

# SACC-CI-M12FSX-8CON-L180 TOR32 - Contact carrier



1413446

<https://www.phoenixcontact.com/us/products/1413446>

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Contact carrier, Ethernet CAT6<sub>A</sub>, 8-position, Socket, straight, M12, X-coding, THR solder connection, this item is expected to be lead-free from Q2 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

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1413446       |
| Packing unit                         | 100 pc        |
| Minimum order quantity               | 100 pc        |
| Sales key                            | AB23          |
| Product key                          | ABQAGT        |
| GTIN                                 | 4046356999083 |
| Weight per piece (including packing) | 7.365 g       |
| Weight per piece (excluding packing) | 3.329 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## 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           |
| Sensor type         | Ethernet       |
| Number of positions | 8              |
| Seal present        | no             |
| Shielded            | yes            |
| Coding              | X              |
| Thread type         | M12            |

### Insulation characteristics

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

### Electrical properties

|   |                   |
|---|-------------------|
| Rated surge voltage                     | 1.5 kV            |
| Contact resistance                      | < 5 mΩ            |
| Insulation resistance                   | > 100 MΩ          |
| Nominal voltage $U_N$                   | 50 V AC           |
|   | 60 V DC           |
| Nominal current $I_N$                   | 0.5 A             |
| Transmission characteristics (category) | CAT6 <sub>A</sub> |

### Connection data

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

### Interfaces

|                      |                            |
|----------------------|----------------------------|
| Signal type/category | Ethernet CAT6 <sub>A</sub> |
|----------------------|----------------------------|

### Material specifications

|  |          |
|--|----------|
| Material Contact carrier               | PA 6T/66 |
| Material Contact                       | CuZn     |
| Material Contact surface               | Ni/Au    |
| Flammability rating according to UL 94 | V0       |

### Connector

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## Connection 1

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

## Cable/line

|                      |                            |
|----------------------|----------------------------|
| Signal type/category | Ethernet CAT6 <sub>A</sub> |
|----------------------|----------------------------|

## 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 ... 95 °C                       |
| UL Type Rating  | Type 4 (indoor use only)               |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-109 |

## Packaging specifications

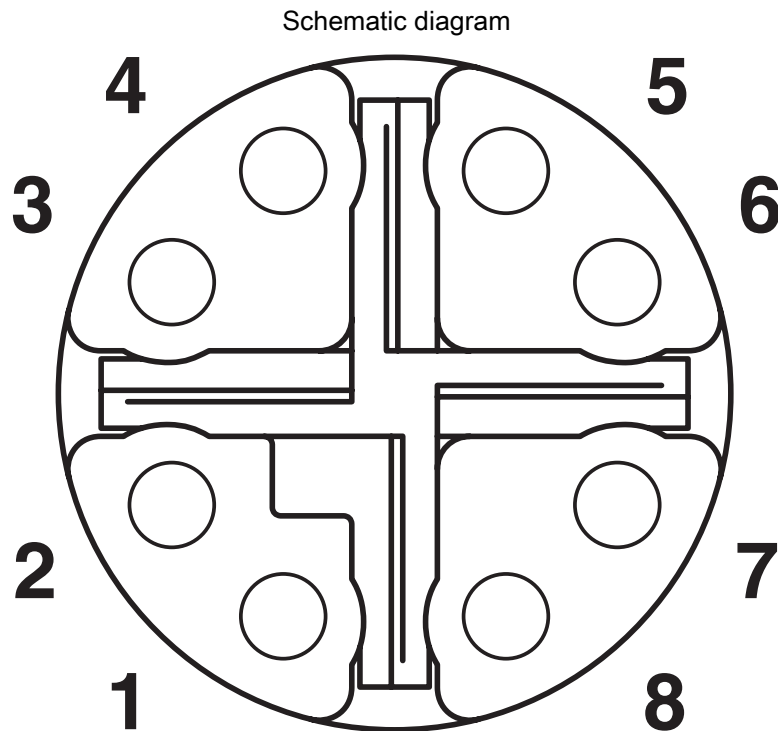
|                   |                   |
|-------------------|-------------------|
| Type of packaging | Belt              |
| Delivery state    | with assembly pad |

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## Drawings



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

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## Approvals

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|  <b>cUL Recognized</b><br>Approval ID: E335024-20120308 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
|  | 60 V                  | 0.5 A                 | -                 | -                    |

|  <b>UL Recognized</b><br>Approval ID: E335024-20120308 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine   |                       |                       |                   |                      |
|   | 60 V                  | 0.5 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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