

1424140

https://www.phoenixcontact.com/us/products/1424140

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Device connector front mounting, Power, 4-position, Pin, straight, M12-Standard, T-coding, on free cable end, Individual wires, cable length: 0.5 m, 1.31 mm², UL/cUL stranded hook-up wire, potted, this item is expected to be lead-free from Q1 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

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	1424140
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AB24
Product key	ABQCEG
GTIN	4046356693424
Weight per piece (including packing)	47.2 g
Weight per piece (excluding packing)	45.269 g
Customs tariff number	85444290
Country of origin	DE



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Technical data

Notes

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Mounting

Mounting type	Front mounting (M16 x 1,5)
Tightening torque	M12 connector

Product properties

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

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Material specifications

Material Molding compound	PUR (potted)
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	CuZn alloy, nickel-plated
Conductor material	Bare Cu litz wires

Electrical properties

Rated surge voltage	1.5 kV
Rated surge voltage	1.5 kV AC/DC
Contact resistance	≤ 3 mΩ
Insulation resistance	≥ 100 MΩ



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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	Pin
Conductor cross-section	1.31 mm²
Tightening torque	M12 connector

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100

Connector

Connection 1

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

Connection 2

Head design	free cable end

Cable/line

Cable length	0.5 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 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 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	IP65	
	IP67	
Ambient temperature (operation) (male connector/female connector)	-25 °C 85 °C (Plug / socket)	
Ambient temperature (operation) (Cable, fixed installation)	-40 °C 85 °C (without mechanical actuation)	
Ambient temperature (operation) (Cable, flexible installation)	-25 °C 105 °C (Cable, flexible installation)	
Ambient temperature (operation) (Cable, fixed installation)	-40 °C 105 °C (cable, fixed installation)	
UL Type Rating	Type 4 (indoor use only)	

Standards and regulations

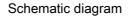
Flame resistance	in acc. to UL 1581 VW1
Standard designation	M12 circular connector
Standards/specifications	according to IEC 61076-2-111

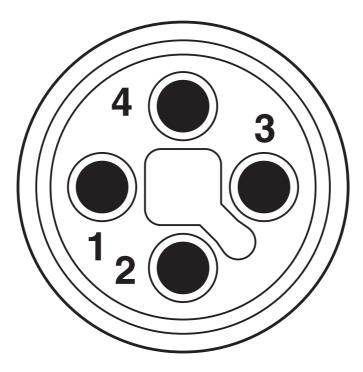


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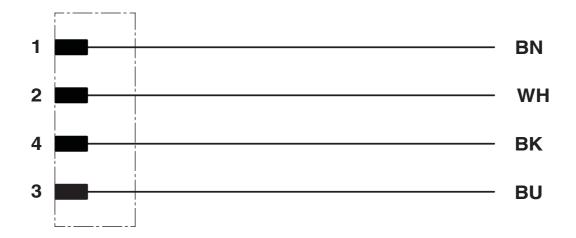
Drawings





Connector pin assignment of M12 plug, 4-pos., T-coded, view of pin side

Circuit diagram



Contact assignment of the M12 plug



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1424140

. 91	CUL Recognized Approval ID: E468743-20190917				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		63 V	12 A	16	-

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Classifications

ECLASS

	ECLASS-13.0	27440103
	ECLASS-15.0	27440103
ET	TIM	
	ETIM 9.0	EC003570
UN	ISPSC	

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	10398074-542e-4215-8d29-3ff01b46463b

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