

1542729

https://www.phoenixcontact.com/us/products/1542729

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Device connector rear mounting, Universal, 5-position, Socket, straight, M12-SPEEDCON, coding: A, on free cable end, Rear mounting, Pg9, Individual wires, cable length: 0.5 m, 0.34 mm<sup>2</sup>, TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1237435

#### Your advantages

- · Preassembled with litz wires for immediate use
- · Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- · For high transmission safety: shield connection to the housing with optional EMC nut
- · SPEEDCON fast locking system reduces cabling times

#### Commercial data

Item number	1542729
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCHE
Catalog page	Page 46 (C-2-2019)
GTIN	4046356097734
Weight per piece (including packing)	34.8 g
Weight per piece (excluding packing)	24.8 g
Customs tariff number	85444290
Country of origin	DE



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#### Technical data

#### **Notes**

General	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.
General	Lock nut is included in the scope of delivery
General	Contact connection method: Crimp connection

#### Safety note

Safety note
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WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property.

- WARNING: Commission properly functioning products only.
   The products must be regularly inspected for damage.
   Decommission defective products immediately. Replace damaged products. Repairs are not possible.
- WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product.
- The products are suitable for applications in plant, controller, and electrical device engineering.
- When operating the connectors in outdoor applications, they must be separately protected against environmental influences.
- Assembled products may not be manipulated or improperly opened.
- Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products).
- When using the product in direct connection with third-party manufacturers, the user is responsible.
- For operating voltages > 50 V AC, conductive connector housings must be grounded
- Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards.
- Observe the corresponding technical data. You will find information:
- o On the product
- o On the packing label
- o In the supplied documentation
- o Online at phoenixcontact.com/products under the product
- Only use tools recommended by Phoenix Contact
- Use a protective cap to protect connectors that are not in use.



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		The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products
		<ul> <li>Ensure that the protective or functional ground has been properly connected.</li> </ul>
		<ul> <li>VDE 0100/1.97 § 411.1.3.2 and DIN EN 60 204/11.98 § 14.1.3 are applicable when combining several circuits in a cable and/or connector</li> </ul>
		<ul> <li>The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12).</li> </ul>
Мо	unting	
	Mounting type	Rear mounting Pg9 With flat nut
	Assembly instructions	With flat nut
Pro	duct properties	
1 10	· ·	Circular account (davice side)
	Product type	Circular connectors (device side) Universal
	Sensor type  Number of positions	5
	No. of cable outlets	1
	Shielded	no
	Coding	A
	Thread type	M12
	Timoda typo	W12
lr	sulation characteristics	
	Overvoltage category	III
	Degree of pollution	3
Ma	terial specifications	
	Flammability rating according to UL 94	V0
	Seal material	FKM
	Contact material	CuZn
	Contact surface material	Au
	Contact carrier material	PA 6.6
	Material for screw connection	Zinc die-cast, nickel-plated
	Conductor material	Tin-plated Cu litz wires
Ele	ctrical properties	
	Rated surge voltage	1.5 kV
	Contact resistance	≤ 3 mΩ
	Insulation resistance	≥ 100 MΩ
	Nominal voltage U <sub>N</sub>	60 V (AC)
		60 V (DC)
	Nominal current I <sub>N</sub>	4 A
	Max. conductor resistance	57.6 mΩ/m



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#### Connection data

#### Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	0.34 mm²
Tightening torque	2 Nm 3 Nm (Installation-side)

#### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	> 100

#### Connector

#### Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	A

#### Connection 2

Head design	free cable end
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#### Cable/line

Cable length	0.5 m
Cable type	TPE litz wire
Signal type/category	Universal
Wire diameter incl. insulation	1.2 mm ±0.07 mm
Single wire, color	black, brown,blue, white, gray
Cable cross section	0.34 mm²
Conductor material	Tin-plated Cu litz wires
Conductor structure signal line	7x 0.25 mm
AWG signal line	22
Material wire insulation	TPE
Thickness, insulation	0.21 mm
Nominal voltage, cable	300 V
Test voltage, cable	2000 V AC
Cable resistance	≤ 57.6 mΩ/m
Cable insulation resistance	≥ 20 MΩ*km
Ambient temperature (operation)	-40 °C 85 °C (cable, fixed installation)
	-25 °C 85 °C (Cable, flexible installation)



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#### 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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#### Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27440102	
ECLASS-12.0	27440116	
ECLASS-13.0	27440116	
ETIM		
ETIM 9.0	EC002635	
UNSPSC		

39121400



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### Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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