

# SACC-M12MSS-3PECON-PG 9-M - Power connector



1107268

<https://www.phoenixcontact.com/us/products/1107268>

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Power connector, 4-position, Plug straight M12, coding: S, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm, for AC current up to 12 A/630 V, Contact 4 leading

## 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
- High-performance: AC connectors for up to 12 A and 630 V AC
- Protection against incorrect connection using special S-coding

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1107268       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF30          |
| Product key                          | AF2CAB        |
| GTIN                                 | 4063151008475 |
| Weight per piece (including packing) | 25.38 g       |
| Weight per piece (excluding packing) | 25.38 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                      |                                 |
|----------------------|---------------------------------|
| Product type         | Circular connector (cable-side) |
| Application          | Energy supply                   |
| Number of positions  | 4                               |
| No. of cable outlets | 1                               |
| Shielded             | no                              |
| Coding               | S                               |
| Cable outlet         | straight                        |
| Pg screw connection  | Pg9                             |

### Insulation characteristics

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

### Dimensions

|                        |       |
|------------------------|-------|
| Dimensional drawing    |       |
| Length                 | 60 mm |
| Wrench size, union nut | 16 mm |

### External dimensions

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

### Housing

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

### Material specifications

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Seal material                          | NBR                          |
| Material of grip body                  | PA                           |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA                           |
| Material for screw connection          | Zinc die-cast, nickel-plated |

### Connection data

#### Conductor connection

|                          |   |
|--------------------------|---|
| Connection method        | Screw connection  |
| Connection cross section | 0.75 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> (with ferrule) |

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|   |  |
|---|--|
|   | 0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (solid)             |
| Connection cross section AWG            | 18 ... 16 (with ferrule)   |
| Stripping length of the individual wire | 5 mm   |
| Tightening torque                       | 0.4 Nm (M12 knurl)   |
|   | 0.8 Nm ... 1 Nm (Pressure screw with sleeve housing)             |
|   | 0.4 Nm (Screw plug insert with sleeve housing as far it will go) |
|   | 0.2 Nm (Screw terminal blocks)                                   |

## Electrical properties

|                                |  |
|--------------------------------|--|
| Rated surge voltage            | 6 kV   |
| Contact resistance             | ≤ 5 mΩ   |
| Insulation resistance          | > 10 GΩ  |
| Nominal voltage U <sub>N</sub> | 630 V AC   |
| Nominal current I <sub>N</sub> | 12 A (when using 1.5 mm <sup>2</sup> conductors) |
|                                | 12 A (at 40 °C)                                  |

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Plug     |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Coding            | S        |

## Cable/line

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

## Environmental and real-life conditions

### Ambient conditions

|   |                                  |
|---|----------------------------------|
| Degree of protection  | 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 61076-2-111 |

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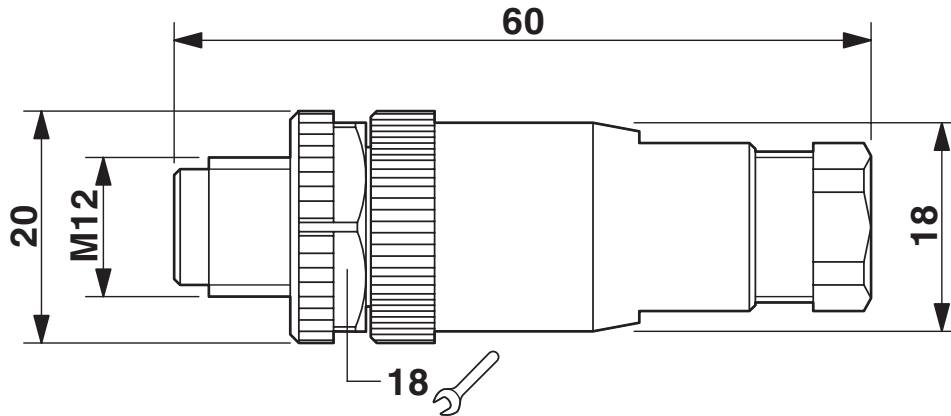


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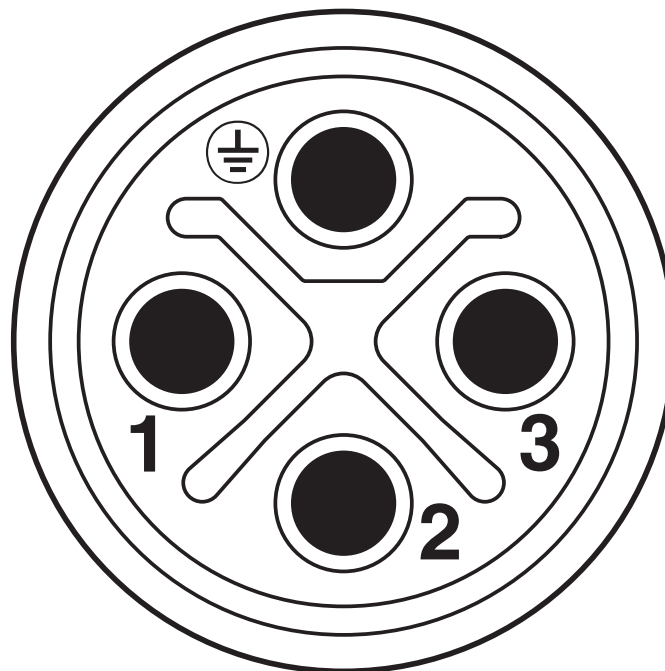
## Drawings

Dimensional drawing



Plug, M12 x 1, straight

Schematic diagram



M12 plug pin assignment, 4-pos., S-coded, plug side view

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1107268>

|  <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   |                       |                       |                   |                             |
|   | 600 V                 | 12 A                  | - 16              | -                           |

|  <b>UL Recognized</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
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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                                | 275b9d43-04d0-489e-ba0a-4a1fde0b14d1 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.184 kg CO2e |
|---------|---------------|

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