# SACC-CI-M12FSY-8CON-L180 TOR32 - Contact carrier

1413445

https://www.phoenixcontact.com/us/products/1413445

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M12 female contact carrier, straight

Contact carrier, Ethernet CAT5 (IEC 11801:2002), 8-position, Socket, straight, M12, Y-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

## Commercial data

| | |
|---|---|
| Item number | 1413445 |
| Packing unit | 100 pc |
| Minimum order quantity | 100 pc |
| Sales key | AB23 |
| Product key | ABQAGT |
| GTIN | 4046356999076 |
| Weight per piece (including packing) | 7.479 g |
| Weight per piece (excluding packing) | 3.421 g |
| Customs tariff number | 85366930 |
| 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 | 8 |
| No. of power contacts | 4 |
| Seal present | no |
| Shielded | yes |
| Coding | Y |
| Thread type | M12 |

Insulation characteristics

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

### Electrical properties

| | |
|---|---|
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | 100 MΩ |
| Nominal voltage $U_N$ | 48 V AC (Power and data) |
| | 50 V DC (Power and data) |
| Nominal current $I_N$ | 0.5 A (Data) |
| | 6 A (Power) |
| Transmission medium | Copper |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

### Connection data

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

### Interfaces

| | |
|---|---|
| Signal type/category | Ethernet CAT5 (IEC 11801:2002) |

### Dimensions

| | |
|---|---|
| Length of the solder pin | 2.3 mm |
| | 2.3 mm |

### Material specifications

| | |
|---|---|
| Material Contact carrier | PPA |
| Material Contact | CuZn |
| Material Contact surface | Au |
| Flammability rating according to UL 94 | V0 |

## Connector

Connection 1

| | |
|---|---|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | Y |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | ≥ 100 |

## Environmental and real-life conditions

Ambient conditions

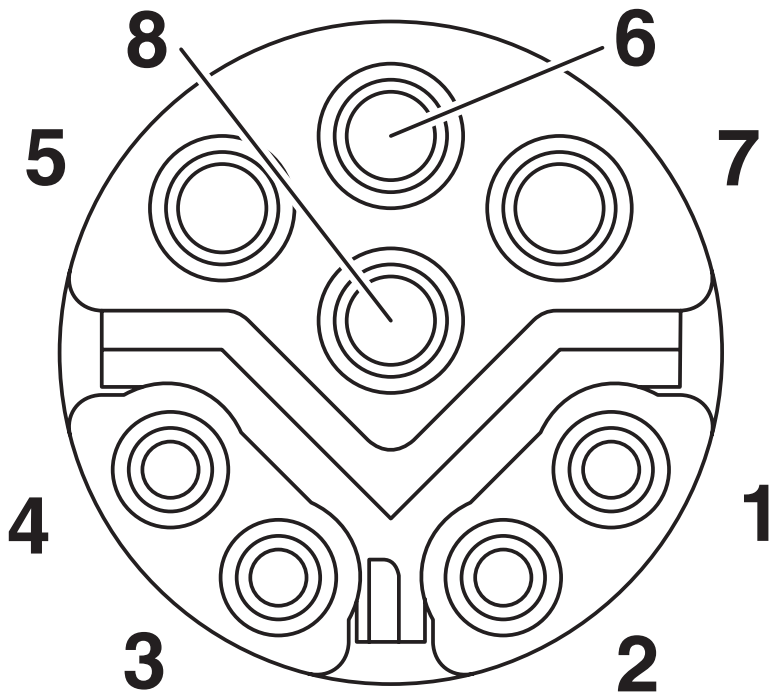
| | |
|---|---|
| Degree of protection | IP67 (correctly plugged in and locked) |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 90 °C |
| UL Type Rating | Type 4 (indoor use only) |

## Packaging specifications

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

## Drawings

Schematic diagram




Pin assignment M12 connector, 8-pos., view socket side

## 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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