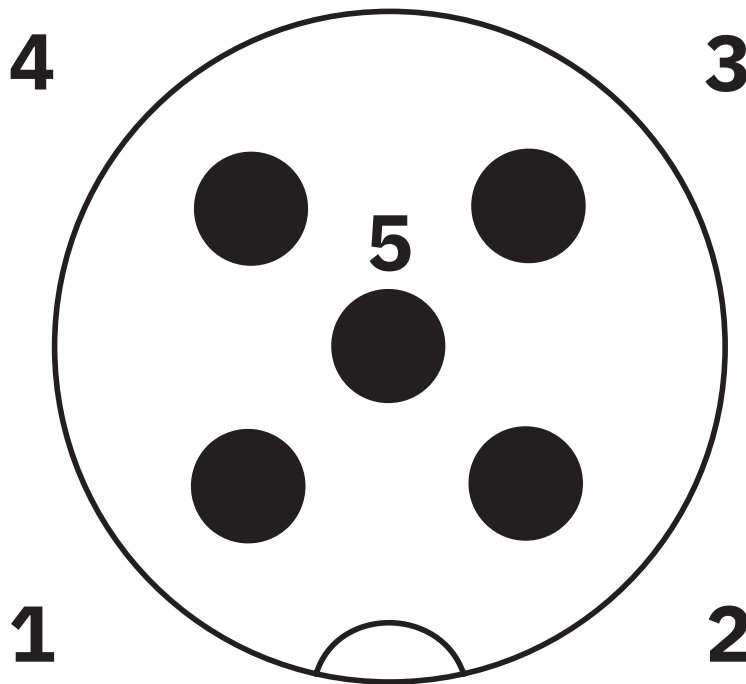
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Drawings



Schematic diagram



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

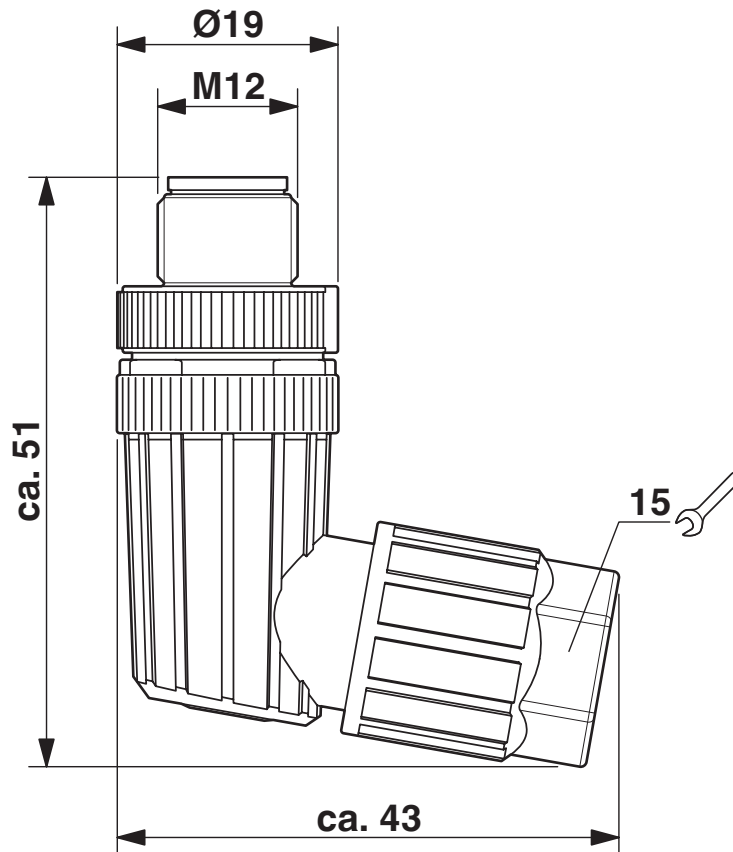
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Dimensional drawing



M12 x 1 male plug, angled

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1072544>

| | | | | |
|--|--|-----------------------|-------------------|-----------------------------|
| | UL Listed Approval ID: E221474 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 250 V | 4 A | - | 26 - 18 |

| | | | | |
|--|---|-----------------------|-------------------|-----------------------------|
| | cUL Listed Approval ID: E221474 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 250 V | 4 A | 26 - 18 | - |

| | | | | |
|---------------------|--|--|--|--|
| 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, No exemptions |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

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