

1442052  
<https://www.phoenixcontact.com/us/products/1442052>

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Contact carrier, 12-position, Socket, straight, M12, coding: A, PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239761

Your advantages

- 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 attachment, press-in contour or direct integration in the front plate
- Additional gasket for the device when not plugged in

Commercial data

Item number	1442052
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGG
Catalog page	Page 257 (C-2-2013)
GTIN	4046356533126
Weight per piece (including packing)	5.47 g
Weight per piece (excluding packing)	4.9 g
Customs tariff number	85366990
Country of origin	DE



# SACC-CI-M12FS-12CON-L180 THRSH - Contact carrier



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## Technical data

### Notes

General	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
Number of positions	12
Application	Signal
Seal present	yes
Shielded	yes
Coding	A
Thread type	M12

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	30 V
Nominal current $I_N$	1.5 A

### Connection data

Connection method	THR solder connection
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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	PPA

### Connector

#### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12



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Coding	A
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## Cable/line

Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (Cable, flexible installation)

## 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
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
	-25 °C ... 85 °C (Cable, flexible installation)
	-40 °C ... 85 °C (cable, fixed installation)

## Standards and regulations

### M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

## Mounting

Mounting type	PCB mounting
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## Packaging specifications

Type of packaging	Tray
Delivery state	with assembly pad



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## Classifications

### ECLASS

ECLASS-11.0	27440223
ECLASS-12.0	27440116
ECLASS-13.0	27440223

### ETIM

ETIM 9.0	EC003557
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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