

1414834

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Power cable, 5-position, PUR halogen-free, orange RAL 2003, shielded (Advanced Shielding Technology), Plug angled M12, coding: K, on free cable end, cable length: 1.5 m, for AC current up to 16 A/690 V

Your advantages

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

Commercial data

Item number	1414834
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF05
Product key	AF1CDQ
GTIN	4055626034676
Weight per piece (including packing)	346.86 g
Weight per piece (excluding packing)	346.86 g
Customs tariff number	85444290
Country of origin	US



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Technical data

Product properties

Product type	Power cable
Application	Energy supply
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	K
Insulation characteristics	
Overvoltage category	III
Degree of pollution	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	690 V AC
Nominal current I _N	16 A

Mechanical properties

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Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Туре	Plug angled M12
Coding type	K (Power)

Connection 2

Type	free cable end
.) -	

Cable/line

Cable length	1.5 m

PUR halogen-free orange [PUR]



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Dimensional drawing	
Cable weight	195 kg/km
UL AWM Style	90 °C / 1000 V
Number of positions	5
Shielded	yes
Cable type	PUR halogen-free orange [PUR]
Conductor structure, voltage supply	80x 0.20 mm
AWG power supply	16
Conductor cross section	5x 2.5 mm²
Wire diameter incl. insulation	2.8 mm ±0.1 mm
External cable diameter	9.90 mm ±0.3 Nm
Outer sheath, material	PUR
External sheath, color	orange RAL 2003
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	black 1, black 2, black 3, black 4, green/yellow
Thickness, insulation	≥ 0.26 mm
Thickness, outer sheath	approx. 0.75 mm
Overall twist	5 cores, twisted
Max. conductor resistance	≤ 8 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 1000 V AC
Test voltage	≥ 10000 V AC (Spark test)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	49 mm
Smallest bending radius, movable installation	99 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, 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
	in accordance with DIN EN 50267-2-1
Flame resistance	According to UL 758/1581 (Cable Flame)
	in accordance with UL 758/1581 FT2
	according to DIN EN 60332-2-2



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Resistance to oil	according to DIN EN 60811-404, 168 h at 100 °C
	according to UL 758, 168 h at 60 °C
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
	Low adhesion
	abrasion-resistant
	Resistant to salt water
Ambient temperature (operation)	-50 °C 85 °C (cable, fixed installation)
	-30 °C 85 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67 (without preloading, as additional test in accordance with IEC 60529)
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

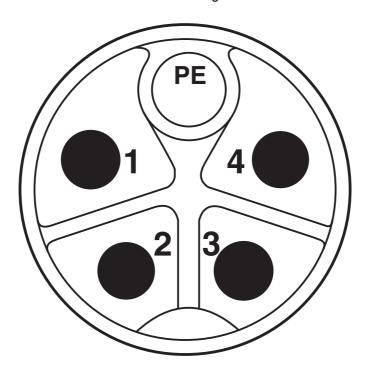
15,87

M12

41,5

M12 x 1 male plug, angled

Schematic diagram

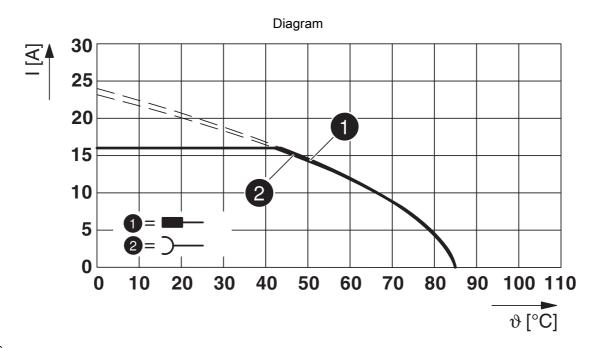


Connector pin assignment of M12 plug, 5-pos., K-coded, pin side view



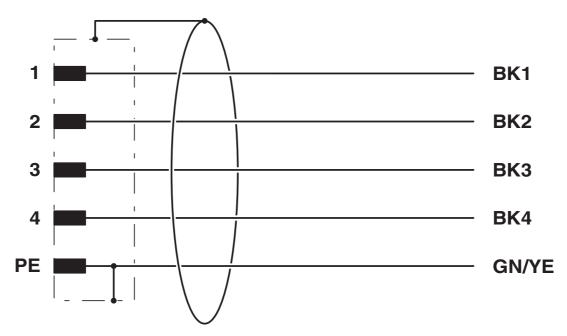
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Base curve

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/1414834

UL Listed Approval ID: E468743				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine				
	600 V	16 A	- 14	- 14

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		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		600 V	16 A	- 14	-

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



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Classifications

ECLASS

	ECLASS-13.0	27060327
	ECLASS-15.0	27060327
	-1A 4	
ΕI	TIM	
	ETIM 9.0	EC001855
UN	NSPSC	
О.	101 00	
	UNSPSC 21.0	26121600



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	3.302 kg CO2e

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