

SAC-5P-12,5-PUR/M12FSK PE - Power cable



1194584

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Power cable, free cable end, on Socket straight M12, coding: K, for AC current up to 16 A/690 V, PE connection with Advanced Shielding Technology

Commercial data

Item number	1194584
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AF1CDQ
GTIN	4063151250119
Weight per piece (including packing)	2,197 g
Weight per piece (excluding packing)	2,197 g
Country of origin	PL

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Technical data

Product properties

Product type	Power cable
Application	Energy supply
Coding	K

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Nominal voltage U_N	690 V AC
Nominal current I_N	16 A

Connector

Connection 1

Type	free cable end
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Connection 2

Type	Socket straight M12
Coding type	K (Power)

Cable/line

PUR halogen-free black [PUR]

Dimensional drawing	
Shielded	no
UL AWM Style	90 °C / 1000 V
Cable weight	165 kg/km
Cable type	PUR halogen-free black
Cable type (abbreviation)	PUR
External cable diameter	9.00 mm $\pm$ 0.3 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Thickness, outer sheath	approx. 0.70 mm
Conductor material	Bare Cu litz wires

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Conductor structure, voltage supply	80x 0.20 mm
Conductor cross-section	5x 2.5 mm²
AWG power supply	14
Material wire insulation	PP
Thickness, insulation	≥ 0.31 mm
Wire diameter incl. insulation	2.8 mm ±0.1 mm
Single wire, color	black 1, black 2, black 3, black 4, green/yellow
Nominal voltage, cable	≤ 1000 V AC
Test voltage, cable	≥ 10000 V AC (Spark test)
Cable resistance	≤ 8 Ω/km (at 20 °C)
Cable insulation resistance	≥ 1 GΩ*km (at 20 °C)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	5000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	10 m
Traversing rate	3 m/s
Acceleration	10 m/s²
Torsion force	± 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
Resistance to oil	according to DIN EN 60811-404, 168 h at 100 °C
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
Other resistance	Hydrolysis and microbe resistant as per VDE 0282 section 10
	Low adhesion
	abrasion-resistant
	Resistant to salt water
Ambient temperature (operation)	-30 °C ... 90 °C (Cable, flexible installation)
	-50 °C ... 90 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

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

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1194584>

	 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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Classifications

ECLASS

ECLASS-13.0	27060327
ECLASS-15.0	27060327

ETIM

ETIM 10.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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%
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EF3.1 Climate Change

CO2e kg	27.003 kg CO2e
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