

1425589

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Device connector rear mounting, Power, 4-position, Socket, straight, M12-Standard, coding: L, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 0.2 m, 2.50 mm², PEX litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239520

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	1425589
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCHG
Catalog page	Page 285 (C-2-2019)
GTIN	4055626424385
Weight per piece (including packing)	46 g
Weight per piece (excluding packing)	45 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

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
General	Contact connection method: Crimp connection

Mounting

Mounting type	Rear mounting M16 x 1.5 XL version, with flat nut, tightening limitation
Thread type	0
Assembly note	XL version, with flat nut, tightening limitation

Product properties

Product type	Circular connectors (device side)
Sensor type	Power
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	L
Thread type	M12

Data management status

Article revision	10

Insulation characteristics

Overvoltage category	III
Degree of pollution	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	Zinc die-cast, nickel-plated
Conductor material	Tin-plated Cu litz wires

Electrical properties

Rated surge voltage	1.5 kV



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	1.5 kV AC/DC
Nominal voltage U _N	63 V DC
Nominal current I _N	16 A
Test voltage	1.5 kV

Connection data

Conductor connection

Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	2.5 mm²

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

Connector

Connection 1

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

Connection 2

Head design	free cable end

Cable/line

Cable length	0.2 m
Cable type	PEX litz wire
Signal type/category	Power
Single wire, color	brown 1, white 2, blue 3, black 4
Cable cross section	2.5 mm²
Conductor material	Tin-plated Cu litz wires
AWG signal line	14
Material wire insulation	PE-X
Halogen-free	according to IEC 60754-1
Flame resistance	in acc. with UL FT-2
Ambient temperature (operation)	-40 °C 85 °C (without mechanical actuation)
	-40 °C 85 °C (without mechanical actuation)
	-25 °C 105 °C (Cable, flexible installation)

Environmental and real-life conditions



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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 105 °C (Cable, flexible installation)
	-40 °C 105 °C (cable, fixed installation)

Standards and regulations

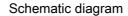
Flame resistance	in acc. with UL FT-2	
M12		
Standard designation	M12 connector	
Standards/specifications	IEC 61076-2-111	
Note	In line with	

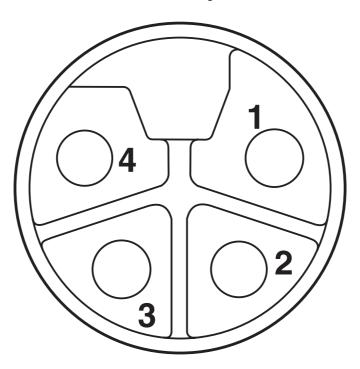


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Drawings





Pin assignment of M12 socket, 4-pos., L-coded, socket side view



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Approvals

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cULus Recognized Approval ID: E468743-20180113					
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		63 V	16 A	14 - 14	-



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Classifications

ECLASS

	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 9.0	EC002635	
UN	NSPSC		
	UNSPSC 21.0	39121400	



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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	0a5c8eda-a12d-4c42-90a7-2fcf921cb1b6

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com