

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



1420830

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

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Contact carrier, Power, 5-position, Pin, straight, M12, coding: K, PCB mounting, 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	ABQ
Product key	ABQAGR
GTIN	4055626280578
Weight per piece (including packing)	11.065 g
Weight per piece (excluding packing)	11.065 g
Customs tariff number	85366990
Country of origin	DE

## 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
Seal present	yes
Coding	K
Thread type	M12

#### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Nominal voltage $U_N$	630 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

#### Connection 1

Head design	Pin
Head cable outlet	straight

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Head thread type	M12
Coding	K

## 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)
UL Type Rating	Type 4 (indoor use only)

## 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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## Packaging specifications

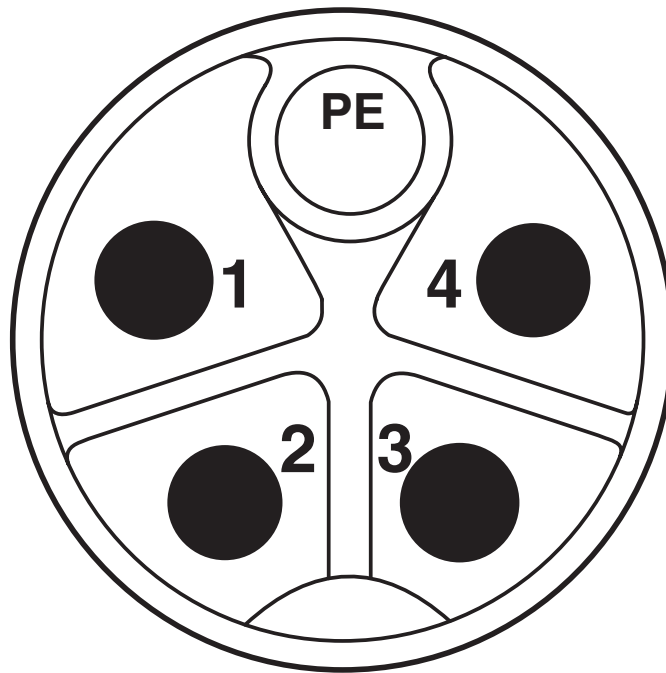
Type of packaging	Belt
Delivery state	with assembly pad

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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

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1420830>

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

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## Classifications

### ECLASS

ECLASS-13.0	27440223
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### 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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## Accessories

### SACC-CIM12MSK4PEL180THRSAMPLE - Sample set

1423415

<https://www.phoenixcontact.com/in/products/1423415>



Sample set, Power, 5-position, Pin, straight, coding: K, PCB mounting, THR solder connection

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### SACC-FP-M-M12/M14 THR PW - Housing screw connection

1420824

<https://www.phoenixcontact.com/in/products/1420824>



Housing screw connection, Pin, M12, Front mounting, THR- und Wellenlötkontakte, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239324

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## SACC-BP-M-M12/M15-6-THR PW - Housing screw connection

1420826

<https://www.phoenixcontact.com/in/products/1420826>



Housing screw connection, Pin, M12, Rear mounting, M15 x 1, THR- und Wellenlötkontakte, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239326

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## SACC-FP-M-M12-THR PW PP - Housing screw connection

1108115

<https://www.phoenixcontact.com/in/products/1108115>



Housing screw connection with M12 standard thread, push-pull, with O-ring, for 2-piece K-, L-, and M-coded THR contact carriers

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## SACC-BP-M-M12-THR PW PP - Housing screw connection

1108101

<https://www.phoenixcontact.com/in/products/1108101>



Housing screw connection with M12 standard thread, push-pull, with O-ring, for 2-piece K-, L-, and M-coded THR contact carriers

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