

1534397

https://www.phoenixcontact.com/us/products/1534397

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Device connector rear mounting, PROFIBUS, 2-position halogen-free, red lilac RAL 4001, shielded, Socket, straight, M12, coding: B, on free cable end, Rear mounting, M16 x 1.5, Cable connection, cable length: 1 m, PROFIBUS, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239929

Your advantages

- · Preassembled with cables in various standard lengths for immediate use
- · Customer-specific assemblies and cable lengths can be supplied
- · Sealed on the cable side for optimum tightness of seal
- · Cable designs for all common networks and fieldbuses
- · For high transmission safety: shield connection to the housing with optional EMC nut

Commercial data

Item number	1534397
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB25
Product key	ABQDGG
Catalog page	Page 426 (C-2-2019)
GTIN	4046356026567
Weight per piece (including packing)	84.3 g
Weight per piece (excluding packing)	84.3 g
Customs tariff number	85444290
Country of origin	DE



1534397

https://www.phoenixcontact.com/us/products/1534397

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.
Order information:	Lock nut is included in the scope of delivery
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: On the product On the packing label In the supplied documentation 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



1534397

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	section of the product at phoeniveentest com/areducts
	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/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).
ounting	
Mounting type	Rear mounting M16 x 1.5 With flat nut
Assembly note	With flat nut
roduct properties	
Product type	Circular connectors (device side)
Sensor type	PROFIBUS
Number of positions	2
No. of cable outlets	1
Shielded	yes
Coding	В
Thread type	M12
Data management status	
Article revision	11
Insulation characteristics	
Overvoltage category	II
Degree of pollution	3
aterial specifications	
Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA 6.6
Material for screw connection	Brass, nickel-plated
lectrical properties	
Rated surge voltage	1.5 kV
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC



1534397

https://www.phoenixcontact.com/us/products/1534397

Nominal current I _N	4 A (Plug/socket in accordance with IEC 61076-2-101, cable technical data is to be observed)
Test voltage	2500 V
Transmission medium	Copper
Connection data	
Conductor connection	
Connection method	Cable connection
Contact connection type	Socket
Mechanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 100
Connection 1	
Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	В
Connection 2	
Head design	free cable end
Cable/line	
Cable length	1 m
PROFIBUS [910]	
Dimensional drawing	
	Julius William Control of the Contro



Cable weight	90 kg/km
UL AWM Style	21198 (80°C/300 V)
Number of positions	2
Shielded	yes
Cable type	PROFIBUS [910]
Conductor structure	1x2xAWG24/19
Conductor structure signal line	19x 0.13 mm



1534397

https://www.phoenixcontact.com/us/products/1534397

AWG signal line	24		
Conductor cross section	2x 0.25 mm² (Signal line)		
Wire diameter incl. insulation	2.55 mm ±0.07 mm 7.80 mm ±0.2 mm		
External cable diameter			
Outer sheath, material	PUR		
External sheath, color	red lilac RAL 4001		
Conductor material	Tin-plated Cu litz wires		
Material, filler	PP Foam-Skin PP		
Material wire insulation			
Single wire, color	red, green		
Overall twist	2 cores with 2 fillers to the core		
Optical shield covering	85 %		
Max. conductor resistance	≤ 78.6 Ω/km		
Insulation resistance	≥ 5 GΩ*km		
Wave impedance	150 Ω ±10 % (3 MHz 20 MHz)		
Cable capacity	nom. 30 pF/m		
Nominal voltage, cable	300 V		
Test voltage Core/Core	1500 V (50 Hz, 1 min.)		
Test voltage Core/Shield	1500.00 V (50 Hz, 1 min.)		
Smallest bending radius, fixed installation	40 mm		
Smallest bending radius, movable installation	65 mm		
Max. bending cycles	4000000		
Bending radius	65 mm		
Traversing path	4.5 m		
Traversing rate	3 m/s		
Acceleration	3 m/s²		
Max. bending cycles	5000000		
Bending radius	80 mm		
Traversing path	4.5 m		
Traversing rate	3 m/s		
Acceleration	3 m/s²		
Shield attenuation	≤ 0.049 dB/m (at 16 MHz)		
Halogen-free	in accordance with DIN VDE 0472 part 815		
	according to IEC 60754-1		
Flame resistance	UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)		
	UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)		
	IEC 60332-1-2		
Other resistance	Low adhesion		
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)		
	-30 °C 70 °C (Cable, flexible installation)		
	-20 °C 60 °C (for installation)		
	-20 °C 60 °C (cable, drag chain applications)		



1534397

https://www.phoenixcontact.com/us/products/1534397

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)

Standards and regulations

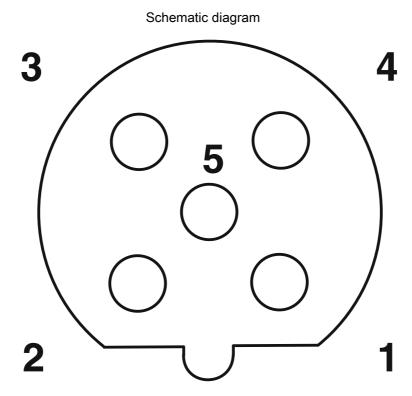
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



1534397

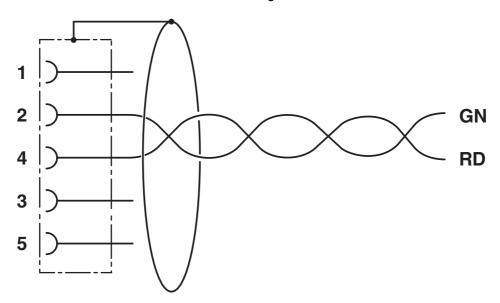
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Drawings



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

Circuit diagram





1534397

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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1534397

.71	CUL Recognized Approval ID: E221474-20220907			
	Nominal voltage	U _N Nominal current I _N	Cross section AWG	Cross section mm ²
	60 V	1.5 A	-	-

<i>9</i> 7	UL Recognized Approval ID: E221474-20220907				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		60 V	2 A	-	-

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	-	-



1534397

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Classifications

ECLASS

UNSPSC 21.0

	ECLASS-11.0	27440103			
	ECLASS-12.0	27440103			
	ECLASS-13.0	27440103			
ETIM					
	ETIM 9.0	EC003570			
U	UNSPSC				

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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	5019b2b5-161d-4282-bcc6-8188cce8c874

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