

SACC-DSI-M12FSL4FEM16XL-L180GR - Device connector rear mounting



1425591

<https://www.phoenixcontact.com/us/products/1425591>

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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 | 1425591 |
| Packing unit | 20 pc |
| Minimum order quantity | 20 pc |
| Note | Made to order (non-returnable) |
| Sales key | AB26 |
| Product key | ABQEHN |
| GTIN | 4055626428444 |
| Weight per piece (including packing) | 18.255 g |
| Weight per piece (excluding packing) | 17.323 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 |
| 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 Contact carrier | PA |
| Material Contact | CuZn |
| Material Contact surface | Au |
| Material Seal | FKM |
| Flammability rating according to UL 94 | V0 |
| Contact carrier color | gray |

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 |
| | -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 |

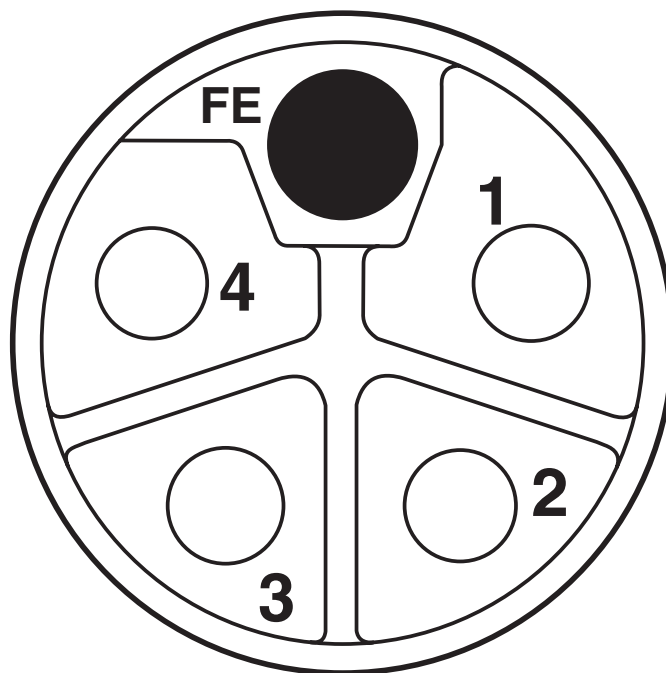
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Drawings

Schematic diagram



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

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Approvals

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| | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  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 | - | - |

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Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | 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 | 4563573b-ed4e-407e-997d-d2952584c649 |

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