

# SACC-E-M12FSL-4FE-M16XL/0,2 GR - Device connector front mounting



1425583

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Device connector front mounting, Power, 5-position, Socket, straight, M12-Standard, coding: L, on free cable end, Front mounting, M16 x 1.5, Individual wires, cable length: 0.2 m, 2.50 mm<sup>2</sup>, PEX litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239514

## Your advantages

- 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
- Preassembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- For high transmission safety: shield connection to the housing with optional EMC nut

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1425583             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | AB24                |
| Product key                          | ABQCFCG             |
| Catalog page                         | Page 286 (C-2-2019) |
| GTIN                                 | 4055626424323       |
| Weight per piece (including packing) | 47.6 g              |
| Weight per piece (excluding packing) | 47.6 g              |
| Customs tariff number                | 85444290            |
| 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                                                                                                                                                                                                                                                                        |
| General            | Contact connection method: Crimp connection                                                                                                                                                                                                                                                                                                        |

### Mounting

|               |                                                            |
|---------------|------------------------------------------------------------|
| Mounting type | Front mounting M16 x 1.5 XL version, tightening limitation |
| Assembly note | XL version, tightening limitation                          |

### Product properties

|                      |                                   |
|----------------------|-----------------------------------|
| Product type         | Circular connectors (device side) |
| Sensor type          | Power                             |
| Number of positions  | 5                                 |
| No. of cable outlets | 1                                 |
| Shielded             | no                                |
| Coding               | L                                 |
| Thread type          | M12                               |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 11 |
|------------------|----|

### Insulation characteristics

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

### Material specifications

|                                        |                              |
|----------------------------------------|------------------------------|
| Color                                  | gray                         |
| Flammability rating according to UL 94 | V0                           |
| Seal material                          | FKM                          |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA                           |
| Material for screw connection          | Zinc die-cast, nickel-plated |
| Conductor material                     | Tin-plated Cu litz wires     |

### Electrical properties

|                                            |      |
|--------------------------------------------|------|
| Rated voltage in acc. with IEC 61076-2-101 | 63 V |
|--------------------------------------------|------|

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|                        |              |
|------------------------|--------------|
| Rated surge voltage    | 1.5 kV       |
|                        | 1.5 kV AC/DC |
| Nominal voltage $U_N$  | 63 V DC      |
| Nominal current $I_N$  | 16 A         |
| Test voltage           | 1.5 kV       |
| Test voltage Core/Core | 6 kV         |

## Connection data

### Conductor connection

|                         |                     |
|-------------------------|---------------------|
| Connection method       | Individual wires    |
| Contact connection type | Socket              |
| Conductor cross section | 2.5 mm <sup>2</sup> |

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

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

### Connection 2

|             |                |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

## Cable/line

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| Cable length                    | 0.2 m                                         |
| Cable type                      | PEX litz wire                                 |
| Signal type/category            | Power                                         |
| Single wire, color              | brown 1, white 2, blue 3, black 4, pink FE    |
| Cable cross section             | 2.5 mm <sup>2</sup>                           |
| Conductor material              | Tin-plated Cu litz wires                      |
| AWG signal line                 | 14                                            |
| Material wire insulation        | PE-X                                          |
| Test voltage Core/Core          | 6 kV                                          |
| Halogen-free                    | according to IEC 60754-1                      |
| Flame resistance                | in acc. with UL FT-2                          |
| Other resistance                | Hydrolysis-resistant                          |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation) |

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|  |                                                  |
|--|--------------------------------------------------|
|  | -25 °C ... 105 °C (Cable, flexible installation) |
|--|--------------------------------------------------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| Degree of protection            | IP67                                             |
|                                 | IP65/IP67                                        |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket)                 |
|                                 | -40 °C ... 85 °C (without mechanical actuation)  |
|                                 | -25 °C ... 105 °C (Cable, flexible installation) |
|                                 | -40 °C ... 105 °C (cable, fixed installation)    |

## Standards and regulations

|                  |                      |
|------------------|----------------------|
| Flame resistance | in acc. with UL FT-2 |
| Other resistance | Hydrolysis-resistant |

### M12

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-111 |
| Note                     | In line with    |

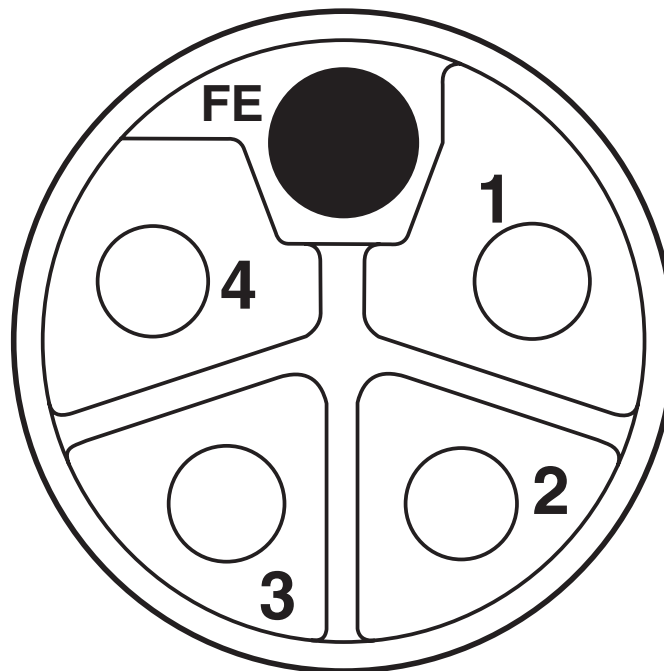
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## Drawings

Schematic diagram



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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1425583>

|                                                                                   |                                                          |                       |                   |                             |
|-----------------------------------------------------------------------------------|----------------------------------------------------------|-----------------------|-------------------|-----------------------------|
|  | <b>cULus Recognized</b><br>Approval ID: E468743-20180113 |                       |                   |                             |
|                                                                                   | Nominal voltage $U_N$                                    | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                   | 63 V                                                     | 16 A                  | 14 - 14           | -                           |

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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                                    | 8a1ac820-0b05-49a9-8d3a-5c3baed104b0                                                                                                                                                                                              |

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