# SACC-DSI-FSB-5CON-L180 SCO - Device connector rear mounting

1543650

https://www.phoenixcontact.com/us/products/1543650

**PHŒNIX CONTACT**

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Device connector rear mounting, 5-position, Socket, straight, M12-SPEEDCON, coding: B, Rear mounting, Pg9, Solder pins, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239965

## Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- SPEEDCON fast locking system reduces cabling times

## Commercial data

| | |
|---|---|
| Item number | 1543650 |
| Packing unit | 20 pc |
| Minimum order quantity | 20 pc |
| Sales key | AB26 |
| Product key | ABQEHL |
| Catalog page | Page 246 (C-2-2013) |
| GTIN | 4046356102186 |
| Weight per piece (including packing) | 13.55 g |
| Weight per piece (excluding packing) | 13.3 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

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## Technical data

### Notes

| | |
|---|---|
| General | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
| General | Lock nut is included in the scope of delivery |

### Mounting

| | |
|---|---|
| Mounting type | Rear mounting Pg9 With flat nut |
| Assembly instructions | With flat nut |

### Product properties

| | |
|---|---|
| Product type | Circular connectors (device side) |
| Number of positions | 5 |
| Shielded | no |
| Coding | B |
| Thread type | M12 |

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

### Dimensions

| | |
|---|---|
| Length of the solder pin | 6 mm |
| | 6 mm |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA 6.6 |
| Material for screw connection | Zinc die-cast, nickel-plated |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 1.5 kV |
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 60 V |
| Nominal current $I_N$ | 4 A |

## Connection data

### Conductor connection

| | |
|---|---|
| Connection method | Solder pins |
| Contact connection type | Socket |
| Tightening torque | 2 Nm ... 3 Nm (Installation-side) |

## Mechanical properties

### Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | > 100 |

## Connector

### Connection 1

| | |
|---|---|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M12 |
| Head locking type | SPEEDCON |
| Coding | B |

## Cable/line

| | |
|---|---|
| Ambient temperature (operation) | -40 °C ... 85 °C (cable, fixed installation) |
| | -25 °C ... 85 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

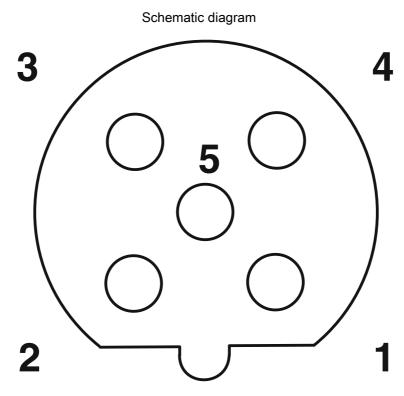| | |
|---|---|
| Degree of protection | IP67 (When plugged in) |
| | IP65 (When plugged in) |
| | IP65/IP67 |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |
| | -40 °C ... 85 °C (without mechanical actuation) |
| | -25 °C ... 85 °C (Cable, flexible installation) |
| | -40 °C ... 85 °C (cable, fixed installation) |

## Standards and regulations

### M12

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

## Drawings

Schematic diagram



Pin assignment M12 socket, 5-pos., B-coded, female side

## Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1543650

### cULus Recognized
Approval ID: E221474-20140616

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 60 V | 4 A | - | - |

### UL Recognized
Approval ID: E118976-20100522

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 60 V | 4 A | 22 - 22 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC002635 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## 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 | b1b167cc-dcdd-4993-ae33-930ce1ba542e |

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## Accessories

### SACC-PG9-SEAL CLM - Flat gasket

1556320

https://www.phoenixcontact.com/us/products/1556320

Pg9 flat gasket, for M12 flush-type connectors with Pg9 fastening thread

### PROT-M12 - Screw plug

1680539

https://www.phoenixcontact.com/us/products/1680539

An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

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## PROT-M12 SH - Screw plug

1503302

https://www.phoenixcontact.com/us/products/1503302

An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

## PROT-M12 FB - Screw plug

1555538

https://www.phoenixcontact.com/us/products/1555538

M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry