

1163099

https://www.phoenixcontact.com/us/products/1163099

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device connector, rear mounting, Power, 5-position, Socket, M12, coding: L, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 0.5 m, 2.50 mm², PEX litz wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb <0.1%) item no.: 1238575

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	1163099
Packing unit	1 pc
Minimum order quantity	25 pc
Sales key	AB27
Product key	ABQCHG
GTIN	4063151173739
Weight per piece (including packing)	95.9 g
Weight per piece (excluding packing)	95.9 g
Customs tariff number	85444290
Country of origin	DE



1163099

https://www.phoenixcontact.com/us/products/1163099

Technical data

Notes

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	FE not connected to metal parts that can be touched, no protective function
General	Lock nut is included in the scope of delivery

Mounting

Mounting type	Rear mounting M16 x 1.5 Tightening limitation
Assembly instructions	Tightening limitation
Connection method	Individual wires

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

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
Nominal voltage U _N	63 V DC
Nominal current I _N	16 A



1163099

https://www.phoenixcontact.com/us/products/1163099

Test voltage	1.5 kV
nnection data	
Conductor connection	
Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	2.5 mm²
echanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 100
onnector	
Connection 1	
Head design	Socket
Head thread type	M12
Coding	L
Connection 2	
Head design	free cable end
able/line	
Cable length	0.5 m
Cable type	PEX litz wire
Signal type/category	Power
Single wire, color	brown 1, white 2, blue 3, black 4, gray FE
Conductor material	Tin-plated Cu litz wires
AWG signal line	14
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)
wise personal and real life.	
vironmental 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)



1163099

https://www.phoenixcontact.com/us/products/1163099

Standards and regulations

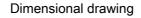
Flame resistance	in acc. with UL FT-2
M12	
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Note	In line with

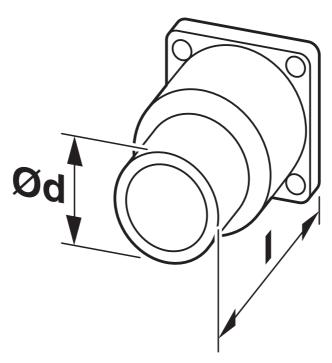


1163099

https://www.phoenixcontact.com/us/products/1163099

Drawings





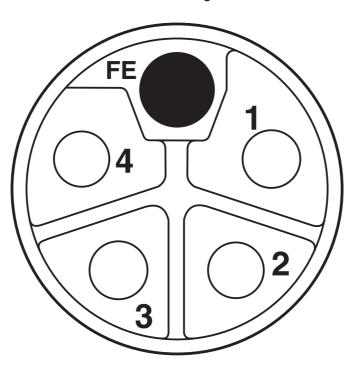
Technical drawings can be found under Downloads



1163099

https://www.phoenixcontact.com/us/products/1163099





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



1163099

https://www.phoenixcontact.com/us/products/1163099

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1163099



c FLL us	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	-



1163099

https://www.phoenixcontact.com/us/products/1163099

Classifications

ECLASS

202.00			
	ECLASS-11.0	27440102	
	ECLASS-12.0	27440116	
	ECLASS-13.0	27440116	
ETIM			
	ETIM 8.0	EC002635	
U	NSPSC		
	UNSPSC 21.0	39121400	



1163099

https://www.phoenixcontact.com/us/products/1163099

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"



1163099

https://www.phoenixcontact.com/us/products/1163099

Accessories

PROT M12 MS PWR - Screw plug

1092802

https://www.phoenixcontact.com/us/products/1092802



An M12 screw plug for the unoccupied M12 females of the M12 POWER connectors, boxes, and flush-type connectors

Phoenix Contact 2023 © - all rights reserved https://www.phoenixcontact.com

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