SACC-SQ-M12MS-4CON-25F/0,5 - Device connector front mounting



1419991

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Device connector front mounting, 4-position, Pin, straight, M12, coding: A, on free cable end, Front mounting, Square flange, Individual wires, cable length: 0.5 m, 0.34 mm^2 , TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239290

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	1419991
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCED
Catalog page	Page 43 (C-2-2019)
GTIN	4046356533812
Weight per piece (including packing)	34.2 g
Weight per piece (excluding packing)	23.1 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
afety note	
Safety note	WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.
	WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible.
	WARNING: Only electrically qualified personnel may install an operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicate that only personnel familiar with electrical engineering are allowed to install and operate the product.
	• The products are suitable for applications in plant, controller, and electrical device engineering.
	 When operating the connectors in outdoor applications, they must be separately protected against environmental influences
	 Assembled products may not be manipulated or improperly opened.
	 Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
	When using the product in direct connection with third-party manufacturers, the user is responsible.
	 For operating voltages > 50 V AC, conductive connector housings must be grounded
	 Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
	Observe the corresponding technical data. You will find information: o On the product o On the packing label o In the supplied documentation o Online at phoenixcontact.com/products under the product
	Only use tools recommended by Phoenix Contact
	 Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory



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section of the product at phoenixcontact.com/products

• Ensure that the protective or functional ground has been properly connected.

 \bullet VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector

• The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).

Mounting

Mounting type	Front mounting Square flange 25 mm side length
Assembly instructions	25 mm side length

Product properties

Product type	Circular connectors (device side)
Number of positions	4
Application	Signal
No. of cable outlets	1
Shielded	no
Coding	A
Thread type	M12
Insulation characteristics	
Overvoltage category	II

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Material specifications

Overvoltage category Degree of pollution

Material	Zinc die-cast, nickel-plated
Flammability rating according to UL 94	VO
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	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	250 V (AC)
	250 V (DC)

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Nominal curre	nt I _N	4 A
Max. conducto	or resistance	57.6 mΩ/m
Connection data	-	
Connection data	a	
Conductor conne	ection	
Connection m	ethod	Individual wires
Contact conne	ection type	Pin
Conductor cro	oss section	0.34 mm ²
Tightening tor	que	3 Nm 4 Nm (Installation-side)
Mechanical prop	perties	
Mechanical data		
Insertion/witho	drawal cycles	> 100
Composito		
Connector		
Connection 1		
Head design		Pin
Head cable ou	utlet	straight
Head thread t	уре	M12
Coding		А
Connection 2		
Head design		free cable end
neau design		
Cable/line		
Cable length		0.5 m
Cable type		TPE litz wire
Wire diameter	incl. insulation	1.2 mm ±0.07 mm
Single wire, co	blor	brown, white, blue, black
Cable cross se	ection	0.34 mm²
Conductor ma	iterial	Tin-plated Cu litz wires
Conductor stru	ucture signal line	7x 0.25 mm
AWG signal lin	ne	22
Material wire i	nsulation	TPE
Thickness, ins	sulation	0.21 mm (Core insulation)
Nominal voltag	ge, cable	300 V
Test voltage, o	cable	2000 V AC
Cable resistar	nce	≤ 57.6 mΩ/m
		≥ 20 MΩ*km
Cable insulation	on resistance	
	erature (operation)	-40 °C 85 °C (cable, fixed installation)



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Environmental and real-life conditions

Ambient conditions

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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com