

# SACC-CI-M12FSS-4CON-L180 THR PE - Contact carrier



1406409

<https://www.phoenixcontact.com/us/products/1406409>

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Contact carrier, Universal, 4-position, Socket, straight, M12, S-coding, THR solder connection, this item is expected to be lead-free from Q2 2026 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
- All common pin assignments and codings available
- Easy device integration thanks to mechanical port screw connections with threaded attachment, press-in contour or direct integration in the front plate
- Packaging available for automated pick and place assembly

## Commercial data

Item number	1406409
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB23
Product key	ABQAGU
GTIN	4046356804349
Weight per piece (including packing)	4.5 g
Weight per piece (excluding packing)	2.89 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	Universal
Number of positions	4
Connection profile	3+PE
No. of power contacts	3
Seal present	no
Shielded	no
Coding	S
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	630 V
Nominal current $I_N$	12 A

### Connection data

Connection method	THR solder connection
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### Interfaces

Signal type/category	Universal
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### Material specifications

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

### Connector

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## Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	S

## Cable/line

Signal type/category	Universal
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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)

## Packaging specifications

Type of packaging	Blister
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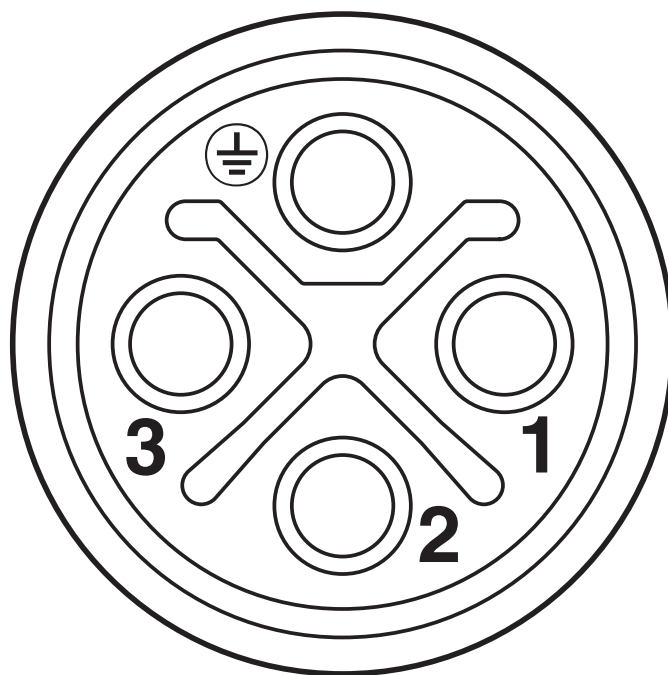
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## Drawings

Schematic diagram



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

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## Approvals

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 <b>cUL Recognized</b> Approval ID: E468743-20190917				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	600 V	12 A	16	-

 <b>UL Recognized</b> Approval ID: E468743-20190917				
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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, 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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