

# SACC-CI-M12FS-17P SMD SH T - Contact carrier



1411966

<https://www.phoenixcontact.com/pc/products/1411966>

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Contact carrier, 17-position, Socket, straight, M12, coding: A, PCB mounting, SMD reflow, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1238939

## 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                          | 1411966       |
| Packing unit                         | 60 pc         |
| Minimum order quantity               | 60 pc         |
| Product key                          | ABQBGG        |
| GTIN                                 | 4046356991636 |
| Weight per piece (including packing) | 4.125 g       |
| Weight per piece (excluding packing) | 4.125 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         | Signal         |
| Number of positions | 17             |
| Seal present        | yes            |
| Shielded            | yes            |
| Coding              | A              |
| Thread type         | M12            |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 02 |
|------------------|----|

### 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                      |

### Connection data

|                   |            |
|-------------------|------------|
| Connection method | SMD reflow |
|-------------------|------------|

### Material specifications

|  |      |
|--|------|
| Flammability rating according to UL 94 | V0   |
| Contact material                       | CuZn |
| Contact surface material               | Au   |
| Contact carrier material               | PA   |

### Connector

#### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |

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|                  |     |
|------------------|-----|
| 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)<br>IP67, when plugged in                       |
| Ambient temperature (operation)        | -55 °C ... 105 °C (Plug / socket)<br>-55 °C ... 105 °C (without mechanical actuation) |

## Standards and regulations

### M12

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-101 |
| Note                     | In line with    |

## Mounting

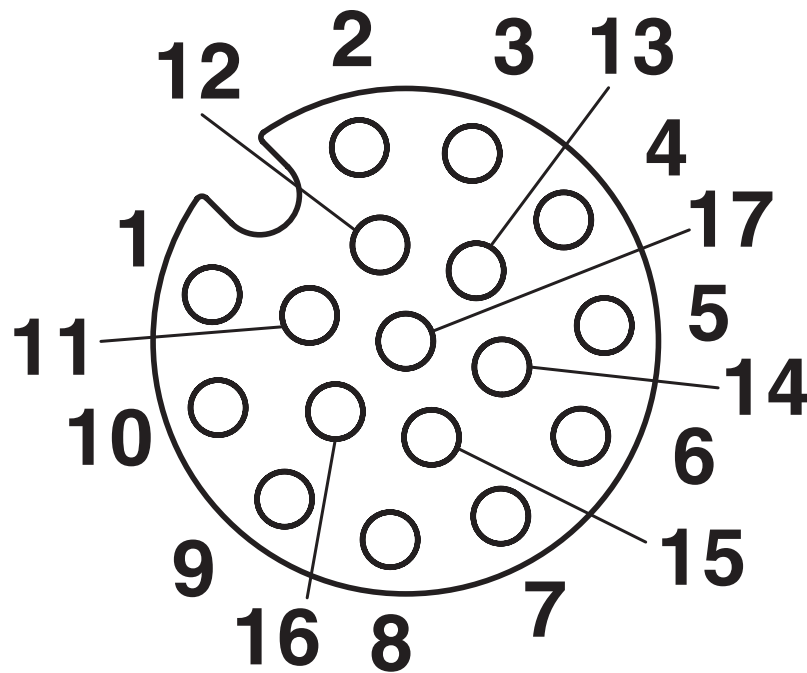
|               |              |
|---------------|--------------|
| Mounting type | PCB mounting |
|---------------|--------------|

## Packaging specifications

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

## 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/pc/products/1411966>

|  |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| <div> <b>cULus Recognized</b><br/>Approval ID: E221474-20160506</div> |                       |                       |                   |                             |
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 30 V                  | 1.5 A                 | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440110 |
| ECLASS-12.0 | 27440110 |
| ECLASS-13.0 | 27440110 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003568 |
|----------|----------|

### UNSPSC

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

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                                    | 0225b644-eadc-4acc-a7d0-e76094d082f0  |