# SACC-E-FS-12CON-M16/1,0 SCO - Device connector front mounting



1401030

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Device connector front mounting, Universal, 12-position, Socket, straight, M12-SPEEDCON, coding: A, on free cable end, Front mounting, M16 x 1.5, Individual wires, cable length: 1 m, 0.14  $mm^2$ , TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238659

## Your advantages

- · Preassembled with litz wires for immediate use
- · Customer-specific assemblies and litz wire lengths available
- · Sealed on the litz wire side for optimum leak-tightness
- · All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- · For high transmission safety: shield connection to the housing with optional EMC nut
- · SPEEDCON fast locking system reduces cabling times

## Commercial data

Item number	1401030
Packing unit	1 pc
Minimum order quantity	50 рс
Product key	ABQCFB
GTIN	4046356517409
Weight per piece (including packing)	41 g
Weight per piece (excluding packing)	41 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.
General	Contact connection method: Crimp connection

#### Mounting

Mounting type	Front mounting M16 x 1.5

## **Product properties**

Product type	Circular connectors (device side)
Application	Signal
Sensor type	Universal
Number of positions	12
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12
Data management status	
Article revision	07
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3
laterial specifications	
Flammability rating according to UL 94	V0
Seal material	FKM
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuZn
Contact surface material	Ni/Au

Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
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 <sub>N</sub>	30 V (AC)
	30 V (DC)
Nominal current I <sub>N</sub>	1.5 A
Max. conductor resistance	57.6 mΩ/m

#### Connection data

Conductor connection	
Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	0.14 mm²
Tightening torque	3 Nm 4 Nm (Installation-side)

## Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	> 100

#### Connector

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

 Head design
 free cable end

### Cable/line

Cable length	1 m
Cable type	TPE litz wire
Signal type/category	Universal
Wire diameter incl. insulation	1.1 mm ±0.05 mm
Single wire, color	brown, blue, white, green, pink, yellow, black, gray, red, violet, gray/pink, red/blue
Cable cross section	0.14 mm <sup>2</sup>
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.16 mm
AWG signal line	26
Material wire insulation	TPE
Thickness, insulation	0.21 mm (Core insulation)
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC



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Cable resistance	≤ 57.6 mΩ/m
Cable insulation resistance	≥ 20 MΩ*km
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	
	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)	

#### Standards and regulations

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

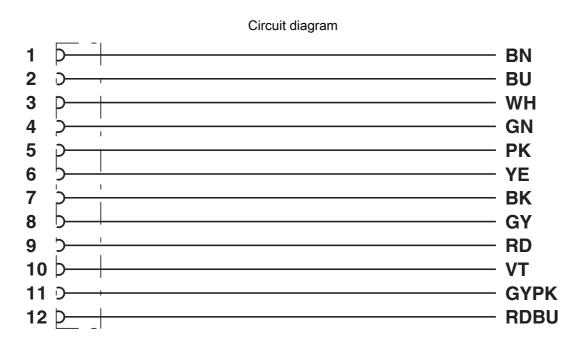
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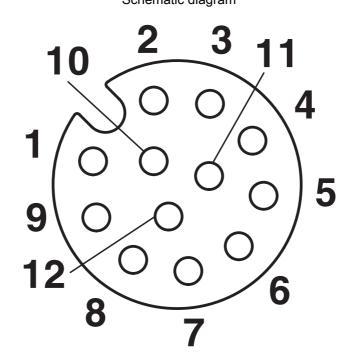
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Drawings



Schematic diagram



Pin assignment M12, 12-pos., female side view



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# Approvals

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<b>91</b>	Approval ID: E118976-20100522				
		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	26 - 26	-

c <b>91</b> .us	CULus Recognized Approval ID: E221474-20140616				
		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	26 - 26	-



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# Classifications

## ECLASS

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 8.0	EC002635	
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 "Manufacture 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	db760559-80ca-4af5-a0be-331848e9430a

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