# SACC-E-M12MSL-4FE-M16XL/0,2 GRX - Device connector front mounting

Device connector front mounting, Power, 5-position, Pin, 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$^2$, PEX litz wire, potted, 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
- 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 | 1239513 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | ***** |
| Product key | ABQCEG |
| GTIN | 4063151394318 |
| Weight per piece (including packing) | 46.6 g |
| Weight per piece (excluding packing) | 46.1 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

1239513

https://www.phoenixcontact.com/in/products/1239513

## 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 |

### 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 |

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

### Material specifications

| | |
|---|---|
| Material Molding compound | PUR (potted) |
| Flammability rating according to UL 94 | V0 |
| Seal material | FKM |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA |
| Material for screw connection | CuZn alloy, nickel-plated |
| Conductor material | Tin-plated Cu litz wires |

### Electrical properties

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

## Connection data

### Conductor connection

| Connection method | Individual wires |
|---|---|
| Contact connection type | Pin |
| Conductor cross section | 2.5 mm² |
| Tightening torque | 0.8 Nm ... 1.3 Nm (Installation-side) |

## Mechanical properties

### Mechanical data

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

## Connector

### Connection 1

| Head design | Pin |
|---|---|
| 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 mm² |
| Conductor material | Tin-plated Cu litz wires |
| AWG signal line | 14 |
| Material wire insulation | PE-X |
| 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) |
| | -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) |
| UL Type Rating | Type 4 (indoor use only) |

## 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 |

# SACC-E-M12MSL-4FE-M16XL/0,2 GRX - Device connector front mounting
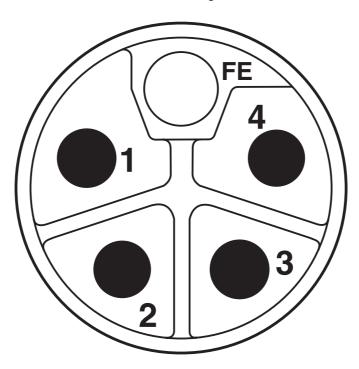
1239513

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## Drawings

Schematic diagram



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

## Approvals

💡 To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1239513

**cULus Recognized**
Approval ID: E468743-20180113

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | 63 V | 16 A | 14 | - |

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## Classifications

### ECLASS

| ECLASS-13.0 | 27440103 |
|---|---|

### ETIM

| ETIM 9.0 | EC001262 |
|---|---|

### UNSPSC

| UNSPSC 21.0 | 26121600 |
|---|---|

## 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% |

# SACC-E-M12MSL-4FE-M16XL/0,2 GRX - Device connector front mounting

## Accessories

### SACC-E-MU-M16X - Flat nut

1239863

https://www.phoenixcontact.com/in/products/1239863

Flat nut, Screw mounting, M16 x 1.5, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

### PROT-M12 FS - Sealing cap

1560251

https://www.phoenixcontact.com/in/products/1560251

M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field