

SAC-5P-M12MS/ 2,0-924 - Bus system cable



1405981

<https://www.phoenixcontact.com/in/products/1405981>

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Bus system cable, CANopen®, DeviceNet™, 5-position, PVC, gray, shielded, Plug straight M12, coding: A, on free cable end, cable length: 2 m, Connector unshielded

Commercial data

Item number	1405981
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	BF1
Product key	AF1IHE
GTIN	4046356800471
Weight per piece (including packing)	137.3 g
Weight per piece (excluding packing)	130.3 g
Customs tariff number	85444290
Country of origin	US

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Technical data

Product properties

Product type	Data cable preassembled
Application	Standard, U.S. cables
Sensor type	CANopen®
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Approvals

National Marine Electronics Association

Certificate	approved
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Interfaces

Bus system	CANopen®/DeviceNet™
Signal type/category	CANopen®
	DeviceNet™

Signaling

Status display	no
Status display present	No

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A
Transmission medium	Copper

Material specifications

Flammability rating according to UL 94	HB
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Connector

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Connection 1

Type	Plug straight M12
Number of positions	5
Coding type	A (Standard)

Connection 2

Type	free cable end
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Cable/line

Cable length	2 m
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CANopen®/DeviceNet™, PVC, gray [924]

Dimensional drawing	
Cable weight	64.51 kg/km
UL AWM Style	2464 (80°C/300 V)
Number of positions	4
Shielded	yes
Cable type	CANopen®/DeviceNet™, PVC, gray [924]
Conductor structure	2xAWG22 (Signal) + 2xAWG22 (Power)
Signal runtime	4.46 ns/m
Conductor structure signal line	19x 0.15 mm
AWG signal line	22
Conductor structure, voltage supply	19x 0.15 mm
AWG power supply	22
Conductor cross section	2x 0.34 mm² (Signal line) 2x 0.34 mm² (Power supply)
Wire diameter incl. insulation	1.27 mm ±0.05 mm (Signal line) 2.24 mm ±0.13 mm (Power supply)
External cable diameter	6.90 mm ±0.13 mm
Outer sheath, material	PVC
External sheath, color	gray
Conductor material	Bare Cu litz wires
Material wire insulation	Foamed PE (Signal line) PVC (Power supply)
Single wire, color	red-black, blue-white
Twisted pairs	2 cores to the pair
Type of pair shielding	Plastic-coated aluminum foil, aluminum side inside

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Overall twist	2 pairs around a drain wire in the center to the core
Insulation resistance	$\geq 59.38 \Omega \cdot m$ (Signal line)
	$\geq 57.41 G\Omega \cdot km$ (Power supply)
Wave impedance	$120 \Omega \pm 12 \Omega$
Working capacitance	nom. $78.74 pF$ (per meter)
Minimum bending radius, flexible installation	$15 \times D$
Smallest bending radius, movable installation	104 mm
Shield attenuation	0.95 dB ($f = 125 kHz$)
	1.64 dB ($f = 500 kHz$)
	2.30 dB ($f = 1 MHz$)
Flame resistance	FT4
Resistance to oil	yes
Other resistance	UV resistant
Special properties	UL standards PLTC and ITC
Ambient temperature (operation)	$-30 ^\circ C \dots 75 ^\circ C$ (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	$-25 ^\circ C \dots 90 ^\circ C$ (Plug / socket)

Approvals

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Certificate	approved
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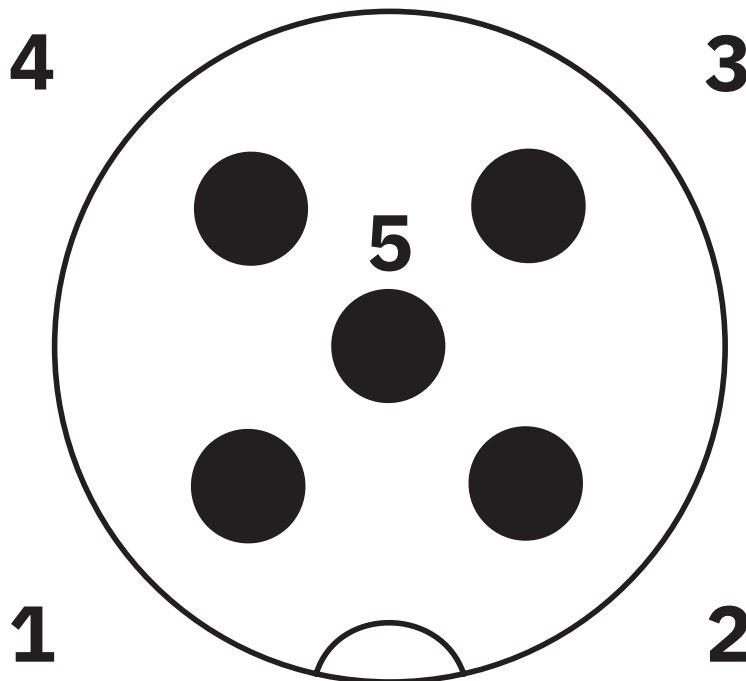
Drawings

Dimensional drawing



Plug, M12 x 1, straight

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

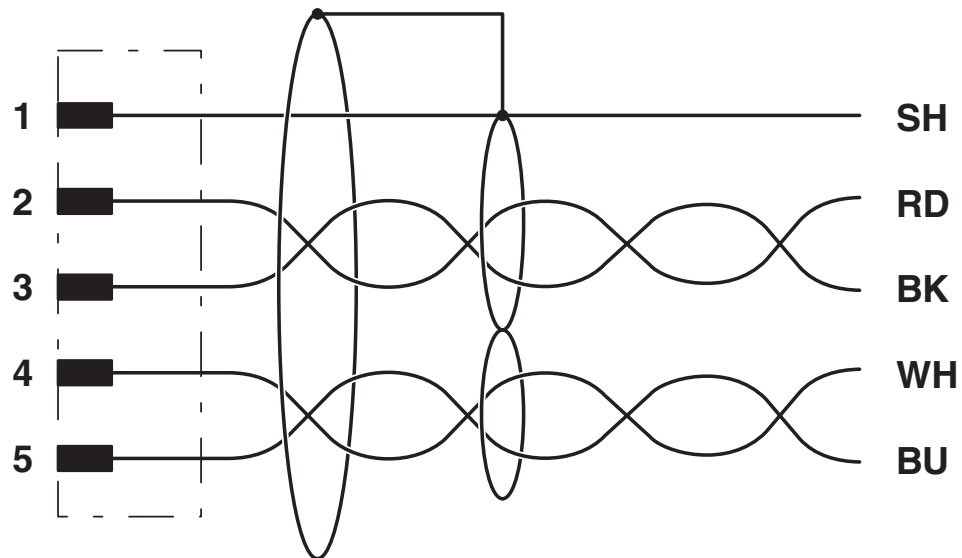
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Circuit diagram



Contact assignment of the M12 plug

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Approvals

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UL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	125 V	4 A	-	-



cUL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	125 V	4 A	-	-

cULus Listed

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Classifications

ECLASS

ECLASS-11.0	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307

ETIM

ETIM 9.0	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-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)(CAS: 123-77-3)
SCIP	90cb57ea-59ff-4f79-b5ae-88f6a20f4a59

EF3.0 Climate Change

CO2e kg	1.921 kg CO2e
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