

1151390
<https://www.phoenixcontact.com/us/products/1151390>

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Power connector, Power, 5-position, unshielded, Socket straight M12, coding: L, Push-lock spring connection, knurl material: Brass, nickel-plated, external cable diameter 8 mm ... 13 mm, Contact 5 leading

Your advantages

- Time-saving Push-Lock connection: Tool-free connection and disconnection of conductors by opening the contact levers
- Intuitive connection: Easy assignment of individual litz wires with color-coded and numerical identification of the contact levers
- Integrated Push-in Technology: Wire rigid and pretreated conductors easily by means of simple, direct insertion
- Shock- and vibration-resistant connection: Proven spring-cage technology guarantees secure and reliable contacting
- Protected seal in the M12 socket

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1151390 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF33 |
| Product key | BF2CEP |
| GTIN | 4063151149352 |
| Weight per piece (including packing) | 90.7 g |
| Weight per piece (excluding packing) | 90.7 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

SACC-M12FSL-4FEPL-CL - Power connector



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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. |
|---------------|---|

Mounting

| | |
|---------------|--|
| Assembly note | The wires can be connected both with ferrules and without ferrules |
|---------------|--|

Product properties

| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Application | Power supply |
| Sensor type | Power |
| Number of positions | 5 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | L |
| Cable outlet | straight |

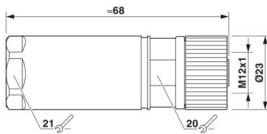
Data management status

| | |
|------------------|----|
| Article revision | 00 |
|------------------|----|

Insulation characteristics

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 23 mm |
| Height | 23 mm |
| Length | 69 mm |

External dimensions

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

Housing

| | |
|------------------|-------|
| Diameter housing | 23 mm |
|------------------|-------|

Material specifications

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| | |
|--|----------------------|
| Flammability rating according to UL 94 | V0 |
| Material of grip body | Brass, nickel-plated |
| Contact surface material | Au |
| Contact carrier material | PA |
| Material for screw connection | Brass, nickel-plated |

Connection data

Conductor connection

| | |
|---|--|
| Connection method | Push-lock spring connection |
| Connection cross section | 1.5 mm² ... 2.5 mm² |
| | 0.75 mm² ... 2.5 mm² (with ferrule) |
| | 1.5 mm² ... 1.5 mm² (solid) |
| Connection cross section AWG | 16 ... 14 (without ferrule) |
| | 18 ... 14 (with ferrule) |
| Stripping length of the individual wire | 10 mm |
| Tightening torque | 0.6 Nm (M12 knurl) |
| | 5 Nm (Pressure nut with connector housing) |

Pin assignment

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

Electrical properties

| | |
|-----------------------|--------------------------------------|
| Rated surge voltage | 1.5 kV |
| Nominal voltage U_N | 63 V DC |
| Nominal current I_N | 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 |
|----------------------|-------|

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| | |
|---|-------|
| Stripping length of the individual wire | 10 mm |
|---|-------|

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Degree of protection | IP65 |
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |
| Ambient temperature (assembly) | -5 °C ... 50 °C (Plug / socket) |

Standards and regulations

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

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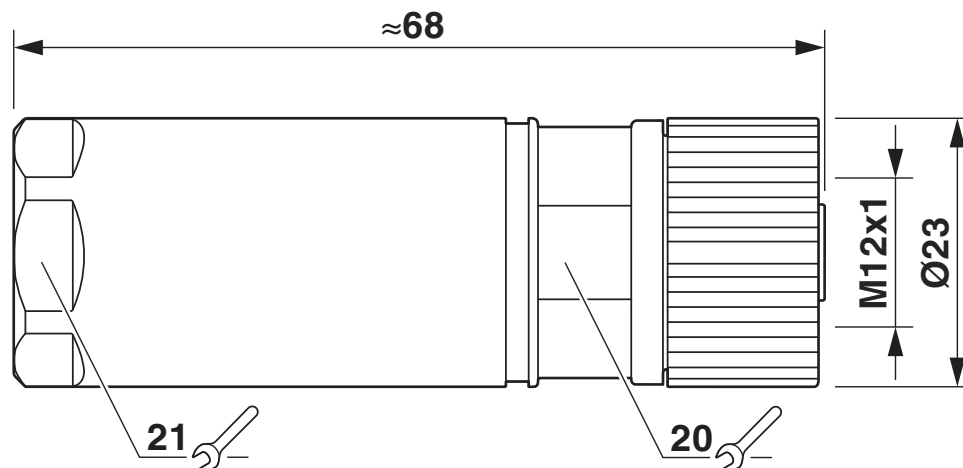


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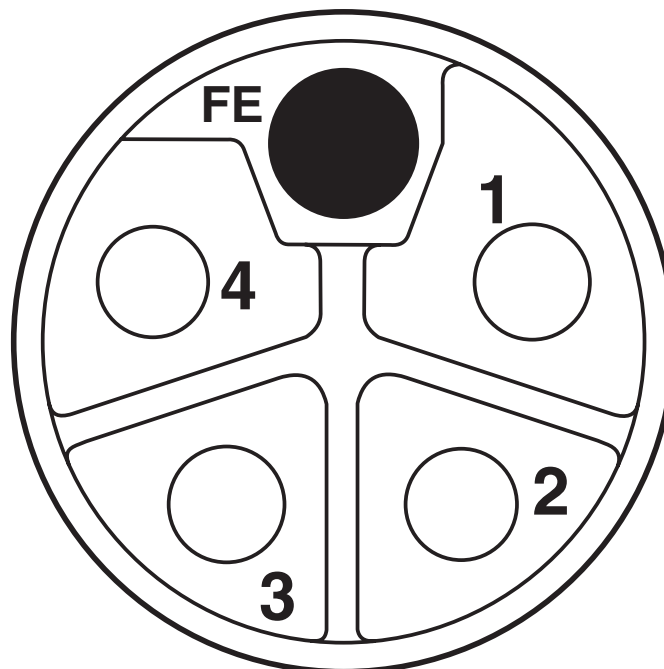
Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



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

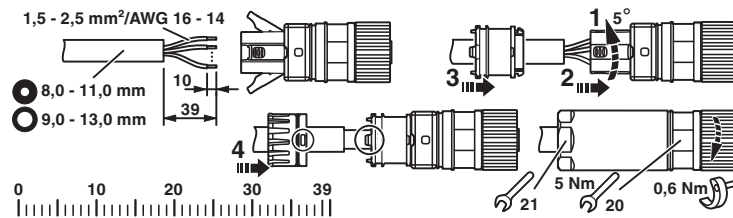
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Functional drawing



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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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Accessories

AI 2,5 -10 BU - Ferrule

3202533

<https://www.phoenixcontact.com/us/products/3202533>



Ferrule, sleeve length: 10 mm, color: blue

AI 1,5 -10 BK - Ferrule

3200195

<https://www.phoenixcontact.com/us/products/3200195>



Ferrule, sleeve length: 10 mm, color: black

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TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/us/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/us/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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SACC BIT M12-D23 - Tool

1202885

<https://www.phoenixcontact.com/us/products/1202885>

Nut for assembling M12 connectors for assembly with a knurl diameter of 23 mm, for 4 mm hexagonal drive



WIREFOX 2,5 - Stripping tool

1212368

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



Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm, self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm² stranded/1.5 mm² solid

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WIREFOX SAC - Stripping tool

1212623

<https://www.phoenixcontact.com/us/products/1212623>



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

CRIMPFOX VARIO 4S - Crimping pliers

1108766

<https://www.phoenixcontact.com/us/products/1108766>



Crimping pliers, contact connection type: Insulated and uninsulated ferrules, min. cross section: 0.25 mm², max. cross section: 4 mm², compression: Square crimp, weight 401, black/green

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CRIMPFOX CENTRUS 10S - Crimping pliers

1213154

<https://www.phoenixcontact.com/us/products/1213154>



Crimping pliers, for uninsulated and insulated ferrules, DIN 46228 Part 1 and 4, from 0.14 mm² ... 10 mm², also for TWIN ferrules up to 2 x 4 mm², automatic cross section adjustment, lateral insertion, equipped with fall protection

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