SACC-CIP-M12FS-8P SMD SH R32 - Contact carrier

1412008

https://www.phoenixcontact.com/us/products/1412008

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Contact carrier, 8-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.: 1308214

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	1412008
Packing unit	1 pc
Minimum order quantity	100 pc
Sales Key	AB23
Product Key	ABQBGH
GTIN	4046356992817
Weight per Piece (including packing)	6.21 g
Weight per Piece (excluding packing)	6.21 g
Customs tariff number	85366990
Country of origin	DE

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.

Product properties

Product type	Contact insert
Number of positions	8
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	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	30 V
Nominal current I_N	2 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

Mechanical data

Insertion/withdrawal cycles	> 100

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

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Drawings

Dimensional drawing
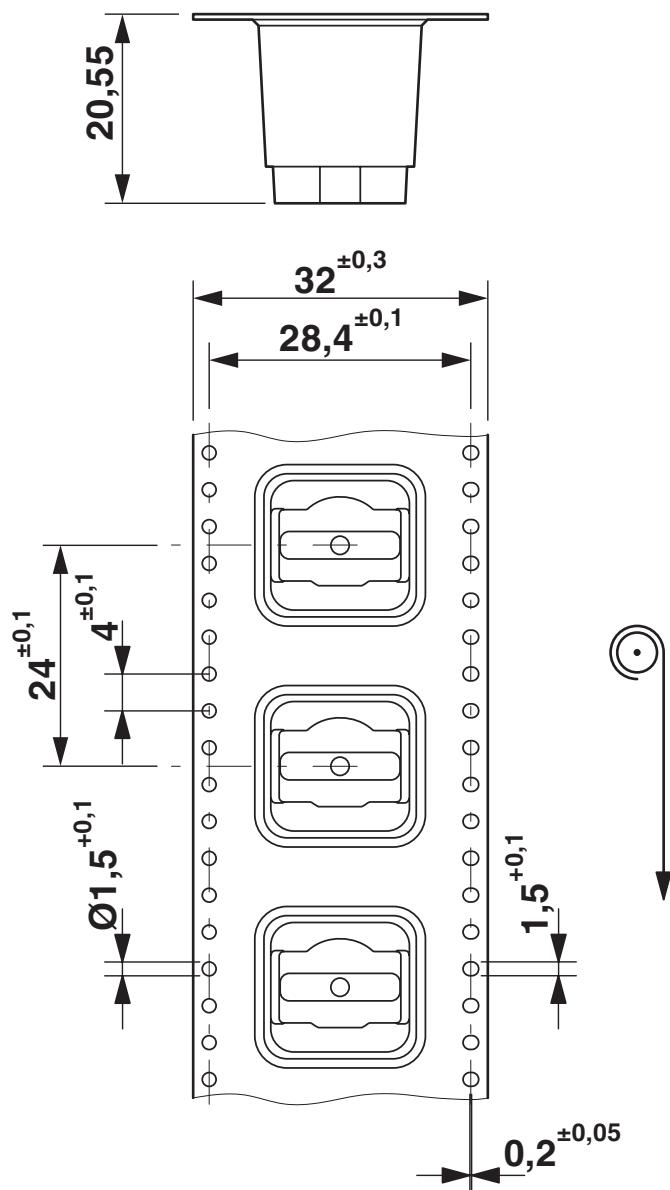
SMD tape-on-reel packing

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Dimensional drawing

13,8

12,7

7,25

View of solder side

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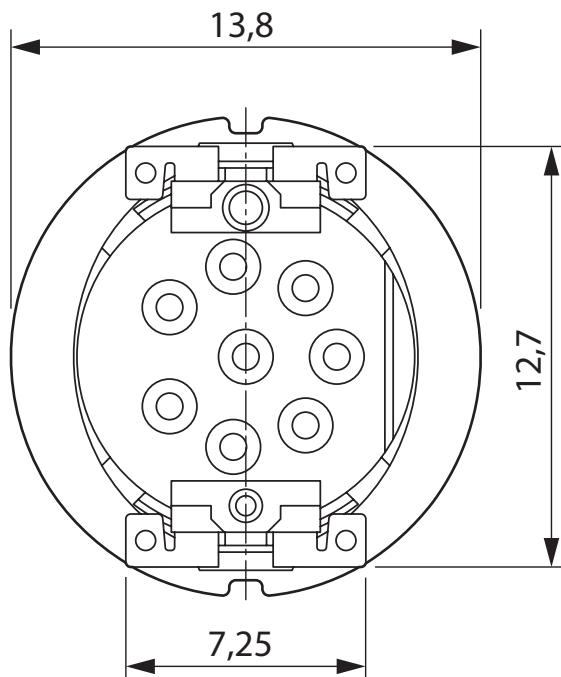
Drilling plan/solder pad geometry
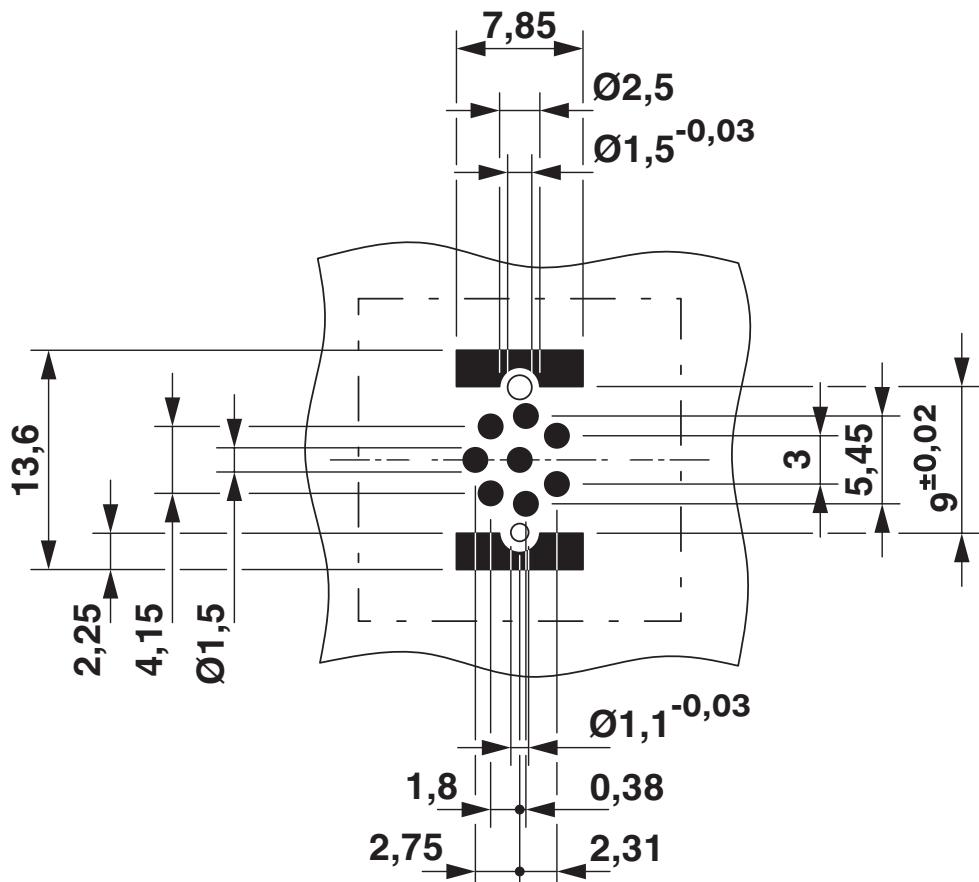
Soldering pad geometry

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Dimensional drawing

Ø8,2

Ø1,4 ±0,03

Ø0,9 -0,05

18

9 ±0,05

1 ±0,03

13,8

1,35
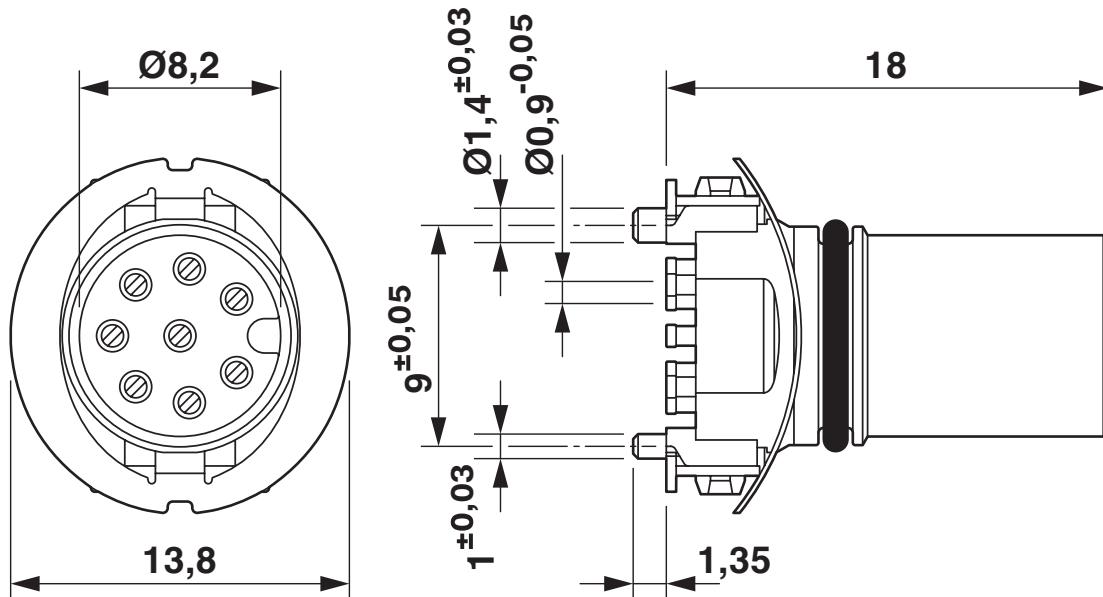
Dimensional drawing

Schematic diagram

5

4

6

3

8

7

2

1
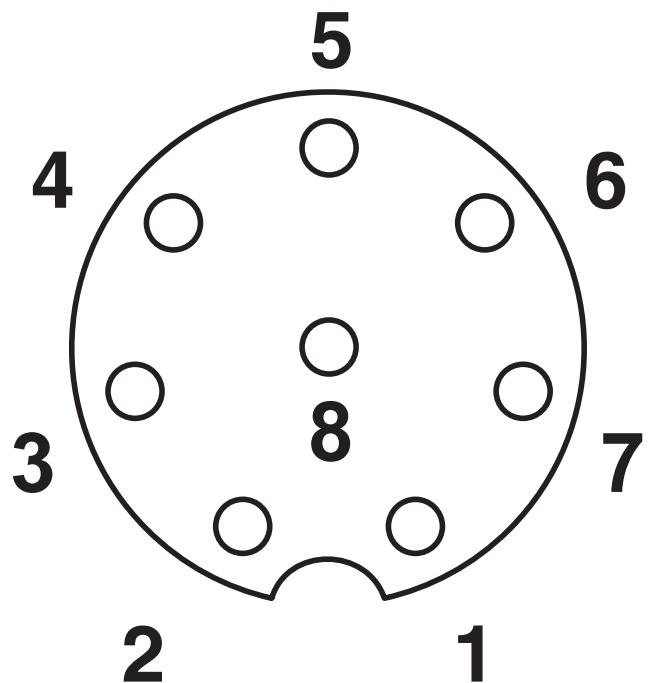
Pin assignment M12 socket, 8-pos., A-coded, view female side

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1412008

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
	30 V	2 A	-	-

Classifications

ECLASS

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

ETIM

ETIM 8.0	EC002635

UNSPSC

UNSPSC 21.0	39121400

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-8P SMD SH-SP - Sample set

1418636

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Sample set, 8-position, Socket, straight, M12, coding: A , PCB mounting, SMD, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239201

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

1414021

https://www.phoenixcontact.com/us/products/1414021

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

https://www.phoenixcontact.com/us/products/1414023

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

https://www.phoenixcontact.com/us/products/1412079

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

https://www.phoenixcontact.com/us/products/1419570

Housing screw connection, M12, Rear mounting

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

1419571

https://www.phoenixcontact.com/us/products/1419571

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

1419568

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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

1419565

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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

1419566

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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

https://www.phoenixcontact.com/us/products/1419567

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

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