

1425642  
<https://www.phoenixcontact.com/us/products/1425642>

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Contact carrier, Power, 4-position, Socket, straight, M12, coding: L, PCB mounting, THR solder connection

Your advantages

- For compact devices: transmit high power in a confined space
- Reduced mounting costs thanks to two-piece device connector
- Packaging available for automated pick and place assembly
- All common pin assignments and codings available
- Easy device integration, thanks to mechanical port screw connections with threaded fastening
- Additional gasket for the device when not plugged in

Commercial data

Item number	1425642
Packing unit	60 pc
Minimum order quantity	60 pc
Note	Made to order (non-returnable)
Sales key	AB23
Product key	ABQAGL
GTIN	4055626431635
Weight per piece (including packing)	9.93 g
Weight per piece (excluding packing)	9.93 g
Customs tariff number	85366990
Country of origin	DE

# SACC-CI-M12FSL-4CON-L180 THR SH R - Contact carrier



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## Technical data

### Notes

Notes on operation	The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration.
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### Product properties

Product type	Contact insert
Application	Power
Sensor type	Power
Number of positions	4
Seal present	yes
Shielded	yes
Coding	L
Thread type	M12

### Data management status

Article revision	05
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### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	1.5 kV
Nominal voltage $U_N$	63 V
Nominal current $I_N$	16 A

### Connection data

Connection method	THR solder connection
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### Interfaces

Signal type/category	Power
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### Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 4T

### Connector

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## 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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## Mechanical properties

### Mechanical data

Insertion/withdrawal cycles	> 100
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection (when plugged in)	IP67 (correctly plugged in and locked)
Degree of protection	IP67 (correctly plugged in and locked)
	IP67, when plugged in
Ambient temperature (operation)	-25 °C ... 105 °C
	-40 °C ... 105 °C (without mechanical actuation)

## Standards and regulations

### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Note	In line with

## Mounting

Mounting type	PCB mounting
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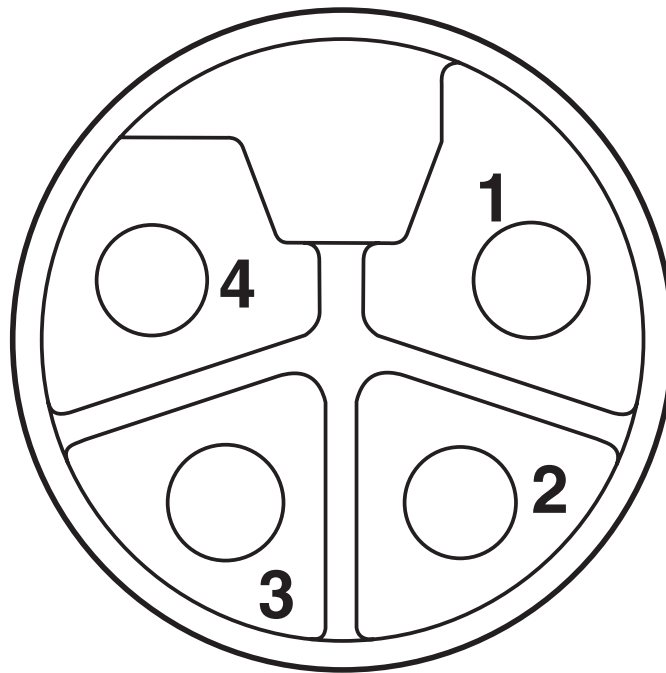


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## Drawings

Schematic diagram




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

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Approvals

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<div> <b>cULus Recognized</b> Approval ID: E468743-20180113</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	63 V	16 A	-	-

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## Classifications

### ECLASS

ECLASS-11.0	27440109
ECLASS-12.0	27440109
ECLASS-13.0	27440109

### ETIM

ETIM 9.0	EC003569
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### 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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