

# SACC-DSI-M12FSL-4FE-M16XL-L180 - Device connector rear mounting



1415338  
<https://www.phoenixcontact.com/us/products/1415338>

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Device connector rear mounting, Power, 5-position, Socket, straight, M12, L-coding, Wave soldering, this item is expected to be lead-free from Q1 2027 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- For compact devices: transmit high power in a confined space
- Easy-to-install, optimized XL housing contour with wrench size 19
- Mechanical tightening limitation for long-term-stable gasket

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1415338       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 20 pc         |
| Sales key                            | AB26          |
| Product key                          | ABQEHN        |
| GTIN                                 | 4055626055794 |
| Weight per piece (including packing) | 18.135 g      |
| Weight per piece (excluding packing) | 17.322 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. |
| Notes on operation | FE not connected to metal parts that can be touched, no protective function  |
| Order information: | Lock nut is included in the scope of delivery  |

### Mounting

|               |  |
|---------------|--|
| Mounting type | Rear mounting (M16 x 1.5, with flat nut) |
|---------------|--|

### Product properties

|                       |                                   |
|-----------------------|-----------------------------------|
| Product type          | Circular connectors (device side) |
| Application           | Power                             |
| Sensor type           | Power                             |
| Number of positions   | 5                                 |
| Connection profile    | 4+FE                              |
| No. of power contacts | 4                                 |
| Shielded              | no                                |
| Coding                | L                                 |
| Thread type           | M12                               |

### Insulation characteristics

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

### Material specifications

|  |       |
|--|-------|
| Material Housing                       | GD-Zn |
| Material Housing surface               | Ni    |
| Material Insulating body               | PA    |
| Material Contact                       | CuZn  |
| Material Contact surface               | Au    |
| Material Seal                          | FKM   |
| Flammability rating according to UL 94 | V0    |

### Electrical properties

|  |         |
|--|---------|
| Rated voltage in acc. with IEC 61076-2-101 | 630 V   |
| Rated surge voltage                        | 1.5 kV  |
| Nominal voltage $U_N$                      | 63 V DC |

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|                       |      |
|-----------------------|------|
| Nominal current $I_N$ | 16 A |
|-----------------------|------|

## Connection data

### Conductor connection

|                         |                |
|-------------------------|----------------|
| Connection method       | Wave soldering |
| Contact connection type | Socket         |

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

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

## Cable/line

|                      |       |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

## Environmental and real-life conditions

### Ambient conditions

|   |   |
|---|---|
| Degree of protection  | IP65 (When plugged in)                          |
|   | IP67 (When plugged in)                          |
|   | IP65/IP67                                       |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket)                |
|   | -40 °C ... 85 °C (without mechanical actuation) |
| UL Type Rating  | Type 4 (indoor use only)                        |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 circular connector       |
| Standards/specifications | according to IEC 61076-2-111 |

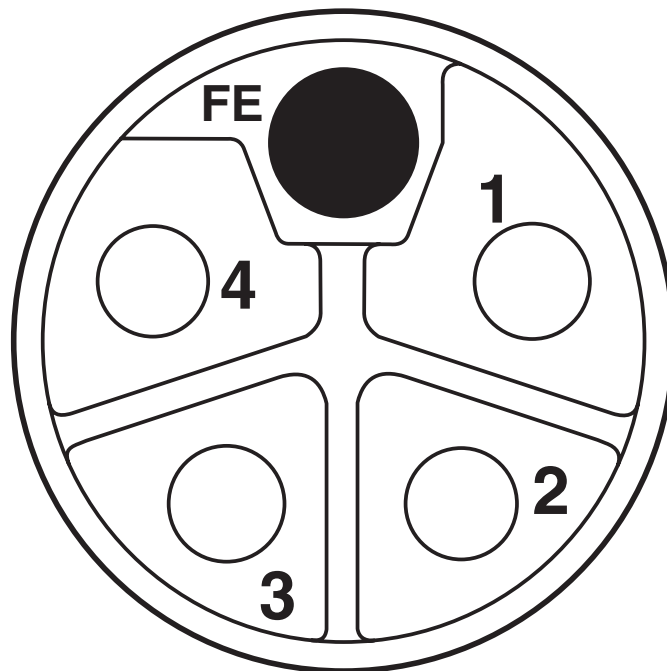
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## Drawings

Schematic diagram



Pin assignment of M12 socket, 5-pos., L-coded, socket side view


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## Approvals

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|   |  |                       |                   |                             |
|---|--|-----------------------|-------------------|-----------------------------|
|  | <b>cULus Recognized</b><br>Approval ID: E468743-20180113 |                       |                   |                             |
|   | Nominal voltage $U_N$                                    | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |  |                       |                   |                             |
|   | 63 V   | 16 A                  | -                 | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440110 |
| ECLASS-15.0 | 27440110 |

### ETIM

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

### 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                                | 0cd0c1a3-3429-4356-88cc-fdc633ec431c |

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