

# SACB-C-H180-8/16-20,0PUR SCO P - Connector hood



1097653

<https://www.phoenixcontact.com/us/products/1097653>

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-SPEEDCON-socket Plastic, number of slots: 8, slot assignment: Double, status display: No; master cable connection: Pluggable screw connection 180°, PUR/PVC, cable length: 20 m, shielding: no

## Commercial data

Item number	1097653
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF41
Product key	BF3CBG
GTIN	4055626939599
Weight per piece (including packing)	4,135.7 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	DE

# SACB-C-H180-8/16-20,0PUR SCO P - Connector hood



1097653

<https://www.phoenixcontact.com/us/products/1097653>

## 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	

# SACB-C-H180-8/16-20,0PUR SCO P - Connector hood



1097653

<https://www.phoenixcontact.com/us/products/1097653>

1-8 / 5 (PE) = GNYE

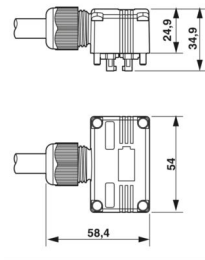
## Signaling

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

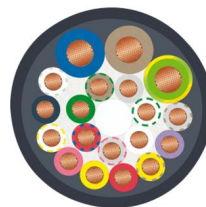
## Cable/line

Cable length

20 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

# SACB-C-H180-8/16-20,0PUR SCO P - Connector hood



1097653

<https://www.phoenixcontact.com/us/products/1097653>

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

# SACB-C-H180-8/16-20,0PUR SCO P - Connector hood



1097653

<https://www.phoenixcontact.com/us/products/1097653>

## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

# SACB-C-H180-8/16-20,0PUR SCO P - Connector hood



1097653

<https://www.phoenixcontact.com/us/products/1097653>

## 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"

Phoenix Contact 2024 © - 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)