

1412014

https://www.phoenixcontact.com/au/products/1412014

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Flush-type connector, 8-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
- Additional gasket for the device when not plugged in



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### Commercial Data

Item number	1412014
Packing unit	100 pc
Minimum order quantity	100 pc
Note	Made to Order (non-returnable)
Sales Key	ABQCBJ
Product Key	ABQCBJ
GTIN	4046356992879
Weight per Piece (including packing)	6.762 g
Weight per Piece (excluding packing)	6.762 g
Customs tariff number	85366990
Country of origin	DE



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### **Technical Data**

### Product properties

Product type	Contact insert	
Number of positions	8	
Shielded	yes	
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 <sub>N</sub>	30 V
Nominal current I <sub>N</sub>	2 A

### Material specifications

Flammability rating according to UL 94	V0
Sealing material	FKM
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
Ambient temperature (operation)	-40 °C 105 °C (Plug / socket)
	-55 °C 105 °C (without mechanical actuation)

### Standards and regulations

M12



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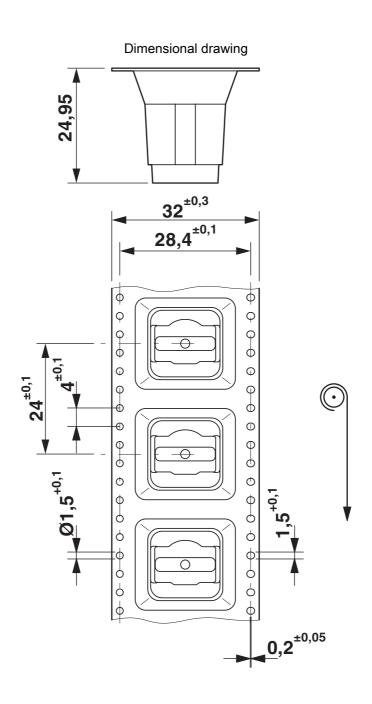
	Standards/specifications	IEC 61076-2-101		
Мо	Mounting			
	Mounting type	PCB mounting		
Packaging specifications				
	Type of packaging	Belt		
	Delivery state	with assembly pad		



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### **Drawings**



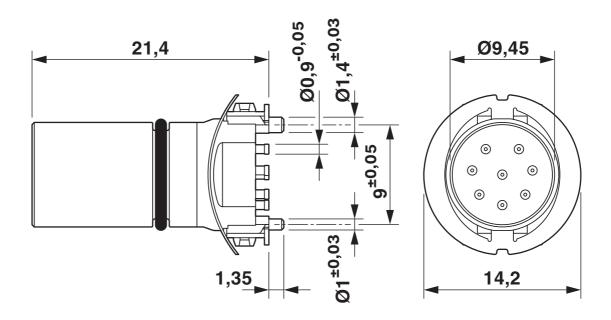
SMD tape-on-reel packing



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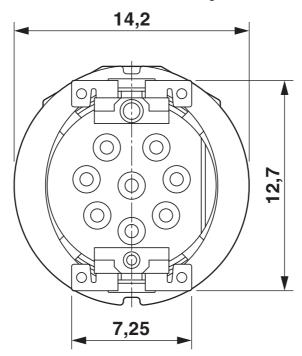
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### Dimensional drawing



M12 male connector contact carrier

Dimensional drawing



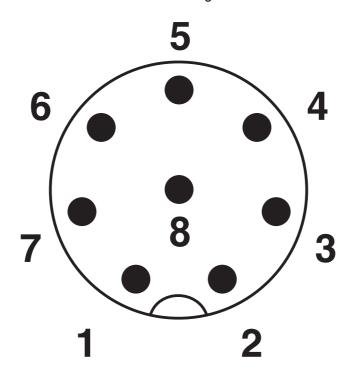
View of solder side



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### Schematic diagram



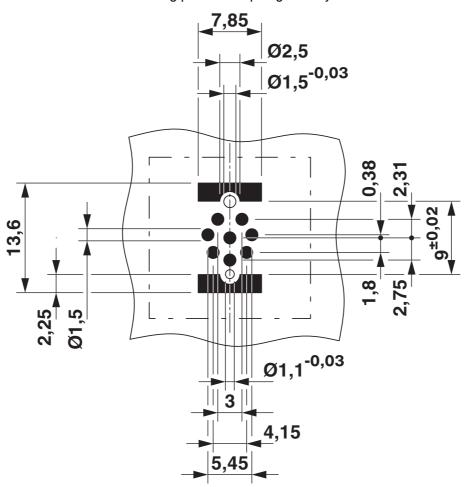
Pin assignment M12 plug, 8-pos., view plug side



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### Drilling plan/solder pad geometry



Soldering pad geometry



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### Approvals



EAC

Approval ID: B.01687

cULus Recognized Approval ID: E221474-20160506		: <b>ed</b> I-20160506			
		Nominal Voltage U <sub>N</sub>	Nominal Current I <sub>N</sub>	Cross Section AWG	Cross Section mm <sup>2</sup>
		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"



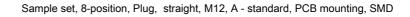
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### Accessories

### Sample set

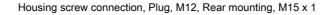
Sample set - SACC-CIP-M12MS-8P SMD SH-SP - 1418649 https://www.phoenixcontact.com/au/products/1418649





### Housing screw connection

Housing screw connection - SACC-BP-M-M12/M15-6-SMD - 1414000 https://www.phoenixcontact.com/au/products/1414000







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### Housing screw connection

Housing screw connection - SACC-BP-M-M12/M15-6-SMD SCO - 1414002 https://www.phoenixcontact.com/au/products/1414002

Housing screw connection, Plug, M12-SPEEDCON, Rear mounting, M15  $\times$  1



#### Housing screw connection

Housing screw connection - SACC-FP-M-M12/M14 SMD - 1412078 https://www.phoenixcontact.com/au/products/1412078







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### Housing screw connection

Housing screw connection - SACC-FP-M-M12/PRESS SMD - 1412080 https://www.phoenixcontact.com/au/products/1412080



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

#### Housing screw connection

Housing screw connection - SACC-BP-M-M12-SMD PP - 1107993 https://www.phoenixcontact.com/au/products/1107993



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

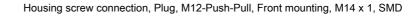


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### Housing screw connection

Housing screw connection - SACC-FP-M-M12-SMD PP - 1107999 https://www.phoenixcontact.com/au/products/1107999





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