# SACB-C-H180-8/16-12,0PUR SCO - Connector hood

1224764

https://www.phoenixcontact.com/in/products/1224764

PHŒNIX CONTACT

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Connector hood, application: Sensor/actuator box, connection method: M12-SPEEDCON-socket Metal / QUICKON, number of slots: 8, slot assignment: Double, status display: No; master cable connection: Pluggable screw connection 180°, PUR/PVC, cable length: 12 m, shielding: no

## Commercial data

| | |
|---|---|
| Item number | 1224764 |
| Packing unit | 1 pc |
| Minimum order quantity | 20 pc |
| Note | Made to order (non-returnable) |
| Sales key | ***** |
| Product key | AF3CCG |
| GTIN | 4063151317218 |
| Weight per piece (including packing) | 2,526 g |
| Weight per piece (excluding packing) | 2 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

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## 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 | 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

| | |
|---|---|
| Sensor/actuator connection system | M12-SPEEDCON-socket |
| Connection method | Pluggable screw connection |
| Tightening torque, cover screw | 0.35 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 |
| | 1-8 / 5 (PE) = GNYE |

## Signaling

| | |
|---|---|
| Status display present | No |

## Dimensions

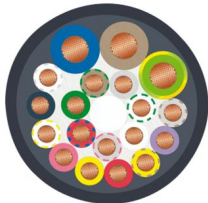| | |
|---|---|
| Width | 58 mm |
| Height | 21 mm |
| Length | 34 mm |

## Material specifications

| | |
|---|---|
| Material Housing | PBT |
| 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 | gold-plated |

## Cable/line

| | |
|---|---|
| Cable length | 12 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 |
| Conductor structure, voltage supply | 56x 0.15 mm |
| AWG power supply | 17 |
| Conductor cross section | 16x 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 | 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 |
| Dynamic load capacity (bending) | Max. bending cycles: 1500000, Bending radius: 10 x D, Traversing path: 2 m, Traversing rate: 2 m/s |
| 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 |
| | IP69K |
| Ambient temperature (operation) | -30 °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 |

## Environmental product compliance

### EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

### China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

### EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

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## Accessories

### SACB-8/16-L-C GG SCO - Header

1516771

https://www.phoenixcontact.com/in/products/1516771

Header, application: Standard, connection method: M12-SPEEDCON-socket Metal, number of slots: 8, number of positions: 5, coding: A, slot assignment: Double, status display: Yes, PNP; master cable connection: Pluggable screw connection, shielding: no

### SACB-16X0,5/ 3X1,0-50,0 PUR - Master cable ring

1503373

https://www.phoenixcontact.com/in/products/1503373

Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 mm$^2$ and 3 x 1.00 mm$^2$, length: 50 m

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## SACB-16X0,5/ 3X1,0-200,0 PUR - Master cable ring

1559893

https://www.phoenixcontact.com/in/products/1559893

Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 $mm^2$ and 3 x 1.00 $mm^2$, length: 200 m on drum

## SACB-16X0,5/ 3X1,0-50,0 VPUR - Master cable ring

1430938

https://www.phoenixcontact.com/in/products/1430938

Master cable for sensor/actuator boxes, with PE conductor, unshielded, material PUR/PP, 19-pos., 16 x 0.50 $mm^2$ and 3 x 1.00 $mm^2$, length: 50 m

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## SACB-16X0,5/ 3X1,0-50,0 80MC - Master cable ring

1402304

https://www.phoenixcontact.com/in/products/1402304

Master cable for sensor/actuator boxes, 19-wire, unshielded, PUR halogen-free, drag chain and robot compatible, black outer sheath, 16 x 0.5 $mm^2$ and 3 x 1.0 $mm^2$

## UC-EM (17,5X9) - Snap-in markers

0827490

https://www.phoenixcontact.com/in/products/0827490

Snap-in markers, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID, BLUEMARK ID COLOR, BLUEMARK CLED, BLUEMARK LED, CMS-P1-PLOTTER, PLOTMARK, mounting type: latching, Number of individual labels: 20, text field height: 9 mm, text field width: 17.5 mm

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https://www.phoenixcontact.com/in/products/1224764

## UC-EM (17,5X9) CUS - Snap-in markers

0828238

https://www.phoenixcontact.com/in/products/0828238

Snap-in markers, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snapped into marker carrier, Number of individual labels: 20, text field height: 9 mm, text field width: 17.5 mm

## UCT-EM (17,5X9) - Snap-in markers

0801491

https://www.phoenixcontact.com/in/products/0801491

Snap-in markers, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: latching, Number of individual labels: 24, text field height: 9 mm, text field width: 17.5 mm

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## UCT-EM (17,5X9) CUS - Snap-in markers

0801575

https://www.phoenixcontact.com/in/products/0801575

UniCard sheet, for labeling devices from other manufacturers, for overview table see download area, labeled according to customer specifications
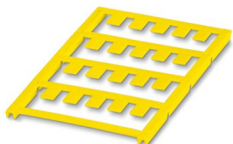
## UC-EM (17,5X9) YE - Snap-in markers

0827494

https://www.phoenixcontact.com/in/products/0827494

Snap-in markers, Sheet, yellow, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: latching, Number of individual labels: 20, text field height: 9 mm, text field width: 17.5 mm

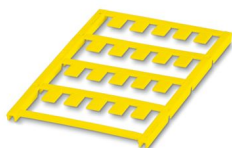# SACB-C-H180-8/16-12,0PUR SCO - Connector hood

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## UC-EM (17,5X9) YE CUS - Snap-in markers

0828239

https://www.phoenixcontact.com/in/products/0828239

Snap-in markers, can be ordered: by sheet, yellow, labeled according to customer specifications, mounting type: snapped into marker carrier, Number of individual labels: 20, text field height: 9 mm, text field width: 17.5 mm

## UCT-EM (17,5X9) YE - Snap-in markers

0801492

https://www.phoenixcontact.com/in/products/0801492

Snap-in markers, Sheet, yellow, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: latching, Number of individual labels: 24, text field height: 9 mm, text field width: 17.5 mm

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## UCT-EM (17,5X9) YE CUS - Snap-in markers

0801576

https://www.phoenixcontact.com/in/products/0801576

UniCard sheet, for labeling devices from other manufacturers, for overview table see download area, labeled according to customer specifications

## SZK PZ1 VDE - Screwdriver

1206450

https://www.phoenixcontact.com/in/products/1206450

Screwdriver, PZ crosshead, VDE insulated, size: PZ 1 x 80 mm, 2-component grip, with non-slip grip

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## TSD 25 SAC - Torque screwdriver

1212315

https://www.phoenixcontact.com/in/products/1212315

Torque screwdriver, with preset torque of 2.5 Nm and 4 mm hexagonal drive for the pressure nut of the connector hood

## TSD-M 1,2NM - Torque screwdriver

1212224

https://www.phoenixcontact.com/in/products/1212224

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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## TSD-M 3NM - Torque screwdriver

1212225

https://www.phoenixcontact.com/in/products/1212225

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 1. 2 - 3 Nm

## SAC BIT HOOD-W 24 - Tool

1212486

https://www.phoenixcontact.com/in/products/1212486

Nut for assembling pressure nuts with 24 mm wrench size, for 4 mm hexagonal drive

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## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

https://www.phoenixcontact.com/in/products/1212600

Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

## SF-BIT-PZ 1-50 - Screw insert

1212591

https://www.phoenixcontact.com/in/products/1212591

Screw bit, PZ crosshead, E6.3-1/4" drive, size: PZ 1 x 50 mm, hardened, suitable for holder according to DIN 3126-F6.3/ISO 1173