

SACC-CIP-M12FS-5P SMD T - Contact carrier



1411937

<https://www.phoenixcontact.com/us/products/1411937>

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Contact carrier, 5-position, Socket, straight, M12, coding: A, PCB mounting, SMD reflow, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1308045

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	1411937
Packing unit	1 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQBGS
GTIN	4046356990677
Weight per piece (including packing)	3.59 g
Weight per piece (excluding packing)	3.435 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
Number of positions	5
Application	Signal
Seal present	yes
Shielded	no
Coding	A
Thread type	M12

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	60 V
Nominal current I_N	4 A

Material specifications

Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA

Connector

Connection 1

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

Mechanical properties

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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
Ambient temperature (operation)	-25 °C ... 105 °C (Plug / socket)
	-40 °C ... 105 °C (without mechanical actuation)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101
Note	In line with

Mounting

Mounting type	PCB mounting
Connection method	SMD reflow

Packaging specifications

Type of packaging	Tray
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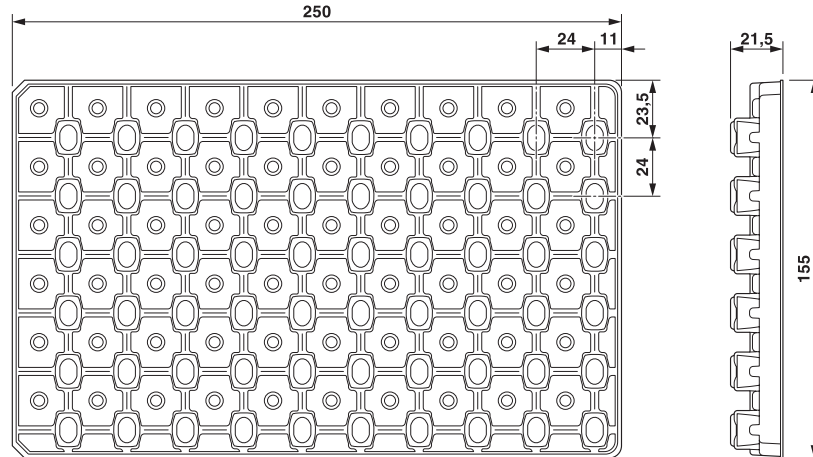
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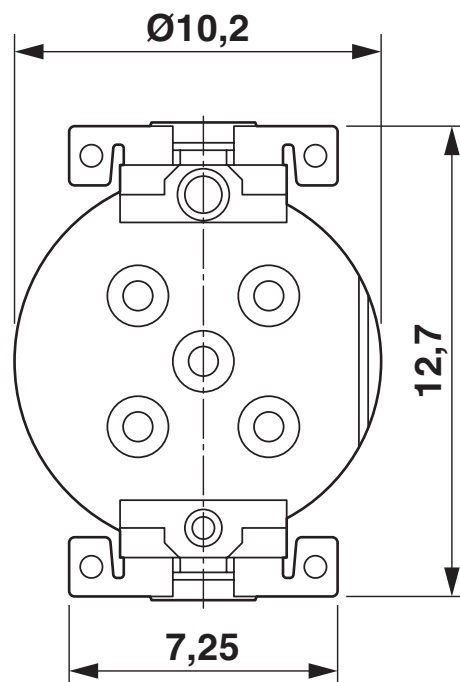
Drawings

Dimensional drawing



SMD tray packaging

Dimensional drawing



View of solder side

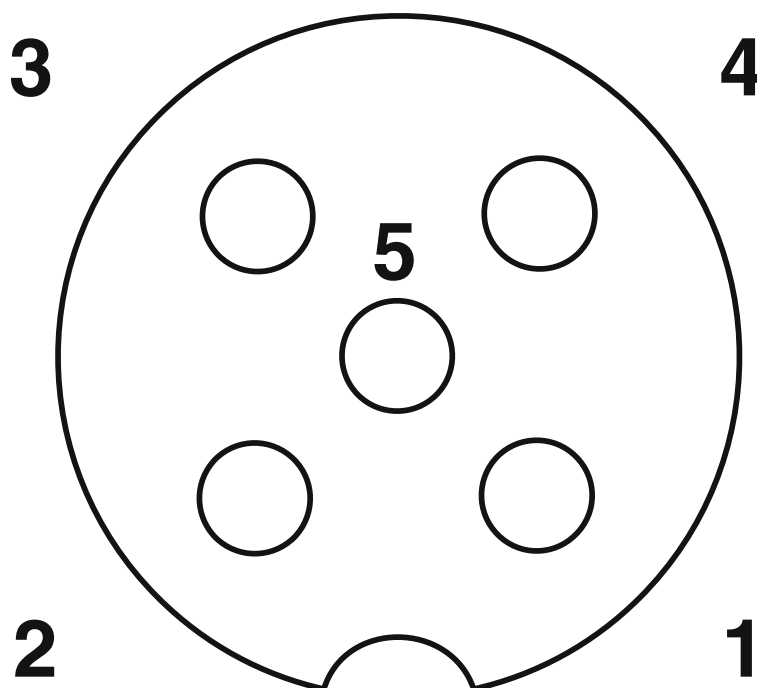
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Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

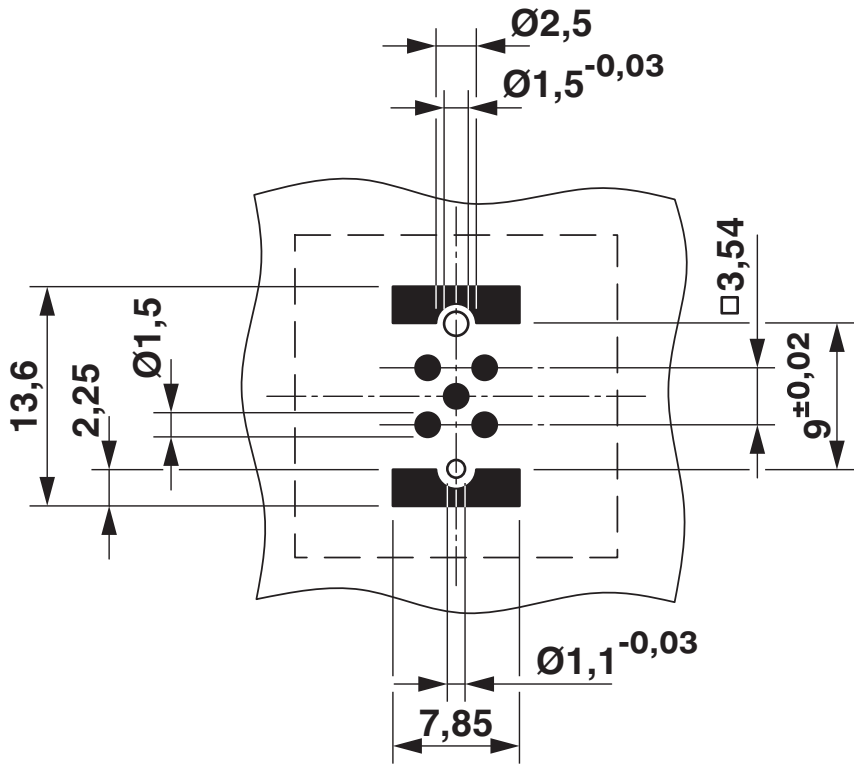
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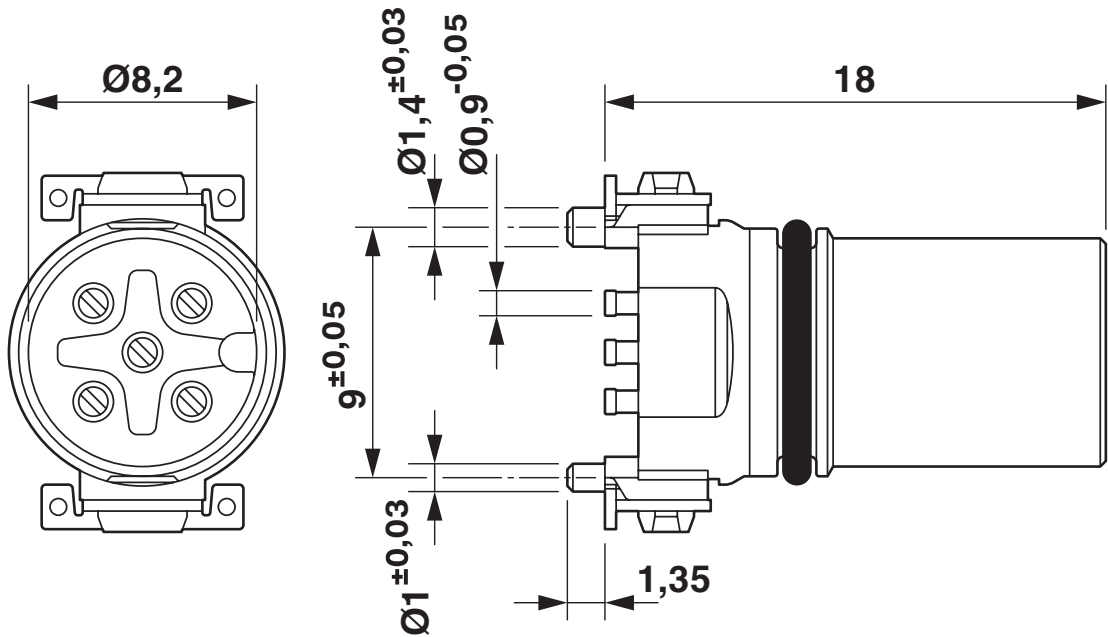
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Drilling plan/solder pad geometry



Soldering pad geometry

Dimensional drawing



Dimensional drawing

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1411937>

**EAC**
Approval ID: B.01687

	cULus Recognized Approval ID: E221474-20160506			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	60 V	4 A	-	-

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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-CIP-M12FS-5P SMD-SP - Sample set

1418632

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Sample set, 5-position, Socket, straight, M12, coding: A, PCB mounting, SMD, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239198

SACC-BP-F-M12/M15-6-SMD - Housing screw connection

1414021

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Housing screw connection, Socket, M12, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239058

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

1414023

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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.: 1239059

SACC-FP-F-M12/M14 SMD - Housing screw connection

1412079

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M12 female connector, front mounting SMD with M14 screw fastening

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SACC-FP-F-M12/PRESS SMD - Housing screw connection

1412081

<https://www.phoenixcontact.com/us/products/1412081>



Housing screw connection, Socket, M12, Front mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1238973

SACC-BP-F-M12/SMD-0,9/1,6-9TIP - Housing screw connection

1419569

<https://www.phoenixcontact.com/us/products/1419569>



Housing screw connection, M12, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239268

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SACC-BP-F-M12/SMD-1,6/2,3-9TIP - Housing screw connection

1419570

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Housing screw connection, M12, Rear mounting



SACC-BP-F-M12/SMD-2,3/3,0-9TIP - Housing screw connection

1419571

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Housing screw connection, M12, Rear mounting, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239270



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SACC-BP-F-FIX/NUT-BK-SMD - Fixing sleeve

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Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

SACC-BP-F-FIX/NUT-CY-SMD - Fixing sleeve

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Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

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SACC-BP-F-FIX/NUT-GN-SMD - Fixing sleeve

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Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

SACC-BP-F-FIX/NUT-VT-SMD - Fixing sleeve

1419567

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Fixing sleeve for M12 housing screw connection with tolerance-compensating function, for SMD-solderable M12 socket contact inserts.

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