

# SACC-CIP-M12MS-4P SMD SH-SP - Sample set



1418642

<https://www.phoenixcontact.com/us/products/1418642>

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.

Sample set, 4-position, Pin, straight, M12, A-coding, SMD reflow



## Commercial data

Item number	1418642
Packing unit	5 pc
Minimum order quantity	5 pc
Sales key	NULL
Product key	ABQXAA
GTIN	4055626162959
Weight per piece (including packing)	7.69 g
Weight per piece (excluding packing)	3.343 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
Number of positions	4
Seal present	yes
Shielded	yes
Coding	A
Thread type	M12

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	250 V
Nominal current $I_N$	4 A

### Connection data

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

### Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA

### Connector

#### Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M12
Coding	A

# SACC-CIP-M12MS-4P SMD SH-SP - Sample set



1418642

<https://www.phoenixcontact.com/us/products/1418642>

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (not plugged in)	IP65 (not plugged in, by means of additional O-ring seal with device)
Degree of protection	IP67 (correctly plugged in and locked)
	IP65 (not plugged in, by means of additional O-ring seal with device)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 105 °C (Plug / socket)
	-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

## Drawings

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

# SACC-CIP-M12MS-4P SMD SH-SP - Sample set



1418642

<https://www.phoenixcontact.com/us/products/1418642>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418642>

 <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				
	250 V	4 A	-	-

# SACC-CIP-M12MS-4P SMD SH-SP - Sample set



1418642

<https://www.phoenixcontact.com/us/products/1418642>

## Classifications

### ETIM

ETIM 9.0

EC003557

### UNSPSC

UNSPSC 21.0

39121400

# SACC-CIP-M12MS-4P SMD SH-SP - Sample set



1418642

<https://www.phoenixcontact.com/us/products/1418642>

## 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 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)