

1557581  
<https://www.phoenixcontact.com/us/products/1557581>

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.



Contact carrier, 8-position, Pin, straight, M12, A-coding, THR solder connection, this item is expected to be lead-free from Q1 2027 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

Your advantages

- Reduced mounting costs thanks to two-piece device connector
- Packaging available for automated pick and place assembly
- All common pin assignments and codings available
- Easy device integration thanks to mechanical port screw connections with threaded attachment, press-in contour or direct integration in the front plate
- Additional gasket for the device when not plugged in

Commercial data

Item number	1557581
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGA
GTIN	4046356284882
Weight per piece (including packing)	5.013 g
Weight per piece (excluding packing)	2.573 g
Customs tariff number	85366990
Country of origin	DE

# SACC-CI-M12MS-8CON-L180-THR SH - Contact carrier



1557581

<https://www.phoenixcontact.com/us/products/1557581>

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

### Product properties

Product type	Contact insert
Application	Signal
Number of positions	8
Seal present	yes
Shielded	yes
Coding	A
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### 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

### Connection data

Connection method	THR solder connection
-------------------	-----------------------

### Material specifications

Material Contact carrier	PA 6.6
Material Contact	CuZn
Material Contact surface	Au
Material Seal	FKM / EPDM
Flammability rating according to UL 94	V0

### Connector

#### Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M12

# SACC-CI-M12MS-8CON-L180-THR SH - Contact carrier



1557581

<https://www.phoenixcontact.com/us/products/1557581>

Coding	A
--------	---

## Cable/line

Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (Cable, flexible installation)

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
-----------------------------	-------

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (when plugged in)	IP67 (correctly plugged in and locked)
Degree of protection	IP67 (correctly plugged in and locked)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
Ambient temperature (operation) (Cable, flexible installation)	-25 °C ... 85 °C (Cable, flexible installation)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 85 °C (cable, fixed installation)

## Standards and regulations

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

## Packaging specifications

Type of packaging	Tray
-------------------	------

# SACC-CI-M12MS-8CON-L180-THR SH - Contact carrier

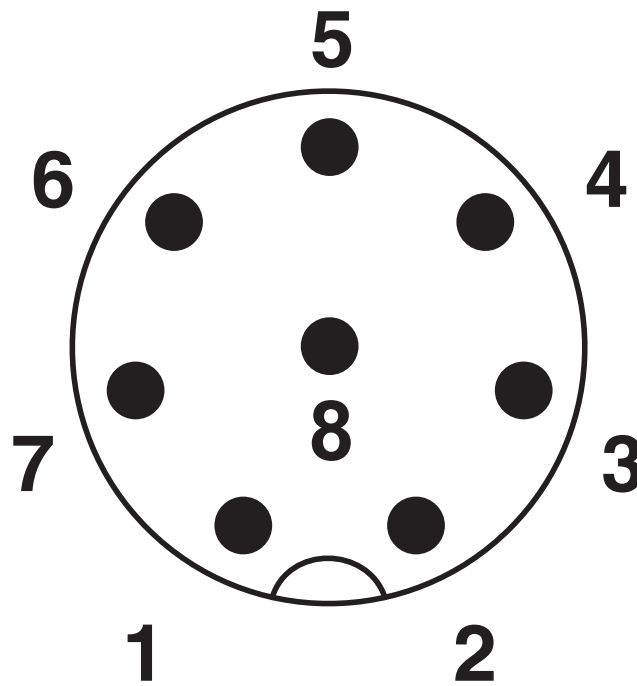


1557581

<https://www.phoenixcontact.com/us/products/1557581>

## Drawings

Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side


# SACC-CI-M12MS-8CON-L180-THR SH - Contact carrier



1557581  
<https://www.phoenixcontact.com/us/products/1557581>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1557581>

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

# SACC-CI-M12MS-8CON-L180-THR SH - Contact carrier



1557581  
<https://www.phoenixcontact.com/us/products/1557581>

## Classifications

### ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

### ETIM

ETIM 9.0	EC003568
----------	----------

### UNSPSC

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

# SACC-CI-M12MS-8CON-L180-THR SH - Contact carrier



1557581  
<https://www.phoenixcontact.com/us/products/1557581>

## Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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%

Phoenix Contact 2025 © - 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)