

# 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, A-coding, Wave soldering, 0.25 mm<sup>2</sup>, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## 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
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)
Tightening torque	3 Nm ... 4 Nm (Installation-side)

### Product properties

Product type	Circular connectors (device side)
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

Material Housing	GD-Zn
Material Housing surface	Sn
Material Contact carrier	PA 6.6
Material Contact	CuZn
Material Contact surface	Au
Material Seal	NBR
Flammability rating according to UL 94	V0

### Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage $U_N$	30 V
Nominal current $I_N$	2 A
Max. conductor resistance	57.6 mΩ/m

### Connection data

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## Conductor connection

Connection method	Wave soldering
Contact connection type	Socket
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
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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 <sup>2</sup>
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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C -40 °C ... 85 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

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

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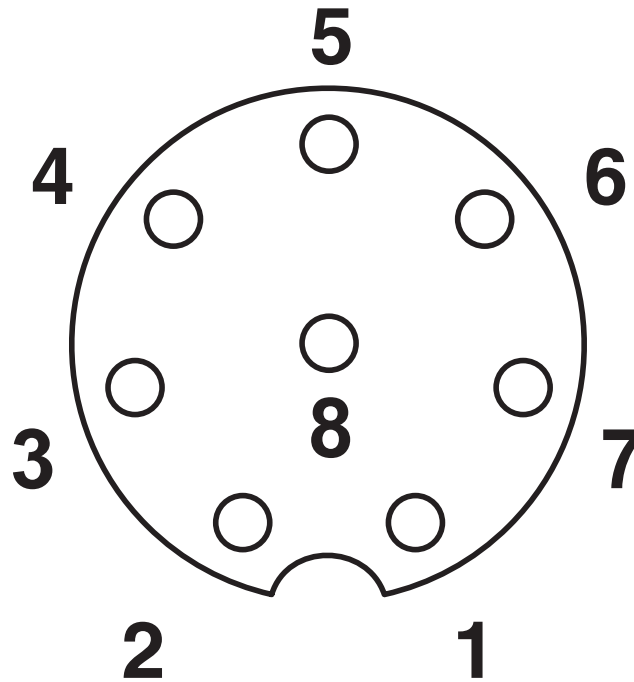


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## Drawings

Schematic diagram



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

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## Approvals

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 <b>UL Recognized</b> Approval ID: E118976-20100522				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	30 V	2 A	24	-

 <b>cULus Recognized</b> Approval ID: E221474-20140616				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	30 V	2 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440110
ECLASS-15.0	27440110

### ETIM

ETIM 10.0	EC003568
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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