

1441781

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Device connector rear mounting, 5-position, Pin, M12, coding: B, Rear mounting, M16 x 1.5, Solder pins, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1~%) item no.: 1239737

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

Commercial data

Item number	1441781
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	AB26
Product key	ABQEGJ
Catalog page	Page 250 (C-2-2013)
GTIN	4046356533980
Weight per piece (including packing)	14.3 g
Weight per piece (excluding packing)	14.3 g
Customs tariff number	85366990
Country of origin	DE



1441781

https://www.phoenixcontact.com/us/products/1441781

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 M16 x 1.5 With flat nut
Assembly note	With flat nut

Product properties

Product type	Circular connectors (device side)
Number of positions	5
Shielded	no
Coding	В
Thread type	M12
Insulation characteristics	
Overvoltage category	II

Dimensions

Length of the solder pin	6 mm
	6 mm

3

Material specifications

Degree of pollution

Flammability rating according to UL 94	V0
Seal material	NBR
Contact material	CuZn
Contact surface material	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
Nominal voltage U _N	60 V
Nominal current I _N	4 A



1441781

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Connection data

Conductor connection

Connection method	Solder pins
Contact connection type	Pin
Tightening torque	3 Nm 4 Nm (Installation-side)

Mechanical properties

Mechanical data

	Insertion/withdrawal cycles	> 100

Connector

Connection 1

Head design	Pin
Head thread type	M12
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

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

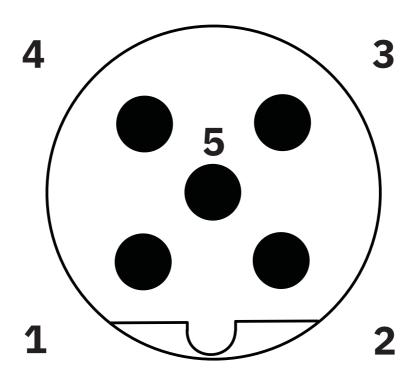


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Drawings

Schematic diagram



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



1441781

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Approvals

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cUL Recognized Approval ID: E118976-20100522				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
	60 V	4 A	22 - 22	-

71	UL Recognized Approval ID: E118976-20100522				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		60 V	4 A	22 - 22	-

c 911 us	CULus Recognized Approval ID: E221474-20140616				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		60 V	4 A	22 - 20	-

cULus Recognized



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Classifications

ECLASS

202.100						
	ECLASS-11.0	27440102				
	ECLASS-12.0	27440116				
	ECLASS-13.0	27440116				
ΕT	ETIM					
	ETIM 9.0	EC002635				
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	81ebe194-7d82-4a38-8681-39f5ca1a6559	



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Accessories

SACC-M16-SEAL CLM - Flat gasket

1430394

https://www.phoenixcontact.com/us/products/1430394

M16 flat gasket for M12 flush-type connectors with M16 fastening thread



PROT-M12 FS - Sealing cap

1560251

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M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field



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PROT-M12 FS-M - Sealing cap

1430488

https://www.phoenixcontact.com/us/products/1430488



M12 metal sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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