

1420501

https://www.phoenixcontact.com/us/products/1420501

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Device connector rear mounting, Power, 4-position, Socket, straight, M12-Standard, coding: T, on free cable end, Rear mounting, M16 x 1.5, Individual wires, cable length: 1.5 m, 1.31 mm², UL/cUL stranded hook-up wire, Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239312

Your advantages

- · For compact devices: transmit high power in a confined space
- · 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	1420501
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCHG
GTIN	4055626227320
Weight per piece (including packing)	113.22 g
Weight per piece (excluding packing)	104.18 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 With flat nut
Assembly note	With flat nut

Product properties

Product type	Circular connectors (device side)
Sensor type	Power
Number of positions	4
No. of cable outlets	1
Shielded	no
Coding	Т
Thread type	M12
Data management status	
Article revision	06
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3
aterial specifications	
Flammability rating according to UL 94	VO
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
ectrical properties	
Rated surge voltage	1.5 kV



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Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	63 V DC
Nominal current I _N	12 A
Test voltage	1.5 kV

Connection data

Conductor connection	
Connection method	Individual wires
Contact connection type	Socket
Conductor cross section	1.31 mm²
Tightening torque	M12 connector

Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	> 100

Connector

Head cable outletstraitHead thread typeM12	
Head locking type Star	dard
Coding T	

free cable end

Head design

Cable/line

Cable length	1.5 m
Cable type	UL/cUL stranded hook-up wire
Signal type/category	Power
Wire diameter incl. insulation	2 mm
Single wire, color	black, brown, blue, white
Cable cross section	1.31 mm ²
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 85 °C (without mechanical actuation)
	-40 °C 85 °C (without mechanical actuation)
	-25 °C 105 °C (Cable, flexible installation)



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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

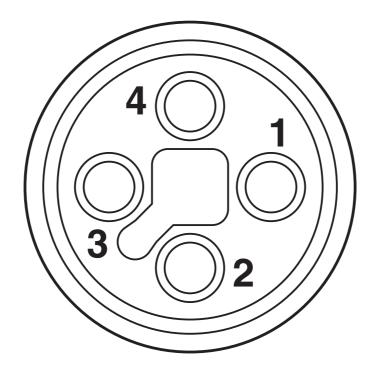


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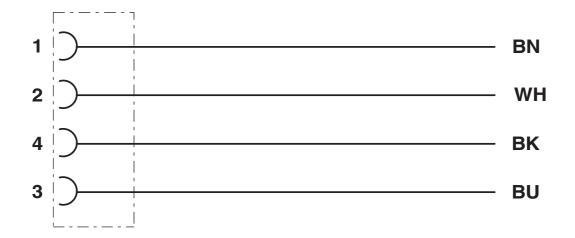
Drawings

Schematic diagram



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

Circuit diagram





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Approvals

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 CUL Recognized Approval ID: E468743-20	0190917			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	63 V	12 A	16 - 16	-

SU UL Recognized Approval ID: E468743-20	UL Recognized Approval ID: E468743-20190917			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	63 V	12 A	16 - 16	-

cULus Recognized



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Classifications

ECLASS

	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

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	d2446b15-f84a-4107-a97e-4a7986722d21

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