

SACC-M12MSL-4FEPL-CL M - Power connector



1646349

<https://www.phoenixcontact.com/in/products/1646349>

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Power connector, Power, 5-position, unshielded, Plug straight M12, coding: L, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 8 mm ... 13 mm

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

Commercial data

Item number	1646349
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	AF2CEP
GTIN	4067923233669
Weight per piece (including packing)	34 g
Weight per piece (excluding packing)	34 g
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.

Mounting

Assembly note

The wires can be connected both with ferrules and without ferrules

Product properties

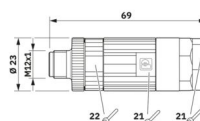
Product type	Circular connector (cable-side)
Application	Power supply
Sensor type	Power
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	L
Cable outlet	straight

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
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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 mm ² ... 2.5 mm ²
	1.5 mm ² ... 2.5 mm ² (with ferrule)
	1.5 mm ² ... 2.5 mm ² (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 mm ² conductors)
	16 A (at 40 °C)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Connector

Connection 1

Head design	Plug
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

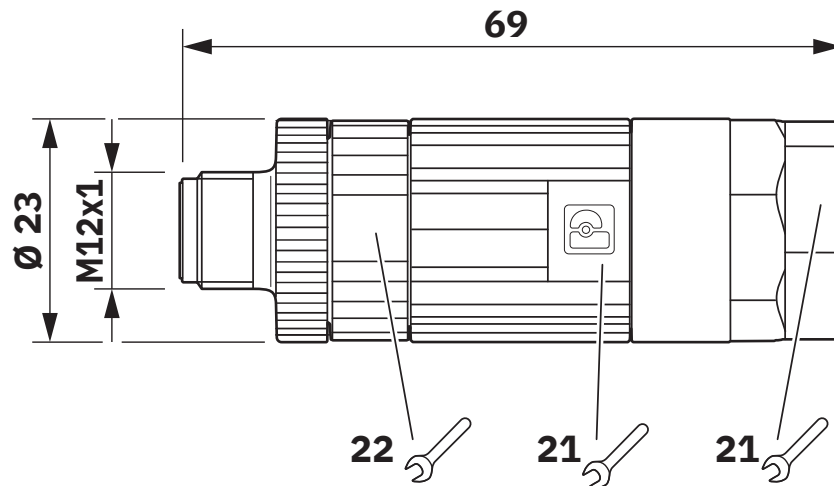
Degree of protection	IP67
Ambient temperature (operation)	-40 °C ... 85 °C (Plug / socket)

Standards and regulations

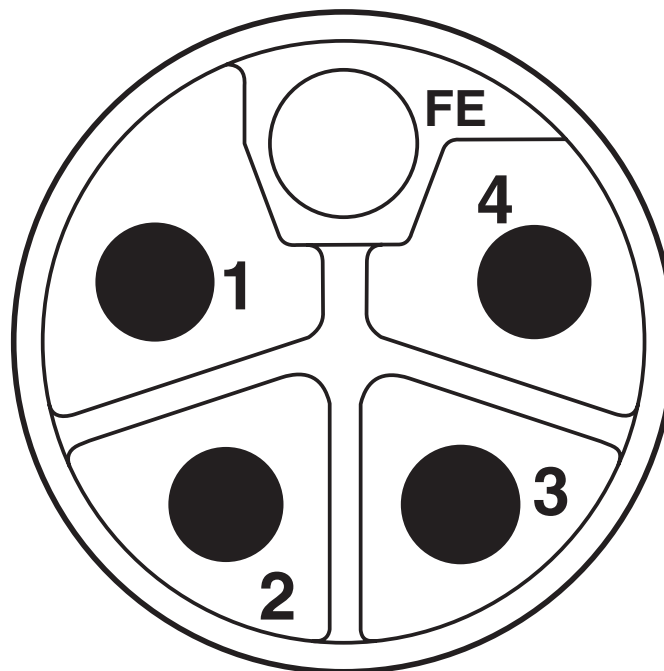
Standard designation	M12 connector
Standards/specifications	based on IEC 61076-2-111

Drawings

Dimensional drawing



Schematic diagram



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

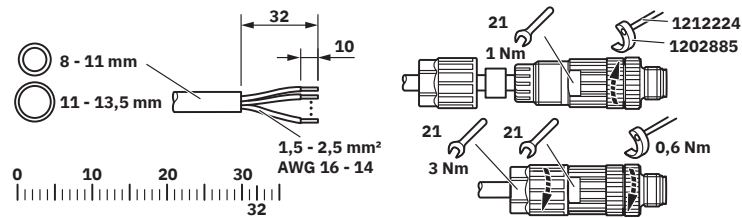
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Functional drawing



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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
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

AI 1,5 -10 BK - Ferrule

3200195

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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

TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

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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



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, 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/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

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 mm², max. cross section: 4 mm², 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 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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