# SACB-C-H180-6/12- 5,0PUR SCO P - Connector hood

1453148

https://www.phoenixcontact.com/us/products/1453148

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Connector hood, application: Sensor/actuator box, connection method: M12 socket Plastic, number of slots: 6, 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 | 1453148 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF41 |
| Product key | AF3CBG |
| GTIN | 4046356553391 |
| Weight per piece (including packing) | 881.8 g |
| Weight per piece (excluding packing) | 830.1 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

## Technical data

### Notes

| | |
|---|---|
| Assembly note | NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce 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 | 6 |

### 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

| | |
|---|---|
| Sensor/actuator connection system | M12 socket |
| Connection method | Pluggable screw connection |
| Tightening torque, cover screw | 1 Nm |

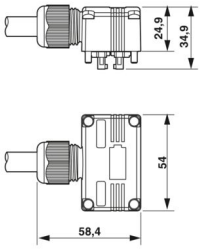
Connection assignment

| | |
|---|---|
| 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 |
| | 1-6 / 1 (+ 120 V) = BN |
| | 1-6 / 3 (0 V) = BU |
| | 1-6 / 5 (PE) = GNYE |

### Signaling

| | |
|---|---|
| Status display present | no |

## Dimensions

| | |
|---|---|
| Dimensional drawing |  |
| Width | 54 mm |
| Height | 25 mm |
| Length | 34 mm |

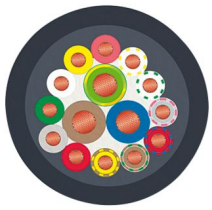
## Material specifications

| | |
|---|---|
| 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 | 150.9 kg/km |
| UL AWM Style | 20549 |
| Number of positions | 15 |
| Shielded | no |
| Cable type | PUR/PVC black [PUR] |
| Conductor structure signal line | 28x 0.15 mm |
| AWG signal line | 20 |
| Conductor structure, voltage supply | 56x 0.15 mm |
| AWG power supply | 17 |
| Conductor cross-section | 12x 0.5 mm² (Signal line) |

| | |
|---|---|
| | 3x 1 mm² (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 | 9.40 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, gray/pink, red/blue, white/green, brown/green, white/yellow, yellow/brown |
| Thickness, insulation | ≥ 0.15 mm (Inner sheath) |
| | ≥ 0.76 mm (Outer cable sheath) |
| 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 | 71 mm |
| Smallest bending radius, movable installation | 94 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 1500000, Bending radius: 94 mm, Traversing path: 2 m, Traversing rate: 2 m/s |
| Flame resistance | 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) |
| | 80 °C (in acc. with UL) |

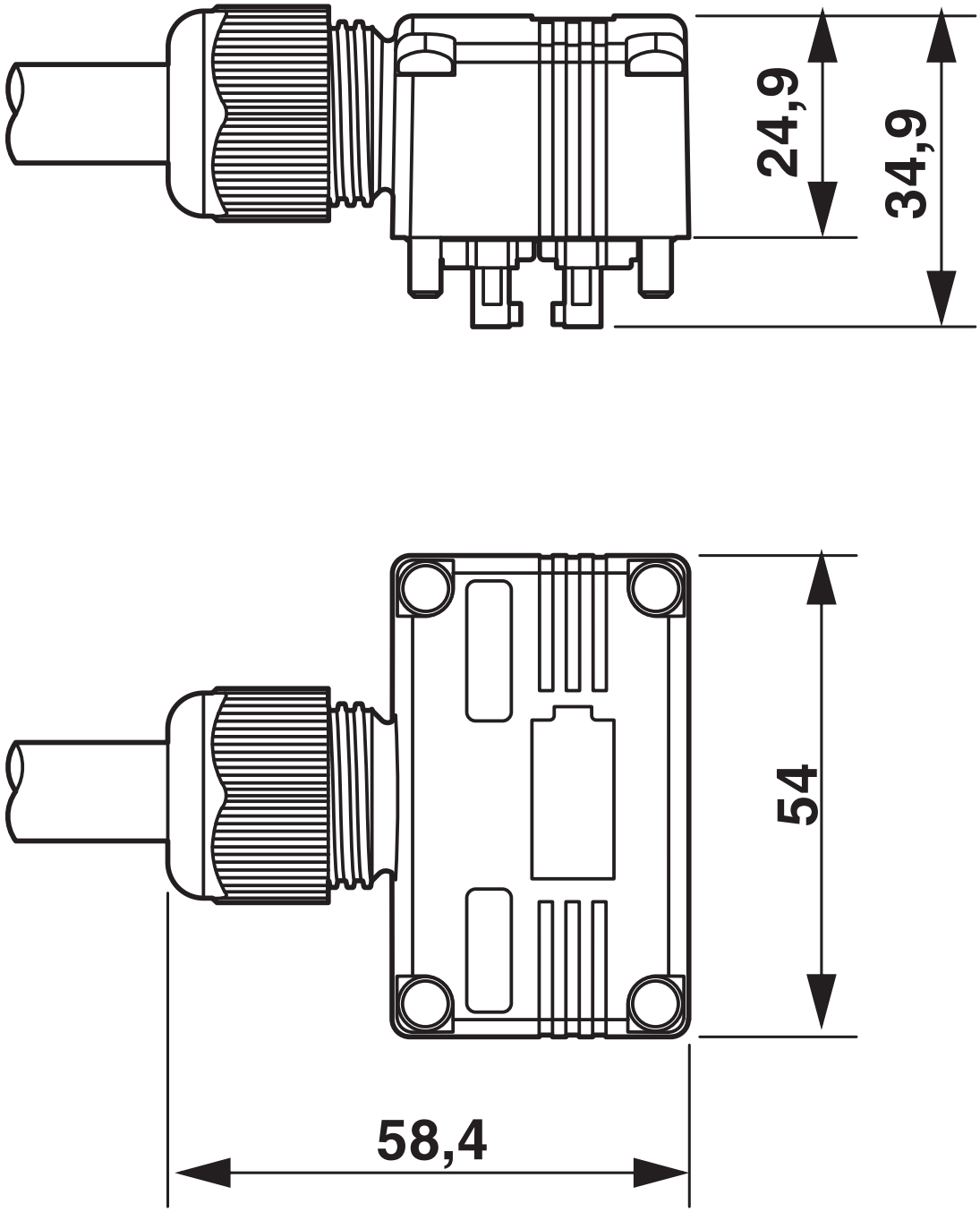
## Environmental and real-life conditions

### Ambient conditions

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

## Drawings

Dimensional drawing



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1453148

**cUL Recognized**
Approval ID: E118976

**UL Recognized**
Approval ID: E118976

**cULus Recognized**
Approval ID: E221474

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 120 V | 10 A | - | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440108 |
| ECLASS-15.0 | 27440108 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002585 |

### UNSPSC

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

## 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 | ebd45ee2-4f0c-4be3-89ed-17197aa99796 |


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