

1553051

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Device connector rear mounting, 5-position, Pin, straight, M12-SPEEDCON, coding: B, Rear mounting, Pg9, Solder pins, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1240028

## Your advantages

- · Easy PCB assembly: one-piece connectors for wave soldering
- · All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- · SPEEDCON fast locking system reduces cabling times
- · For high transmission reliability: optional shield connection to the housing by means of shield contact

### Commercial data

Item number	1553051
Packing unit	20 pc
Minimum order quantity	1 pc
Sales key	AB26
Product key	ABQEGD
Catalog page	Page 188 (C-2-2013)
GTIN	4046356162241
Weight per piece (including packing)	13.523 g
Weight per piece (excluding packing)	13.523 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.
Order information:	Lock nut is included in the scope of delivery

## Mounting

Mounting type	Rear mounting Pg9 With flat nut
Assembly note	With flat nut

## Product properties

Product type	Circular connectors (device side)
Number of positions	5
Shielded	yes
Coding	В
Thread type	M12

#### Data management status

Article revision 08	3
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#### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

## Dimensions

Length of the solder pin	6 mm
	6 mm

## Material specifications

Flammability rating according to UL 94	V0
Seal material	NBR
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated

## Electrical properties

Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ



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Nominal voltage U <sub>N</sub>	60 V
Nominal current I <sub>N</sub>	4 A

### Connection data

### Conductor connection

Connection method	Solder pins
Contact connection type	Pin
Tightening torque	2 Nm 3 Nm (Installation-side)

## Mechanical properties

#### Mechanical data

viechanical data		
Insertion/withdrawal cycles	> 100	

#### Connector

#### Connection 1

Head design	Pin
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	В

### Cable/line

Ambient temperature (operation)	-40 °C 85 °C (cable, fixed installation)
	-25 °C 85 °C (Cable, flexible installation)

### Environmental and real-life conditions

## Ambient conditions

Degree of protection	IP67 (When plugged in)
	IP65 (When plugged in)
	IP65/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	

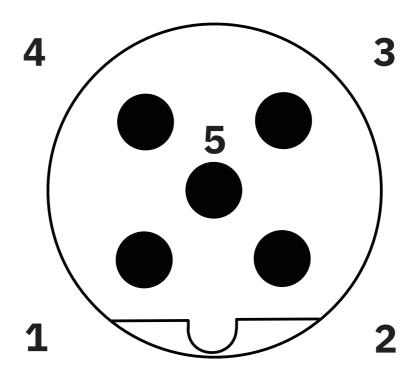


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## Drawings

## Schematic diagram



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



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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1553051

c <b>F11</b> us	cULus Recognized Approval ID: E221474-20140616				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		60 V	4 A	-	-

<b>71</b>	UL Recognized Approval ID: E118976-20100522				
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		60 V	4 A	22 - 22	-



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## Classifications

## **ECLASS**

(	DLAGG				
	ECLASS-11.0	27440102			
	ECLASS-12.0	27440116			
	ECLASS-13.0	27440116			
ΕΊ	ETIM				
	ETIM 9.0	EC002635			
U	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	65614d4e-22fd-48cf-b935-555281c06f6b

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