

# SACCBP-FSB-5CON-PG9/5,0-900SCO - Device connector rear mounting



1437630

<https://www.phoenixcontact.com/us/products/1437630>

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Bus system flush-type female connector, INTERBUS, 5-pos., M12, shielded, B-coded, SPEEDCON, rear/screw mounting with Pg9 thread, with 5.0 m bus line

## Your advantages

- Preassembled with cables in various standard lengths for immediate use
- Customer-specific assemblies and cable lengths can be supplied
- Sealed on the cable side for optimum tightness of seal
- Cable designs for all common networks and fieldbuses
- For high transmission safety: shield connection to the housing with optional EMC nut

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1437630             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Product key                          | ABQDGH              |
| Catalog page                         | Page 425 (C-2-2019) |
| GTIN                                 | 4046356458375       |
| Weight per piece (including packing) | 386.3 g             |
| Weight per piece (excluding packing) | 386.3 g             |
| 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  |

### Safety note

|             |  |
|-------------|--|
| Safety note | <p>WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.</p> <ul style="list-style-type: none"><li>• WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.</li><li>• WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.</li><li>• The products are suitable for applications in plant, controller, and electrical device engineering.</li><li>• When operating the connectors in outdoor applications, they must be separately protected against environmental influences.</li><li>• Assembled products may not be manipulated or improperly opened.</li><li>• Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>).</li><li>• When using the product in direct connection with third-party manufacturers, the user is responsible.</li><li>• For operating voltages &gt; 50 V AC, conductive connector housings must be grounded</li><li>• Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.</li><li>• Observe the corresponding technical data. You will find information:<ul style="list-style-type: none"><li>o On the product</li><li>o On the packing label</li><li>o In the supplied documentation</li><li>o Online at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a> under the product</li></ul></li><li>• Only use tools recommended by Phoenix Contact</li><li>• Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory</li></ul> |
|-------------|--|

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|  |   |
|--|---|
|  | section of the product at <a href="https://www.phoenixcontact.com/products">phoenixcontact.com/products</a>   |
|  | <ul style="list-style-type: none"><li>• Ensure that the protective or functional ground has been properly connected.</li><li>• VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector</li><li>• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).</li></ul> |

## Mounting

|               |               |
|---------------|---------------|
| Mounting type | Rear mounting |
|---------------|---------------|

## Product properties

|                      |                                   |
|----------------------|-----------------------------------|
| Product type         | Circular connectors (device side) |
| Sensor type          | INTERBUS                          |
| Number of positions  | 5                                 |
| No. of cable outlets | 1                                 |
| Shielded             | yes                               |
| Coding               | B                                 |
| Thread type          | M12                               |

## Insulation characteristics

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

## Material specifications

|  |                      |
|--|----------------------|
| Flammability rating according to UL 94 | V0                   |
| Seal material                          | FKM                  |
| Contact material                       | CuZn                 |
| Contact surface material               | Ni/Au                |
| Contact carrier material               | PA 6.6               |
| Material for screw connection          | Brass, nickel-plated |
| Outer sheath, material                 | PUR                  |

## Electrical properties

|                       |         |
|-----------------------|---------|
| Rated surge voltage   | 1.5 kV  |
| Insulation resistance | 100 MΩ  |
| Nominal voltage $U_N$ | 48 V AC |
|                       | 60 V DC |
| Nominal current $I_N$ | 4 A     |
| Transmission medium   | Copper  |

## Connection data

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## Conductor connection

|                         |                                   |
|-------------------------|-----------------------------------|
| Connection method       | Cable connection                  |
| 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        |

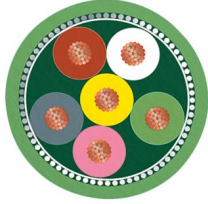
### Connection 2

|             |                |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

### INTERBUS [900]

|                                 |  |
|---------------------------------|--|
| Dimensional drawing             |  |
| Cable weight                    | 70 kg/km   |
| Number of positions             | 6  |
| Shielded                        | yes  |
| Cable type                      | INTERBUS [900]   |
| Conductor structure             | 3 x 2 x 0.22 mm <sup>2</sup>   |
| Signal speed                    | 0.66 c   |
| Conductor structure signal line | 32x 0.10 mm  |
| AWG signal line                 | 24   |
| Conductor cross section         | 3x 2x 0.22 mm <sup>2</sup>   |
| External cable diameter         | 8.00 mm  |

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|   |   |
|---|---|
| Outer sheath, material                        | PUR   |
| External sheath, color                        | may green RAL 6017  |
| Conductor material                            | Bare Cu litz wires  |
| Material wire insulation                      | PE  |
| Single wire, color                            | green-yellow, white-brown, gray-pink  |
| Twisted pairs                                 | 2 cores to the pair   |
| Overall twist                                 | 3 pairs to the core   |
| Insulation resistance                         | $\geq 5 \text{ G}\Omega \cdot \text{km}$  |
| Coupling resistance                           | $< 250.00 \text{ m}\Omega/\text{m}$ (at 30 MHz)   |
| Loop resistance                               | $\leq 159.80 \text{ }\Omega/\text{km}$  |
| Wave impedance                                | $120 \text{ }\Omega \pm 20 \%$ (at 64 kHz)  |
|   | $100 \text{ }\Omega \pm 15 \%$ (with 1 MHz)   |
| Cable capacity                                | $\leq 60 \text{ nF}/\text{km}$ (At 800 Hz)  |
| Nominal voltage, cable                        | 250 V (Peak value, not for high-power applications)   |
| Test voltage Core/Core                        | $1500 \text{ V}_{\text{rms}}$   |
| Test voltage Core/Shield                      | $1000.00 \text{ V}_{\text{rms}}$  |
| Minimum bending radius, fixed installation    | $7.5 \times D$  |
| Minimum bending radius, flexible installation | $15 \times D$   |
| Smallest bending radius, fixed installation   | 60 mm   |
| Smallest bending radius, movable installation | 120 mm  |
| Max. bending cycles                           | 5000000   |
| Near end crosstalk attenuation (NEXT)         | $\geq 61 \text{ dB}$ (at 772 kHz)   |
|   | $\geq 59 \text{ dB}$ (with 1 MHz)   |
|   | $\geq 55 \text{ dB}$ (at 2 MHz)   |
|   | $\geq 50 \text{ dB}$ (at 4 MHz)   |
|   | $\geq 46 \text{ dB}$ (at 8 MHz)   |
|   | $\geq 44 \text{ dB}$ (at 10 MHz)  |
|   | $\geq 41 \text{ dB}$ (at 16 MHz)  |
|   | $\geq 40 \text{ dB}$ (at 20 MHz)  |
| Shield attenuation                            | $\leq 15 \text{ dB}/\text{km}$ (at 256 kHz)   |
|   | $\leq 24 \text{ dB}/\text{km}$ (at 772 kHz)   |
|   | $\leq 27 \text{ dB}/\text{km}$ (with 1 MHz)   |
|   | $\leq 52 \text{ dB}/\text{km}$ (at 4 MHz)   |
|   | $\leq 84 \text{ dB}/\text{km}$ (at 10 MHz)  |
|   | $\leq 112 \text{ dB}/\text{km}$ (at 16 MHz)   |
|   | $\leq 119 \text{ dB}/\text{km}$ (at 20 MHz)   |
| Flame resistance                              | according to VDE 0472, Part 4, test type B  |
|   | according to IEC 60332-1  |
| Ambient temperature (operation)               | $-40 \text{ }^\circ\text{C} \dots 80 \text{ }^\circ\text{C}$ (cable, fixed installation)    |
|   | $-30 \text{ }^\circ\text{C} \dots 70 \text{ }^\circ\text{C}$ (Cable, flexible installation) |

Environmental and real-life conditions

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## 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) |

## Standards and regulations

### M12

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440103 |
| ECLASS-12.0 | 27440103 |
| ECLASS-13.0 | 27440103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003570 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |  |
|------------|--|
| REACH SVHC | Lead 7439-92-1   |
| China RoHS | Environmentally Friendly Use Period = 50 years   |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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