# SACC-CI-M12FSD-4CON-L180-THR - Contact carrier

1551451

https://www.phoenixcontact.com/us/products/1551451

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Contact carrier, Ethernet/PROFINET CAT5 (100 Mbps), 4-position, Socket, straight, M12, D-coding, THR solder connection, this item is expected to be lead-free from Q3 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
- 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
- Compatible with connectors with screw or push-in connection

## Commercial data

| | |
|---|---|
| Item number | 1551451 |
| Packing unit | 60 pc |
| Minimum order quantity | 60 pc |
| Sales key | AB23 |
| Product key | ABQAGS |
| GTIN | 4046356153676 |
| Weight per piece (including packing) | 4.867 g |
| Weight per piece (excluding packing) | 2.295 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 | Data |
| | Signal |
| Number of positions | 4 |
| Seal present | yes |
| Shielded | yes |
| Coding | D |
| Thread type | M12 |

### Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| Rated surge voltage | 2.5 kV |
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 250 V |
| Nominal current $I_N$ | 4 A |
| Transmission speed | 100 Mbps |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

## Connection data

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

## Interfaces

| | |
|---|---|
| Signal type/category | Ethernet/PROFINET CAT5, 100 Mbps |

## Signaling

| | |
|---|---|
| Status display | no |
| Status display present | no |

## Material specifications

| | |
|---|---|
| Material Contact carrier | PA 6T/66 |
| 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 | straight |
| Head thread type | M12 |
| Coding | D |

## 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 ... 85 °C |
| | -40 °C ... 85 °C (without mechanical actuation) |

## Standards and regulations

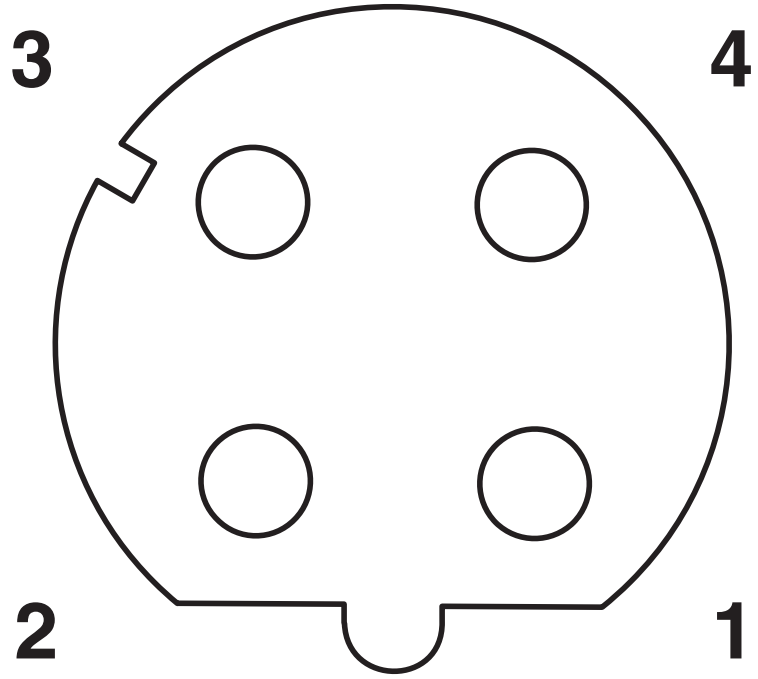
| | |
|---|---|
| Standard designation | M12 circular connector |
| Standards/specifications | according to IEC 61076-2-101 |

## Packaging specifications

| | |
|---|---|
| Type of packaging | Tray |

## Drawings

Schematic diagram




Pin assignment M12 socket, 4-pos., D-coded, female side

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1551451

**cUL Recognized**
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 | - |

**UL Recognized**
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 | - |

**cULus Recognized**
Approval ID: E221474-20140616

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 250 V | 4 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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