

# SACC-CI-M12MS-12CON-L90 - Contact carrier



1424194

<https://www.phoenixcontact.com/us/products/1424194>

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Contact carrier, 12-position, Pin, angled, M12, A-coding, Wave soldering, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

The figure shows the shielded version

## Your advantages

- Reduced mounting costs thanks to two-piece device connector
- 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	1424194
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB23
Product key	ABQAHM
GTIN	4046356692885
Weight per piece (including packing)	5.738 g
Weight per piece (excluding packing)	4.33 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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### Product properties

Product type	Contact insert
Application	Signal
Number of positions	12
No. of control contacts	12
Seal present	yes
Shielded	no
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	Wave soldering
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### Signaling

Status display	no
Status display present	no

### Material specifications

Material Contact carrier	PA 6T
Material Contact	CuZn
Material Contact surface	Au
Material Seal	FKM
Flammability rating according to UL 94	V0

### Connector

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## Connection 1

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

## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C -40 °C ... 85 °C (without mechanical actuation)

## Standards and regulations

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

## Packaging specifications

Type of packaging	Blister
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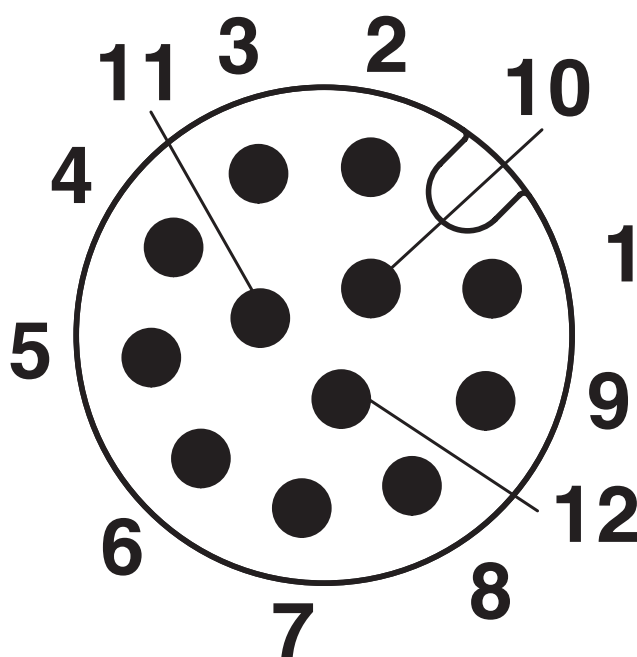
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## Drawings

Schematic diagram



Pin assignment M12 male connector, 12-pos., male side view

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424194>

 <b>UL Recognized</b> Approval ID: E118976-20100522		Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
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		30 V	1.5 A	26	-

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## Classifications

### ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

### ETIM

ETIM 10.0	EC003557
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### UNSPSC

UNSPSC 21.0	39121400
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## 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	1bf8a522-0e21-4c38-8d9a-88124d6e24bb

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