

# SACC-M12FSL-4FEPL-CL M - Power connector



1646350

<https://www.phoenixcontact.com/in/products/1646350>

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Power connector, Power, 5-position, unshielded, Socket straight M12, coding: L, Push-lock spring connection, knurl material: Zinc die-cast, 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	1646350
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF2CEP
GTIN	4067923233287
Weight per piece (including packing)	51.2 g
Weight per piece (excluding packing)	51.2 g
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.
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### Mounting

Assembly note	The wires can be connected both with ferrules and without ferrules
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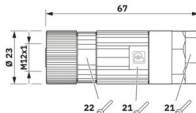
### Product properties

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

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Dimensions

Dimensional drawing	
Width	23 mm
Height	23 mm
Length	67 mm

### External dimensions

Outside diameter	8 mm ... 13 mm
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### Housing

Diameter housing	23 mm
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### Material specifications

Material	PA 6 (Actuation lever)
Flammability rating according to UL 94	V0
Seal material	NBR

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Material of grip body	PA 6.6
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

## Connection data

### Conductor connection

Connection method	Push-lock spring connection
Connection cross section	1.5 mm² ... 2.5 mm²
	1.5 mm² ... 2.5 mm² (with ferrule)
	1.5 mm² ... 2.5 mm² (solid)
Connection cross section AWG	16 ... 14 (without ferrule)
	16 ... 14 (with ferrule)
Stripping length of the individual wire	10 mm
Tightening torque	0.6 Nm (M12 knurl)
	3 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
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## 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
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

## Standards and regulations

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

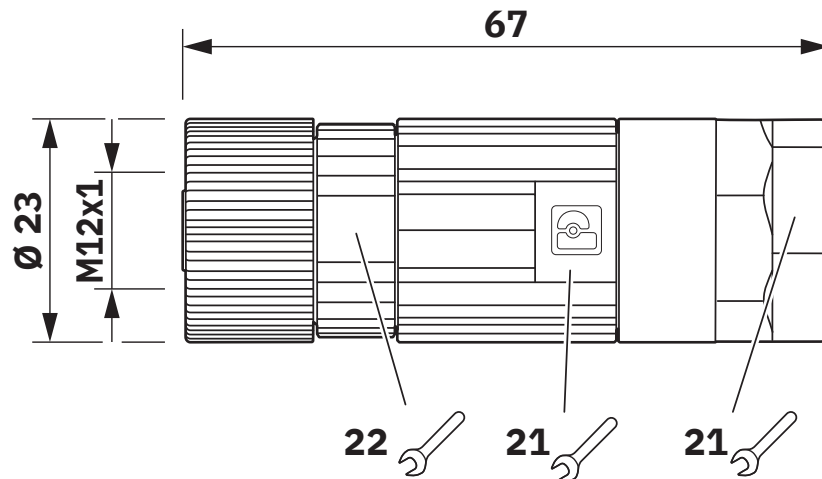
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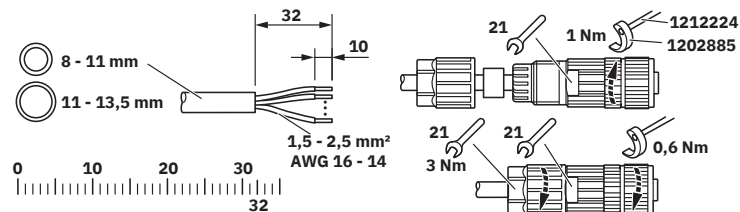
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## Drawings

Dimensional drawing



Functional drawing



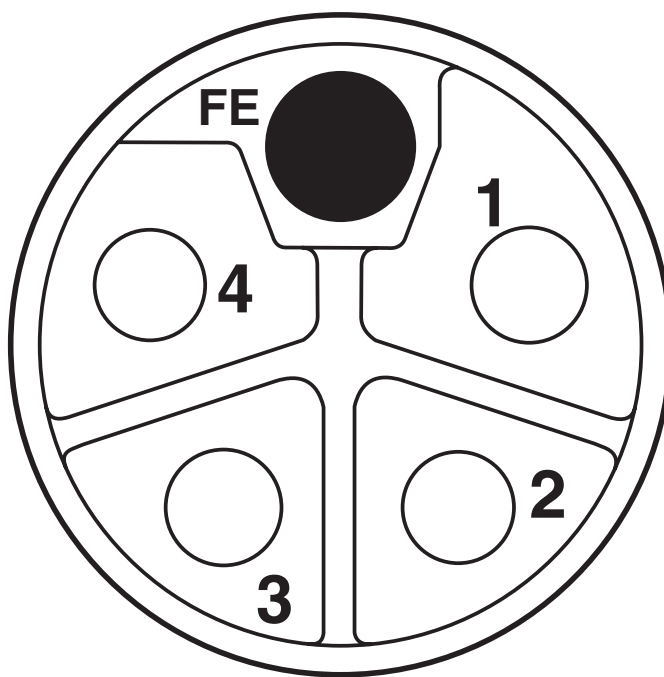
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Schematic diagram



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

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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-13.0	27440116

### ETIM

ETIM 9.0	EC002635
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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/in/products/3202533>



Ferrule, Length contact range: 10 mm, sleeve length: 17 mm, color: blue

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### AI 1,5 -10 BK - Ferrule

3200195

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



Ferrule, Length contact range: 10 mm, sleeve length: 16 mm, color: black

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## TSD-M 1,2NM - Torque screwdriver

1212224

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



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

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## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

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

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



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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 SAC - Stripping tool

1212623

<https://www.phoenixcontact.com/in/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

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## CRIMPFOX VARIO 4S - Crimping pliers

1108766

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



Crimping pliers, contact connection type: Insulated and uninsulated ferrules, min. cross section: 0.25 mm<sup>2</sup>, max. cross section: 4 mm<sup>2</sup>, compression: Square crimp, weight 401 g, black/green

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## CRIMPFOX CENTRUS 10S - Crimping pliers

1213154

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



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

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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)