

# SACC-CI-M12FS-12CON-L90 SH - Contact carrier



1424199

<https://www.phoenixcontact.com/us/products/1424199>

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Contact carrier, 12-position, Socket, angled, M12, coding: A, PCB mounting, Wave soldering, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239456

## 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	1424199
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB23
Product key	ABQAHG
Catalog page	Page 253 (C-2-2013)
GTIN	4046356692939
Weight per piece (including packing)	6.2 g
Weight per piece (excluding packing)	5.895 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
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	Wave soldering
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### Material specifications

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

### Connector

#### Connection 1

Head design	Socket
Head cable outlet	angled
Head thread type	M12

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Coding	A
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## Mechanical properties

### Mechanical data

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

### Ambient conditions

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

## Standards and regulations

### M12

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

## Mounting

Mounting type	PCB mounting
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## Packaging specifications

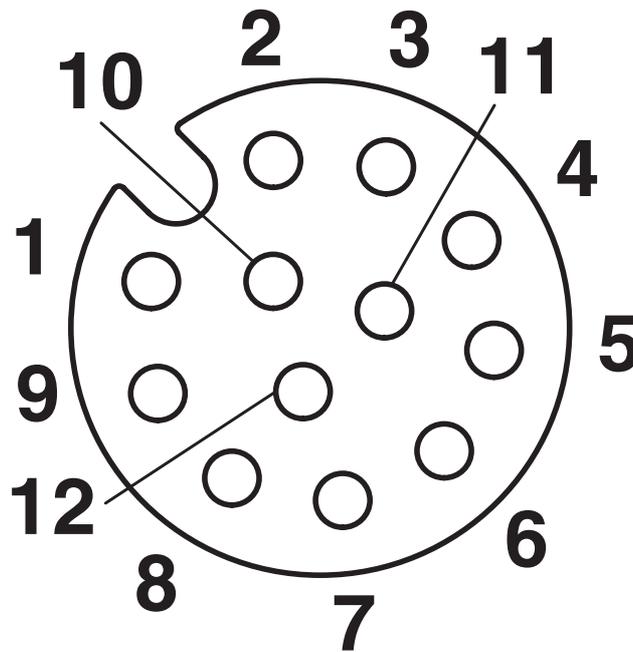
Type of packaging	Blister
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## Drawings

Schematic diagram



Pin assignment M12, 12-pos., female side view

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424199>

 <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	1.5 A	26 - 26	-

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## Classifications

### ECLASS

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

### ETIM

ETIM 9.0	EC002635
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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	5f81b00a-d186-4dd8-ab1c-36323a3e64eb

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## Accessories

### PROT-M12 - Screw plug

1680539

<https://www.phoenixcontact.com/us/products/1680539>



An M12 screw plug for the unoccupied M12 sockets of the sensor/actuator cable, boxes and flush-type connectors

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### PROT-M12 SH - Screw plug

1503302

<https://www.phoenixcontact.com/us/products/1503302>



An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

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## PROT-M12 FB - Screw plug

1555538

<https://www.phoenixcontact.com/us/products/1555538>



M12 high-grade steel screw plug, for unoccupied M12 sockets of the sensor/actuator cables, boxes and flush-type connectors for the food industry

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## SACC-M12-SCO NUT - Housing screw connection

1552243

<https://www.phoenixcontact.com/us/products/1552243>



Housing screw connection, Socket, M12-SPEEDCON, Front mounting, M12 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237399

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## SACC-DSIV-M12-NUT - Housing screw connection

1416144

<https://www.phoenixcontact.com/us/products/1416144>



Housing screw connection, Pin, M12, Front mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239107

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## SACC-M12-SCO NUT L 90 - Housing screw connection

1432460

<https://www.phoenixcontact.com/us/products/1432460>



Housing screw connection, M12-SPEEDCON, Front mounting, M12 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237409

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## SACC-BP-F-M12/M15-6-THR - Housing screw connection

1414004

<https://www.phoenixcontact.com/us/products/1414004>



Housing screw connection, Socket, M12, Rear mounting, M15 x 1, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239056

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## SACC-BP-F-M12/M15-7-THR - Housing screw connection

1414003

<https://www.phoenixcontact.com/us/products/1414003>



Housing screw connection, Socket, M12, Rear mounting, M15 x 1, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239055

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## SACC-BP-F-M12/M15-6-THR SCO - Housing screw connection

1414020

<https://www.phoenixcontact.com/us/products/1414020>



Housing screw connection, Socket, M12-SPEEDCON, Rear mounting, M15 x 1, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239057

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## SACC-BP-F-M12/M15-7-THR SCO - Housing screw connection

1414005

<https://www.phoenixcontact.com/us/products/1414005>



Housing screw connection, Socket, M12-SPEEDCON, Rear mounting, M15 x 1, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237398

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## SACC-BP-F-M12/THR-1,0/1,8-9TIP - Housing screw connection

1419630

<https://www.phoenixcontact.com/us/products/1419630>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 1.0 mm ... 1.8 mm thick front plates.

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## SACC-BP-F-M12/THR-1,7/2,5-9TIP - Housing screw connection

1419631

<https://www.phoenixcontact.com/us/products/1419631>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 1.7 mm ... 2.5 mm thick front plates.

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## SACC-BP-F-M12/THR-2,4/3,2-9TIP - Housing screw connection

1419633

<https://www.phoenixcontact.com/us/products/1419633>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 2.4 mm ... 3.2 mm thick front plates.

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## SACC-BP-F-M12/THR-3,1/3,9-9TIP - Housing screw connection

1419634

<https://www.phoenixcontact.com/us/products/1419634>



M12 threaded sleeve with tolerance-compensating function, for straight, THR solderable M12 socket contact inserts. Suitable for 3.1 mm ... 3.9 mm thick front plates.

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## SACC-M12 NUT PRESS - Housing screw connection

1437889

<https://www.phoenixcontact.com/us/products/1437889>



Housing screw connection, Socket, M12, Front mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237410

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## SACC-DSIV-M12-NUT-9 THR - Housing screw connection

1417989

<https://www.phoenixcontact.com/us/products/1417989>



Housing screw connection, Front mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239181

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## SACC-BP-F-M12-THR PP - Housing screw connection

1027662

<https://www.phoenixcontact.com/us/products/1027662>



Housing screw connection, Socket, M12-Push-pull external locking, Rear mounting, M16, THR- und Wellenlötkontakte, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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## SACC-FP-F-M12-THR PP - Housing screw connection

1027678

<https://www.phoenixcontact.com/us/products/1027678>



Housing screw connection, Socket, M12-Push-pull external locking, Front mounting, M14 x 1, THR- und Wellenlötkontakte, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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