

1420819

<https://www.phoenixcontact.com/us/products/1420819>

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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	1420819
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGQ
GTIN	4055626280653
Weight per piece (including packing)	5.28 g
Weight per piece (excluding packing)	3.768 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
Connection profile	4+PE
No. of power contacts	4
Seal present	yes
Shielded	no
Coding	K
Thread type	M12

#### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Nominal voltage $U_N$	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

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



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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
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## 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

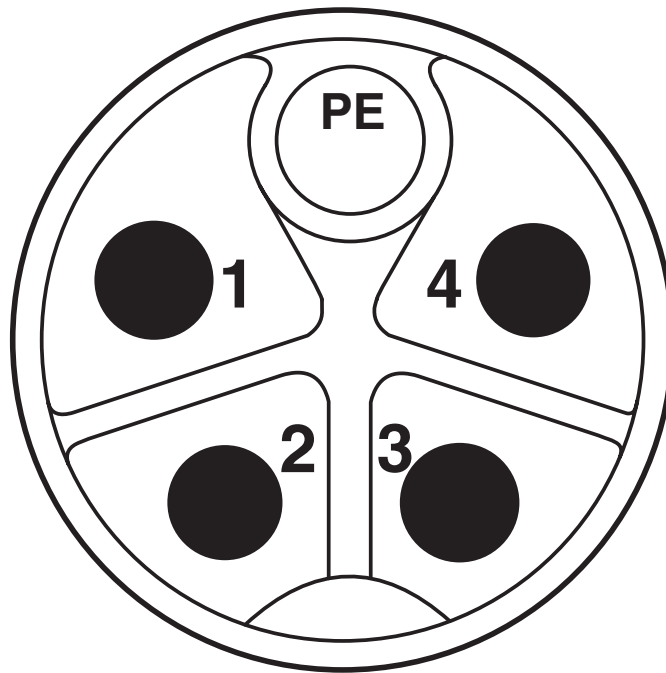
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

## Packaging specifications

Type of packaging	Tray
Delivery state	with assembly pad

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