

# SACC-M12MR-5PL - Connector

1424688

<https://www.phoenixcontact.com/us/products/1424688>



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Connector, Universal, 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                          | 1424688       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF33          |
| Product key                          | AF2CFA        |
| GTIN                                 | 4055626376158 |
| Weight per piece (including packing) | 14.6 g        |
| Weight per piece (excluding packing) | 14.6 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

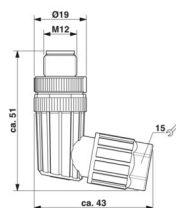
|                      |                                 |
|----------------------|---------------------------------|
| Product type         | Circular connector (cable-side) |
| Number of positions  | 5                               |
| No. of cable outlets | 1                               |
| Shielded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

### 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 |
|------------------|-------|

### Material specifications

|                                        |        |
|----------------------------------------|--------|
| Flammability rating according to UL 94 | V0     |
| Seal material                          | NBR    |
| Material of grip body                  | PA 6.6 |

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|                               |         |
|-------------------------------|---------|
| 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 mm² ... 0.75 mm² (without ferrule)    |
|                                         | 0.14 mm² ... 0.5 mm² (with ferrule)        |
| Connection cross section AWG            | 26 ... 18 (without ferrule)                |
|                                         | 26 ... 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) |

### Connection assignment

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

## Electrical properties

|                                |                                          |
|--------------------------------|------------------------------------------|
| Rated surge voltage            | 1.5 kV                                   |
| Contact resistance             | ≤ 5 mΩ                                   |
| Insulation resistance          | ≥ 100 MΩ                                 |
| Nominal voltage U <sub>N</sub> | 48 V AC                                  |
|                                | 60 V DC                                  |
| Nominal current I <sub>N</sub> | 4 A (2 A when using 0.14 mm² conductors) |

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

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

## Interfaces

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|                      |           |
|----------------------|-----------|
| Signal type/category | Universal |
|----------------------|-----------|

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### M12

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

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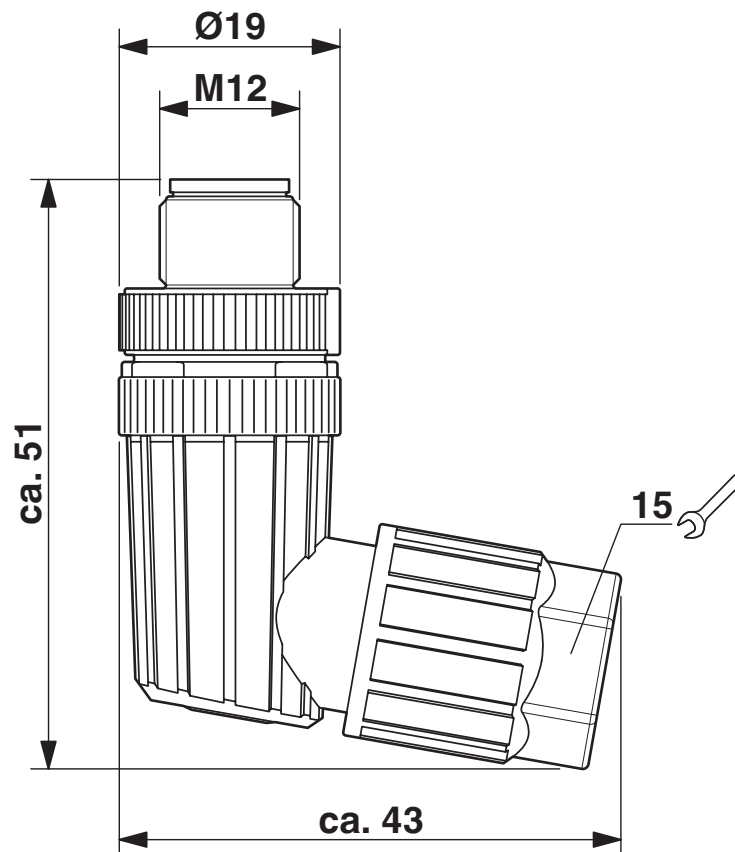
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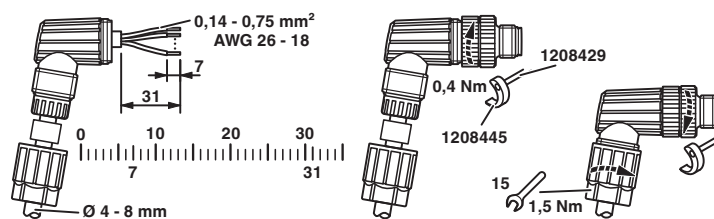
## Drawings

Dimensional drawing



M12 x 1 male plug, angled

Functional drawing



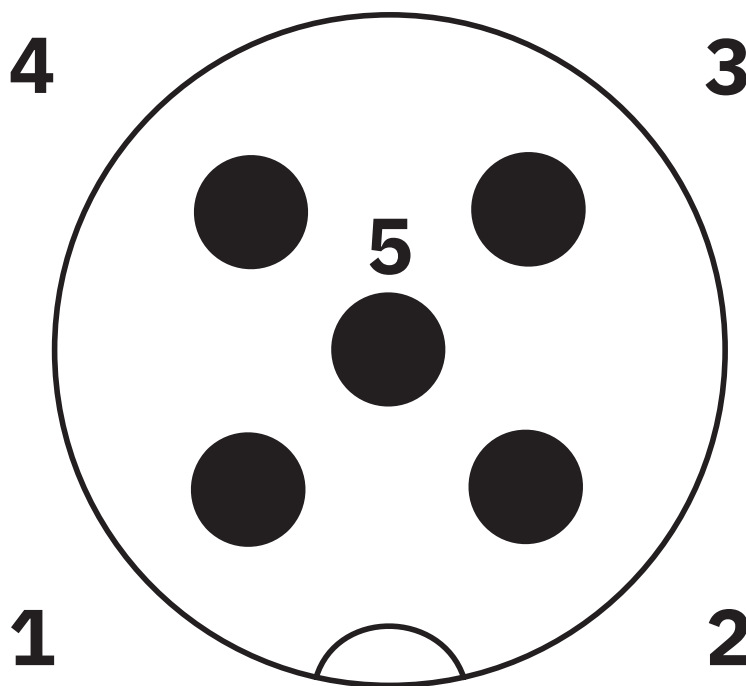
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Schematic diagram



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424688>

|  <b>UL Listed</b><br>Approval ID: E221474 |                                |                                |                   |                               |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                            | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                      |                                |                                |                   |                               |
|                                                                                                                            | 250 V                          | 4 A                            | 26 - 18           | 26 - 18                       |

|  <b>cUL Listed</b><br>Approval ID: E221474 |                                |                                |                   |                               |
|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|                                                                                                                             | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
| keine                                                                                                                       |                                |                                |                   |                               |
|                                                                                                                             | 250 V                          | 4 A                            | 26 - 18           | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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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