

1405239

https://www.phoenixcontact.com/us/products/1405239

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Device connector rear mounting, Universal, 4-position, Pin, straight, M12-Standard, coding: A, on free cable end, Rear mounting, Pg9, Individual wires, cable length: 0.5 m, 0.34 mm², TPE litz wire

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
- Standard pin assignments and codings for signal transmission with a uniform design-in design
- · For high transmission safety: shield connection to the housing with optional EMC nut

Commercial data

Item number	1405239
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCWE
Catalog page	Page 270 (C-2-2013)
GTIN	4046356746755
Weight per piece (including packing)	33.5 g
Weight per piece (excluding packing)	24.3 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

	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

Sa	tety	no	te

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
	• Ensure that the protective or functional ground has been properly connected.
	\bullet VDE 0100/1.97 \S 411.1.3.2 and DIN EN 60 204/11.98 \S 14.1.3 are applicable when combining several circuits in a cable and/or connector
	• 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).
Mounting	
Mounting type	Rear mounting Pg9 With locking nut
Assembly instructions	With locking nut
Product properties	
Product type	Circular connectors (device side)
Sensor type	Universal
Number of positions	4
Shielded	no
Coding	A
Thread type	M12
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
Material 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	Stainless steel
Conductor material	Tin-plated Cu litz wires
Electrical properties	
Rated surge voltage	2.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage $\mathbf{U}_{\mathbf{N}}$	250 V (AC)
	250 V (DC)
Nominal current I _N	4 A
Test voltage	2.5 kV
	2000 V AC



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Max. conductor resistance	57.6 mΩ/m
onnection data	
Conductor connection	
Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	0.34 mm²
Tightening torque	2 Nm 3 Nm (Installation-side)
lechanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 100
onnector	
Connection 1	
Head design	Pin
Head cable outlet	straight
Head thread type	M12
Head locking type	Standard
Coding	A
Connection 2	
Head design	free cable end
ricad design	iloc dable cità
able/line	
Cable length	0.5 m
Cable type	TPE litz wire
Signal type/category	Universal
Wire diameter incl. insulation	
The diameter men medicale.	1.2 mm ±0.07 mm
Single wire, color	1.2 mm ±0.07 mm black, brown, blue, white
Single wire, color	black, brown, blue, white
Single wire, color Cable cross section	black, brown, blue, white 0.34 mm ²
Single wire, color Cable cross section Conductor material	black, brown, blue, white 0.34 mm² Tin-plated Cu litz wires
Single wire, color Cable cross section Conductor material Conductor structure signal line	black, brown, blue, white 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm
Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line	black, brown, blue, white 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22
Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation	black, brown, blue, white 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22 TPE
Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation	black, brown, blue, white 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22 TPE 0.21 mm (Core insulation)
Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation Nominal voltage, cable	black, brown, blue, white 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22 TPE 0.21 mm (Core insulation) 300 V
Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation Nominal voltage, cable Test voltage, cable	black, brown, blue, white 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22 TPE 0.21 mm (Core insulation) 300 V 2000 V AC
Single wire, color Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation Nominal voltage, cable Test voltage, cable Cable resistance	black, brown, blue, white 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22 TPE 0.21 mm (Core insulation) 300 V 2000 V AC ≤ 57.6 mΩ/m



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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65/IP67/IP69/IP69K
	IP65/IP67/IP69K
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

ECLASS

	ECLASS-11.0	27440102
	ECLASS-12.0	27440116
	ECLASS-13.0	27440116
ETIM		
	ETIM 9.0	EC002635
UN	NSPSC	

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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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