

# SACCBP-FS-17CON-M16/1,0-PVCSCO - Device connector rear mounting



1442269

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Device connector rear mounting, Universal, 17-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: 1 m, 0.14 mm<sup>2</sup>, PVC black, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239769

## 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	1442269
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	ABQDGG
Catalog page	Page 51 (C-2-2019)
GTIN	4046356533416
Weight per piece (including packing)	108.6 g
Weight per piece (excluding packing)	105 g
Customs tariff number	85444290
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	17
No. of cable outlets	1
Shielded	yes
Coding	A
Thread type	M12

### Data management status

Article revision	09
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### 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	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ

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Nominal voltage $U_N$	30 V
Nominal current $I_N$	1.5 A
Max. conductor resistance	142 $\Omega$ /km

## Connection data

### Conductor connection

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

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
Max. bending cycles	2000000

## 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	1 m
Cable type	PVC black
Short symbol	PVC
Signal type/category	Universal
External cable diameter	9.20 mm
Outer sheath, material	PVC
External sheath, color	black RAL 9005
Wire diameter incl. insulation	1.1 mm $\pm$ 0.05 mm
Single wire, color	white-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue, white/green-brown/green, white/yellow-yellow/brown-white/gray
Cable cross section	0.14 mm <sup>2</sup>
Material, inner sheath	PVC
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.16 mm

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AWG signal line	26
Material wire insulation	PVC
Thickness, insulation	0.21 mm
Overall twist	Eight pairs around the filler to the core
Shielding	Tinned copper braided shield
Optical shield covering	85 %
Cable resistance	142 Ω/km
Number of bending cycles	2000000
Bending radius	92 mm
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s <sup>2</sup>
Resistance to oil	DIN VDE 0472 Part 803, test type B
Flame resistance	DIN VDE 0472 part 804, test type B
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	DIN VDE 0472 Part 803, test type B

## Standards and regulations

Flame resistance	DIN VDE 0472 part 804, test type B
Resistance to oil	DIN VDE 0472 Part 803, test type B
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10

### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

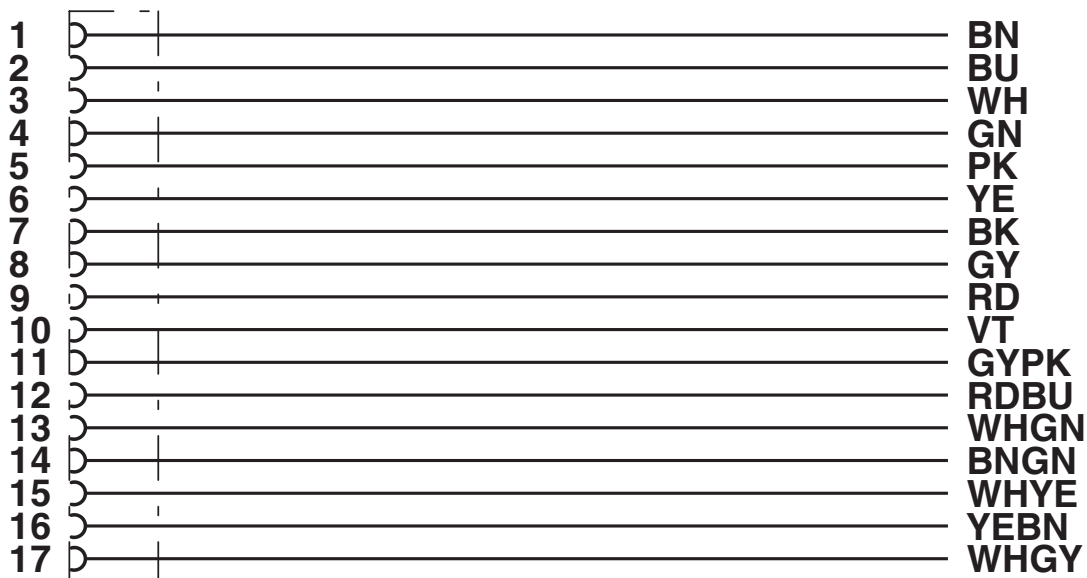
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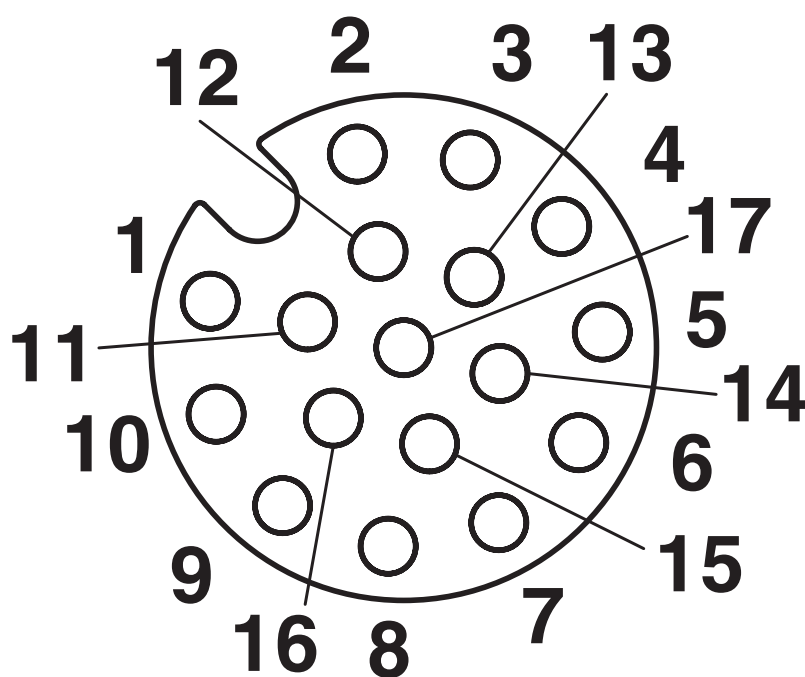
## Drawings

Circuit diagram



Contact assignment of the M12 socket

Schematic diagram



Pin assignment of M12 socket, 17-pos., A-coded, view of socket side

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## Approvals

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	<b>cUL Recognized</b> Approval ID: E221474-20220907			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	30 V	1.5 A	-	-

	<b>UL Recognized</b> Approval ID: E221474-20220907			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
	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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### UNSPSC

UNSPSC 21.0	39121400
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## 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	008b0eaf-a6af-4db4-a43d-0147994803d3

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