Flush-type connector - SACC-CI-M12FS-8P SMD R32

1411978

https://www.phoenixcontact.com/us/products/1411978

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Flush-type connector, 8-position, Socket, straight, M12, A - standard, PCB mounting, SMD

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
- Optional shield connection and seal for the device when not plugged in

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Commercial Data

Item number	1411978
Packing unit	1 pc
Minimum order quantity	100 pc
Sales Key	A11
Product Key	ABQCBK
GTIN	4046356991698
Weight per Piece (including packing)	5.918 g
Weight per Piece (excluding packing)	5.73 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.

Product properties

Product type	Contact insert
Number of positions	8
Coding	A - standard

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
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA

Connector

Insertion/withdrawal cycles	> 100

Header 1

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

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)
Degree of protection	IP67, when plugged in

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Ambient temperature (operation)	-55 °C ... 105 °C (Plug / socket) -55 °C ... 105 °C (without mechanical actuation)

Standards and regulations

M12

Standards/specifications	IEC 61076-2-101

Mounting

Mounting type	PCB mounting

Packaging specifications

Type of packaging	Belt

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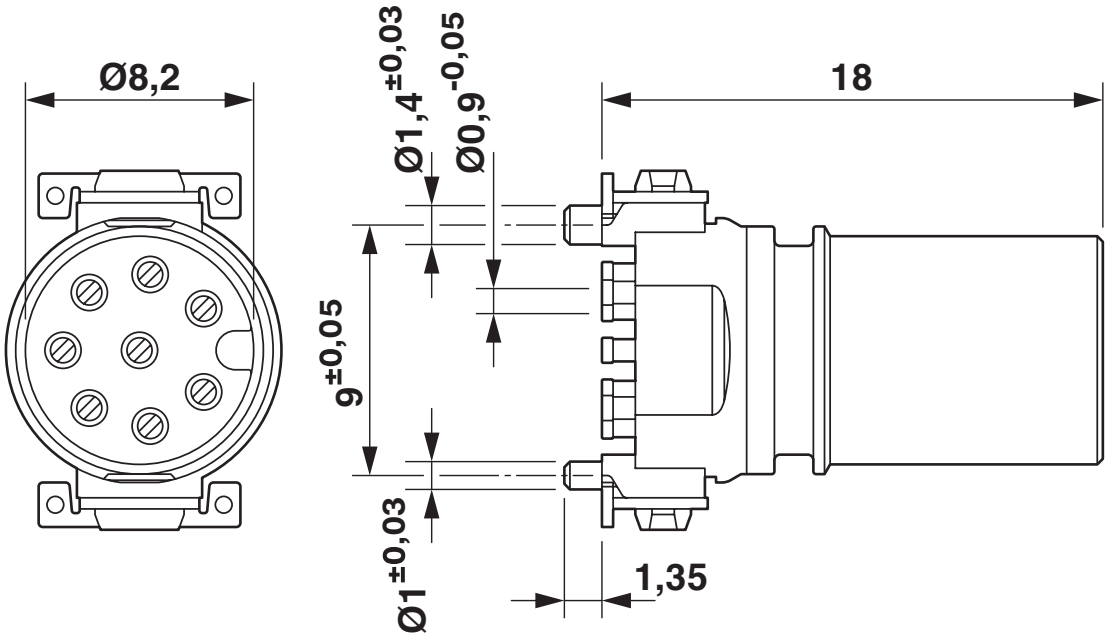
Drawings

Dimensional drawing



M12 female connector contact carrier

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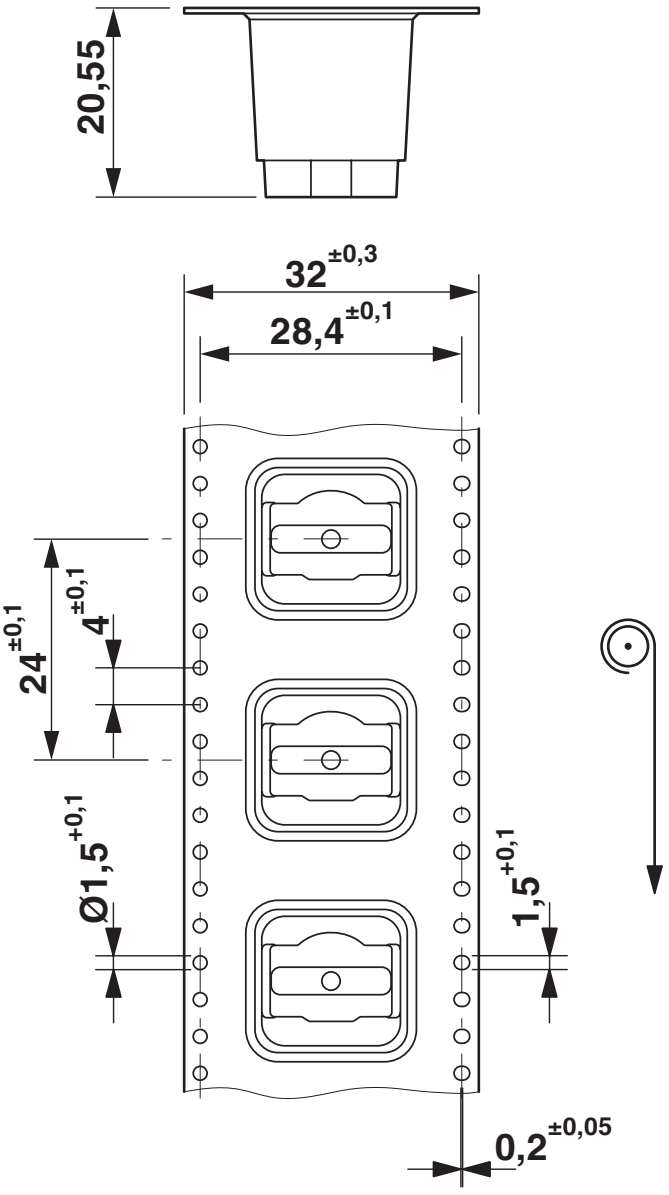
Dimensional drawing



SMD tape-on-reel packing

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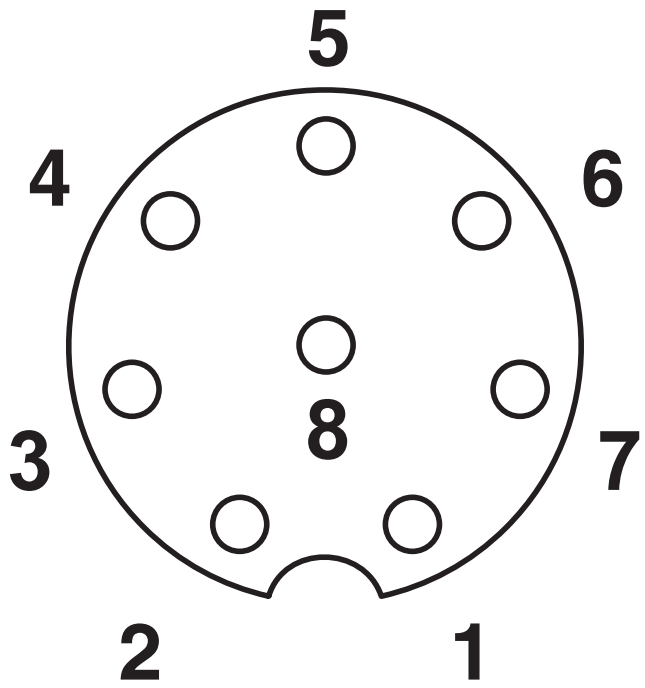
Schematic diagram



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

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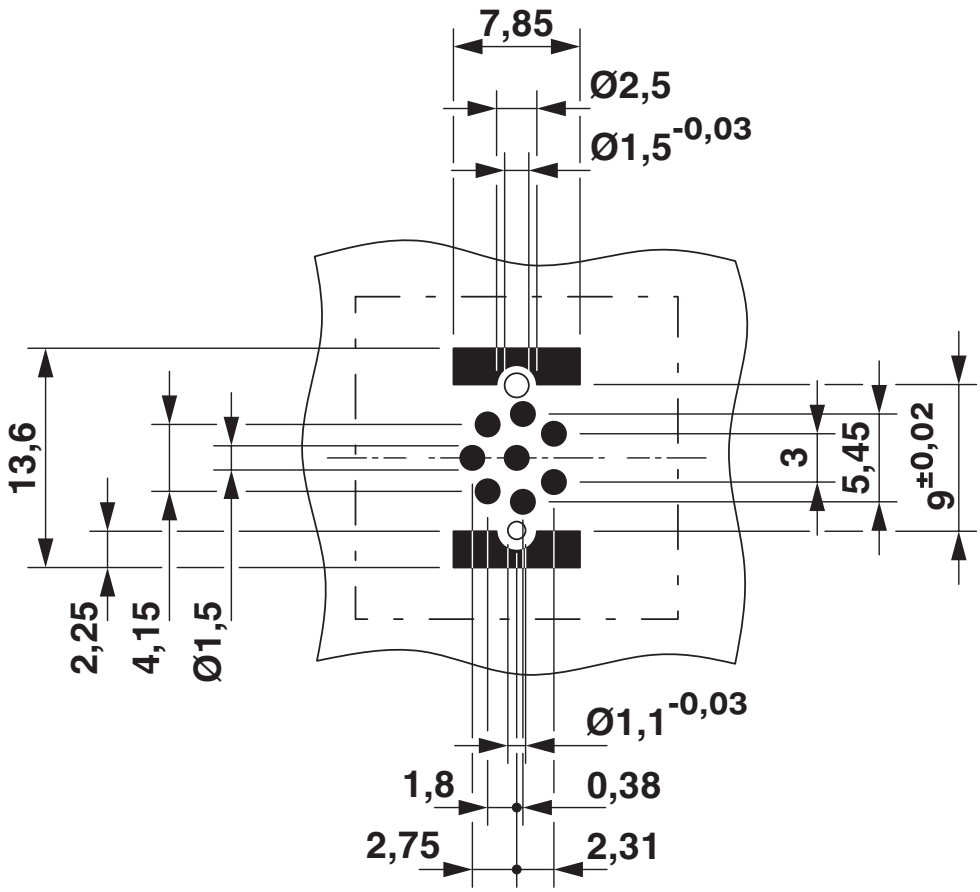
Drilling plan/solder pad geometry



Soldering pad geometry

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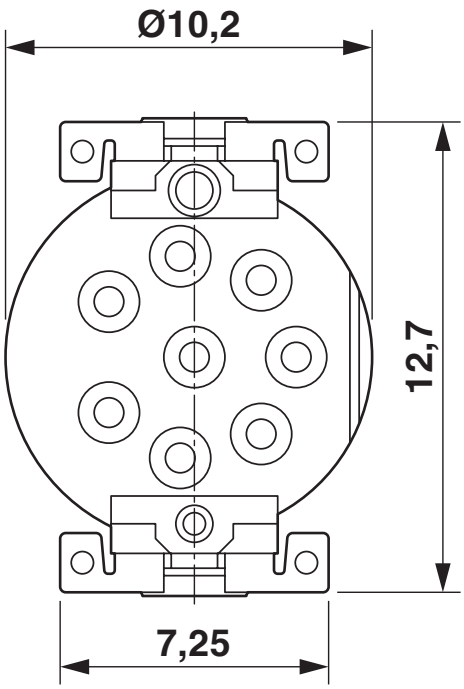
Dimensional drawing



View of solder side

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Approvals

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	-	-

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Classifications

ECLASS

ECLASS-9.0	27440102
ECLASS-10.0.1	27440102
ECLASS-11.0	27440102

ETIM

ETIM 8.0	EC002635

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

Housing screw connection

Housing screw connection - SACC-BP-F-M12/M15-6-SMD - 1414021

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

Housing screw connection, Socket, M12, Rear mounting, M15 x 1

Housing screw connection

Housing screw connection - SACC-BP-F-M12/M15-6-SMD SCO - 1414023

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

Housing screw connection, Socket, M12-SPEEDCON, Rear mounting, M15 x 1

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Housing screw connection

Housing screw connection - SACC-FP-F-M12/M14 SMD - 1412079

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

M12 female connector, front mounting SMD with M14 screw fastening

Housing screw connection

Housing screw connection - SACC-FP-F-M12/PRESS SMD - 1412081

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

Housing screw connection, socket, for the two-part M12 SMD connector, for press-in mounting.

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Housing screw connection

Housing screw connection - SACC-BP-F-M12/SMD-0,9/1,6-9TIP - 1419569

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

M12 threaded sleeve with tolerance-compensating function, for straight, SMD-solderable M12 socket contact inserts. Suitable for 0.9 mm ... 1.6 mm thick front plates.

Housing screw connection

Housing screw connection - SACC-BP-F-M12/SMD-1,6/2,3-9TIP - 1419570

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

M12 threaded sleeve with tolerance-compensating function, for straight, SMD-solderable M12 socket contact inserts. Suitable for 1.6 mm ... 2.3 mm thick front plates.

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Housing screw connection

Housing screw connection - SACC-BP-F-M12/SMD-2,3/3,0-9TIP - 1419571

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

M12 threaded sleeve with tolerance-compensating function, for straight, SMD-solderable M12 socket contact inserts. Suitable for 2.3 mm ... 3.0 mm thick front plates.

Housing screw connection

Housing screw connection - SACC-BP-F-FIX/NUT-BK-SMD - 1419568

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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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Housing screw connection

Housing screw connection - SACC-BP-F-FIX/NUT-CY-SMD - 1419565

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

Housing screw connection

Housing screw connection - SACC-BP-F-FIX/NUT-GN-SMD - 1419566

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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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Housing screw connection

Housing screw connection - SACC-BP-F-FIX/NUT-VT-SMD - 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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