

SACC-DSI-M12MSL-4FE-M16XL/0,5 - Device connector rear mounting



1163063

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Device connector rear mounting, Power, 5-position, Pin, straight, M12, L-coding, on free cable end, Individual wires, cable length: 0.5 m, 2.50 mm², PEX litz wire, potted, this item is expected to be lead-free from Q1 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

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 | 1163063 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB24 |
| Product key | ABQCGG |
| GTIN | 4063151174033 |
| Weight per piece (including packing) | 94.3 g |
| Weight per piece (excluding packing) | 91.749 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 |
| Order information: | Lock nut is included in the scope of delivery |
| General | Contact connection method: Crimp connection |

Mounting

| | |
|-------------------|---|
| Mounting type | Rear mounting (M16 x 1.5, XL version, with flat nut, tightening limitation) |
| Tightening torque | 0.8 Nm ... 1.3 Nm (Installation-side) |

Product properties

| | |
|-----------------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Application | Power |
| Sensor type | Power |
| Number of positions | 5 |
| Connection profile | 4+FE |
| No. of cable outlets | 1 |
| 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 Molding compound | PUR (potted) |
| Flammability rating according to UL 94 | V0 |
| Seal material | FKM |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA |
| Conductor material | Tin-plated Cu litz wires |

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Electrical properties

| | |
|--|--------------|
| Rated voltage in acc. with IEC 61076-2-101 | 63 V |
| Rated surge voltage | 1.5 kV |
| Rated surge voltage | 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 | Pin |
| Conductor cross-section | 2.5 mm ² |
| 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 |
| Coding | L |

Connection 2

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

Cable/line

| | |
|--------------------------|--|
| Cable length | 0.5 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 ² |
| Conductor material | Tin-plated Cu litz wires |
| AWG signal line | 10 |
| Material wire insulation | PE-X |
| Test voltage Core/Core | 6 kV |
| Halogen-free | according to IEC 60754-1 |

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| | |
|---------------------------------|--|
| Flame resistance | in acc. with UL FT-2 |
| Other resistance | Hydrolysis-resistant |
| Ambient temperature (operation) | -40 °C ... 85 °C (without mechanical actuation) |
| | -40 °C ... 85 °C (without mechanical actuation) |
| | -25 °C ... 105 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|--|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket) |
| Ambient temperature (operation) (Cable, fixed installation) | -40 °C ... 85 °C (without mechanical actuation) |
| Ambient temperature (operation) (Cable, flexible installation) | -25 °C ... 105 °C (Cable, flexible installation) |
| Ambient temperature (operation) (Cable, fixed 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 |
| Standard designation | M12 circular connector |
| Standards/specifications | according to IEC 61076-2-111 |

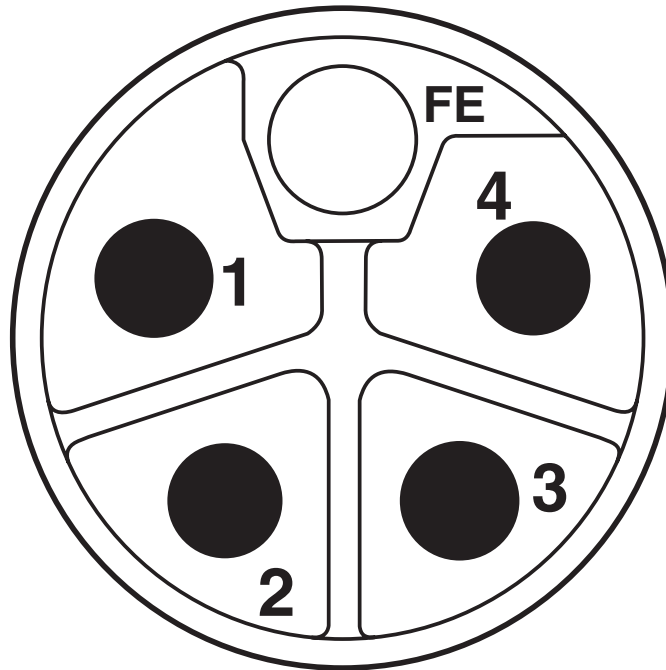
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Drawings

Schematic diagram



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


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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1163063>

| | | | | |
|---|--|-----------------------|-------------------|-----------------------------|
|  | cULus Recognized Approval ID: E468743-20180113 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 63 V | 16 A | 14 | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27440103 |

ETIM

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|----------|----------|
| ETIM 9.0 | EC003570 |
|----------|----------|

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 | 41e829c9-796b-4732-8119-f6c1846c4e04 |

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