

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5 - Device connector front mounting



1425628

<https://www.phoenixcontact.com/us/products/1425628>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device connector front mounting, Power, 5-position, Socket, straight, M12-Standard, L-coding, on free cable end, Individual wires, cable length: 0.2 m, 1.31 mm², UL/cUL stranded hook-up wire, potted, this item is expected to be lead-free from Q2 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 | 1425628 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB24 |
| Product key | ABQCFG |
| GTIN | 4055626425771 |
| Weight per piece (including packing) | 32.7 g |
| Weight per piece (excluding packing) | 30.116 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5 - Device connector front mounting



1425628

<https://www.phoenixcontact.com/us/products/1425628>

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 variant, tightening limitation) |
| Tightening torque | 1.5 Nm ... 2 Nm |

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

| | |
|--|------------------------------|
| Color | gray |
| 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 |
| Material for screw connection | Zinc die-cast, nickel-plated |
| Conductor material | Bare Cu litz wires |

Electrical properties

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5 - Device connector front mounting



1425628

<https://www.phoenixcontact.com/us/products/1425628>

| | |
|--|--------------|
| 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 | 12 A |
| Test voltage | 1.5 kV |
| Test voltage Core/Core | 3 kV |

Connection data

Conductor connection

| | |
|-------------------------|----------------------|
| Connection method | Individual wires |
| Contact connection type | Socket |
| Conductor cross-section | 1.31 mm ² |
| Tightening torque | 1.5 Nm ... 2 Nm |

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 | UL/cUL stranded hook-up wire |
| Signal type/category | Power |
| Wire diameter incl. insulation | 2 mm |
| Single wire, color | brown 1, white 2, blue 3, black 4, pink FE |
| Cable cross section | 1.31 mm ² |
| Conductor material | Bare Cu litz wires |
| AWG signal line | 16 |
| Material wire insulation | mPPE |
| Test voltage Core/Core | 3 kV |
| Halogen-free | yes |

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5 - Device connector front mounting



1425628

<https://www.phoenixcontact.com/us/products/1425628>

| | |
|---------------------------------|--|
| Flame resistance | in acc. to UL 1581 VW1 |
| 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. to UL 1581 VW1 |
| Standard designation | M12 circular connector |
| Standards/specifications | according to IEC 61076-2-111 |

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5 - Device connector front mounting

1425628

<https://www.phoenixcontact.com/us/products/1425628>

Drawings

Schematic diagram



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

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5 - Device connector front mounting



1425628

<https://www.phoenixcontact.com/us/products/1425628>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1425628>

|  cULus Recognized Approval ID: E468743-20180113 | | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
|--|--|-----------------------|-----------------------|-------------------|----------------------|
| keine | | 63 V | 12 A | 16 | - |

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5 - Device connector front mounting



1425628

<https://www.phoenixcontact.com/us/products/1425628>

Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC003570 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

SACC-E-M12FSL4FEM16XL/0,2GR/-1,5 - Device connector front mounting



1425628

<https://www.phoenixcontact.com/us/products/1425628>

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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com