

SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

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.



Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against incorrect connection using special S-coding

Commercial data

Item number	1176846
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF05
Product key	AF1CCP
GTIN	4063151209537
Weight per piece (including packing)	379.3 g
Weight per piece (excluding packing)	379.3 g
Customs tariff number	85444290
Country of origin	PL

SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

Technical data

Product properties

Product type	Power cable
Application	Energy supply
Number of positions	3
No. of cable outlets	1
Shielded	no
Coding	S

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	690 V AC
Nominal current I_N	16 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
-----------------------------	-------

Connector

Connection 1

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

Connection 2

Type	Socket straight M12
Coding type	S (Power)

Cable/line

Cable length	5 m
--------------	-----

PUR black [PUR]

Cable weight	66 kg/km
--------------	----------

SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	3
Shielded	no
Cable type	PUR black [PUR]
Conductor structure, voltage supply	44x 0.20 mm
AWG power supply	16
Conductor cross section	3x 1.5 mm²
Wire diameter incl. insulation	2.25 mm ±0.05 mm
External cable diameter	6.20 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	black 1, black 2, green/yellow
Overall twist	3 wires, 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
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	31 mm
Smallest bending radius, movable installation	62 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 (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 Resistant to salt water
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
----------------------	------

SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

	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

SAC-3P- 5,0-PUR/M12FSS PE - Power cable

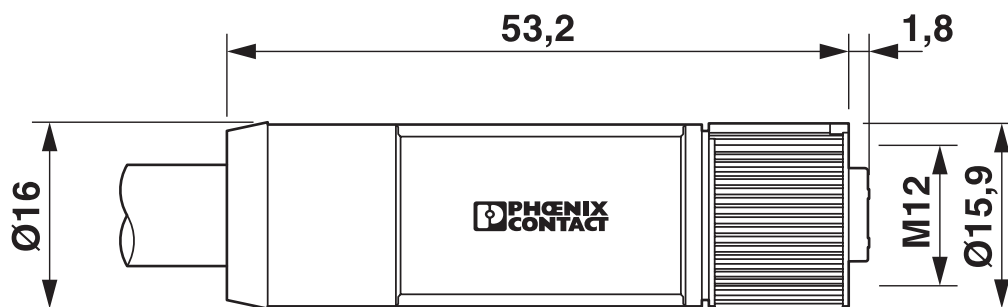


1176846

<https://www.phoenixcontact.com/us/products/1176846>

Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment of M12 socket, 3-pos., S-coded, socket side view

SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1176846>

keine	 UL Listed Approval ID: FILE E 468743			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	300 V	12 A	- 16	- 16

keine	 cUL Listed Approval ID: FILE E 468743			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	300 V	12 A	- 16	-

SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

Classifications

ECLASS

ECLASS-13.0	27060327
ECLASS-15.0	27060327

ETIM

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

UNSPSC

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

SAC-3P- 5,0-PUR/M12FSS PE - Power cable



1176846

<https://www.phoenixcontact.com/us/products/1176846>

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	18.293 kg CO2e
---------	----------------

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com