

# SACC-CI-M12MS-4CON-L180 THR - Contact carrier



1437164

<https://www.phoenixcontact.com/us/products/1437164>

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Contact carrier, 4-position, Pin, straight, M12, A-coding, THR solder connection, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- Reduced mounting costs thanks to two-piece device connector
- Packaging available for automated pick and place assembly
- 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                          | 1437164       |
| Packing unit                         | 60 pc         |
| Minimum order quantity               | 60 pc         |
| Sales key                            | AB23          |
| Product key                          | ABQAGM        |
| GTIN                                 | 4046356457118 |
| Weight per piece (including packing) | 4.48 g        |
| Weight per piece (excluding packing) | 2.03 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 | 4              |
| Seal present        | yes            |
| Shielded            | no             |
| Coding              | A              |
| Thread type         | M12            |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Rated surge voltage   | 2.5 kV                     |
| Contact resistance    | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 250 V                      |
| Nominal current $I_N$ | 4 A                        |

### Connection data

|                   |                       |
|-------------------|-----------------------|
| Connection method | THR solder connection |
|-------------------|-----------------------|

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

## Coding

## A

### Mechanical properties

#### Mechanical data

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

### Environmental and real-life conditions

#### Ambient conditions

|   |   |
|---|---|
| Degree of protection (when plugged in)                            | IP67 (correctly plugged in and locked)  |
| Degree of protection  | IP67 (correctly plugged in and locked)  |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)<br>-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 | Tray |
|-------------------|------|

# SACC-CI-M12MS-4CON-L180 THR - Contact carrier

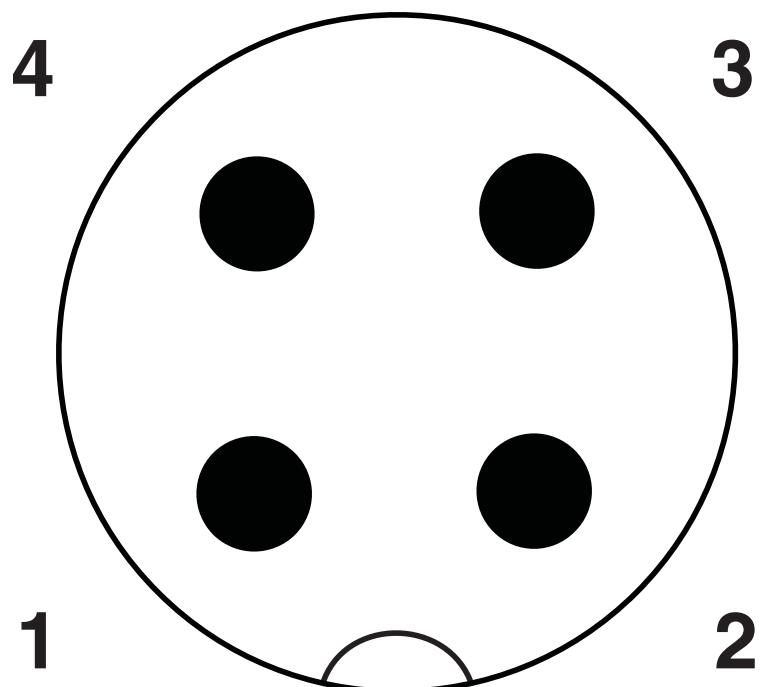
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## Drawings

Schematic diagram



Pin assignment M12 plug, 4-pos., A-coded, view plug side

## Approvals

ⓘ To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1437164>

|  <b>cUL Recognized</b><br>Approval ID: E118976-20100522 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  | 250 V                 | 4 A                   | 22                | -                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440223 |
| ECLASS-15.0 | 27440223 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003557 |
|----------|----------|

### UNSPSC

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

## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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