

1424125

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Power cable, 4-position, PUR halogen-free, black RAL 9005, shielded (Advanced Shielding Technology), Plug angled M12, coding: T, on free cable end, cable length: 3 m, For direct current up to 12 A/63 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- · Protection against incorrect connection using special T-coding
- Shield power reliably 360° shielding to reduce electromagnetic loads
- · Our standard: robust halogen-free PUR cable

Commercial data

Item number	1424125
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF05
Product key	AF1CCQ
GTIN	4046356693295
Weight per piece (including packing)	342.2 g
Weight per piece (excluding packing)	430 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Power cable
Energy supply
4
1
yes
Т
III
3

Material specifications

Flammability rating according to UL 94	V0
Material of grip body	PP
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

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

Mechanical properties

Mac	han	ical	data

Medianical data	
Insertion/withdrawal cycles	> 100

Connector

Connection 1

Туре	Plug angled M12
Coding type	T (Power)

Connection 2

Туре	free cable end

Cable/line

Cable length	3 m
PUR halogen-free black [PUR]	



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Dimensional drawing	
Cable weight	99 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	PUR halogen-free black [PUR]
Conductor structure, voltage supply	44x 0.20 mm
AWG power supply	16
Conductor cross section	4x 1.5 mm²
Wire diameter incl. insulation	2.2 mm ±0.05 mm
External cable diameter	7.50 mm ±0.3 mm
Outer sheath, material	PUR
External sheath, color	black RAL 9005
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black
Thickness, insulation	0.80 mm (Outer cable sheath)
Overall twist	4 wires optimally twisted
Max. conductor resistance	≤ 14.1 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	300 V AC
Test voltage	3000 V AC
Smallest bending radius, fixed installation	38 mm
Smallest bending radius, movable installation	75 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 75 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: 500000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
	according to IEC 60754-1
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
Resistance to oil	according to DIN EN 60811-404, 168 h at 100 °C
Ambient temperature (operation)	-50 °C 85 °C (cable, fixed installation)

Environmental and real-life conditions



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Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C 85 °C (Plug / socket)

Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111



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Drawings

Dimensional drawing

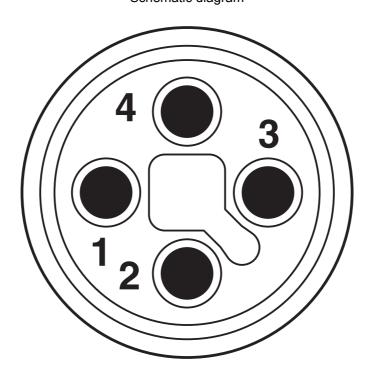
15,87

M12

41,5

M12 x 1 male plug, angled

Schematic diagram

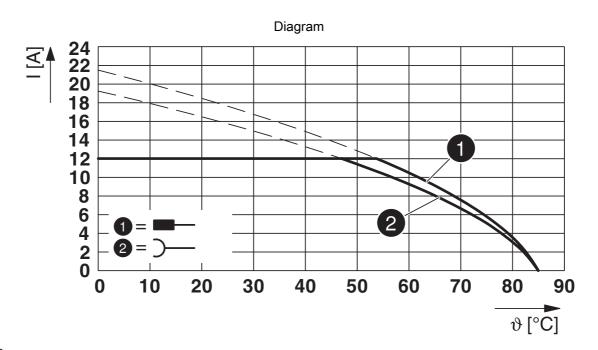


Pin assignment for M12 plug, 4-pos., T-coded, view of plug side



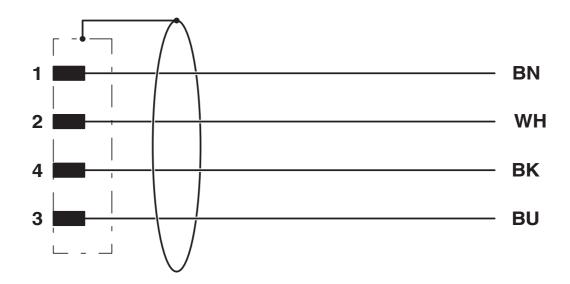
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Base curve

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/1424125

UL Listed Approval ID: E468743				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	63 V	12 A	- 16	- 16

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		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		63 V	12 A	- 16	-

FAL	EAC-RoHS
CUL	Approval ID: RU D-DE.HB35.B.00387



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Classifications

ECLASS

	ECLASS-13.0	27060327
	ECLASS-15.0	27060327
E٦	ГІМ	
	ETIM 9.0	EC001855
1 11	NSPSC	
UI	NOFOC	
	UNSPSC 21.0	26121600



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions	
China DallO		
China RoHS		
Environment friendly use period (EFUP)	EFUP-E	
	No hazardous substances above the limits	
EU REACH SVHC		
LOTEAGITOTTO		
REACH candidate substance (CAS No.)	No substance above 0.1 wt%	
EF3.0 Climate Change		
= or omittee or ango		

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