

1520055

https://www.phoenixcontact.com/in/products/1520055

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Device connector front mounting, Universal, 5-position, Flush-type male connector, straight, M12-SPEEDCON, coding: A , on free cable end, Front mounting, M16 x 1.5, Individual wires, cable length: $0.5\ m$, $0.34\ mm^2$, TPE litz wire

Your advantages

- · Pre-assembled 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	1520055	
Packing unit	1 pc	
Minimum order quantity	1 pc	
Sales Key	ABQ	
Product Key	ABQCDA	
Catalog Page	Page 37 (C-2-2019) 4046356020145	
GTIN		
Weight per Piece (including packing)	30.3 g	
Weight per Piece (excluding packing)	21.1 g	
Customs tariff number	85444290	
Country of origin	DE	



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Technical Data

Notes

Notes on	operation
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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.

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 suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products



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- Engure that the protective or functional account has been
 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/o 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).
Front mounting M16 x 1.5
·
Circular connectors (device side)
5
1
no
A
II
3
V0
FKM
CuZn
Ni/Au
PA 6.6
Zinc die-cast, nickel-plated
Tin-plated Cu litz wires
1.5 kV
≤ 3 mΩ
≥ 100 MΩ
60 V (AC)
60 V (DC)
4 A
Copper
Individual wires



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Type of contact	Crimp contacts
Conductor cross section	0.34 mm²
Tightening torque	3 Nm
	4 Nm

Connector

Connection 1

Head design	Flush-type male connector
Head cable outlet	straight
Head thread type	M12
Head locking type	SPEEDCON
Coding	A

Connection 2

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	
Conductor material	Tin-plated Cu litz wires	
Conductor structure signal line	7x 0.25 mm	
AWG signal line	TPE 0.21 mm (Core insulation) 300 V 3000 V AC	
Material wire insulation		
Thickness, insulation		
Nominal voltage, cable		
Test voltage, cable		
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)	

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
	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)



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Standards and regulations

M12

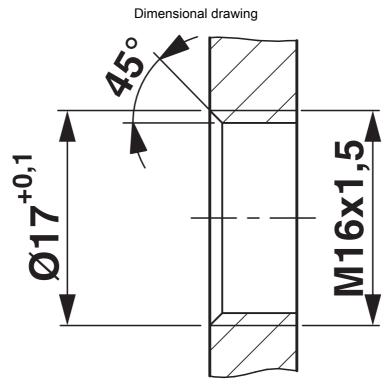
Standards/specifications	IEC 61076-2-101
Standards/specifications	EN 50155



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Drawings

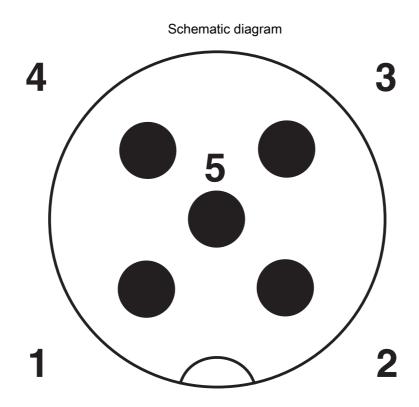


Housing cutout for M16 fastening thread, mounting panel with thread



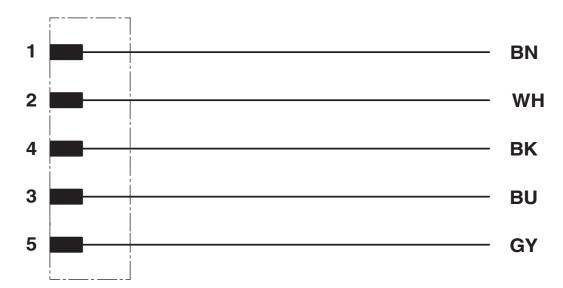
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Pin assignment M12 male connector, 5-pos., A-coded, male side

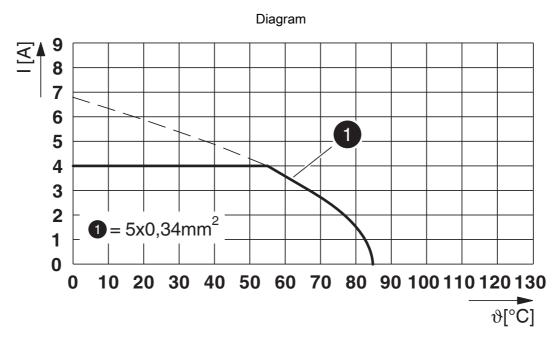
Circuit diagram





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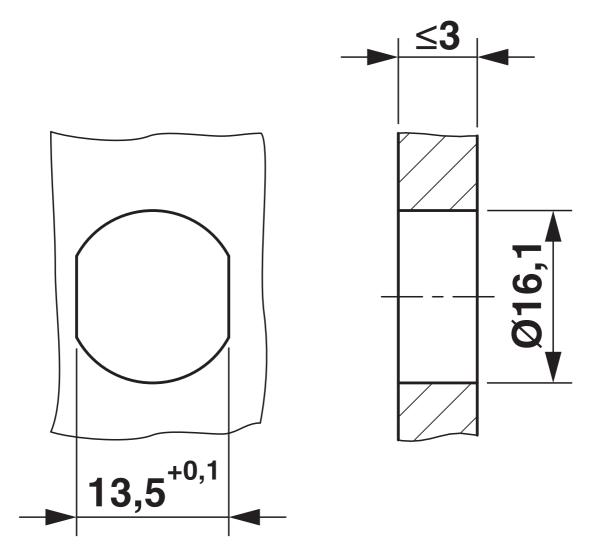
I = current strength, T = ambient temperature



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Dimensional drawing

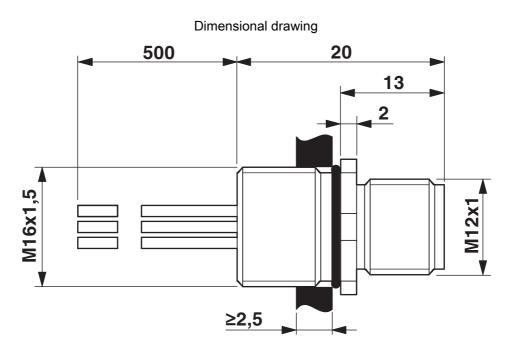


Housing cutout for M16 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)



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Dimensional drawing



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Approvals



Approval ID: B.01687

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	-

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	-



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Classifications

ECLASS

	ECLASS-11.0	27440103				
	ECLASS-12.0	27440103				
	ECLASS-13.0	27440103				
ΕT	ETIM					
	ETIM 8.0	EC003570				
UNSPSC						
	UNSPSC 21.0	39121400				



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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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Accessories

SACC-E-MU-M16 - Flat nut

1504097

https://www.phoenixcontact.com/in/products/1504097

Flat nut, Screw mounting, M16 x 1.5, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1239863



SACC-M16-SEAL CLM - Flat gasket

1430394

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





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PROT-M12 FS - Sealing cap

1560251

https://www.phoenixcontact.com/in/products/1560251



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

PROT-M12 FS-M - Sealing cap

1430488

https://www.phoenixcontact.com/in/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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