

1425629

https://www.phoenixcontact.com/us/products/1425629

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Device connector rear mounting, Power, 5-position, Pin, straight, M12-Standard, coding: L, 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.: 1239543

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	1425629
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCGG
Catalog page	Page 286 (C-2-2019)
GTIN	4055626425788
Weight per piece (including packing)	35.6 g
Weight per piece (excluding packing)	34.9 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.
Notes on operation	FE not connected to metal parts that can be touched, no protective function
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	()
Assembly note	XL version, with flat nut, tightening limitation

Product properties

Product type	Circular connectors (device side)
Sensor type	Power
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	L
Thread type	M12
Determinent status	

Data management status

Article revision	11

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Material specifications

Color	gray
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	Bare Cu litz wires



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Electrical properties

Rated voltage in acc. with IEC 61076-2-101	63 V
Rated surge voltage	1.5 kV
	1.5 kV AC/DC
Nominal voltage U _N	63 V DC
Nominal current I _N	12 A
Test voltage	1.5 kV
Test voltage Core/Core	3 kV

Connection data

Conductor connection

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

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Connector

Connection 1

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

Connection 2

Head design	free cable end
111111111111111111111111111111111111111	

Cable/line

Cable length	0.2 m
Cable type	UL/cUL stranded hook-up wire
Signal type/category	Power
Wire diameter incl. insulation	2 mm
Single wire, color	brown 1, white 2, blue 3, black 4, pink FE
Cable cross section	1.31 mm²
Conductor material	Bare Cu litz wires
AWG signal line	16
Material wire insulation	mPPE



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Test voltage Core/Core	3 kV
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
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

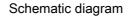
Flame resistance	in acc. to UL 1581 VW1
M12	
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Note	In line with



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Drawings





Pin assignment of M12 connector, 5-pos., L-coded, pin side view



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Approvals

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c 911 us	cULus Recognized Approval ID: E468743-20180113				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		63 V	12 A	16 - 16	-



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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	

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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	13b65d12-4d7a-4493-940d-4d119f2283a9

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