

SAC-4P-M12MST/ 1,0-110/M12FST - Power cable



1089988

<https://www.phoenixcontact.com/us/products/1089988>

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Power cable, 4-position, PVC, black-gray RAL 7021, Plug straight M12, coding: T, on Socket straight M12, coding: T, cable length: 1 m, For direct current up to 12 A/63 V

Your advantages

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

Commercial Data

Item number	1089988
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	B06
Product Key	BF1CCQ
Catalog Page	Page 291 (C-2-2019)
GTIN	4055626898643
Weight per Piece (including packing)	145.2 g
Weight per Piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	PL

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Technical Data

Product properties

Product type	Power cable
Number of positions	4
Application	Power supply
No. of cable outlets	1
Shielded	no
Coding	T

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

Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	63 V DC
Nominal current I_N	12 A
Protective circuit	unwired

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 100
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Connector

Connection 1

Coding type	T (Power)
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Connection 2

Coding type	T (Power)
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Cable/line

Cable length	1 m
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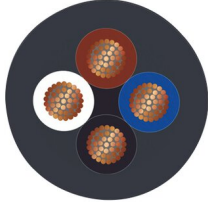
PVC black [110]

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Dimensional drawing	
UL AWM Style	20233 / 10493 (80°C/300 V)
Number of positions	4
Shielded	no
Cable type	PVC black [110]
Conductor cross section	4x 1.5 mm ²
Wire diameter incl. insulation	2.35 mm ±0.05 mm
External cable diameter	7.55 mm ±0.25 mm
Outer sheath, material	PVC
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, white, blue, black
Thickness, insulation	≥ 0.25 mm
Thickness, outer sheath	approx. 1.3 mm
Max. conductor resistance	≤ 13 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
Max. bending cycles	2000000
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
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

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Standards/specifications

IEC 61076-2-111

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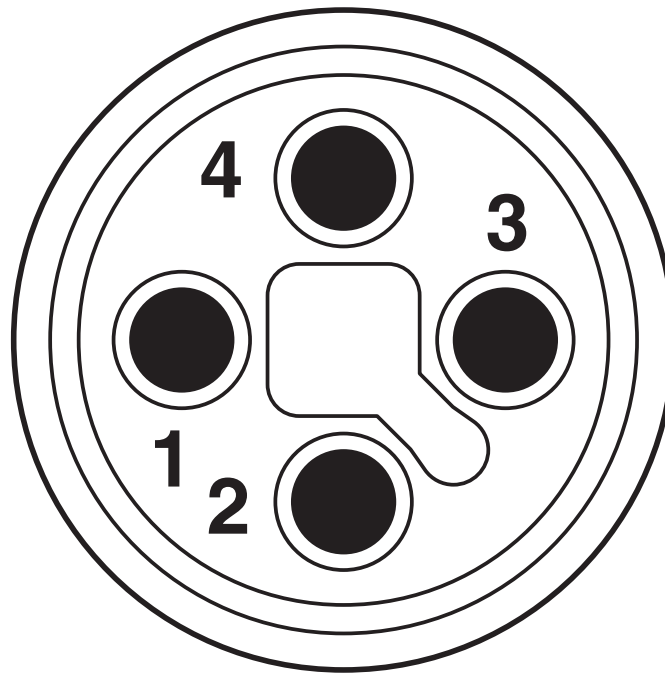


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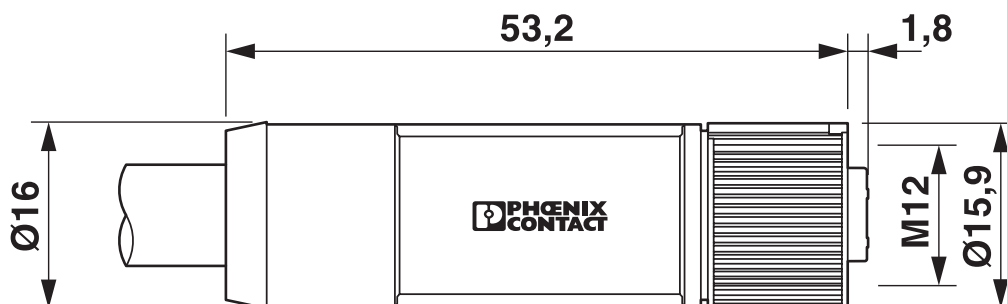
Drawings

Schematic diagram



Pin assignment for M12 plug, 4-pos., T-coded, view of plug side

Dimensional drawing



M12 x 1 socket, straight

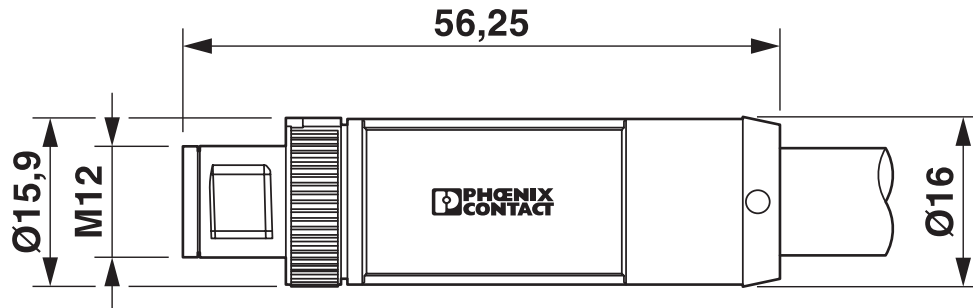
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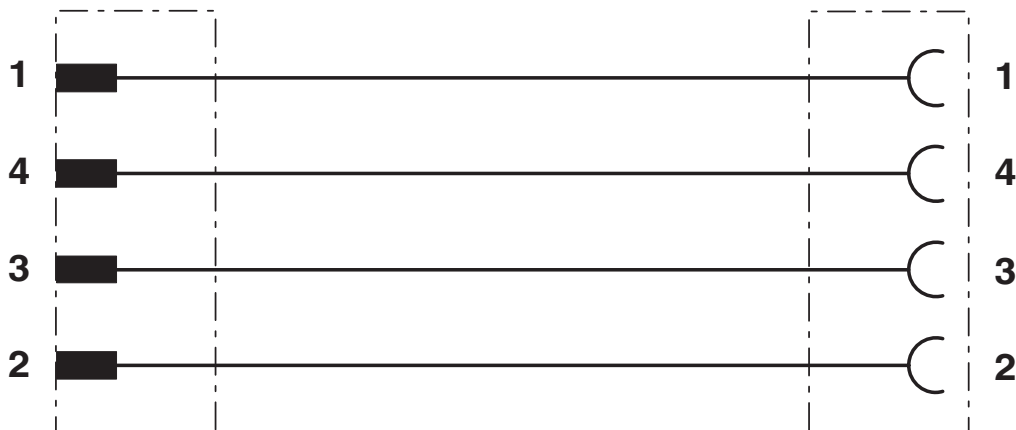
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Dimensional drawing



Plug, M12 x 1, straight

Circuit diagram



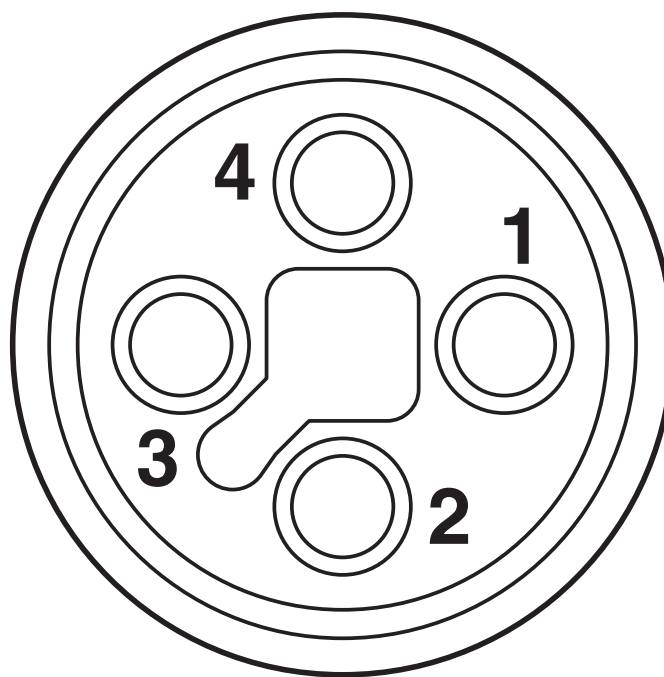
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Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view

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Approvals



EAC

Approval ID: RU C-DE.BL08.B.00286



UL Listed

Approval ID: E468743

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	63 V	12 A	-	- 16



cUL Listed

Approval ID: E468743

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	63 V	12 A	- 16	-



EAC

Approval ID: RU D-DE.HB35.B.00385

cULus Listed

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Classifications

ECLASS

ECLASS-9.0	27060311
ECLASS-10.0.1	27060311
ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 8.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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Environmental Product Compliance

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

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Accessories

SAC BIT M12-D16 - Tool

1200305

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Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, knurl diameter: 16 mm, for 4 mm hexagonal drive



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