

1457681
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Contact carrier, 8-position, Socket, straight, M12, coding: A, PCB mounting, THR solder connection, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239843

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

Commercial data

Item number	1457681
Packing unit	100 pc
Minimum order quantity	100 pc
Product key	ABQAGH
Catalog page	Page 257 (C-2-2013)
GTIN	4046356617437
Weight per piece (including packing)	7.28 g
Weight per piece (excluding packing)	7.28 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	Signal
Number of positions	8
Seal present	yes
Shielded	yes
Coding	A
Thread type	M12

Insulation characteristics

Degree of pollution	3
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Data management status

Article revision	10
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Electrical properties

Rated surge voltage	0.8 kV
Contact resistance	$\leq 3 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V
Nominal current I_N	2 A

Connection data

Connection method	THR solder connection
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Material specifications

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

Connector

Connection 1

Head design	Socket
Head cable outlet	straight

SACC-CI-M12FS-8CON-SH TOR 32 - Contact carrier



1457681

<https://www.phoenixcontact.com/pc/products/1457681>

Head thread type	M12
Coding	A

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)

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

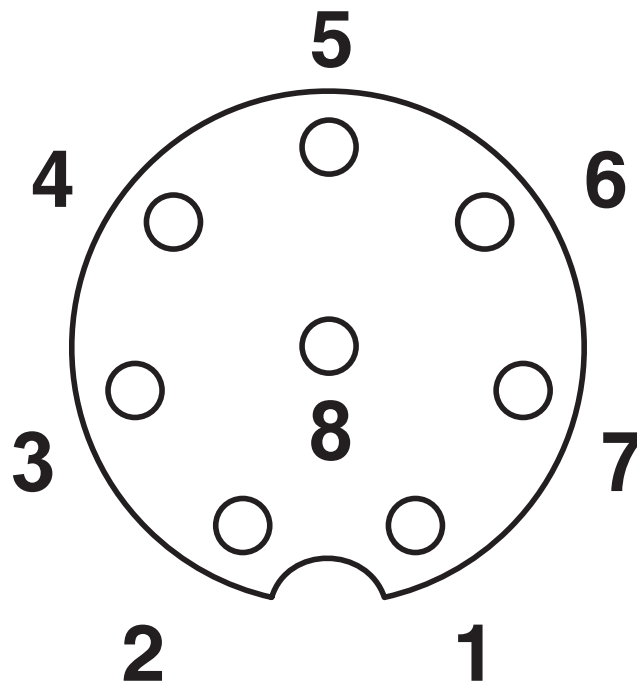
Type of packaging	Belt
Delivery state	with assembly pad

1457681

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Drawings

Schematic diagram





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

1457681
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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1457681>

<div> UL Recognized Approval ID: E118976-20100522</div>				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	30 V	2 A	24 - 24	-

<div> cULus Recognized Approval ID: E221474-20140616</div>				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	30 V	2 A	-	-

SACC-CI-M12FS-8CON-SH TOR 32 - Contact carrier



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Classifications

ECLASS

ECLASS-13.0	27440223
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ETIM

ETIM 9.0	EC002637
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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	fb7a3d99-21ac-4eca-86f1-3d00a836f03f

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