

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



1418344

<https://www.phoenixcontact.com/us/products/1418344>

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Contact carrier, Universal, 4-position, Socket, straight, M12, coding: S , PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239192

## 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 attachment, press-in contour or direct integration in the front plate

## Commercial data

Item number	1418344
Packing unit	1 pc
Minimum order quantity	60 pc
Sales key	AB27
Product key	ABQAGV
GTIN	4055626170695
Weight per piece (including packing)	10.289 g
Weight per piece (excluding packing)	8.6 g
Customs tariff number	85366990
Country of origin	DE

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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
Sensor type	Universal
Number of positions	4
Application	Power
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

### Interfaces

Signal type/category	Universal
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### Material specifications

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

### Connector

#### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12

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Coding	S
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## 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 (when plugged in)	IP67 (correctly plugged in and locked)
Degree of protection	IP67 (correctly plugged in and locked) IP67
Ambient temperature (operation)	-25 °C ... 105 °C -40 °C ... 105 °C (without mechanical actuation)

## Standards and regulations

### M12

Standard designation	M12 connector
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## Mounting

Mounting type	PCB mounting
Connection method	THR solder connection

## Packaging specifications

Type of packaging	Belt
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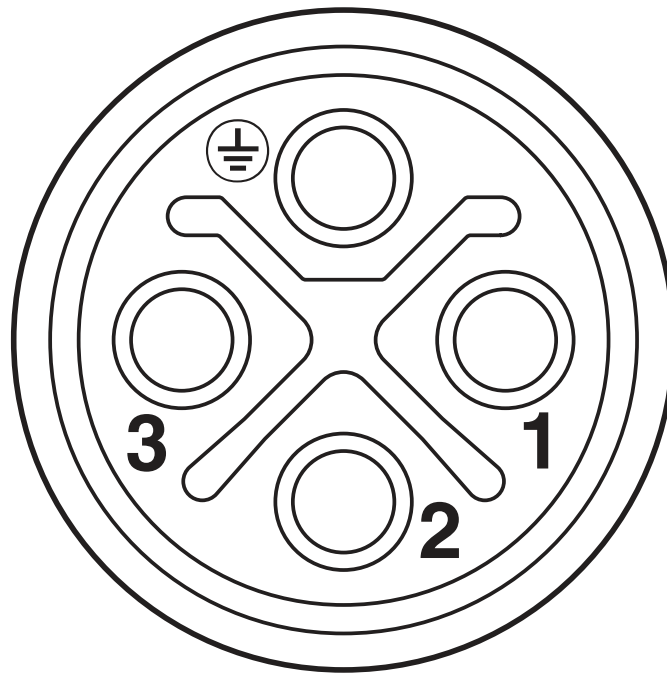
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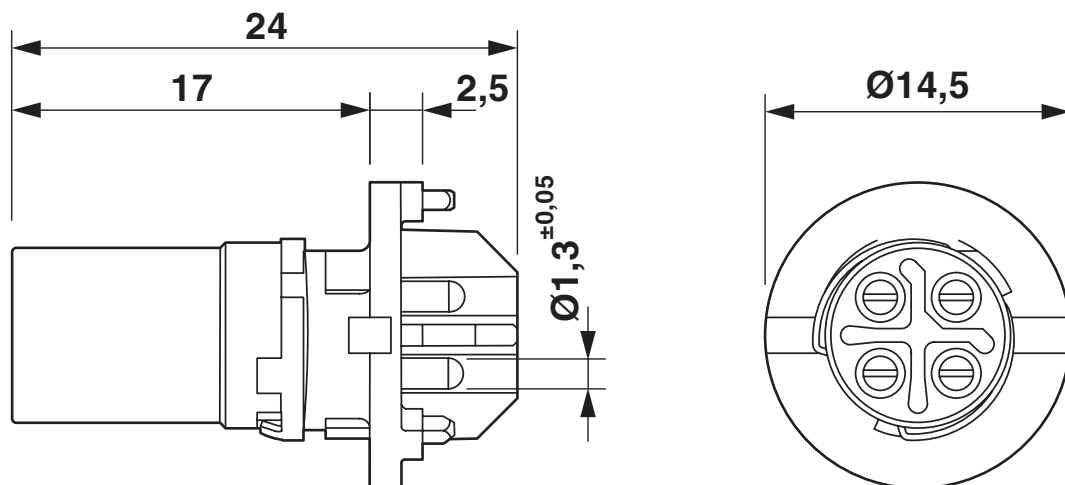
## Drawings

Schematic diagram



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

Dimensional drawing



Dimensional drawing

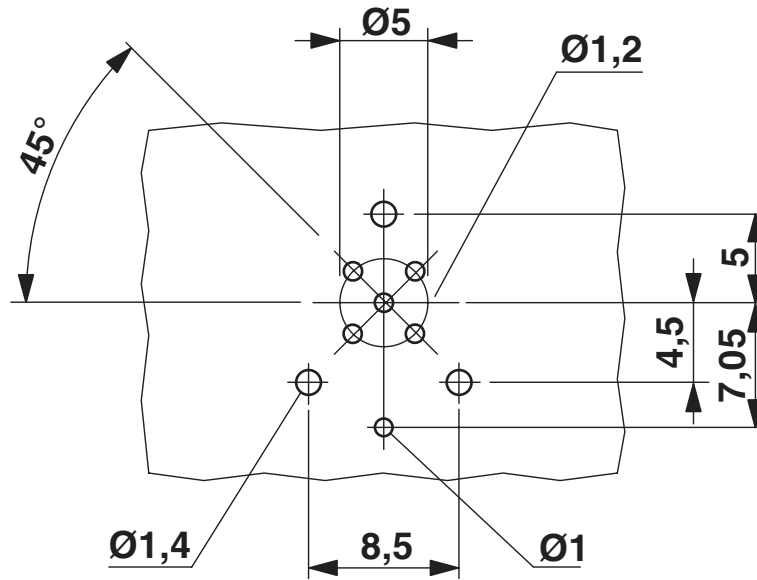
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Drilling plan/solder pad geometry



Drilling diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1418344>



**EAC**

Approval ID: B.01687



**cUL Recognized**

Approval ID: E468743-20190917

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	12 A	- 16	-



**UL Recognized**

Approval ID: E468743-20190917

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	600 V	12 A	- 16	-

**cULus Recognized**

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## Classifications

### ECLASS

ECLASS-11.0	27440102
ECLASS-12.0	27440116
ECLASS-13.0	27440116

### ETIM

ETIM 8.0	EC002635
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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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## Accessories

### SACC-M12-SCO NUT - Housing screw connection

1552243

<https://www.phoenixcontact.com/us/products/1552243>



Housing screw connection, Socket, M12-SPEEDCON, Front mounting, M12 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1237399

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### SACC-DSIV-M12-NUT - Housing screw connection

1416144

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Housing screw connection, Plug, M12, Front mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239107

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## SACC-DSIV-M12-NUT-9 THR - Housing screw connection

1417989

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Housing screw connection, Front mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239181

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## SACC-M12-SCO NUT L 90 - Housing screw connection

1432460

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Housing screw connection, Front mounting, M12 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1237409

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

1414004

<https://www.phoenixcontact.com/us/products/1414004>



Housing screw connection, Socket, M12, Rear mounting, M15 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239056

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## SACC-BP-F-M12/M15-7-THR - Housing screw connection

1414003

<https://www.phoenixcontact.com/us/products/1414003>



Housing screw connection, Socket, M12, Rear mounting, M15 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239055

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## SACC-BP-F-M12/M15-6-THR SCO - Housing screw connection

1414020

<https://www.phoenixcontact.com/us/products/1414020>



Housing screw connection, Socket, M12-SPEEDCON, Rear mounting, M15 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239057

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## SACC-BP-F-M12/M15-7-THR SCO - Housing screw connection

1414005

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Housing screw connection, Socket, M12-SPEEDCON, Rear mounting, M15 x 1, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1237398

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## SACC-M12 NUT PRESS - Housing screw connection

1437889

<https://www.phoenixcontact.com/us/products/1437889>



Housing screw connection, Socket, M12, Front mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1237410

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