

1441558

https://www.phoenixcontact.com/gb/products/1441558

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Device connector front mounting, 5-position, Socket, straight, M12, coding: B, on free cable end, Front mounting, Square flange, Individual wires, cable length: 0.5 m, 0.34 mm^2 , TPE litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239720

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	1441558
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	ABQCFD
Product key	ABQCFD
Catalog page	Page 43 (C-2-2019)
GTIN	4046356533867
Weight per piece (including packing)	27.4 g
Weight per piece (excluding packing)	27.4 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

otes	
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.
General	Contact connection method: Crimp connection
Safety note	
Safety note	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. The project is the project in the project

The suitable accessories are available online in the accessory



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	continuo of the product of phonogeness to the services of the
	section of the product at phoenixcontact.com/products • Ensure that the protective or functional ground has been
	properly connected.
	 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
	 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).
lounting	
Mounting type	Front mounting Square flange
roduct properties	
Product type	Circular connectors (device side)
Application	Signal
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	В
Thread type	M12
Data management status	
Article revision	11
, it does not	
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3
laterial specifications	
Flammability rating according to UL 94	V0
Seal material	FKM
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Zinc die-cast, nickel-plated
Conductor material	Tin-plated Cu litz wires
lectrical 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



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Max. conductor resistance	57.6 mΩ/m	
onnection data		
Conductor connection		
Connection method	Individual wires	
Contact connection type	Socket	
Conductor cross section	0.34 mm²	
Tightening torque	3 Nm 4 Nm (Installation-side)	
lechanical properties		
Mechanical data		
Insertion/withdrawal cycles	> 100	
onnector		
Connection 1	Contrat	
Head design	Socket	
Head cable outlet	straight	
Head thread type	M12	
Coding	В	
Connection 2		
Head design	free cable end	
able/line		
Cable length	0.5 m	
Cable type	TPE litz wire	
Wire diameter incl. insulation		
	1.2 mm ±0.07 mm	
Single wire, color	1.2 mm ±0.07 mm brown, white, blue, black, gray	
Single wire, color Cable cross section		
	brown, white, blue, black, gray	
Cable cross section	brown, white, blue, black, gray 0.34 mm²	
Cable cross section Conductor material	brown, white, blue, black, gray 0.34 mm² Tin-plated Cu litz wires	
Cable cross section Conductor material Conductor structure signal line	brown, white, blue, black, gray 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm	
Cable cross section Conductor material Conductor structure signal line AWG signal line	brown, white, blue, black, gray 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22	
Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation	brown, white, blue, black, gray 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22 TPE	
Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation	brown, white, blue, black, gray 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22 TPE 0.21 mm (Core insulation)	
Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation Nominal voltage, cable	brown, white, blue, black, gray 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22 TPE 0.21 mm (Core insulation) 300 V	
Cable cross section Conductor material Conductor structure signal line AWG signal line Material wire insulation Thickness, insulation Nominal voltage, cable Test voltage, cable	brown, white, blue, black, gray 0.34 mm² Tin-plated Cu litz wires 7x 0.25 mm 22 TPE 0.21 mm (Core insulation) 300 V 2000 V AC	
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	brown, white, blue, black, gray 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	

Environmental and real-life conditions



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Ambient conditions

Degree of protection	IP67
	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

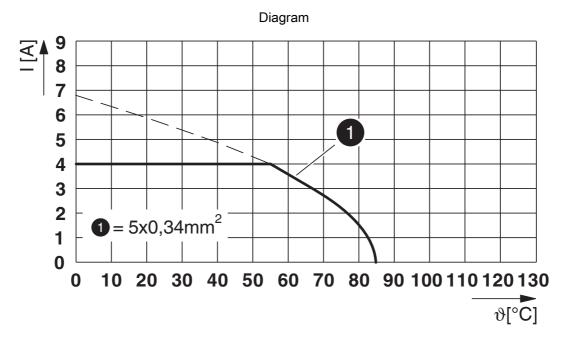
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



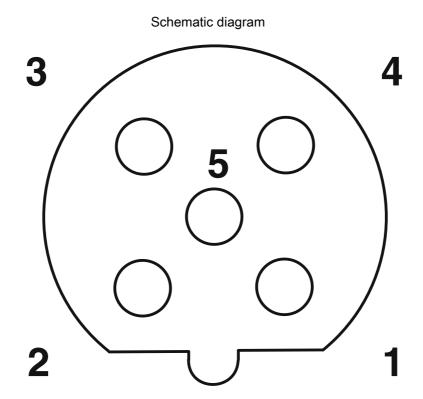
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Drawings



I = current strength, T = ambient temperature

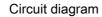


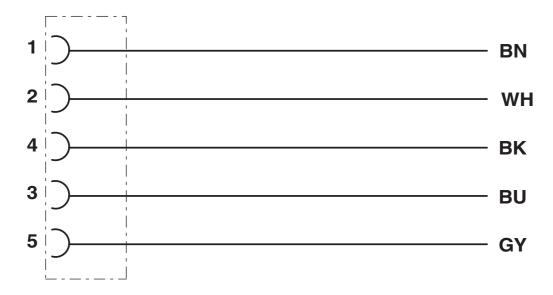
Pin assignment M12 socket, 5-pos., B-coded, female side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1441558

. 91	cUL Recognized Approval ID: E118976-20100522				
	Nomin	al 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: E118976-20	1100522			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		60 V	4 A	22 - 22	-

e 932 us	cULus Recogniz Approval ID: E221474	ed -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

UNSPSC 21.0

ECLASS

27440102
27440116
27440116
EC002635

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	08179219-564d-4f99-89de-a37d1760175e

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PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk