

SACC-CI-M12FSD-4CON-L180-THR - Contact carrier



1551451

<https://www.phoenixcontact.com/us/products/1551451>

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Contact carrier, Ethernet/PROFINET CAT5 (100 Mbps), 4-position, Socket, straight, M12, coding: D, PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237392

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
- Compatible with connectors with screw or push-in connection

Commercial data

Item number	1551451
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGS
Catalog page	Page 257 (C-2-2013)
GTIN	4046356153676
Weight per piece (including packing)	4.8 g
Weight per piece (excluding packing)	3.7 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.
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Product properties

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

Data management status

Article revision	06
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Insulation characteristics

Overvoltage category	II
Degree of pollution	3

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	THR solder connection
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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

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Contact surface material	Au
Contact carrier material	PA 6T/66

Connector

Connection 1

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

Cable/line

Signal type/category	Ethernet/PROFINET CAT5, 100 Mbps
Ambient temperature (operation)	-40 °C ... 85 °C (cable, fixed installation)
	-25 °C ... 85 °C (Cable, flexible installation)

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 (correctly plugged in and locked)
	IP67, when plugged in
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)
	-40 °C ... 85 °C (without mechanical actuation)
	-25 °C ... 85 °C (Cable, flexible installation)
	-40 °C ... 85 °C (cable, fixed installation)

Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

Mounting

Mounting type	PCB mounting
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Packaging specifications

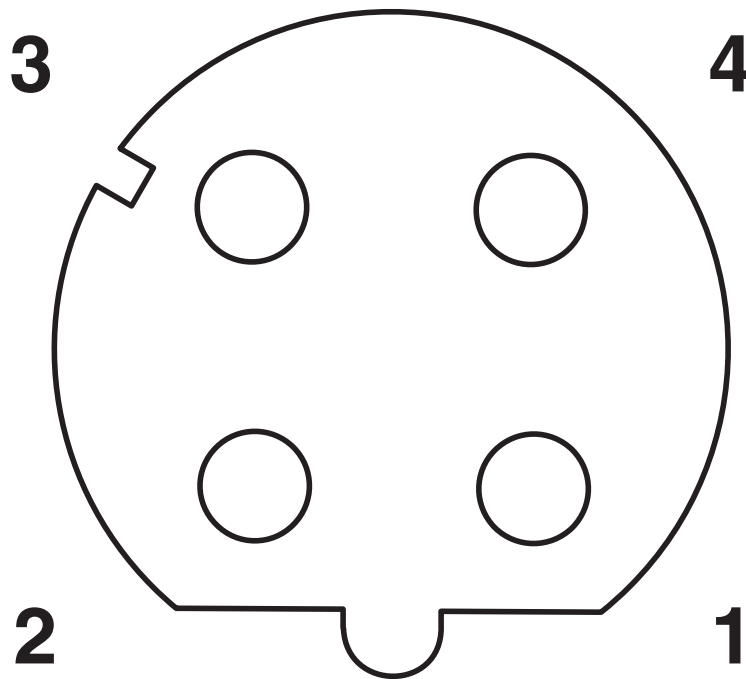
Type of packaging	Tray
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Drawings

Schematic diagram



Pin assignment M12 socket, 4-pos., D-coded, female side

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1551451>

	cUL Recognized Approval ID: E118976-20100522			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	4 A	22 - 22	-

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cULus Recognized				
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Classifications

ECLASS

ECLASS-11.0	27440223
ECLASS-12.0	27440116
ECLASS-13.0	27440223

ETIM

ETIM 9.0	EC003557
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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	fe821e0b-e7ff-4f72-95bd-8e88ed99d3aa