

# SACC-M12FSL-4CT-CM SH - Power connector



1027480

<https://www.phoenixcontact.com/in/products/1027480>

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Power connector, Power, 4-position, shielded, Socket straight M12, coding: L, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 8 mm ... 13 mm, without crimp contacts

## Your advantages

- Extremely compact, thanks to the small wiring space and high contact density
- Safely shielded: reliable shield connection even under extreme mechanical strain
- Robust connection: suitable for railway applications with high shock and vibration loads
- High-performance: DC connectors for up to 16 A and 63 V DC
- Protected seal in the M12 socket
- Protection against mismatching, thanks to special L-coding

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1027480             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | *****               |
| Product key                          | AF2CJB              |
| Catalog page                         | Page 278 (C-2-2019) |
| GTIN                                 | 4055626521466       |
| Weight per piece (including packing) | 46.9 g              |
| Weight per piece (excluding packing) | 47 g                |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

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## Technical data

### Notes

Assembly note

**NOTE:** Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties.

### Product properties

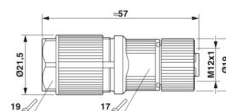
|                      |                                 |
|----------------------|---------------------------------|
| Product type         | Circular connector (cable-side) |
| Application          | Power supply                    |
| Sensor type          | Power                           |
| Number of positions  | 4                               |
| No. of cable outlets | 1                               |
| Shielded             | yes                             |
| Coding               | L                               |
| Cable outlet         | straight                        |

### Insulation characteristics

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

### Dimensions

Dimensional drawing



Length

57 mm

### External dimensions

|                  |                |
|------------------|----------------|
| Outside diameter | 8 mm ... 13 mm |
|------------------|----------------|

### Housing

|                  |         |
|------------------|---------|
| Diameter housing | 21.5 mm |
|------------------|---------|

### Material specifications

|  |                              |
|--|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Material of grip body                  | Zinc die-cast, nickel-plated |
| Contact carrier material               | PA                           |
| Material for screw connection          | Zinc die-cast, tin-plated    |

### Connection data

#### Conductor connection

|                   |                  |
|-------------------|------------------|
| Connection method | Crimp connection |
|-------------------|------------------|

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|                              |                                   |
|------------------------------|-----------------------------------|
| Connection cross section     | 1.5 mm² ... 2.5 mm² (flexible)    |
| Connection cross section AWG | 14 (flexible)                     |
| Tightening torque            | 0.6 Nm (M12 knurl)                |
|                              | Pressure nut with coupling sleeve |

## Pin assignment

|   |        |
|---|--------|
| Contact   Color (signal designation)   Contact (optional) | 1 = BN |
|   | 2 = WH |
|   | 3 = BU |
|   | 4 = BK |

## Electrical properties

|                                |                                      |
|--------------------------------|--------------------------------------|
| Rated surge voltage            | 1.5 kV                               |
| Insulation resistance          | ≥ 100 MΩ                             |
| Nominal voltage U <sub>N</sub> | 63 V DC                              |
| Nominal current I <sub>N</sub> | 16 A (when using 2.5 mm² conductors) |
|                                | 16 A (at 40 °C)                      |

## 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                             |
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |

## Standards and regulations

|                          |                          |
|--------------------------|--------------------------|
| Standard designation     | M12 connector            |
| Standards/specifications | based on IEC 61076-2-111 |

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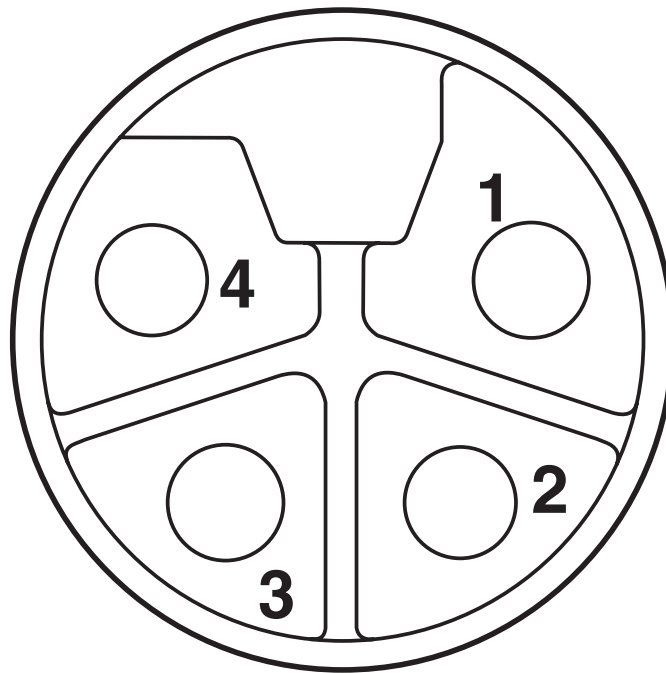


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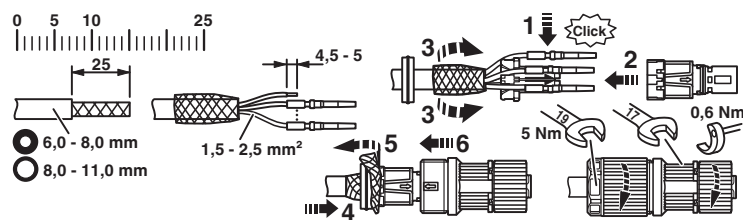
## Drawings

Schematic diagram



Pin assignment of M12 socket, 4-pos., L-coded, socket side view

Functional drawing



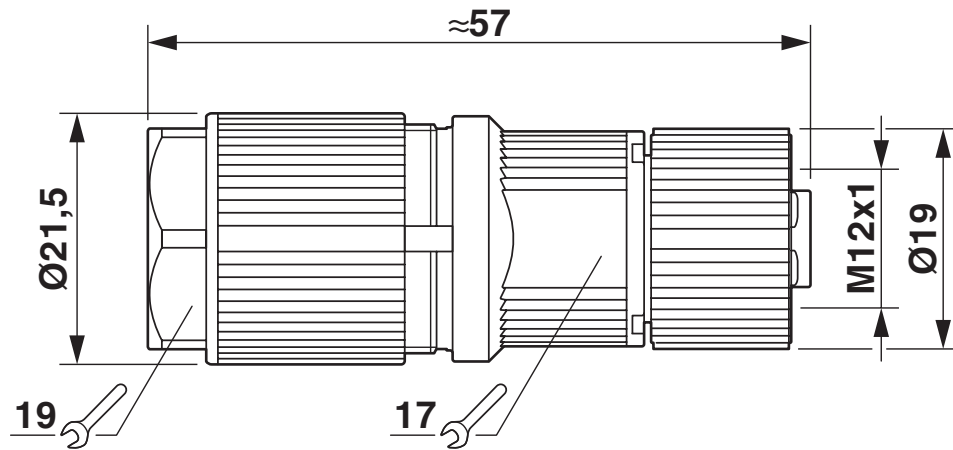
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Dimensional drawing



M12 x 1 socket, straight, shielded

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1027480>

|   |   |                       |                   |                             |
|---|---|-----------------------|-------------------|-----------------------------|
|  | <b>cULus Recognized</b><br>Approval ID: E468743 |                       |                   |                             |
|   | Nominal voltage $U_N$                           | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|   | 600 V   | 13 A                  | - 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, 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%               |



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## Mandatory accessories

### CC1,5-TS-2,10F K/L AU - Crimp contact

1029396

<https://www.phoenixcontact.com/in/products/1029396>



Crimp contact, contact diameter: 1.5 mm, turned, Socket, contact material: CuZn, contact surface: Ni/Au, connection cross section: 1.5 mm<sup>2</sup> ... 1.5 mm<sup>2</sup>, AWG 14

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### CC1,5-TS-2,50F K/L AU - Crimp contact

1029392

<https://www.phoenixcontact.com/in/products/1029392>



Crimp contact, contact diameter: 1.5 mm, turned, Socket, contact material: CuZn, contact surface: Ni/Au, connection cross section: 2.5 mm<sup>2</sup> ... 2.5 mm<sup>2</sup>, AWG 14 ... 14

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## CRIMPFOX-TC MP-6 - Crimping pliers with digital display

1202888

<https://www.phoenixcontact.com/in/products/1202888>



Crimping tool, for turned contacts, universal cross-section setting, up to a maximum of 6.0 mm<sup>2</sup>, digital display with 0.01 mm increments, pressure lock can be unlocked, positioning tool necessary as an accessory for contact positioning

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## Accessories

### CRIMPFOX-TC MP/LOC-1 - Spare locator

1142829

<https://www.phoenixcontact.com/in/products/1142829>



Locator for CRIMPFOX-TC MP6

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## WIREFOX 2,5 - Stripping tool

1212368

<https://www.phoenixcontact.com/in/products/1212368>



Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm<sup>2</sup>, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid

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## WIREFOX-D 40 - Stripping tool

1212161

<https://www.phoenixcontact.com/in/products/1212161>



Stripping tool, for stripping cables of 4.5 mm - 40 mm-Ø, insulation thickness of up to 4.5 mm, pivoting blade for round, lengthwise, and spiral cuts

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