

1529742

https://www.phoenixcontact.com/pc/products/1529742

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Device connector front mounting, INTERBUS (16 Mbps), 5-position, PUR halogen-free, green RAL 6017, shielded, Socket, straight, M12, B-coded, on free cable end, Cable connection, cable length: 0.5 m, INTERBUS item no.: 1239917

Your advantages

- · Pre-assembled 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	1529742
Packing unit	1 pc
Minimum order quantity	1 pc
Product Key	ABQCEB
Catalog Page	Page 425 (C-2-2019)
GTIN	4017918982652
Weight per Piece (including packing)	62.3 g
Weight per Piece (excluding packing)	62.3 g
Customs tariff number	85444290
Country of origin	DE



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Technical Data

Notes

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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	 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).
unting	
Mounting type	Front mounting, M16 x 1.5 thread with lock nut
oduct properties	
Product type	Circular connectors (device side)
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	B - inverse
nsulation characteristics	
Overvoltage category	II
Overvoltage category Degree of pollution	II 3
Degree of pollution terial specifications Flammability rating according to UL 94	3 V0
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material	VO NBR
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material	V0 NBR CuZn
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material Contact surface material	VO NBR CuZn Ni/Au
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material Contact surface material Contact carrier material	VO NBR CuZn Ni/Au PA 6.6
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Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material Contact surface material Contact carrier material Material for screw connection	VO NBR CuZn Ni/Au PA 6.6
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material Contact surface material Contact carrier material Material for screw connection ctrical properties	V0 NBR CuZn Ni/Au PA 6.6 Nickel-plated brass
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material Contact surface material Contact carrier material Material for screw connection ctrical properties Rated surge voltage	V0 NBR CuZn Ni/Au PA 6.6 Nickel-plated brass
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material Contact surface material Contact carrier material Material for screw connection ctrical properties Rated surge voltage Contact resistance	3 V0 NBR CuZn Ni/Au PA 6.6 Nickel-plated brass 1.5 kV ≤ 3 mΩ
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material Contact surface material Contact carrier material Material for screw connection ctrical properties Rated surge voltage Contact resistance Insulation resistance	3 V0 NBR CuZn Ni/Au PA 6.6 Nickel-plated brass 1.5 kV ≤ 3 mΩ ≥ 100 MΩ
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material Contact surface material Contact carrier material Material for screw connection ctrical properties Rated surge voltage Contact resistance Insulation resistance	3 V0 NBR CuZn Ni/Au PA 6.6 Nickel-plated brass 1.5 kV ≤ 3 mΩ ≥ 100 MΩ 48 V AC
Degree of pollution terial specifications Flammability rating according to UL 94 Sealing material Contact material Contact surface material Contact carrier material Material for screw connection ctrical properties Rated surge voltage Contact resistance Insulation resistance Nominal voltage U _N	3 V0 NBR CuZn Ni/Au PA 6.6 Nickel-plated brass 1.5 kV ≤ 3 mΩ ≥ 100 MΩ 48 V AC 60 V DC 4 A (Plug/socket in accordance with IEC 61076-2-101, cable



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Connection method	Cable connection
Type of contact	Crimp contacts
Tightening torque	3 Nm
	4 Nm

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	B-coded

Connection 2

Head design	free cable end

Cable / line

INTERBUS [900]

Dimensional drawing



Cable weight 70 kg/km Number of positions 6 Shielded yes Cable type INTERBUS [900] Conductor structure 3 x 2 x 0.22 mm² Signal speed 0.66 c Conductor structure signal line 32x 0.10 mm AWG signal line 24 Conductor cross section 3x 2x 0.22 mm² External cable diameter 8 mm Outer sheath, material PUR External sheath, color may green RAL 6017	
Shielded yes Cable type INTERBUS [900] Conductor structure 3 x 2 x 0.22 mm² Signal speed 0.66 c Conductor structure signal line 32x 0.10 mm AWG signal line 24 Conductor cross section 3x 2x 0.22 mm² External cable diameter 8 mm Outer sheath, material PUR External sheath, color may green RAL 6017	
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Outer sheath, material PUR External sheath, color may green RAL 6017	
External sheath, color may green RAL 6017	
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D 0 11 1	
Conductor material Bare Cu litz wires	
Material wire insulation PE	
Single wire, color Green-yellow, white-brown, gray-pink	
Twisted pairs 2 cores to the pair	



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Overall twist	3 pairs to the core
Insulation resistance	≥ 5 GΩ*km
Coupling resistance	< 250.00 mΩ/m (at 30 MHz)
Loop resistance	≤ 159.80 Ω/km
Wave impedance	120 Ω ±20 % (at 64 kHz)
	100 Ω ±15 % (with 1 MHz)
Cable capacity	≤ 60 nF/km (At 800 Hz)
Nominal voltage, cable	250 V (Peak value, not for high-power applications)
Test voltage Core/Core	1500 V _{rms}
Test voltage Core/Shield	1000 V _{rms}
Minimum bending radius, fixed installation	7.5 x D
Minimum bending radius, flexible installation	15 x D
Max. bending cycles	5000000
Near end crosstalk attenuation (NEXT)	≥ 61 dB (at 772 kHz)
	≥ 59 dB (with 1 MHz)
	≥ 55 dB (at 2 MHz)
	≥ 50 dB (at 4 MHz)
	≥ 46 dB (at 8 MHz)
	≥ 44 dB (at 10 MHz)
	≥ 41 dB (at 16 MHz)
	≥ 40 dB (at 20 MHz)
Shield attenuation	≤ 15 dB/km (at 256 kHz)
	≤ 24 dB/km (at 772 kHz)
	≤ 27 dB/km (with 1 MHz)
	≤ 52 dB/km (at 4 MHz)
	≤ 84 dB/km (at 10 MHz)
	≤ 112 dB/km (at 16 MHz)
	≤ 119 dB/km (at 20 MHz)
Flame resistance	according to VDE 0472, Part 4, test type B
	according to IEC 60332-1
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-30 °C 70 °C (Cable, flexible installation)

Ambient conditions

Degree of protection	IP67
Degree of protection	IP65/IP67
Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)

Standards and regulations

Μ	1	2

Standards/specifications	IEC 61076-2-101



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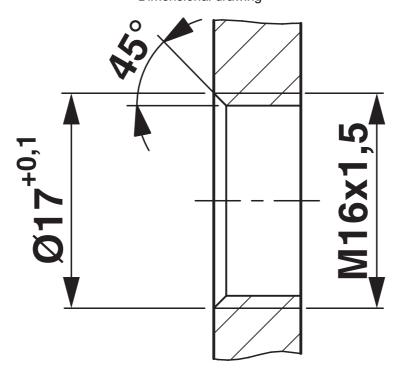
Drawings

Dimensional drawing 11,6 2 24,6

M12 flush-type socket, can be positioned

Dimensional drawing

44,6

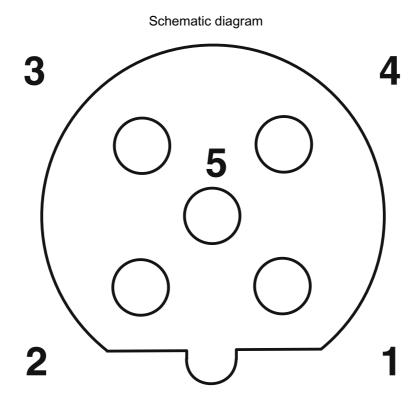


Housing cutout for M16 fastening thread, mounting panel with thread



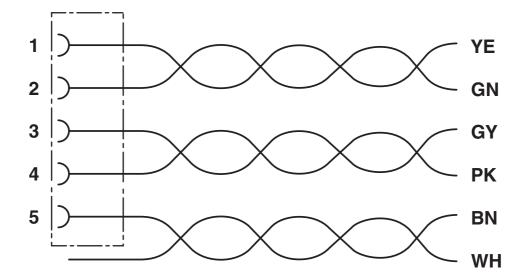
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Pin assignment M12 socket, 5-pos., B-coded, female side

Circuit diagram





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Approvals

-		

EAC

Approval ID: B.01687

.91	cUL Recognized Approval ID: E221474-2	-20220908				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²	
		60 V	1.5 A	-	-	

<i>7</i> .7	UL Recognized Approval ID: E221474-20220908				
		Nominal Voltage U _N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
		60 V	2 A	-	-

cULus Recognized



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Classifications

ECLASS

	DLAGG		
	ECLASS-9.0	27060311	
	ECLASS-10.0.1	27060311	
	ECLASS-11.0	27440103	
ETIM			
	ETIM 8.0	EC003570	
UNSPSC			
	UNSPSC 21.0	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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