

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



1516616

<https://www.phoenixcontact.com/us/products/1516616>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Connector hood, application: Sensor/actuator box, connection method: M12 socket Metal, 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	1516616
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF42
Product key	AF3CCG
GTIN	4017918967406
Weight per piece (including packing)	904 g
Weight per piece (excluding packing)	834.5 g
Customs tariff number	85444290
Country of origin	DE

1516616

<https://www.phoenixcontact.com/us/products/1516616>

## Technical data

### Notes

Assembly note	<b>NOTE:</b> 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
LED	no

### 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	0.35 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

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



1516616

<https://www.phoenixcontact.com/us/products/1516616>

## Signaling

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

## Dimensions

Width	58 mm
Height	21 mm
Length	34 mm

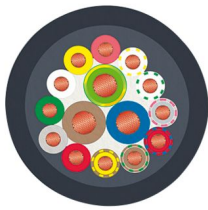
## Material specifications

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	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 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	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

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



1516616

<https://www.phoenixcontact.com/us/products/1516616>

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
	IP69K
Ambient temperature (operation)	-30 °C ... 80 °C

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



1516616

<https://www.phoenixcontact.com/us/products/1516616>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1516616>



**cUL Recognized**  
Approval ID: E118976



**UL Recognized**  
Approval ID: E118976

1516616

<https://www.phoenixcontact.com/us/products/1516616>

## Classifications

### ECLASS

ECLASS-13.0	27440108
ECLASS-15.0	27440108

### ETIM

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

### UNSPSC

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

1516616

<https://www.phoenixcontact.com/us/products/1516616>

## 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	38679642-2838-43ca-a1cd-14ac21533c84

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)