

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



1424198

<https://www.phoenixcontact.com/us/products/1424198>

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Contact carrier, 12-position, Pin, angled, M12, coding: A, PCB mounting, Wave soldering, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239455

## 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                          | 1424198             |
| Packing unit                         | 20 pc               |
| Minimum order quantity               | 20 pc               |
| Sales key                            | AB23                |
| Product key                          | ABQAHA              |
| Catalog page                         | Page 253 (C-2-2013) |
| GTIN                                 | 4046356692922       |
| Weight per piece (including packing) | 6.085 g             |
| Weight per piece (excluding packing) | 5.78 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            | 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 |
|-------------------|----------------|

### 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       | Pin    |
| Head cable outlet | angled |
| Head thread type  | M12    |

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|        |   |
|--------|---|
| 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

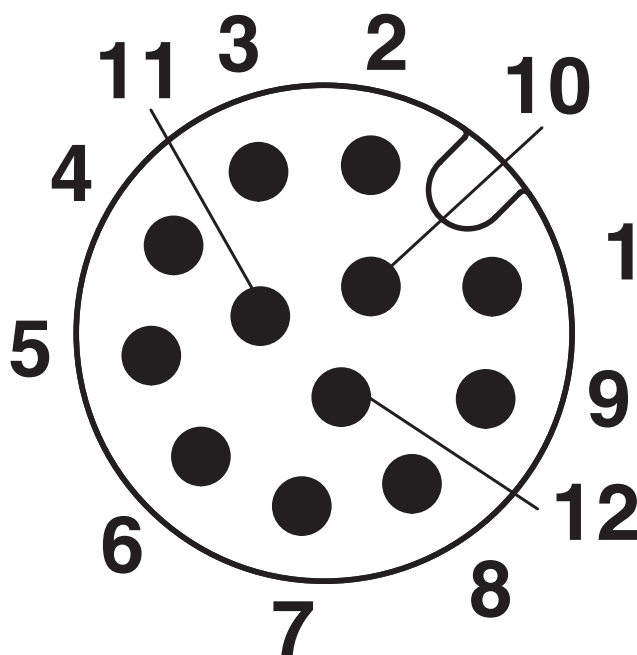
|                   |         |
|-------------------|---------|
| Type of packaging | Blister |
|-------------------|---------|

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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/1424198>

|                                                                                                                                                     |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| <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           | -                           |

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## 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                                | 32587f26-2f1a-4da3-aac3-adb33deaba71 |

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## Accessories

### PROT-M12 FS - Sealing cap

1560251

<https://www.phoenixcontact.com/us/products/1560251>



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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### PROT-M12 FS-M - Sealing cap

1430488

<https://www.phoenixcontact.com/us/products/1430488>



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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## SACC-DSIV-M12MS-SEAL - Sealing ring

1405751

<https://www.phoenixcontact.com/us/products/1405751>

Sealing ring, color: green



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

1551493

<https://www.phoenixcontact.com/us/products/1551493>



Housing screw connection, Pin, M12-SPEEDCON, Front mounting, M12 x 1,  
Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.  
1 %) item no.: 1237430

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

1416145

<https://www.phoenixcontact.com/us/products/1416145>



Housing screw connection, Pin, M12, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239108

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## SACC-M12-SCO PLUG L90 - Housing screw connection

1436709

<https://www.phoenixcontact.com/us/products/1436709>



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.: 1239632

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

1413997

<https://www.phoenixcontact.com/us/products/1413997>



Housing screw connection, Pin, M12, Rear mounting, M15 x 1, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239050

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

1413996

<https://www.phoenixcontact.com/us/products/1413996>



Housing screw connection, Pin, M12, Rear mounting, M15 x 1, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239049

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



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

1413999

<https://www.phoenixcontact.com/us/products/1413999>



Housing screw connection, Pin, 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.: 1239052

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

1413998

<https://www.phoenixcontact.com/us/products/1413998>



Housing screw connection, Pin, 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.: 1239051

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## SACC-M12 PLUG PRESS - Housing screw connection

1437892

<https://www.phoenixcontact.com/us/products/1437892>



Housing screw connection, Pin, M12, Front mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239688

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

1417984

<https://www.phoenixcontact.com/us/products/1417984>



Housing screw connection, Pin, M12, Rear mounting, M14 x 1, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239180

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



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

1027661

<https://www.phoenixcontact.com/us/products/1027661>



Housing screw connection, Pin, M12-Push-pull external locking, Rear mounting, M15 x 1, THR- und Wellenlötkontakte, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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

1027679

<https://www.phoenixcontact.com/us/products/1027679>



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

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