

# SACC-CI-M12MSK-4PE-L180 THR R - Contact carrier



1420830

<https://www.phoenixcontact.com/us/products/1420830>

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Contact carrier, Power, 5-position, Pin, straight, M12, K-coding, THR solder connection, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- For compact devices: transmit high power in a confined space
- 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 fastening
- Additional gasket for the device when not plugged in

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1420830       |
| Packing unit                         | 60 pc         |
| Minimum order quantity               | 60 pc         |
| Sales key                            | AB23          |
| Product key                          | ABQAGR        |
| GTIN                                 | 4055626280578 |
| Weight per piece (including packing) | 11.065 g      |
| Weight per piece (excluding packing) | 3.768 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           | Power          |
| Sensor type           | Power          |
| Number of positions   | 5              |
| Connection profile    | 4+PE           |
| No. of power contacts | 4              |
| Seal present          | yes            |
| Coding                | K              |
| Thread type           | M12            |

### Insulation characteristics

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

### Electrical properties

|  |       |
|--|-------|
| Rated voltage in acc. with IEC 61076-2-101 | 690 V |
| Rated surge voltage                        | 6 kV  |
| Nominal voltage $U_N$                      | 690 V |
| Nominal current $I_N$                      | 16 A  |

### Connection data

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

### Interfaces

|                      |       |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

### Material specifications

|  |       |
|--|-------|
| Material Contact carrier               | PA 4T |
| Material Contact                       | CuZn  |
| Material Contact surface               | Au    |
| Material Seal                          | FKM   |
| Flammability rating according to UL 94 | V0    |

### Connector

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## Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Pin      |
| Head cable outlet | straight |
| Head thread type  | M12      |
| Coding            | K        |

## Cable/line

|                      |       |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Degree of protection  | IP67 (correctly plugged in and locked)                                |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 105 °C<br>-40 °C ... 105 °C (without mechanical actuation) |
| UL Type Rating  | Type 4 (indoor use only)  |

## Standards and regulations

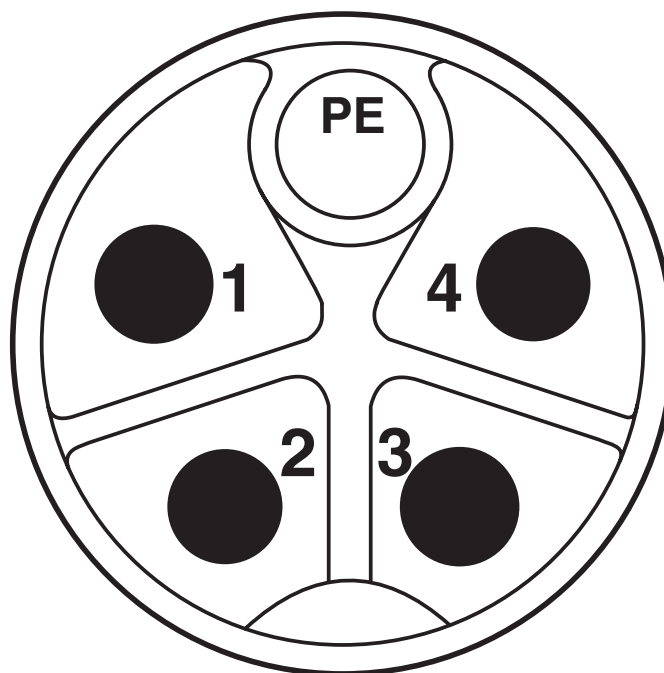
|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-111 |

## Packaging specifications

|                   |                   |
|-------------------|-------------------|
| Type of packaging | Belt              |
| Delivery state    | with assembly pad |

## Drawings

Schematic diagram



Connector pin assignment of M12 plug, 5-pos., K-coded, pin side view

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1420830>

|  <b>cULus Recognized</b><br>Approval ID: E468743-20180113 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 600 V                 | 16 A                  | -                 | -                           |

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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, 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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