

1418344  
<https://www.phoenixcontact.com/us/products/1418344>

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Contact carrier, Universal, 4-position, Socket, straight, M12, coding: S, PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239192

Your advantages

- For compact devices: transmit high power in a confined space
- 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                          | 1418344       |
| Packing unit                         | 60 pc         |
| Minimum order quantity               | 60 pc         |
| Sales key                            | AB23          |
| Product key                          | ABQAGV        |
| GTIN                                 | 4055626170695 |
| Weight per piece (including packing) | 10.289 g      |
| Weight per piece (excluding packing) | 8.6 g         |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

# SACC-CI-M12FSS-4CON-L180 TOR PE - Contact carrier



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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         | Power          |
| Sensor type         | Universal      |
| Number of positions | 4              |
| Seal present        | no             |
| Shielded            | no             |
| Coding              | S              |
| Thread type         | M12            |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 04 |
|------------------|----|

### Insulation characteristics

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

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Rated surge voltage   | 6 kV                       |
| Contact resistance    | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 630 V                      |
| Nominal current $I_N$ | 12 A                       |

### Connection data

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

### Interfaces

|                      |           |
|----------------------|-----------|
| Signal type/category | Universal |
|----------------------|-----------|

### Material specifications

|  |       |
|--|-------|
| Flammability rating according to UL 94 | V0    |
| Contact material                       | CuZn  |
| Contact surface material               | Au    |
| Contact carrier material               | PA 4T |

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## Connector

### Connection 1

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

## Cable/line

|                      |           |
|----------------------|-----------|
| Signal type/category | Universal |
|----------------------|-----------|

## 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 ... 105 °C                                |
|  | -40 °C ... 105 °C (without mechanical actuation) |

## Standards and regulations

### M12

|                      |               |
|----------------------|---------------|
| Standard designation | M12 connector |
|----------------------|---------------|

## Mounting

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

## Packaging specifications

|                   |      |
|-------------------|------|
| Type of packaging | Belt |
|-------------------|------|

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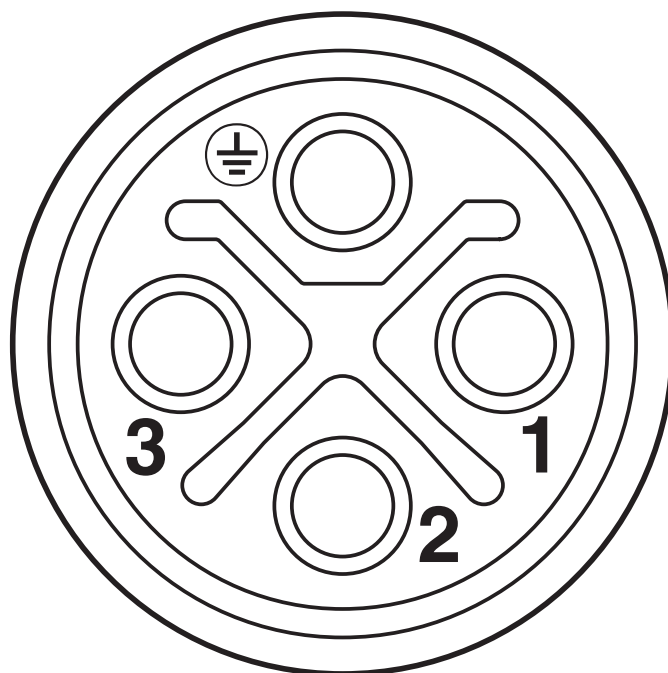


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## Drawings

Schematic diagram



Pin assignment of M12 socket, 4-pos., S-coded, socket side view


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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418344>

|  |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: E468743-20190917 |                       |                       |                   |                             |
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|  | 600 V                 | 12 A                  | 16 - 16           | -                           |

|   |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
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|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### 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                                    | 6c67bd2a-6351-4b8b-8f26-bcc269d8e314  |

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