

# SACC-CIP-M12FS-12P SMD SH R32 - Contact carrier



1412009

<https://www.phoenixcontact.com/us/products/1412009>

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, 12-position, Socket, straight, M12, A-coding, SMD reflow, 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	1412009
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	AB23
Product key	ABQBGH
GTIN	4046356992824
Weight per piece (including packing)	6.02 g
Weight per piece (excluding packing)	3.13 g
Customs tariff number	85366990
Country of origin	DE

## 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	12
No. of control contacts	12
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 $I_N$	1.5 A

### Connection data

Connection method	SMD reflow
-------------------	------------

### Material specifications

Material Insulating body	PA
Material Contact	CuZn
Material Contact surface	Au
Material Seal	FKM
Flammability rating according to UL 94	V0

### Connector

#### Connection 1

Head design	Socket
Head cable outlet	straight

1412009

<https://www.phoenixcontact.com/us/products/1412009>

Head thread type	M12
Coding	A

## 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 ... 105 °C -40 °C ... 105 °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

## Packaging specifications

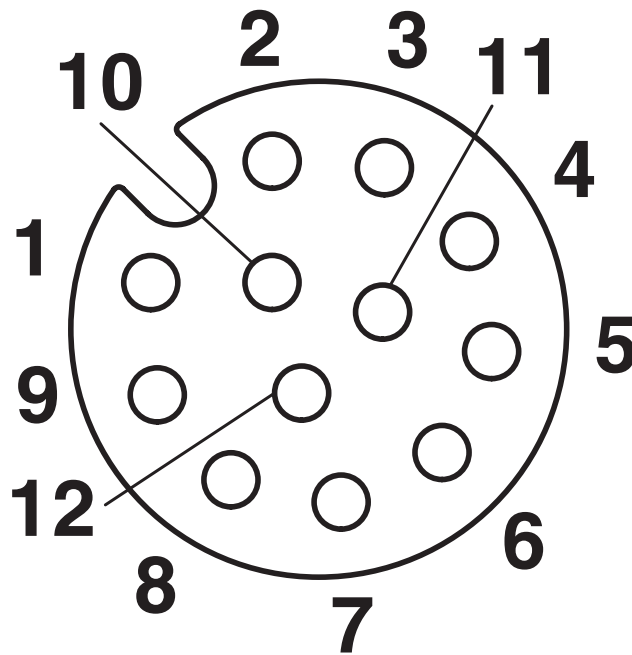
Type of packaging	Belt
-------------------	------

1412009

<https://www.phoenixcontact.com/us/products/1412009>

## Drawings

Schematic diagram



Pin assignment M12 socket, 12-pos., A-coded, view female side

# SACC-CIP-M12FS-12P SMD SH R32 - Contact carrier



1412009

<https://www.phoenixcontact.com/us/products/1412009>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1412009>

 <b>cULus Recognized</b> Approval ID: E221474-20160506		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine					
		30 V	1.5 A	-	-

1412009

<https://www.phoenixcontact.com/us/products/1412009>

## Classifications

### ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

### ETIM

ETIM 10.0	EC003557
-----------	----------

### UNSPSC

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

1412009

<https://www.phoenixcontact.com/us/products/1412009>

## 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	d38b247a-09f4-462b-b4eb-d501524f9a68

Phoenix Contact 2026 © - 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)