## SACC-SQ-M12MS-8CON-20/0,5 - Device connector front mounting



1441684

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Device connector front mounting, 8-position, Pin, straight, M12, coding: A, on free cable end, Front mounting, Square flange, Individual wires, cable length: 0.5 m,  $0.25 \text{ mm}^2$ , TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239727

### 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	1441684
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCED
Catalog page	Page 42 (C-2-2019)
GTIN	4046356533027
Weight per piece (including packing)	24.3 g
Weight per piece (excluding packing)	23.8 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	Contact connection method: Crimp connection

#### Mounting

Mounting type	Front mounting Square flange 20 mm side length
Assembly instructions	20 mm side length

#### **Product properties**

Product type	Circular connectors (device side)
Number of positions	8
Application	Signal
Shielded	no
Coding	A
Thread type	M12
Insulation characteristics	
Overvoltage category	П

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#### Material specifications

Degree of pollution

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 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
Nominal voltage U <sub>N</sub>	30 V
Nominal current I <sub>N</sub>	2 A
Max. conductor resistance	57.6 mΩ/m



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#### Connection data

Conductor connection	
Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	0.25 mm <sup>2</sup>
Tightening torque	3 Nm 4 Nm (Installation-side)
Mechanical properties Mechanical data	
Insertion/withdrawal cycles	> 100
Connector Connection 1	
Head design	Pin
Head cable outlet	straight
Head thread type	M12
Coding	A

	Head design	free cable end
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#### Cable/line

Cable length	0.5 m
Cable type	TPE litz wire
Wire diameter incl. insulation	1.15 mm ±0.07 mm
Single wire, color	brown, blue, white, gray, pink, green, yellow, red
Cable cross section	0.25 mm <sup>2</sup>
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	14x 0.15 mm
AWG signal line	24
Material wire insulation	TPE
Thickness, insulation	0.21 mm (Core insulation)
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
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

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Degree of protection	IP67
	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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### Classifications

#### ECLASS

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 9.0	EC002635	
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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