

# SACC-CI-M12MSM-5PE-L180 THR T - Contact carrier



1420822

<https://www.phoenixcontact.com/us/products/1420822>

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Contact carrier, Power, 6-position, Pin, straight, M12, M-coding, THR solder connection, this item is expected to be lead-free from Q1 2027 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## 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	1420822
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGQ
GTIN	4055626280677
Weight per piece (including packing)	4.747 g
Weight per piece (excluding packing)	3.297 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	6
Connection profile	5+PE
No. of power contacts	5
Seal present	yes
Coding	M
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 $I_N$	8 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

Connection 1

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

## 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

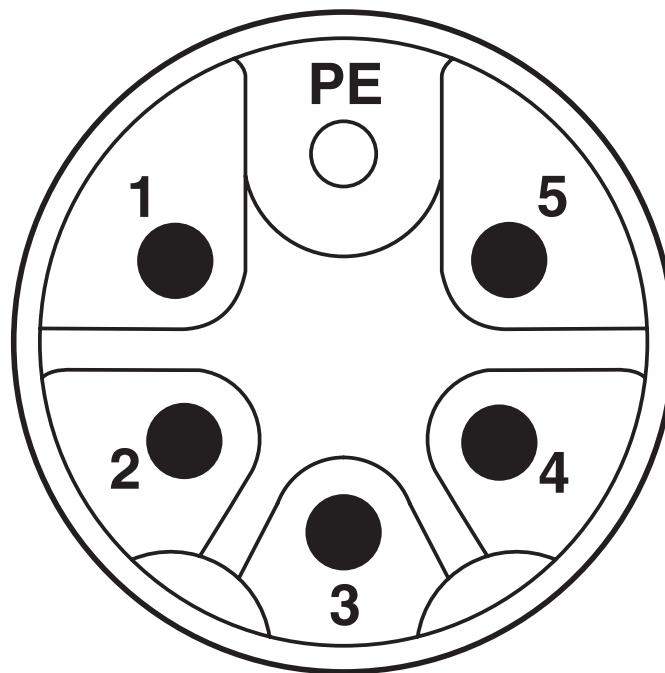
Type of packaging	Tray
Delivery state	with assembly pad

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## Drawings

Schematic diagram



Pin assignment of M12 connector, 6-pos., M-coded, pin side view

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## Approvals

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 <b>cULus Recognized</b> Approval ID: E468743-20180113				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	10 A	-	-

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## Classifications

### ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

### ETIM

ETIM 10.0	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
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	95ae3c62-8ed0-4169-be55-e084f212b298

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