# SACC-CI-M12MSL-4FE-L180 THR R - Contact carrier

1420828

https://www.phoenixcontact.com/us/products/1420828

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Contact carrier, Power, 5-position, Pin, straight, M12, L-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 | 1420828 |
| Packing unit | 60 pc |
| Minimum order quantity | 60 pc |
| Sales key | AB23 |
| Product key | ABQAGR |
| GTIN | 4055626280530 |
| Weight per piece (including packing) | 10.91 g |
| Weight per piece (excluding packing) | 3.368 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. |
| Notes on operation | FE not connected to metal parts that can be touched, no protective function |

## Product properties

| | |
|---|---|
| Product type | Contact insert |
| Application | Power |
| Number of positions | 5 |
| Connection profile | 4+FE |
| No. of power contacts | 4 |
| Seal present | yes |
| Coding | L |
| Thread type | M12 |

### Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 1.5 kV |
| Nominal voltage $U_N$ | 63 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

### Connection 1

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

## 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 |
| | -40 °C ... 105 °C (without mechanical actuation) |
| UL Type Rating | Type 4 (indoor use only) |

## Standards and regulations

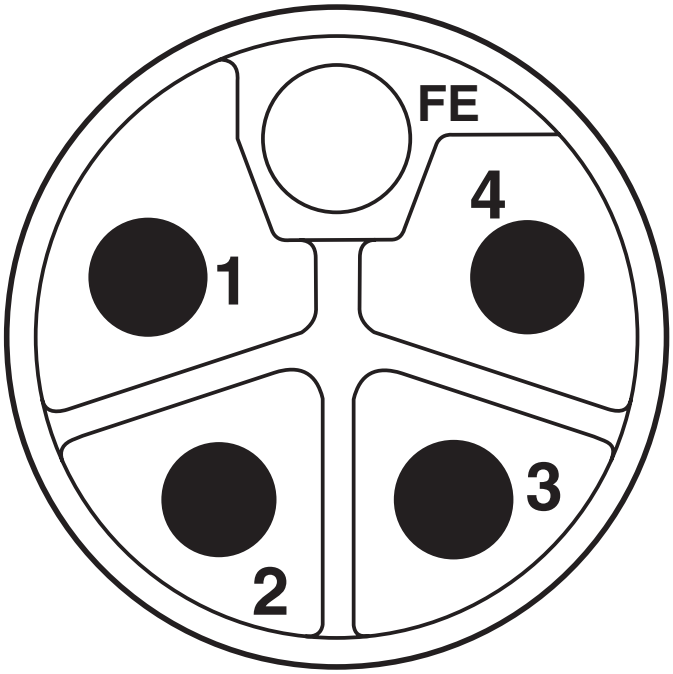
| | |
|---|---|
| Standard designation | M12 circular connector |
| Standards/specifications | according to IEC 61076-2-111 |

## Packaging specifications

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

## Drawings

Schematic diagram




Pin assignment of M12 connector, 5-pos., L-coded, pin side view

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1420828

**cULus Recognized**
Approval ID: E468743-20180113

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 63 V | 16 A | - | - |

## Classifications

### ECLASS

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

### ETIM

| | |
|---|---|
| ETIM 10.0 | 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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