

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, 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
- 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	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGV
GTIN	4055626170695
Weight per piece (including packing)	10.289 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
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 (when plugged in)	IP67 (correctly plugged in and locked)
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	Belt
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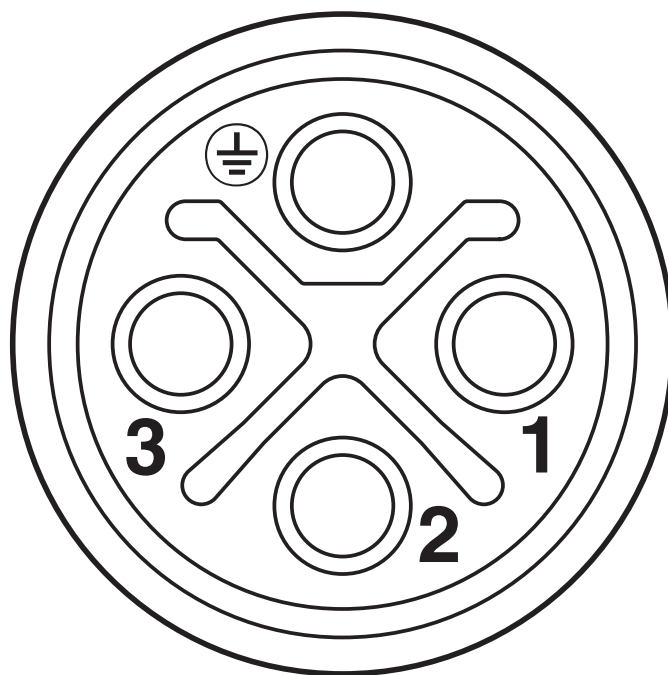
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Drawings

Schematic diagram



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

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Approvals

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

 cUL Recognized Approval ID: E468743-20190917				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	12 A	16	-

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	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
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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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