

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



1424195

<https://www.phoenixcontact.com/us/products/1424195>

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, angled, M12, coding: A, PCB mounting, Wave soldering, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239452

## 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                          | 1424195             |
| Packing unit                         | 20 pc               |
| Minimum order quantity               | 20 pc               |
| Sales key                            | AB23                |
| Product key                          | ABQAHS              |
| Catalog page                         | Page 253 (C-2-2013) |
| GTIN                                 | 4046356692892       |
| Weight per piece (including packing) | 6.27 g              |
| Weight per piece (excluding packing) | 6.01 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             |
| 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 |
|-------------------|----------------|

### Signaling

|                        |    |
|------------------------|----|
| Status display         | No |
| Status display present | No |

### 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

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



1424195

<https://www.phoenixcontact.com/us/products/1424195>

## Connection 1

|                   |        |
|-------------------|--------|
| Head design       | Socket |
| Head cable outlet | angled |
| Head thread type  | M12    |
| Coding            | A      |

## Mechanical properties

### Mechanical data

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

## 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 |
|---------------|--------------|

## Packaging specifications

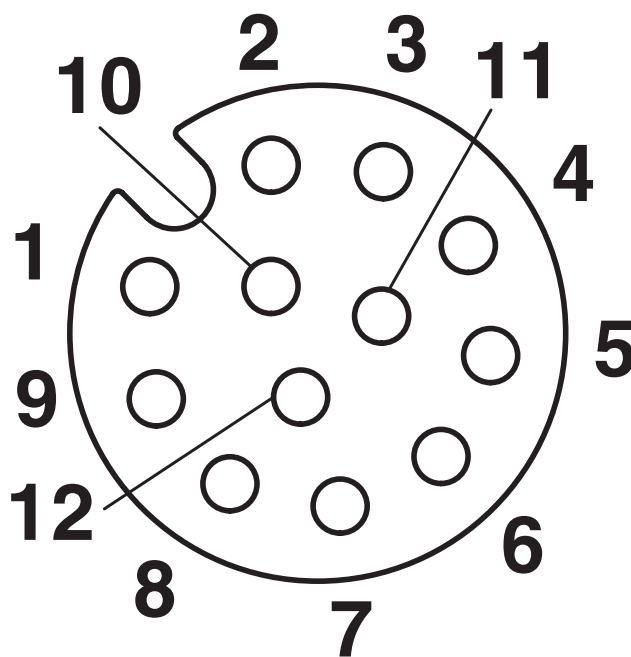
|                   |         |
|-------------------|---------|
| Type of packaging | Blister |
|-------------------|---------|

1424195

<https://www.phoenixcontact.com/us/products/1424195>

## Drawings

Schematic diagram



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

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



1424195

<https://www.phoenixcontact.com/us/products/1424195>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1424195>

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

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



1424195

<https://www.phoenixcontact.com/us/products/1424195>

## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### UNSPSC

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

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                                | ba8186df-543f-4f30-a6e2-2437c6e772bc |

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



1424195

<https://www.phoenixcontact.com/us/products/1424195>

## 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

---

### 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

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

1424195

<https://www.phoenixcontact.com/us/products/1424195>



## 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

---

## 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

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

1424195

<https://www.phoenixcontact.com/us/products/1424195>



## 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

---

## 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

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



1424195

<https://www.phoenixcontact.com/us/products/1424195>

## 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

---

## 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

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



1424195

<https://www.phoenixcontact.com/us/products/1424195>

## 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

---

## 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

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

1424195

<https://www.phoenixcontact.com/us/products/1424195>



## 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.

---

## 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.

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

1424195

<https://www.phoenixcontact.com/us/products/1424195>



## 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.

---

## 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.

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

1424195

<https://www.phoenixcontact.com/us/products/1424195>



## 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

---

## 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

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

1424195

<https://www.phoenixcontact.com/us/products/1424195>



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

1027662

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



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

---

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

1027678

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



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

---

Phoenix Contact 2024 © - 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)