

# SACC-M12FRB-5CON-PG 9 - Data connector



1531057

<https://www.phoenixcontact.com/us/products/1531057>

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Data connector, 5-position, Socket angled M12, coding: B, Screw connection, knurl material: Plastic, cable gland Pg9, external cable diameter 6 mm ... 8 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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1531057                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF30                           |
| Product key                          | AF2CAA                         |
| GTIN                                 | 4017918986445                  |
| Weight per piece (including packing) | 17.8 g                         |
| Weight per piece (excluding packing) | 17.5 g                         |
| Customs tariff number                | 85366990                       |
| Country of origin                    | HU                             |

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## Technical data

### Notes

|               |   |
|---------------|---|
| Assembly note | <b>NOTE:</b> 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 90° to the cable outlet |
|---------------|---|

### Product properties

|                      |                                 |
|----------------------|---------------------------------|
| Product type         | Circular connector (cable-side) |
| Number of positions  | 5                               |
| No. of cable outlets | 1                               |
| Shielded             | no                              |
| Coding               | B                               |
| Cable outlet         | angled                          |
| Pg screw connection  | Pg9                             |

### Insulation characteristics

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

### Dimensions

#### External dimensions

|                  |               |
|------------------|---------------|
| Outside diameter | 6 mm ... 8 mm |
|------------------|---------------|

### Material specifications

|  |         |
|--|---------|
| Flammability rating according to UL 94 | HB      |
| Seal material                          | NBR     |
| Material of grip body                  | PA      |
| Contact material                       | CuZn    |
| Contact surface material               | CuSnZn  |
| Contact carrier material               | PA      |
| Material for screw connection          | Plastic |

### Connection data

#### Conductor connection

|   |   |
|---|---|
| Connection method                       | Screw connection                              |
| Connection cross section                | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup> |
| Connection cross section AWG            | 24 ... 18                                     |
| Stripping length of the individual wire | 5 mm  |

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|                   |  |
|-------------------|--|
| Tightening torque | 0.4 Nm (M12 knurl)                                   |
|                   | 0.2 Nm (Screw terminal blocks)                       |
|                   | 0.8 Nm ... 1 Nm (Pressure screw with sleeve housing) |

## Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Contact resistance    | $\leq 8 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 60 V DC                    |
|                       | 48 V AC                    |
| Nominal current $I_N$ | 4 A                        |

## Mechanical properties

### Mechanical data

|                             |           |
|-----------------------------|-----------|
| Insertion/withdrawal cycles | $\geq 50$ |
|-----------------------------|-----------|

## Connector

### Connection 1

|                   |        |
|-------------------|--------|
| Head design       | Socket |
| Head cable outlet | angled |
| Head thread type  | M12    |
| Coding            | B      |

## Cable/line

|   |      |
|---|------|
| Stripping length of the individual wire | 5 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     | M12 connector   |
| Standards/specifications | IEC 61076-2-101 |

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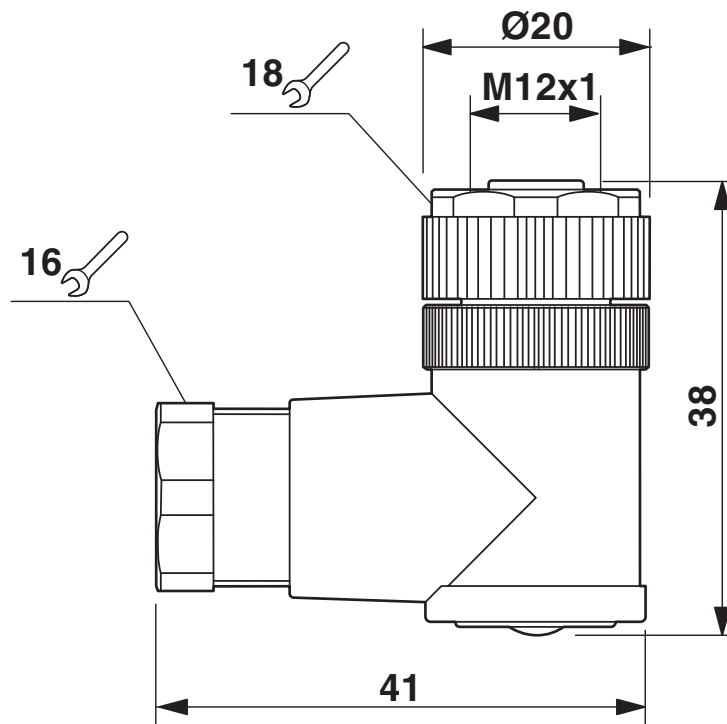


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## Drawings

Dimensional drawing



M12 x 1 socket, angled

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1531057>

|  <b>cUL Recognized</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 60 V                  | 4 A                   | -                 | -                           |

|  <b>UL Recognized</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 60 V                  | 4 A                   | -                 | -                           |

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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  |
| 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                                | 1487eec7-6c52-479c-8207-878cc6ca7618 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.741 kg CO2e |
|---------|---------------|

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