

# SACC-CI-M12MSK-4PE-L180 THR R - Contact carrier



1420830

<https://www.phoenixcontact.com/us/products/1420830>

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Contact carrier, Power, 5-position, Pin, straight, M12, K-coding, THR solder connection, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## 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	1420830
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGR
GTIN	4055626280578
Weight per piece (including packing)	11.065 g
Weight per piece (excluding packing)	3.768 g
Customs tariff number	85366990
Country of origin	DE

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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	5
Connection profile	4+PE
No. of power contacts	4
Seal present	yes
Coding	K
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated voltage in acc. with IEC 61076-2-101	690 V
Rated surge voltage	6 kV
Nominal voltage $U_N$	690 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

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

### Connector

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## Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M12
Coding	K

## Cable/line

Signal type/category	Power
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## Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	> 100

## Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP67 (correctly plugged in and locked)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 105 °C -40 °C ... 105 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

## Standards and regulations

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

## Packaging specifications

Type of packaging	Belt
Delivery state	with assembly pad

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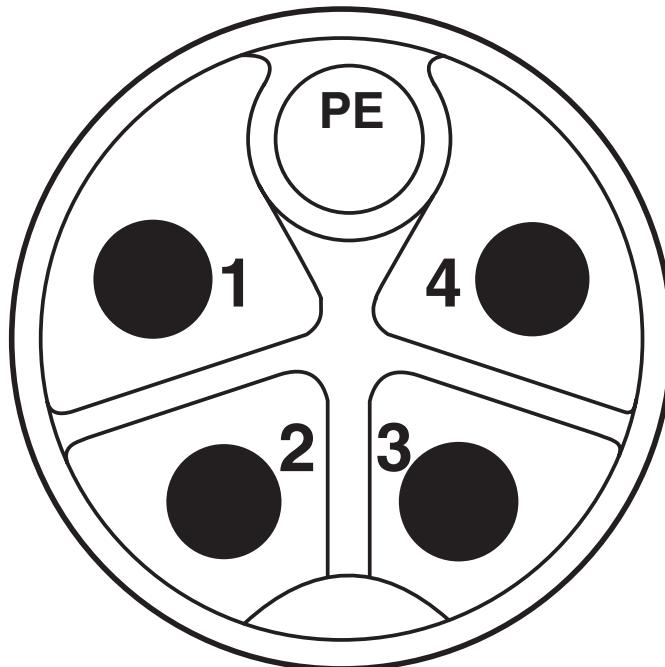
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## Drawings

Schematic diagram



Connector pin assignment of M12 plug, 5-pos., K-coded, pin side view

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## Approvals

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cULus Recognized				
Approval ID: E468743-20180113				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine	600 V	16 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

### ETIM

ETIM 9.0	EC003557
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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
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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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