

Bus system cable - SAC-5P-MS/ 5,0-924 SCO - 1405980

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Bus system cable, CANopen®, DeviceNet™, 5-position, PVC, gray, shielded, Plug straight M12 SPEEDCON, A-coded, on free cable end, Cable length: 5 m



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	1.0 g
Custom tariff number	85444290
Country of origin	United States

Technical data

Dimensions

Length of cable	5 m
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Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
Degree of protection	IP65
	IP67

General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	5
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Signal type/category	CANopen®
	DeviceNet™
Status display	No

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Technical data

General

Overvoltage category	II
Degree of pollution	3
Torque	0.4 Nm (M12 connector)

Material

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

Standards and Regulations

Flammability rating according to UL 94	HB
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Cable

Cable type	CAN Bus/DeviceNet gray
Cable type (abbreviation)	924
UL AWM style	2464 (80°C/300 V)
Cable structure	2xAWG22 (Signal) + 2xAWG22 (Power)
AWG signal line	22
AWG power supply	22
Conductor structure signal line	19x 0.15 mm
Conductor structure, voltage supply	19x 0.15 mm
Core diameter including insulation	1.27 mm ±0.05 mm (Signal line)
	2.24 mm ±0.13 mm (Power supply)
Wire colors	Red-black, blue-white
Twisted pairs	2 cores to the pair
Type of pair shielding	Plastic-coated aluminum foil, aluminum side inside
Overall twist	2 pairs around a drain wire in the center to the core
Shielding	Plastic-coated aluminum foil with a filler litz wire, aluminum side outside
External sheath, color	gray
External cable diameter D	6.9 mm ±0.13 mm
Minimum bending radius, flexible installation	15 x D
Cable weight	64.51 kg/km
Outer sheath, material	PVC
Material conductor insulation	Foamed PE (Signal line)
	PVC (Power supply)
Conductor material	Bare Cu litz wires

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Technical data

Cable

Insulation resistance	$\geq 59.38 \Omega \cdot \text{m}$ (Signal line)
	$\geq 57.41 \text{ G}\Omega \cdot \text{km}$ (Power supply)
Working capacitance	nom. 78.74 pF (per meter)
Wave impedance	$120 \Omega \pm 12 \Omega$
Signal runtime	4.46 ns/m
Shield attenuation	0.95 dB (f = 125 kHz)
	1.64 dB (f = 500 kHz)
	2.3 dB (f = 1 MHz)
Special properties	UL standards PLTC and ITC
Resistance to oil	Yes
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 75 °C (cable, fixed installation)

Classifications

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

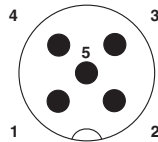
UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	31251501
UNSPSC 13.2	26121616

Drawings

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Schematic diagram



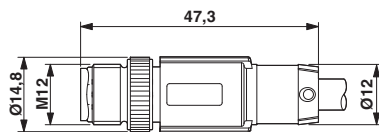
Pin assignment M12 male connector, 5-pos., A-coded, male side

Cable cross section



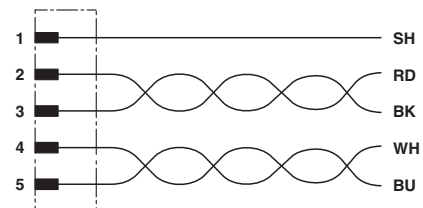
CAN Bus/DeviceNet gray [924]

Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram



Contact assignment of the M12 plug

Mouser Electronics

Authorized Distributor

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