

# 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, 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

## 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        |
| GTIN                                 | 4046356692939 |
| Weight per piece (including packing) | 6.2 g         |
| Weight per piece (excluding packing) | 4.66 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             |
| No. of control contacts | 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

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

### Connector

#### Connection 1

|                   |        |
|-------------------|--------|
| Head design       | Socket |
| Head cable outlet | angled |

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|                  |     |
|------------------|-----|
| 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  |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C                                |
|   | -40 °C ... 85 °C (without mechanical actuation) |

## Standards and regulations

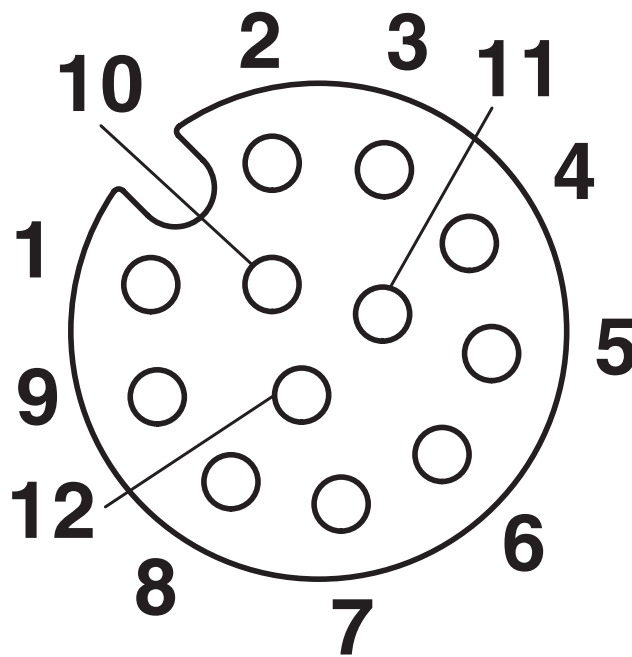
|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-101 |

## Packaging specifications

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

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><br>Approval ID: E118976-20100522 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 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 |
|-----------|----------|

### 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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