

# SACC-SQ-M12MS-8CON-20-L180 - Device connector front mounting



1408574

<https://www.phoenixcontact.com/us/products/1408574>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device connector front mounting, Universal, 8-position, Pin, straight, M12, coding: A, Front mounting, Square flange, Wave soldering, 0.25 mm<sup>2</sup>

## 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	1408574
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	AB26
Product key	ABQEGK
Catalog page	Page 240 (C-2-2013)
GTIN	4046356826457
Weight per piece (including packing)	11.34 g
Weight per piece (excluding packing)	11.33 g
Customs tariff number	85366990
Country of origin	DE

# SACC-SQ-M12MS-8CON-20-L180 - Device connector front mounting



1408574

<https://www.phoenixcontact.com/us/products/1408574>

## 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.
---------	--

### 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)
Sensor type	Universal
Number of positions	8
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 $\Omega$ /m

### Connection data

Conductor connection

# SACC-SQ-M12MS-8CON-20-L180 - Device connector front mounting



1408574

<https://www.phoenixcontact.com/us/products/1408574>

Connection method	Wave soldering
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

## 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
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)

## Standards and regulations

### M12

Standard designation	M12 connector
----------------------	---------------

# SACC-SQ-M12MS-8CON-20-L180 - Device connector front mounting



1408574

<https://www.phoenixcontact.com/us/products/1408574>

Standards/specifications

IEC 61076-2-101

# SACC-SQ-M12MS-8CON-20-L180 - Device connector front mounting





1408574

<https://www.phoenixcontact.com/us/products/1408574>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1408574>

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

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

# SACC-SQ-M12MS-8CON-20-L180 - Device connector front mounting



1408574

<https://www.phoenixcontact.com/us/products/1408574>

## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# SACC-SQ-M12MS-8CON-20-L180 - Device connector front mounting



1408574

<https://www.phoenixcontact.com/us/products/1408574>

## 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	0dd4581b-d8dd-4c98-8f2f-7a10ff95ecf1

# SACC-SQ-M12MS-8CON-20-L180 - Device connector front mounting



1408574

<https://www.phoenixcontact.com/us/products/1408574>

## Accessories

### PROT-M12 FS - Sealing cap

1560251

<https://www.phoenixcontact.com/us/products/1560251>



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

---

### PROT-M12 FS-M - Sealing cap

1430488

<https://www.phoenixcontact.com/us/products/1430488>



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

---

Phoenix Contact 2024 © - all rights reserved  
<https://www.phoenixcontact.com>

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