

# SACCBP-FS-12CON-M16/2,0-PVCSCOX - Device connector rear mounting



1239766

<https://www.phoenixcontact.com/in/products/1239766>

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Device connector rear mounting, Universal, 12-position, PVC/PVC, black RAL 9005, shielded, Socket, straight, M12-SPEEDCON, coding: A, on free cable end, Rear mounting, M16 x 1.5, Cable connection, cable length: 2 m, 0.14 mm<sup>2</sup>, PVC black, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- Preassembled with cables in various standard lengths for immediate use
- Customer-specific assemblies and cable lengths can be supplied
- Sealed on the cable side for optimum tightness of seal
- For high transmission safety: shield connection to the housing with optional EMC nut

## Commercial data

Item number	1239766
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABQDGG
GTIN	4063151395513
Weight per piece (including packing)	161.5 g
Weight per piece (excluding packing)	161.5 g
Country of origin	DE

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## Technical data

### Notes

Notes on operation	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
Order information:	Lock nut is included in the scope of delivery

### Mounting

Mounting type	Rear mounting M16 x 1.5 Thread with flat nut
Assembly note	Thread with flat nut

### Product properties

Product type	Circular connectors (device side)
Sensor type	Universal
Number of positions	12
No. of cable outlets	1
Shielded	yes
Coding	A
Thread type	M12

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Outer sheath, material	PVC
Conductor material	Tin-plated Cu litz wires

### Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	30 V
Nominal current $I_N$	1.5 A

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Max. conductor resistance	142 $\Omega$ /km
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## Connection data

### Conductor connection

Connection method	Cable connection
Contact connection type	Socket
Conductor cross section	6x 2x 0.14 mm <sup>2</sup>
Tightening torque	3 Nm ... 4 Nm (Installation-side)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Connector

### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	A

### Connection 2

Head design	free cable end
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## Cable/line

Cable length	2 m
Cable type	PVC black
Short symbol	PVC
Signal type/category	Universal
External cable diameter	7.00 mm $\pm$ 0.03 mm
Outer sheath, material	PVC
External sheath, color	black RAL 9005
Wire diameter incl. insulation	1 mm $\pm$ 0.05 mm
Single wire, color	white-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue
Cable cross section	6x 2x 0.14 mm <sup>2</sup>
Material, inner sheath	PVC
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	18x 0.10 mm
Material wire insulation	PVC
Thickness, insulation	0.21 mm
Overall twist	Six pairs around the filler to the core

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Shielding	Tinned copper braided shield
Optical shield covering	85 %
Nominal voltage, cable	300 V
Test voltage, cable	1500 V AC
Cable resistance	142 Ω/km (at 20 °C)
Smallest bending radius, fixed installation	42 mm
Smallest bending radius, movable installation	105 mm
Resistance to oil	in accordance with DIN EN 60811-404
Flame resistance	IEC 60332-1-2, IEC 60332-1, FT1, VW-1
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67 (When plugged in)
	IP65 (When plugged in)
	IP65/IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
	-25 °C ... 85 °C (Cable, flexible installation)
	-40 °C ... 85 °C (cable, fixed installation)
Resistance to oil	in accordance with DIN EN 60811-404
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

Flame resistance	IEC 60332-1-2, IEC 60332-1, FT1, VW-1
Resistance to oil	in accordance with DIN EN 60811-404
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

# SACCBP-FS-12CON-M16/2,0-PVCSCOX - Device connector rear mounting

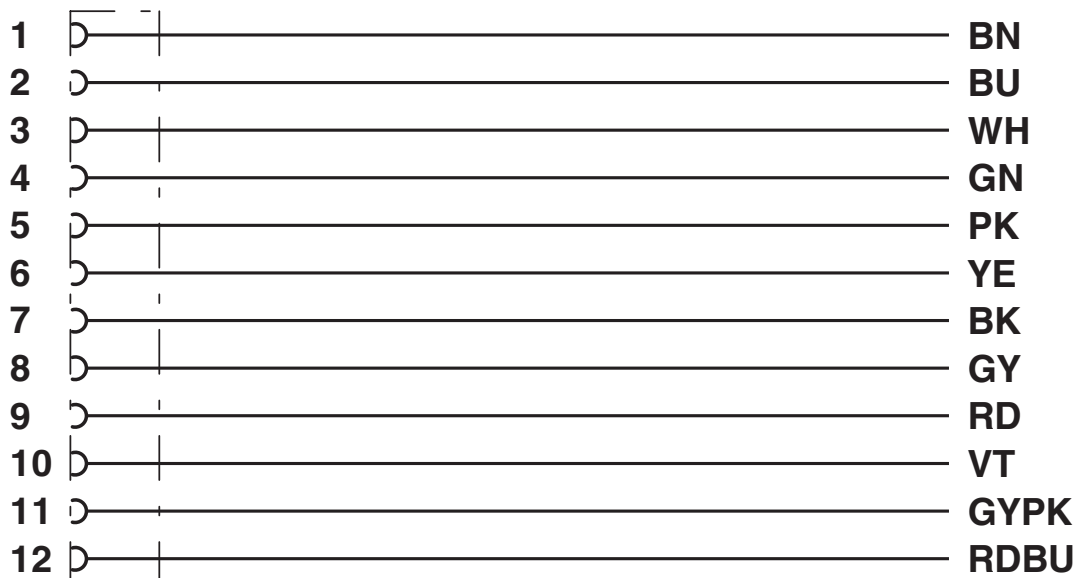


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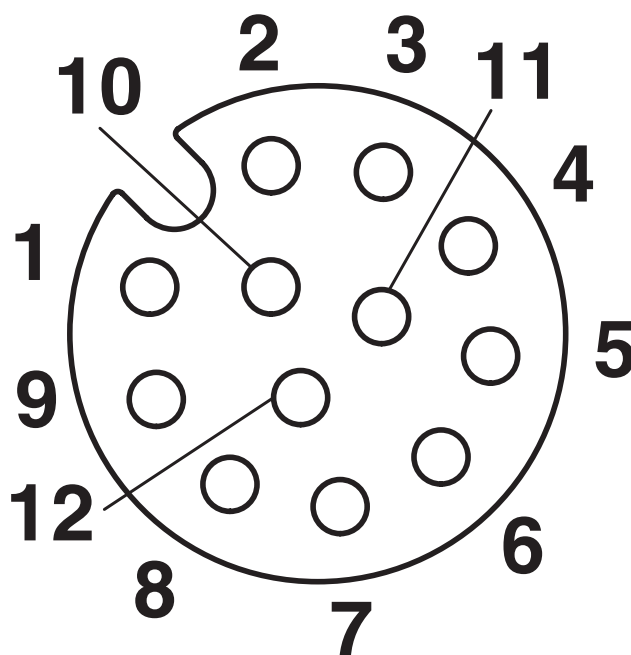
## Drawings

Circuit diagram



Contact assignment of the M12 socket

Schematic diagram



Pin assignment M12 socket, 12-pos., A-coded, view female side

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## Approvals

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	<b>cUL Recognized</b> Approval ID: E221474-20220907			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	30 V	1.5 A	-	-

	<b>UL Recognized</b> Approval ID: E221474-20220907			
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	30 V	1.5 A	-	-

<b>cULus Recognized</b>				
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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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## 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

### SACC-M16-SEALING PLUG SETX - Screw plug

1239800

<https://www.phoenixcontact.com/in/products/1239800>



Screw plug, Rear mounting, M16 x 1.5, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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### PROT-M12 - Screw plug

1680539

<https://www.phoenixcontact.com/in/products/1680539>



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

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## PROT-M12 SH - Screw plug

1503302

<https://www.phoenixcontact.com/in/products/1503302>



An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

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## PROT-M12 FB - Screw plug

1555538

<https://www.phoenixcontact.com/in/products/1555538>



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

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## SACC-M16-SEAL CLM - Flat gasket

1430394

<https://www.phoenixcontact.com/in/products/1430394>

M16 flat gasket for M12 flush-type connectors with M16 fastening thread



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