

SACC-SQ-M12FS-8CON-20-L180 - Device connector front mounting



1408573
<https://www.phoenixcontact.com/us/products/1408573>

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Device connector front mounting, Universal, 8-position, Socket, straight, M12-SPEEDCON, coding: A, Front mounting/square flange, Wave soldering, 0.25 mm², this item is undergoing a smooth changeover, lead-free alternative in accordance with RoHS II without exception 6c (Pb < 0.1%) possible on request in advance

Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- Standard pin assignments for signal and power transmission with a uniform design-in design
- SPEEDCON fast locking system reduces cabling times

Commercial data

Item number	1408573
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AB26
Product key	ABQEHK
Catalog page	Page 240 (C-2-2013)
GTIN	4046356826464
Weight per piece (including packing)	13 g
Weight per piece (excluding packing)	9.889 g
Customs tariff number	85366990
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.
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Mounting

Mounting type	Front mounting/square flange 20 mm side length
Assembly note	20 mm side length

Product properties

Product type	Circular connectors (device side)
Sensor type	Universal
Number of positions	8
No. of cable outlets	1
Shielded	yes
Coding	A
Thread type	M12

Insulation characteristics

Overvoltage category	III
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, tin-plated

Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V
Nominal current I_N	2 A
Max. conductor resistance	57.6 m Ω /m

Connection data

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Conductor connection

Connection method	Wave soldering
Contact connection type	Socket
Conductor cross section	0.25 mm ²
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

Cable/line

Signal type/category	Universal
Wire diameter incl. insulation	1.15 mm ±0.07 mm
Cable cross section	0.25 mm ²
Conductor structure signal line	14x 0.15 mm
Thickness, insulation	0.21 mm
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

Degree of protection	IP20
	IP20
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)
UL Type Rating	Type 4 (indoor use only)

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Standards and regulations

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

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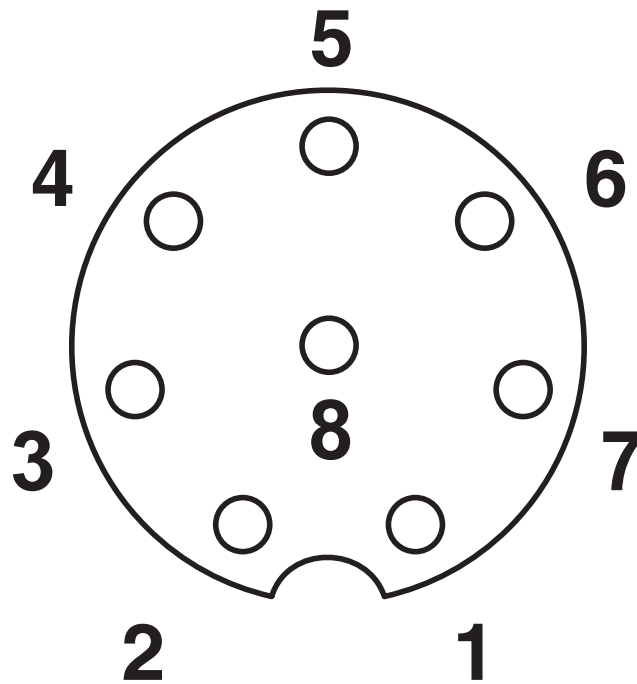


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Drawings

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side


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Approvals

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	UL Recognized			
	Approval ID: E118976-20100522			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG
		30 V	2 A	24
				Cross section mm ²
				-

	cULus Recognized			
	Approval ID: E221474-20140616			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG
		30 V	2 A	-
				Cross section mm ²
				-

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Classifications

ECLASS	
ECLASS-13.0	27440110
ETIM	
ETIM 9.0	EC003568
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	2a6d423f-0f3c-4307-bdb0-f402f32a2691

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