

1415303

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Device connector rear mounting, Power, 6-position, Socket, straight, M12-Standard, coding: M, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 0.2 m, 1.31 mm^2 , UL/cUL stranded hook-up wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239089

Your advantages

- · For compact devices: transmit high power in a confined space
- Easy-to-install, optimized XL housing contour with wrench size 19
- · Mechanical tightening limitation for long-term-stable gasket
- · 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	1415303
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCHG
Catalog page	Page 287 (C-2-2019)
GTIN	4055626056319
Weight per piece (including packing)	50.2 g
Weight per piece (excluding packing)	39 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

lotes	
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
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



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Mounting type Assembly instructions With flat nut, tightening limitation Coduct properties Product type Circular connectors (device side) Sensor type Power Number of positions 6 No. of cable outlets 1 Shielded no Coding M Thread type M12 Insulation characteristics Overvoltage category III Degree of pollution 3 Material specifications Flammability rating according to UL 94 V0 Seal material FKM Contact material FKM Contact surface material Au Contact carrier material PA Material for screw connection Zinc die-cast, nickel-plated Conductor material Bare Cu litz wires		
properly connected. • VDE 0100/1-37 § 41.1.3.2 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). Nounting type		section of the product at phoenixcontact.com/products
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). Nounting type		· · · · · · · · · · · · · · · · · · ·
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Coding	No. of cable outlets	1
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Material for screw connection Conductor material Bare Cu litz wires Conductor material Bare Cu litz wires	Contact surface material	Au
	Contact carrier material	PA
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Rated voltage in acc. with IEC 61076-2-101 630 V Rated surge voltage 6 kV 6 kV AC Nominal voltage U _N 630 V Nominal current I _N 8 A	Conductor material	Bare Cu litz wires
Rated surge voltage 6 kV 6 kV AC Nominal voltage U _N 630 V Nominal current I _N 8 A	lectrical properties	
	Rated voltage in acc. with IEC 61076-2-101	630 V
Nominal voltage U _N 630 V Nominal current I _N 8 A	•	6 kV
Nominal current I _N 8 A		6 kV AC
	Nominal voltage U _N	630 V
Test voltage 6 kV	Nominal current I _N	8 A
	Test voltage	6 kV



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Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	1.31 mm²
Tightening torque	0.8 Nm 1.3 Nm (Installation-side)

Mechanical properties

Mechanical data

languation to the discount over a	- 400
Insertion/withdrawal cycles	> 100

Connector

Connection 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Head locking type	Standard
Coding	M

Connection 2

Head design	free cable end
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Cable/line

Cable length	0.2 m
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, black 4, black 5, green/yellow
Cable cross section	1.31 mm²
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)
	-25 °C 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP67
	IP65/IP67



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Ambient temperature (operation)	-25 °C 85 °C (Plug / socket)
	-40 °C 85 °C (without mechanical actuation)
	-25 °C 105 °C (Cable, flexible installation)
	-40 °C 105 °C (cable, fixed installation)
Standards and regulations	
Flame resistance	in acc. to UL 1581 VW1
M12	
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Note	In line with



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27440102
	ECLASS-12.0	27440116
	ECLASS-13.0	27440116
ETIM		
	ETIM 9.0	EC002635
UNS	SPSC	

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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