

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

Contact carrier, 5-position, Pin, angled, M12, A-coding, THR solder connection



Product description

Pin assignment rotated 180°

Your advantages

- Suitable for pick-and-place: Automated assembly on the PCB helps to increase efficiency in production
- Optimized design: Shifted center of gravity, thereby “effortless” standing on the PCB without locking clips
- Flexible: Easy positioning and alignment on the PCB even in confined spaces
- Modular: Compatible with the available THR housings

Commercial data

Item number	1699744
Packing unit	120 pc
Minimum order quantity	120 pc
Sales key	AB23
Product key	ABQAHN
GTIN	4067923265837
Weight per piece (including packing)	5.956 g
Weight per piece (excluding packing)	5.956 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.
Order information:	Not compatible with SPEEDCON housings.

Product properties

Product type	Contact insert
Application	Signal
Number of positions	5
Shielded	no
Coding	A
Thread type	M12

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	$\leq 10 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	60 V
Nominal current I_N	4 A

Connection data

Connection method	THR solder connection
-------------------	-----------------------

Material specifications

Material Contact carrier	PA 6.6
Material Contact	CuZn
Material Contact surface	Au
Flammability rating according to UL 94	V0

Connector

Connection 1	
Head design	Pin
Head cable outlet	angled
Head thread type	M12
Coding	A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
-----------------------------	-------

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67 (correctly plugged in and locked)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 105 °C (Plug / socket) -40 °C ... 105 °C (without mechanical actuation)
UL Type Rating	Type 4 (indoor use only)

Standards and regulations

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

Mounting

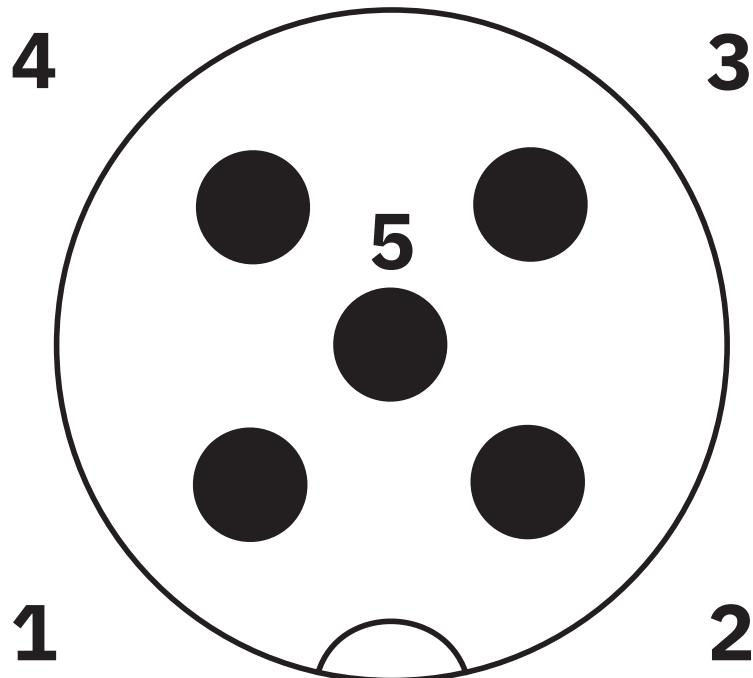
Assembly note	The pin assignment is rotated 180° to comply with the standard.
---------------	---

Packaging specifications

Type of packaging	Belt
[W] tape width	44 mm

Drawings

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Classifications

ECLASS

ECLASS-13.0	27440223
ECLASS-15.0	27440223

ETIM

ETIM 9.0	EC003557
----------	----------

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
---	--------------------

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA

586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com