

# SACB-C-H180-8/16- 5,0PUR SCO P - Connector hood



1453203

<https://www.phoenixcontact.com/us/products/1453203>

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Connector hood, application: Sensor/actuator box, connection method: M12-SPEEDCON-socket Plastic, number of slots: 8, slot assignment: Double, status display: No; master cable connection: Pluggable screw connection 180°, PUR/PVC, cable length: 5 m, shielding: no

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1453203             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF41                |
| Product key                          | BF3CBG              |
| Catalog page                         | Page 263 (C-2-2019) |
| GTIN                                 | 4046356553438       |
| Weight per piece (including packing) | 1,099.1 g           |
| Weight per piece (excluding packing) | 1,028.2 g           |
| Customs tariff number                | 85444290            |
| Country of origin                    | DE                  |

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## Technical data

### Notes

|         |  |
|---------|--|
| General | <b>NOTE:</b> Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |
|---------|--|

### Product properties

|                 |                     |
|-----------------|---------------------|
| Product type    | Connector hood      |
| Application     | Sensor/actuator box |
| Number of slots | 8                   |

### Electrical properties

|   |          |
|---|----------|
| Nominal voltage $U_N$                   | 120 V AC |
|   | 120 V DC |
| Rated current, total                    | 10 A     |
| Max. current carrying capacity per path | 2 A      |
| Current carrying capacity per slot      | 4 A      |

### Connection data

#### Conductor connection

|                                |                            |
|--------------------------------|----------------------------|
| Connection method              | Pluggable screw connection |
| Tightening torque, cover screw | 1 Nm                       |

#### Pin assignment

|  |                  |
|--|------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH   |
|  | 1 / 2 (B) = GYPK |
|  | 2 / 4 (A) = GN   |
|  | 2 / 2 (B) = RDBU |
|  | 3 / 4 (A) = YE   |
|  | 3 / 2 (B) = WHGN |
|  | 4 / 4 (A) = GY   |
|  | 4 / 2 (B) = BNGN |
|  | 5 / 4 (A) = PK   |
|  | 5 / 2 (B) = WHYE |
|  | 6 / 4 (A) = RD   |
|  | 6 / 2 (B) = YEBN |
|  | 7 / 4 (A) = BK   |
|  | 7 / 2 (B) = WHGY |
|  | 8 / 4 (A) = VT   |
|  | 8 / 2 (B) = GYBN |
| 1-8 / 1 (+ 120 V) = BN                   |                  |
| 1-8 / 3 (0 V) = BU                       |                  |

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1-8 / 5 (PE) = GNYE

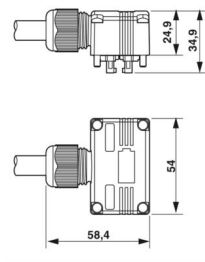
## Signaling

Status display present

No

## Dimensions

Dimensional drawing



Width

54 mm

Height

25 mm

Length

34 mm

## Material specifications

Material Housing

PBT

Seal material

NBR

Material of contact, master cable side

CU alloy

Material of the contact carrier on the master cable side

PA

Material of contact surface, master cable side

Sn

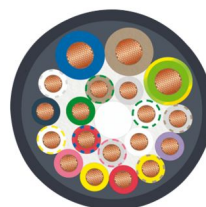
## Cable/line

Cable length

5 m

PUR/PVC black [PUR]

Dimensional drawing



Cable weight

183.7 kg/km

UL AWM Style

20549 (80°C/300 V)

Number of positions

19

Shielded

no

Cable type

PUR/PVC black [PUR]

Conductor structure signal line

28x 0.15 mm

AWG signal line

20

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|   |  |
|---|--|
| Conductor cross section                       | 16x 0.5 mm <sup>2</sup> (Signal line)  |
|   | 3x 1 mm <sup>2</sup> (power line)  |
| Wire diameter incl. insulation                | 1.5 mm ±0.1 mm (Signal line)   |
|   | 2.1 mm ±0.1 mm (power line)  |
| External cable diameter                       | 10.50 mm ±0.2 mm   |
| Outer sheath, material                        | PUR  |
| External sheath, color                        | black RAL 9005   |
| Conductor material                            | Bare Cu litz wires   |
| Material wire insulation                      | PVC  |
| Single wire, color                            | brown, blue, green/yellow, white, green, yellow, gray, pink, red, black, violet, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown, white/gray, gray/brown |
| Inner sheath thickness                        | ≥ 0.15 mm  |
| Thickness, outer sheath                       | ≥ 0.76 mm  |
| Overall twist                                 | Wires twisted in layers  |
| Nominal voltage, cable                        | 300 V  |
| Test voltage                                  | 2000 V   |
| Minimum bending radius, fixed installation    | 7.5 x D  |
| Minimum bending radius, flexible installation | 10 x D   |
| Smallest bending radius, fixed installation   | 79 mm  |
| Smallest bending radius, movable installation | 105 mm   |
| Max. bending cycles                           | 1500000  |
| Flame resistance                              | according to DIN EN 50265  |
| Resistance to oil                             | according to VDE 0472 Part 803   |
| Other resistance                              | Highly resistant to acids, alkaline solutions and solvents   |
| Special properties                            | Silicone-free  |
| Ambient temperature (operation)               | -40 °C ... 90 °C (cable, fixed installation)   |
|   | -5 °C ... 80 °C (Cable, flexible installation)   |

## Environmental and real-life conditions

### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Degree of protection            | IP65             |
|                                 | IP67             |
| Ambient temperature (operation) | -25 °C ... 80 °C |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440108 |
| ECLASS-12.0 | 27440108 |
| ECLASS-13.0 | 27440108 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002585 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 31251500 |
|-------------|----------|

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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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