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Flush-type connector, 4-position, Plug, 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

Commercial Data

Item number	1411982
Packing unit	1 pc
Minimum order quantity	100 pc
Sales Key	A11
Product Key	ABQCBJ
GTIN	4046356991735
Weight per Piece (including packing)	5.94 g
Weight per Piece (excluding packing)	5.94 g
Customs tariff number	85366990
Country of origin	DE

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	4
Coding	A - standard

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U_N	250 V
Nominal current I_N	4 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	Plug
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, when plugged in
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
Delivery state	with assembly pad

1411982

https://www.phoenixcontact.com/us/products/1411982

Drawings

Dimensional drawing
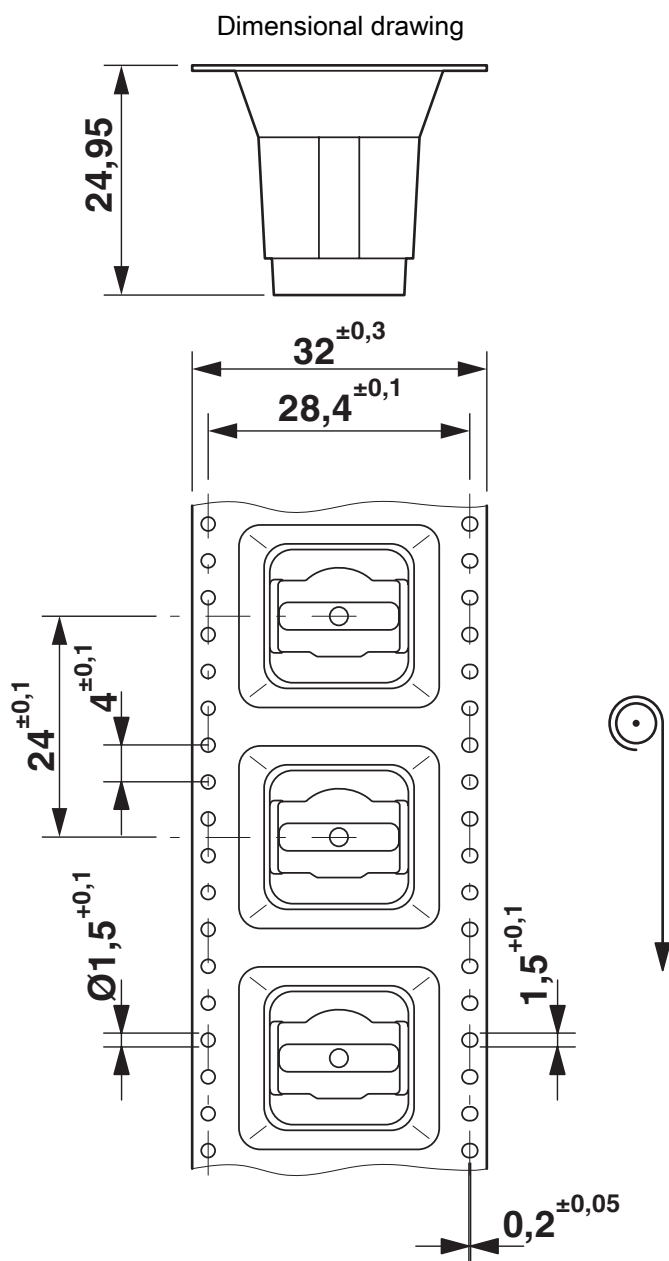
SMD tape-on-reel packing

Schematic diagram

4   3

1   2
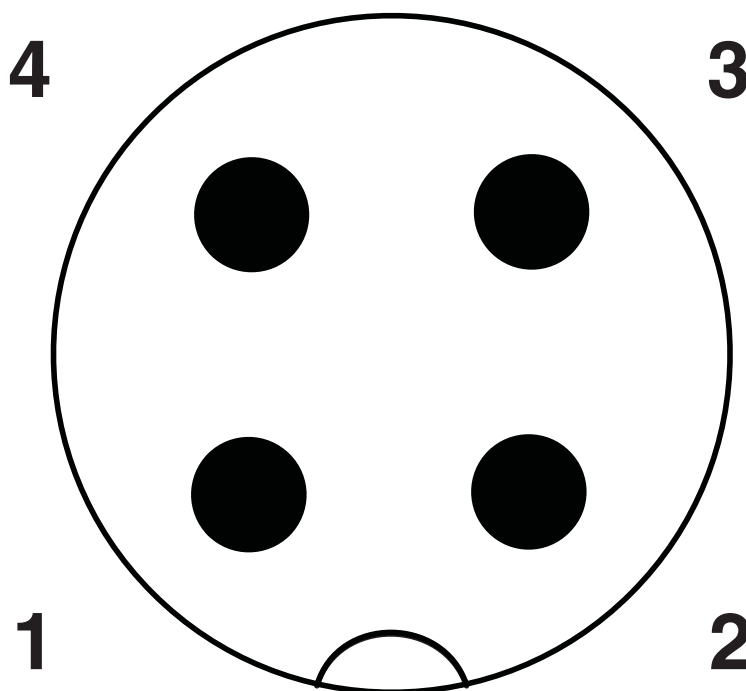
Pin assignment M12 plug, 4-pos., A-coded, view plug side

Drilling plan/solder pad geometry

Ø2,5

Ø1,5 -0,03

□3,54

13,6

2,25

Ø1,5

9 ±0,02

Ø1,1 -0,03

7,85
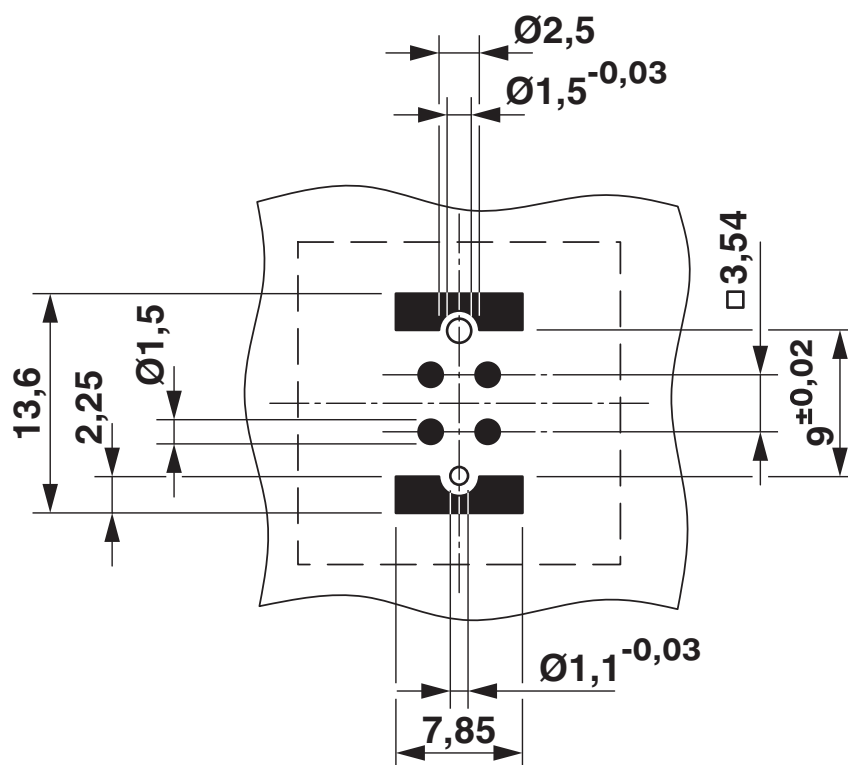
Soldering pad geometry

Dimensional drawing

21,4

Ø0,9 -0,05

Ø1,4 ±0,03

Ø9,45

9 ±0,05

1,35

Ø1 ±0,03
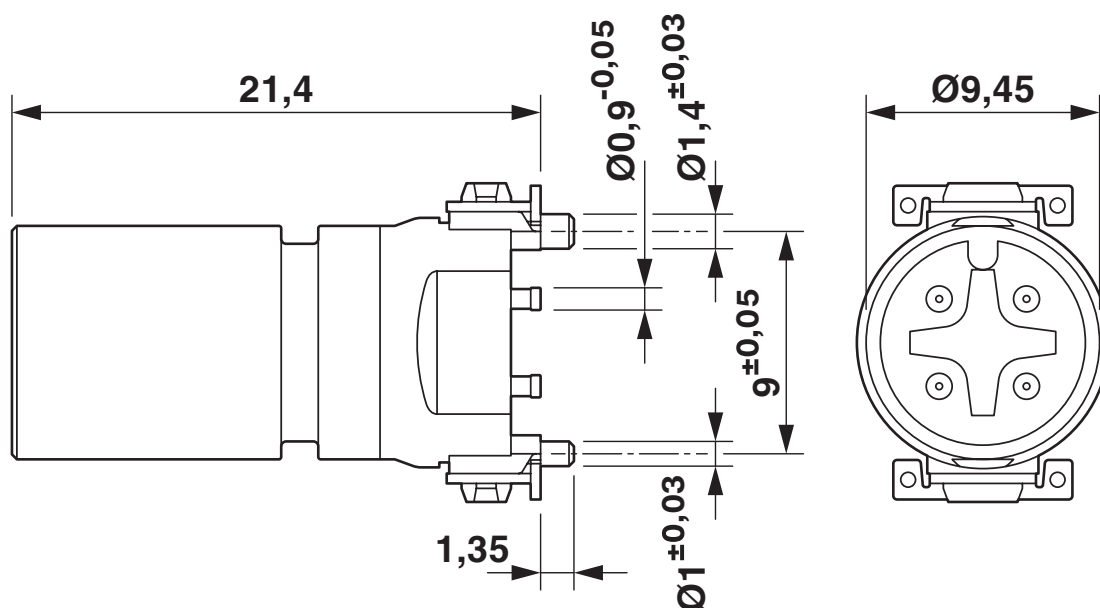
M12 male connector contact carrier

Dimensional drawing

Ø10,2

12,7

7,25

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
	250 V	4 A	-	-

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

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"

Accessories

Housing screw connection

Housing screw connection - SACC-BP-M-M12/M15-6-SMD - 1414000

https://www.phoenixcontact.com/us/products/1414000

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

Housing screw connection

Housing screw connection - SACC-BP-M-M12/M15-6-SMD SCO - 1414002

https://www.phoenixcontact.com/us/products/1414002

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

Housing screw connection

Housing screw connection - SACC-FP-M-M12/M14 SMD - 1412078

https://www.phoenixcontact.com/us/products/1412078

M12 pin, front mounting SMD with M14 screw fastening

Housing screw connection

Housing screw connection - SACC-FP-M-M12/PRESS SMD - 1412080

https://www.phoenixcontact.com/us/products/1412080

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

Flush-type connector - SACC-CI-M12MS-4P SMD R32

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https://www.phoenixcontact.com/us/products/1411982

Housing screw connection

Housing screw connection - SACC-BP-M-M12-SMD PP - 1107993

https://www.phoenixcontact.com/us/products/1107993

Housing screw connection, Plug, M12-Push-Pull, Rear mounting, M15 x 1, SMD

Housing screw connection

Housing screw connection - SACC-FP-M-M12-SMD PP - 1107999

https://www.phoenixcontact.com/us/products/1107999

Housing screw connection, Plug, M12-Push-Pull, Front mounting, M14 x 1, SMD