

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



1027480

<https://www.phoenixcontact.com/us/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                            | BF34          |
| Product key                          | AF2CJB        |
| 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 | <b>NOTE:</b> 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. |
|---------------|---|

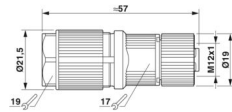
### Product properties

|                      |                                 |
|----------------------|---------------------------------|
| Product type         | Circular connector (cable-side) |
| Application          | Energy 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 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (flexible) |
| Connection cross section AWG | 14 (flexible)  |
| Tightening torque            | 0.6 Nm (M12 knurl)                                     |
|                              | Pressure nut with coupling sleeve                      |

## Connection 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 mm <sup>2</sup> 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) (male connector/female connector) | -40 °C ... 85 °C (Plug / socket) |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M12 connector                |
| Standards/specifications | according to IEC 61076-2-111 |

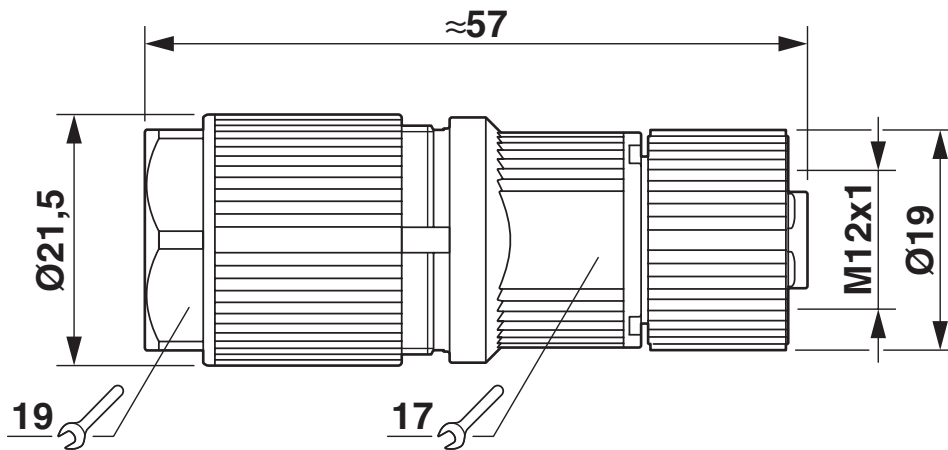
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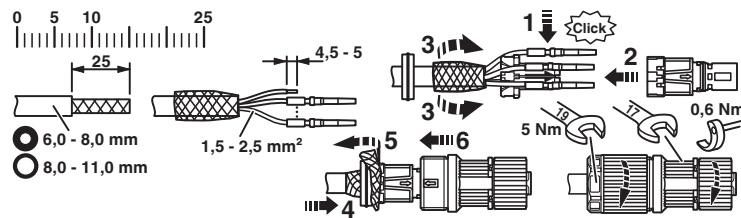
## Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Functional drawing



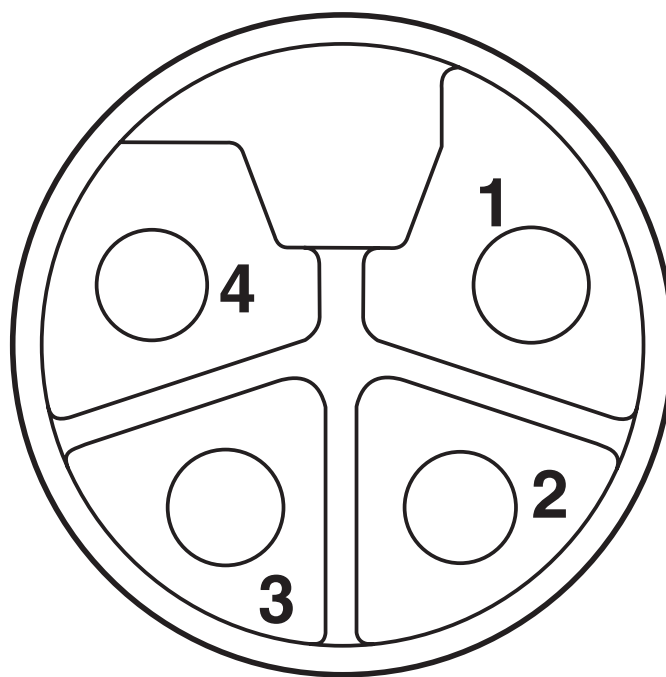
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Schematic diagram



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

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## Approvals

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

|  <b>cULus Recognized</b><br>Approval ID: E468743 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 600 V                 | 13 A                  | - 14              | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440116 |
| ECLASS-15.0 | 27440116 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)