

## Connector - SACC-M12FR-5CON-PG9 - 1500790

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Connector, 5-position, Socket angled M12, A-coded, Screw connection, Knurl material: Plastic, Cable gland Pg9, External cable diameter 6 mm ... 8 mm

### Why buy this product

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Screw connection: proven connection technology for a large selection of different conductors

RoHS

### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 STK    |
| Weight per Piece (excluding packing) | 16.970 g |
| Custom tariff number                 | 85366990 |
| Country of origin                    | Germany  |

### Technical data

#### Dimensions

|                                         |               |
|-----------------------------------------|---------------|
| External cable diameter                 | 6 mm ... 8 mm |
| Stripping length of the sheath          | 20 mm         |
| Stripping length of the individual wire | 5 mm          |

#### Ambient conditions

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

#### General

|                       |      |
|-----------------------|------|
| Rated current at 40°C | 4 A  |
| Rated voltage         | 60 V |
| Number of positions   | 5    |

# Connector - SACC-M12FR-5CON-PG9 - 1500790

## Technical data

### General

|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| Insulation resistance       | $\geq 100 \text{ M}\Omega$                                          |
| Coding                      | A - standard                                                        |
| Standards/regulations       | M12 connector IEC 61076-2-101                                       |
| Status display              | No                                                                  |
| Overvoltage category        | II                                                                  |
| Degree of pollution         | 3                                                                   |
| Connection method           | Screw connection                                                    |
| Conductor cross section     | 0.25 mm <sup>2</sup> ... 0.75 mm <sup>2</sup>                       |
| Conductor cross section AWG | 24 ... 18                                                           |
| Insertion/withdrawal cycles | $\geq 100$                                                          |
| Torque                      | 0.4 Nm (M12 knurl)                                                  |
|                             | 0.2 Nm (Screw terminal blocks)                                      |
|                             | 0.8 Nm ... 1 Nm (Pressure screw with sleeve housing)                |
| Tightening torque           | Screw plug insert with sleeve housing as far it will go             |
| Assembly instructions       | The connector pin assignment can be rotated 90° to the cable outlet |
|                             | The wires can be connected both with ferrules and without ferrules  |

### Material

|                                        |         |
|----------------------------------------|---------|
| Flammability rating according to UL 94 | HB      |
| Contact material                       | CuZn    |
| Contact surface material               | CuSnZn  |
| Contact carrier material               | PA      |
| Material of grip body                  | PA      |
| Material, knurls                       | Plastic |
| Sealing material                       | NBR     |

### Cable

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

### Standards and Regulations

|                                        |                 |
|----------------------------------------|-----------------|
| Standard designation                   | M12 connector   |
| Standards/regulations                  | IEC 61076-2-101 |
| Connection in acc. with standard       | CUL             |
| Flammability rating according to UL 94 | HB              |

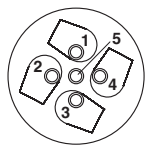
### Environmental Product Compliance

|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

# Connector - SACC-M12FR-5CON-PG9 - 1500790

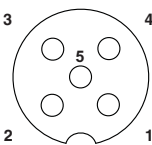
## Drawings

Schematic diagram



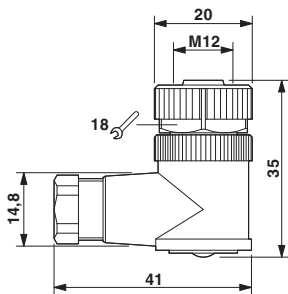
Cable connection side M12 (screw connection)

Schematic diagram



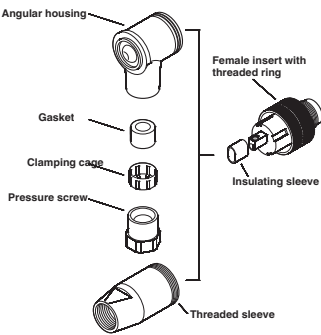
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Dimensional drawing



M12 x 1 socket, angled

Schematic diagram



Male/Female M12

## Approvals

### Approvals

Approvals

EAC / EAC / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

### Approval details

EAC EAC-Zulassung

EAC 7500651.22.01.00246

## Connector - SACC-M12FR-5CON-PG9 - 1500790

### Approvals

|                                                                                                                                                                                                                                                                     |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| UL Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 221474 |      |
|                                                                                                                                                                                                                                                                     |      |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                      | 4 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                      | 60 V |

|                                                                                                                                                                                                                                                                      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| cUL Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> FILE E 221474 |      |
|                                                                                                                                                                                                                                                                      |      |
| Nominal current I <sub>N</sub>                                                                                                                                                                                                                                       | 4 A  |
| Nominal voltage U <sub>N</sub>                                                                                                                                                                                                                                       | 60 V |

|                                                                                                                                                                                                                                                           |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| cULus Recognized  <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|