

1412011  
<https://www.phoenixcontact.com/pc/products/1412011>

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Contact carrier, Ethernet/PROFINET CAT5 (100 Mbps), 4-position, Pin, straight, M12, coding: D, PCB mounting, SMD reflow, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1308216

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	1412011
Packing unit	100 pc
Minimum order quantity	100 pc
Product key	ABQBGB
GTIN	4046356992848
Weight per piece (including packing)	6.987 g
Weight per piece (excluding packing)	6.987 g
Customs tariff number	85366990
Country of origin	DE



# SACC-CIP-M12MSD-4P SMD SH R32 - Contact carrier



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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.
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### Product properties

Product type	Contact insert
Application	Signal
Sensor type	Ethernet/PROFINET
Number of positions	4
Seal present	yes
Shielded	yes
Coding	D
Thread type	M12

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Data management status

Article revision	05
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### Electrical properties

Rated surge voltage	2.5 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	250 V
Nominal current $I_N$	4 A
Transmission characteristics (category)	CAT5 (IEC 11801:2002)

### Connection data

Connection method	SMD reflow
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### Interfaces

Signal type/category	Ethernet/PROFINET CAT5, 100 Mbps
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### Material specifications

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



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Contact carrier material	PA
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## Connector

### Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M12
Coding	D

## Cable/line

Signal type/category	Ethernet/PROFINET CAT5, 100 Mbps
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## Mechanical properties

### 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)	-40 °C ... 105 °C (Plug / socket)
	-55 °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
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## Packaging specifications

Type of packaging	Belt
Delivery state	with assembly pad



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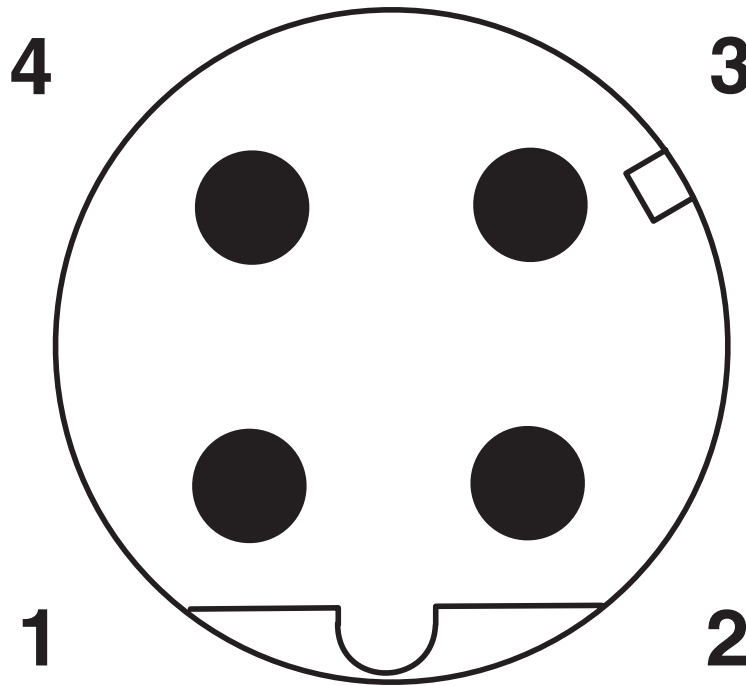


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## Drawings

Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side




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## Approvals

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<div> <b>cULus Recognized</b> Approval ID: E221474-20160506</div>				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
	250 V	4 A	-	-



# SACC-CIP-M12MSD-4P SMD SH R32 - Contact carrier



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## Classifications

### ECLASS

ECLASS-13.0	27440223
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### ETIM

ETIM 9.0	EC002635
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	a5a57ae8-6ba7-4b48-a43c-239497027205

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