

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



1442191

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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, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239766

## 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	1442191
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB25
Product key	ABQDGG
Catalog page	Page 51 (C-2-2019)
GTIN	4046356533393
Weight per piece (including packing)	162.5 g
Weight per piece (excluding packing)	161.6 g
Customs tariff number	85444290
Country of origin	DE

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## Technical data

### Notes

General	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.
General	Lock nut is included in the scope of delivery

### Mounting

Mounting type	Rear mounting M16 x 1.5 Thread with flat nut
Assembly instructions	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	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage $U_N$	30 V
Nominal current $I_N$	1.5 A

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Max. conductor resistance	142 Ω/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 ±0.03 mm
Outer sheath, material	PVC
External sheath, color	black RAL 9005
Wire diameter incl. insulation	1 mm ±0.05 mm
Single wire, color	white-brown, green-yellow, gray-pink, blue-red, black-violet, gray/pink-red/blue
Cable cross section	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

## 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

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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

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"

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