

SAC-5P-M12MSL/ 1,5-280 FE - Power cable



1414883

<https://www.phoenixcontact.com/gb/products/1414883>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Power cable, 5-position, PUR halogen-free, gray RAL 7001, Plug straight 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
- Our standard: robust halogen-free PUR cable

Commercial data

Item number	1414883
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF1CDP
Product key	BF1CDP
Catalog page	Page 294 (C-2-2019)
GTIN	4055626035130
Weight per piece (including packing)	282.2 g
Weight per piece (excluding packing)	288.5 g
Customs tariff number	85444290
Country of origin	PL

SAC-5P-M12MSL/ 1,5-280 FE - Power cable



1414883

<https://www.phoenixcontact.com/gb/products/1414883>

Technical data

Product properties

Product type	Power cable
Application	Power supply
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	L

Data management status

Article revision	06
------------------	----

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	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	63 V DC
Nominal current I_N	16 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	------------

Connector

Connection 1

Type	Plug straight M12
Coding type	L (Power)

Connection 2

Type	free cable end
------	----------------

Cable/line

Cable length	1.5 m
--------------	-------

SAC-5P-M12MSL/ 1,5-280 FE - Power cable



1414883

<https://www.phoenixcontact.com/gb/products/1414883>

PUR halogen-free gray [280]

Dimensional drawing	
Cable weight	159 kg/km
UL AWM Style	80°C/300 V
Number of positions	5
Shielded	no
Cable type	PUR halogen-free gray [280]
Conductor cross section	5x 2.5 mm²
Wire diameter incl. insulation	2.65 mm ±0.1 mm
External cable diameter	8.60 mm ±0.25 mm
Outer sheath, material	PUR
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black, pink
Thickness, insulation	≥ 0.14 mm
Thickness, outer sheath	approx. 0.70 mm
Max. conductor resistance	≤ 8 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*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	4 mm
Smallest bending radius, movable installation	86 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s²
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 (20 s)
Resistance to oil	according to DIN EN 60811-404, 168 h at 100 °C
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10 Low adhesion abrasion-resistant

SAC-5P-M12MSL/ 1,5-280 FE - Power cable



1414883

<https://www.phoenixcontact.com/gb/products/1414883>

	Resistant to salt water
Ambient temperature (operation)	-50 °C ... 80 °C (cable, fixed installation)
	-30 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

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

Standards and regulations

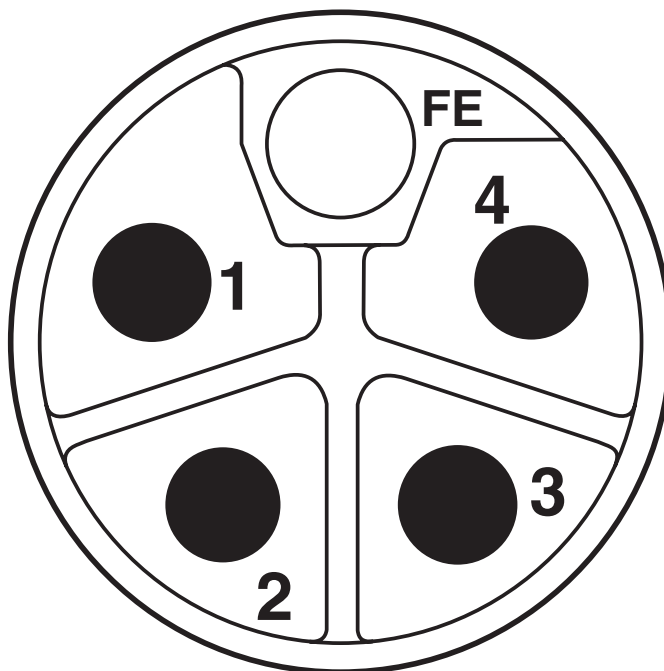
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111

Drawings

Circuit diagram

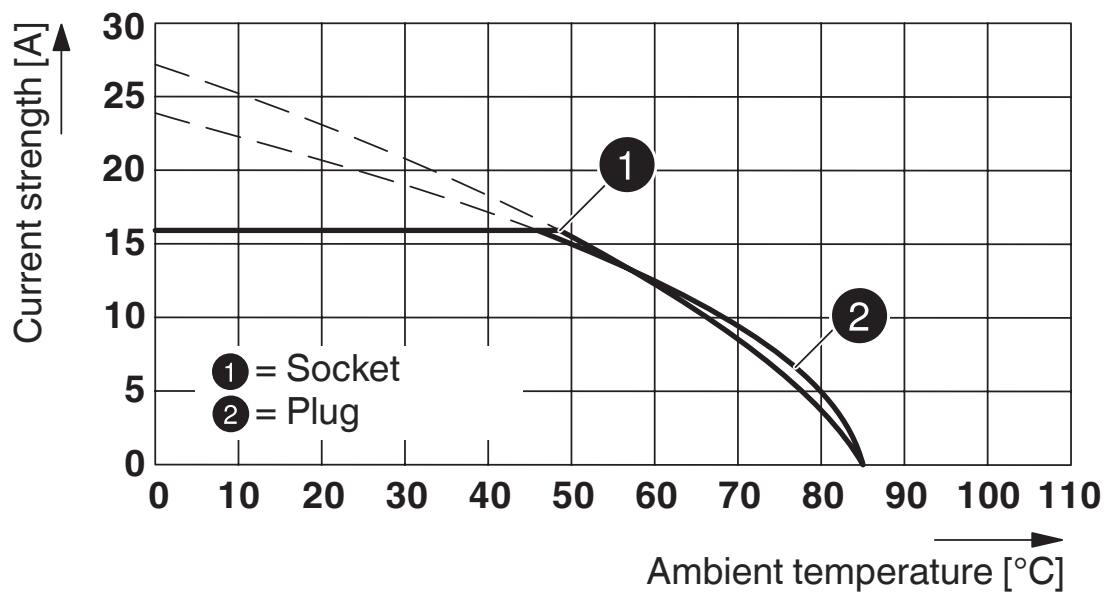


Schematic diagram



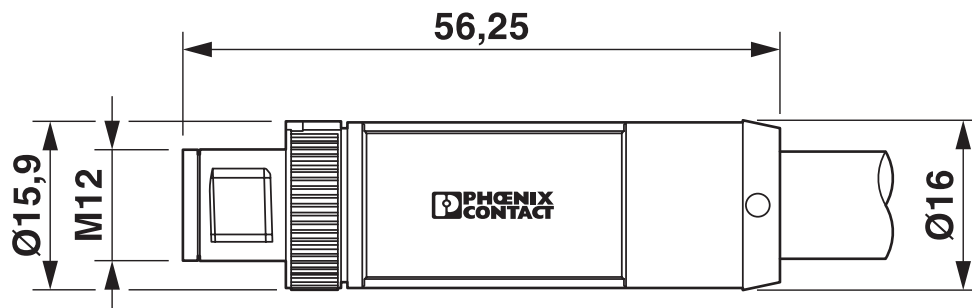
Pin assignment of M12 connector, 5-pos., L-coded, pin side view

Diagram



Base curve

Dimensional drawing



Plug, M12 x 1, straight

SAC-5P-M12MSL/ 1,5-280 FE - Power cable



1414883

<https://www.phoenixcontact.com/gb/products/1414883>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1414883>



UL Listed

Approval ID: E468743



cUL Listed

Approval ID: E468743



EAC-RoHS

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

cULus Listed

SAC-5P-M12MSL/ 1,5-280 FE - Power cable



1414883

<https://www.phoenixcontact.com/gb/products/1414883>

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060327

ETIM

ETIM 9.0	EC001855
----------	----------

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

SAC-5P-M12MSL/ 1,5-280 FE - Power cable



1414883
<https://www.phoenixcontact.com/gb/products/1414883>

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	2.418 kg CO2e

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk