

1442052

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Contact carrier, 12-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.: 1239761

## 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	1442052
Packing unit	60 pc
Minimum order quantity	60 pc
Sales key	AB23
Product key	ABQAGG
Catalog page	Page 257 (C-2-2013)
GTIN	4046356533126
Weight per piece (including packing)	5.47 g
Weight per piece (excluding packing)	4.9 g
Customs tariff number	85366990
Country of origin	DE



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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.

### Product properties

Product type	Contact insert
Application	Signal
Number of positions	12
Seal present	yes
Shielded	yes
Coding	Α
Thread type	M12

#### Data management status

Article revision	10

#### 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>	1.5 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
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Head cable outlet	straight
Head thread type	M12
Coding	A

#### Cable/line

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

#### 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
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
Thread type	()

### Packaging specifications

Type of packaging	Tray
Delivery state	with assembly pad

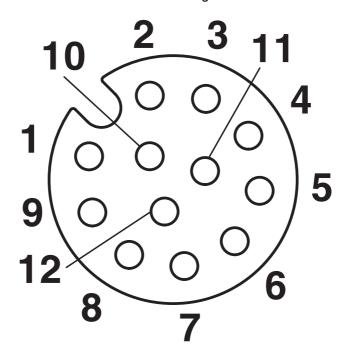


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# Drawings

Schematic diagram



Pin assignment M12 socket, 12-pos., A-coded, view female side



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## **Approvals**

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UL Recognized Approval ID: E118976-20100522					
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	1.5 A	26 - 26	-



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# Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-11.0	27440223
	ECLASS-12.0	27440116
	ECLASS-13.0	27440223
ETIM		
	ETIM 9.0	EC003557
UNSPSC		

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	c2db21b6-e0bb-4e71-adaf-0d32b089564f

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