

# SACC-CI-M12FS-17CON-TOR 32 - Contact carrier



1457717

<https://www.phoenixcontact.com/us/products/1457717>

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Contact carrier, 17-position, Socket, straight, M12, coding: A, PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239846

## 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                          | 1457717             |
| Packing unit                         | 100 pc              |
| Minimum order quantity               | 100 pc              |
| Sales key                            | AB23                |
| Product key                          | ABQAGT              |
| Catalog page                         | Page 256 (C-2-2013) |
| GTIN                                 | 4046356617468       |
| Weight per piece (including packing) | 8 g                 |
| Weight per piece (excluding packing) | 8 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         | Signal         |
| Number of positions | 17             |
| Seal present        | yes            |
| Shielded            | no             |
| Coding              | A              |
| Thread type         | M12            |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 09 |
|------------------|----|

### Insulation characteristics

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

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Rated surge voltage   | 0.8 kV                     |
| Contact resistance    | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 30 V                       |
| Nominal current $I_N$ | 1.5 A                      |
| Test voltage          | 0.8 kV                     |

### Connection data

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

### Material specifications

|  |      |
|--|------|
| Flammability rating according to UL 94 | V0   |
| Seal material                          | FKM  |
| Contact material                       | CuZn |
| Contact surface material               | Au   |
| Contact carrier material               | PPA  |

### Connector

#### Connection 1

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

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Ambient conditions

|  |   |
|--|---|
| Degree of protection (when plugged in) | IP67 (correctly plugged in and locked)          |
| Degree of protection                   | IP67 (correctly plugged in and locked)          |
|  | IP67  |
| Ambient temperature (operation)        | -25 °C ... 85 °C (Plug / socket)                |
|  | -40 °C ... 85 °C (without mechanical actuation) |

## Standards and regulations

### M12

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

## Mounting

|               |              |
|---------------|--------------|
| Mounting type | PCB mounting |
|---------------|--------------|

## Packaging specifications

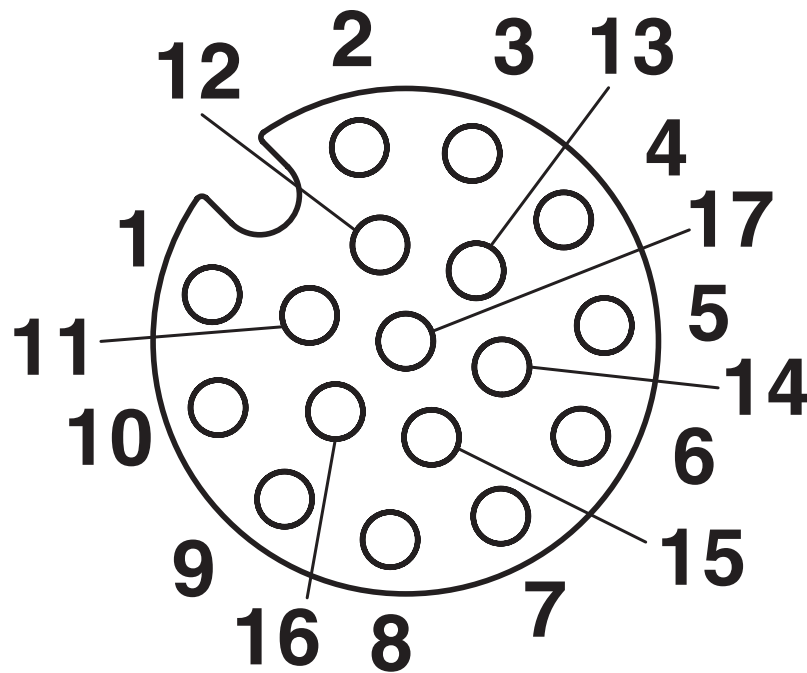
|                   |                   |
|-------------------|-------------------|
| Type of packaging | Belt              |
| Delivery state    | with assembly pad |

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## Drawings

Schematic diagram



Pin assignment of M12 socket, 17-pos., A-coded, view of socket side

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1457717>

|   |                                |                                |                   |                               |
|---|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>UL Recognized</b><br>Approval ID: E118976-20100522 |                                |                                |                   |                               |
|   | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|   | 30 V                           | 1.5 A                          | 26 - 26           | -                             |

|  |                                |                                |                   |                               |
|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>cULus Recognized</b><br>Approval ID: E221474-20140616 |                                |                                |                   |                               |
|  | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|  | 30 V                           | 1.5 A                          | -                 | -                             |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440223 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27460201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002637 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|



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Environmental product compliance

|   |   |
|---|---|
| EU RoHS                                 |   |
| Fulfills EU RoHS substance requirements | Yes   |
| Exemption                               | 6(c)  |
| China RoHS                              |   |
| Environment friendly use period (EFUP)  | EFUP-50   |
|   | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC                           |   |
| REACH candidate substance (CAS No.)     | Lead(CAS: 7439-92-1)  |
| SCIP                                    | a04d04bc-5b2c-4827-b95e-0e823b69bfac  |

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