

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

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Contact carrier, Universal, 4-position, Socket, straight, M12, S-coding, THR solder connection, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

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                            | ABQAGV        |
| Product key                          | ABQAGV        |
| GTIN                                 | 4055626170695 |
| Weight per piece (including packing) | 10.289 g      |
| Weight per piece (excluding packing) | 2.89 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          |
| Number of positions   | 4              |
| Connection profile    | 3+PE           |
| No. of power contacts | 3              |
| Seal present          | no             |
| Shielded              | no             |
| Coding                | S              |
| Thread type           | M12            |

### 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

|                                        |       |
|----------------------------------------|-------|
| Material Contact carrier               | PA 4T |
| Material Contact                       | CuZn  |
| Material Contact surface               | 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            | 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)           |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 105 °C                                |
|                                                                   | -40 °C ... 105 °C (without mechanical actuation) |
| UL Type Rating                                                    | Type 4 (indoor use only)                         |

## Packaging specifications

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

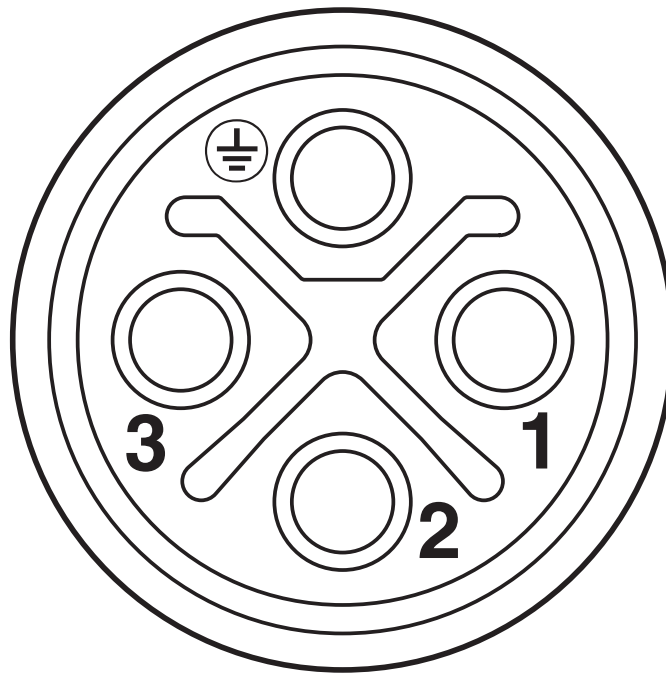
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## Drawings

Schematic diagram



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

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## Approvals

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

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

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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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