

1051349

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Device connector, rear mounting, Power, 4-position, Plug, M12, coding: S power , Rear mounting, M16 x 1.5, Individual wires, UL/cUL stranded hook-up wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1238202

Your advantages

- · For compact devices: transmit high power in a confined space
- · Protection against mismatching thanks to S-coding
- · 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
- · For high transmission safety: shield connection to the housing with optional EMC nut

Commercial data

Item number	1051349	
Packing unit	1 pc	
Minimum order quantity	50 pc	
Note	Made to order (non-returnable)	
Sales key	AB27	
Product key	ABQCGG	
GTIN	4055626673523	
Weight per piece (including packing)	178.9 g	
Weight per piece (excluding packing)	170 g	
Customs tariff number	85444290	
Country of origin	DE	



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Technical data

Notes

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General	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	Lock nut is included in the scope of delivery
afety 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
	Here a protective and to protect assessment or that are set to

Use a protective cap to protect connectors that are not in use.
 The suitable accessories are available online in the accessory



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	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).
Mounting	
Mounting type	Rear mounting M16 x 1.5 With flat nut
Assembly instructions	With flat nut
Connection method	Individual wires
Product proportion	
Product properties	Circ because the (4. in vita)
Product type	Circular connectors (device side) Power
Sensor type	4
Number of positions No. of cable outlets	1
Shielded	no
Coding	S
Insulation characteristics	III
Overvoltage category Degree of pollution	3
Degree of polition	3
Material specifications	
Flammability rating according to UL 94	V0
Seal material	FKM
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material for screw connection	CuZn alloy, nickel-plated
Conductor material	Bare Cu litz wires
Electrical properties	
Rated surge voltage	6 kV AC
	6 kV AC
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	630 V
Nominal current I _N	12 A
Test voltage	6 kV



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Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Pin
Conductor cross section	1.31

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

Connector

Connection 1

Head design	Plug
Head thread type	M12
Coding	S power

Cable/line

Cable length	2.5	
Cable type	UL/cUL stranded hook-up wire	
Signal type/category	Power	
Wire diameter incl. insulation	2.2 mm	
Single wire, color	black 1, black 2, black 3, green/yellow	
Conductor material	Bare Cu litz wires	
AWG signal line	16	
Material wire insulation	mPPE	
Halogen-free	yes	
Flame resistance	in acc. to UL 1581 VW1	
Ambient temperature (operation)	-40 °C 105 °C (cable, fixed installation)	
	-20 °C 105 °C (Cable, flexible installation)	

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
	IP65/IP67
Ambient temperature (operation)	-2585 (Plug / socket)
	-20 °C 105 °C (Cable, flexible installation)
	-40 °C 105 °C (cable, fixed installation)

Standards and regulations

Flame resistance	in acc. to UL 1581 VW1
Tidine resistance	111 400: 10 01 1001 1111



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M12

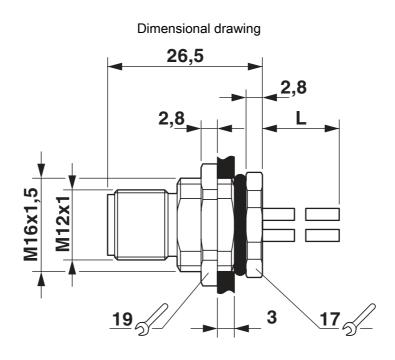
Standard designation	M12 connector	
Standards/specifications	based on IEC 61076-2-111	
Note	In line with	



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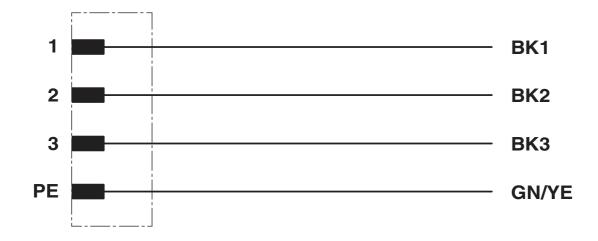
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Drawings



Dimensional drawing

Circuit diagram

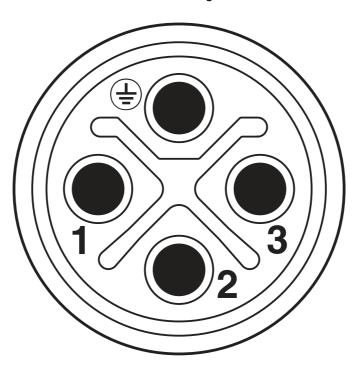




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Schematic diagram



Connector pin assignment of M12 plug, 4-pos., S-coded, view of pin side



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1051349



CUL Recognized Approval ID: E468743-20190917					
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	12 A	- 16	-

<i>7</i> 1	UL Recognized Approval ID: E468743-20	0190917			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		600 V	12 A	- 16	-

cULus Recognized



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Classifications

ECLASS

ECLACO			
	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 8.0	EC002635	
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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