SAC-6P-M12MSM/10,0-PUR PE - Power cable

1414961

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Power cable, 6-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: M, on free cable end, cable length: 10 m, for AC current up to 8 A/690 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against mismatching, thanks to special M-coding
- Our standard: robust halogen-free PUR cable

Commercial data

Item number	1414961
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF05
Product key	BF1CGP
Catalog page	Page 298 (C-2-2019)
GTIN	4055626035888
Weight per piece (including packing)	1,420 g
Weight per piece (excluding packing)	1,363 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Product properties

Product type	Power cable
Number of positions	6
Application	Power supply
No. of cable outlets	1
Shielded	no
Coding	M

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	8 A
Protective circuit	unwired

Connector

Connection 1

Type	Plug straight M12
Coding type	M (Power)

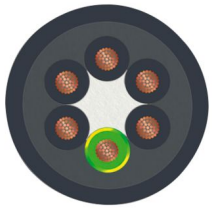
Connection 2

Type	free cable end

Cable/line

Cable length	10 m

PUR halogen-free black [PUR]

Dimensional drawing	
Cable weight	144 kg/km
UL AWM Style	20234 / 10492 (80°C/1000 V)
Number of positions	6
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor cross section	6x 1.5 mm²
Wire diameter incl. insulation	2.35 mm ±0.05 mm
External cable diameter	9.75 mm ±0.25 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	black 1, black 2, black 3, black 4, black 5, green/yellow
Thickness, insulation	≥ 0.36 mm
Thickness, outer sheath	approx. 1.15 mm
Max. conductor resistance	≤ 15 Ω/m (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	98 mm
Max. bending cycles	4000000
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)
	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 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)	-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 (without preloading, as additional test in accordance with IEC 60529)
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

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

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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