

1414853

https://www.phoenixcontact.com/us/products/1414853

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Power cable, 5-position, PVC, gray RAL 7001, shielded (Advanced Shielding Technology), Plug angled M12, coding: L, on free cable end, cable length: 1.5 m, for direct current up to 16 A/63 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- · Protection against mismatching, thanks to special L-coding
- Shield power reliably 360° shielding to reduce electromagnetic loads

Commercial data

Item number	1414853
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF05
Product key	AF1CDP
GTIN	4055626034850
Weight per piece (including packing)	419.12 g
Weight per piece (excluding packing)	419.12 g
Customs tariff number	85444290
Country of origin	PL



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Technical data

Product properties

Power cable
Energy supply
5
1
yes
L
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	16 A

Mechanical properties

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Insertion/withdrawal cycles	≥ 100

Connector

Connection 1

Туре	Plug angled M12
Coding type	L (Power)

Connection 2

Туре	free cable end

Cable/line

Cable length	1.5 m	
PVC gray [500]		



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Dimensional drawing	
Cable weight	231 kg/km
UL AWM Style	20233 / 10493 (80°C/300 V)
Number of positions	5
Shielded	yes
Cable type	PVC gray [500]
Conductor structure, voltage supply	141x 0.15 mm
AWG power supply	14
Conductor cross section	5x 2.5 mm²
Wire diameter incl. insulation	3 mm ±0.1 mm
External cable diameter	10.80 mm ±0.3 mm
Outer sheath, material	PVC
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, white, blue, black, gray
Thickness, insulation	≥ 0.36 mm
Thickness, outer sheath	approx. 0.76 mm
Max. conductor resistance	≤ 8 Ω/km (at 20 °C)
Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V AC
Test voltage	≥ 3000 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	54 mm
Smallest bending radius, movable installation	108 mm
Dynamic load capacity (bending)	Max. bending cycles: 1000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
Flame resistance	According to UL 758/1581 (Cable Flame)
	according to UL 758/1581 FT1
	According to DIN EN 60332-1-2
Resistance to oil	according to DIN EN 60811-404, 168 h at 60 °C
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-20 °C 80 °C (Cable, flexible installation)

Environmental and real-life conditions



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Ambient conditions

Degree of protection	IP65
	IP67
	IP68
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

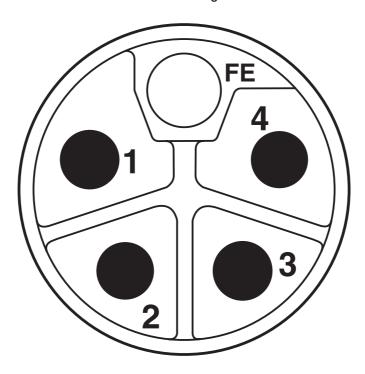
15,87

M12

41,5

M12 x 1 male plug, angled

Schematic diagram

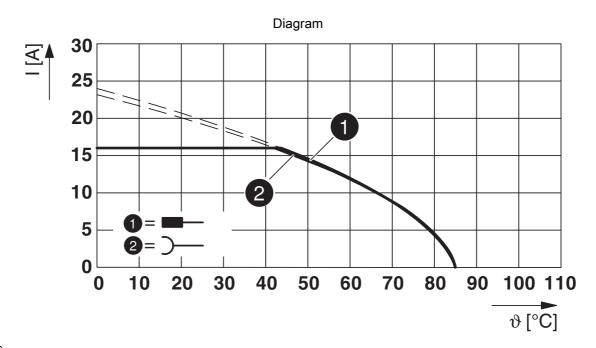


Pin assignment of M12 connector, 5-pos., L-coded, pin side view

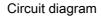


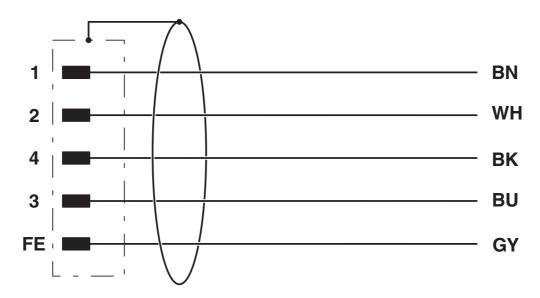
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Base curve





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/1414853



UL Listed

Approval ID: E468743



cUL Listed

Approval ID: E468743



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387



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Classifications

ECLASS

	ECLASS-13.0	27060327	
	ECLASS-15.0	27060327	
ETIM			
	ETIM 9.0	EC001855	
UNSPSC			
О.			
	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	4.558 kg CO2e		

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