SAC-6P- 5,0-PVC/M12FSM PE SH - Power cable

1414923

https://www.phoenixcontact.com/us/products/1414923

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Power cable, 6-position, PVC, orange RAL 2003, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12, coding: M, cable length: 5 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
- Shield power reliably – 360° shielding to reduce electromagnetic loads

Commercial data

Item number	1414923
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF05
Product key	AF1CGP
GTIN	4055626035512
Weight per piece (including packing)	1,015 g
Weight per piece (excluding packing)	1,015 g
Customs tariff number	85444290
Country of origin	PL

Technical data

Product properties

Product type	Power cable
Application	Energy supply
Number of positions	6
No. of cable outlets	1
Shielded	yes
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

Connector

Connection 1

Type	free cable end

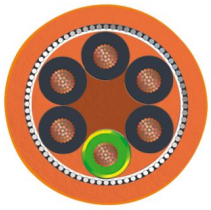
Connection 2

Type	Socket straight M12
Coding type	M (Power)

Cable/line

Cable length	5 m

PVC orange [PVC]

Dimensional drawing	
Cable weight	192 kg/km
UL AWM Style	2570 / 10914 (80°C/1000 V)
Number of positions	6
Shielded	yes
Cable type	PVC orange [PVC]
Conductor structure, voltage supply	78x 0.15 mm
AWG power supply	16
Conductor cross-section	6x 1.5 mm²
Wire diameter incl. insulation	2.4 mm ±0.05 mm
External cable diameter	10.40 mm ±0.25 mm
Outer sheath, material	PVC
External sheath, color	orange RAL 2003
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	black 1, black 2, black 3, black 4, black 5, green/yellow
Thickness, insulation	≥ 0.36 mm
Thickness, outer sheath	approx. 0.76 mm
Max. conductor resistance	≤ 15 Ω/m (at 20 °C)
Insulation resistance	≥ 100 MΩ*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	52 mm
Smallest bending radius, movable installation	104 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

Ambient conditions

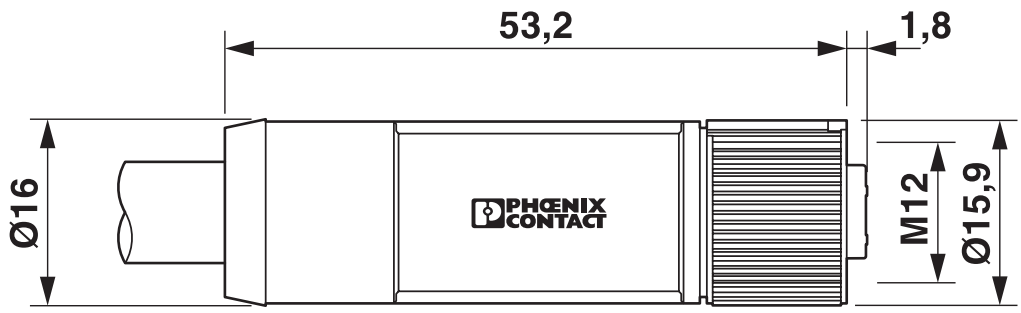
Degree of protection	IP65
	IP67 (without preloading, as additional test in accordance with IEC 60529)
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

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

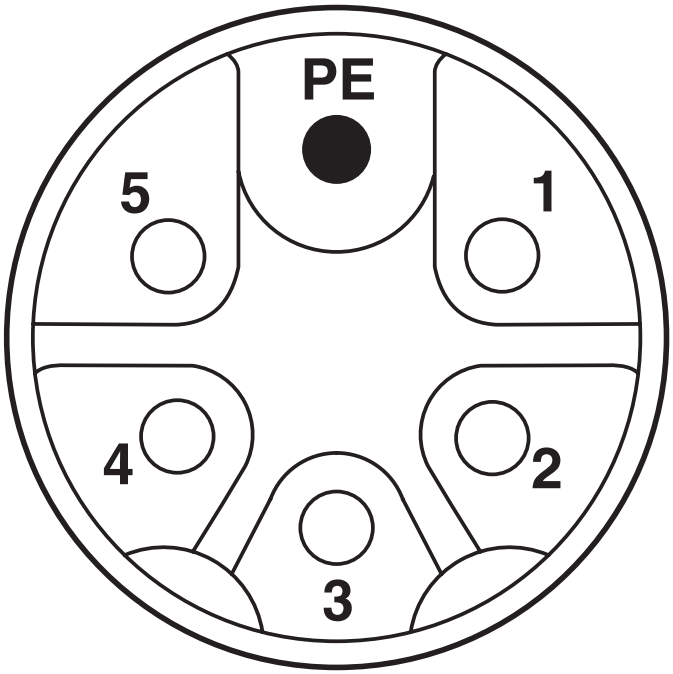
Drawings

Dimensional drawing



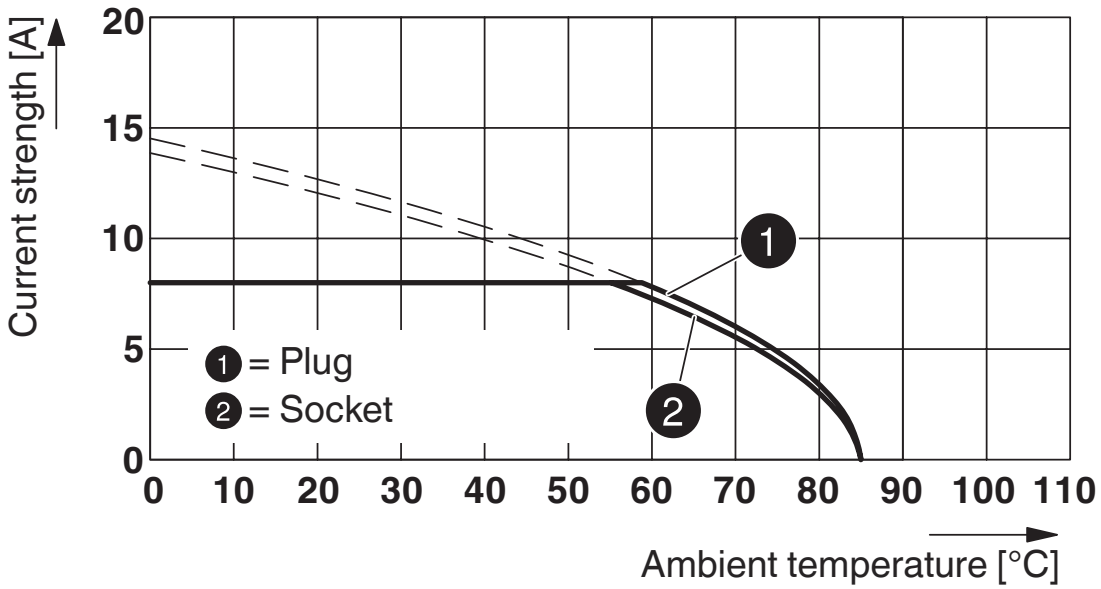
M12 x 1 socket, straight

Schematic diagram



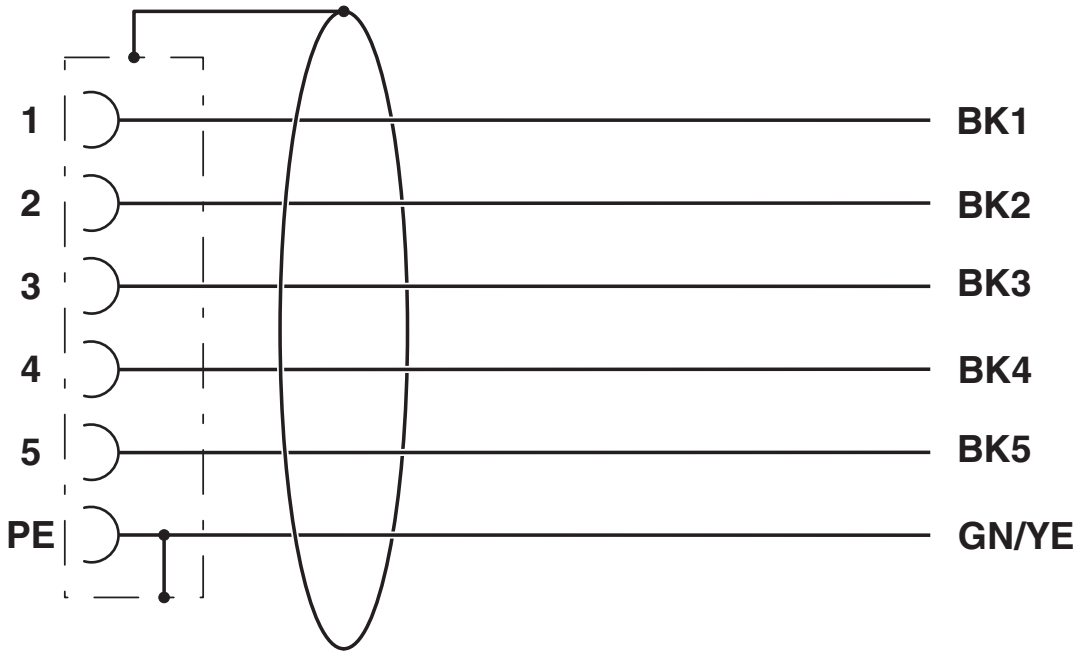
Pin assignment of M12 socket, 6-pos., M-coded, socket side view

Diagram



Derating diagram

Circuit diagram



Contact assignment of the M12 socket

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1414923

UL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	10 A	- 16	- 16

cUL Listed
Approval ID: E468743

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	600 V	10 A	- 16	-

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

Classifications

ECLASS

ECLASS-13.0	27060327
ECLASS-15.0	27060327

ETIM

ETIM 10.0	EC001855

UNSPSC

UNSPSC 21.0	26121600

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.)	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol(CAS: 119-47-1)
SCIP	b80d2186-7ee1-4d9d-a735-4e625f93f078

EF3.1 Climate Change

CO2e kg	20.838 kg CO2e

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