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Bus system cable - SAC-5P-MS/ 0,3-921/FS CAN SCO - 1413169

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As in the figure, but with a black cable

Bus system cable, CANopen®, 5-position, PUR, black RAL 9005, Plug straight M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 0.3 m, Connector, unshielded

Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	4 046356 989855

Technical data

Dimensions

Length of cable	0.3 m

Ambient conditions

Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	5
Coding	A - standard
Signal type/category	CANopen®
Status display	No
Overvoltage category	II
Degree of pollution	3

Material

Flammability rating according to UL 94	HB
Contact material	CuSn

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Technical data

Material

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
Sealing material	NBR

Standards and Regulations

Flammability rating according to UL 94	HB

Cable

Cable type	CAN bus/DeviceNet™, black
Cable type (abbreviation)	921
UL AWM style	21198 (80°C/300 V)
Conductor cross section	2x 0.25 mm² (Signal line)
	2x 0.34 mm² (Power supply)
	1x 0.34 mm² (Drain wire)
AWG signal line	24
AWG power supply	22
Conductor structure signal line	19x 0.13 mm
Conductor structure, voltage supply	19x 0.15 mm
Core diameter including insulation	1.95 mm ±0.05 mm (Signal line)
	1.4 mm ±0.05 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 outside
Overall twist	2 pairs and one drain wire to the core
Shielding	Tinned copper braided shield
Optical shield covering	80 %
External sheath, color	black RAL 9005
External cable diameter D	6.7 mm ±0,3 mm
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	2000000
Minimum bending radius, drag chain applications	10 x D
Traversing path	4.5 m
Traversing rate	3 m/s
Acceleration	3 m/s²
Outer sheath, material	PUR
Material conductor insulation	Foamed PE (Signal line)
	PE (Power supply)
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 5 GΩ*km (Signal line)
	≥ 5 GΩ*km (Power supply)

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Technical data

Cable

Conductor resistance	≤ 181.8 Ω/km (Signal line)
	≤ 114.8 Ω/km (Power supply)
Working capacitance	40 nF (per kilometer)
Wave impedance	120 Ω ±12 Ω (f = 1 MHz)
Shield attenuation	≥ 9.5 dB/km (f = 125 kHz)
	≥ 16.4 dB/km (f = 500 kHz)
	≥ 22.9 dB/km (f = 1 MHz)
Nominal voltage, cable	≤ 300 V (Peak value, not for high-power applications)
Test voltage Core/Core	2000 V (50 Hz, 1 min.)
Test voltage Core/Shield	2000 V (50 Hz, 1 min.)
Flame resistance	UL 1581, Sec. 1060 (FT-1)
	IEC 60332-1
Halogen-free	yes
Other resistance	Low adhesion
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 70 °C (cable, flexible installation)

Classifications

eCl@ss

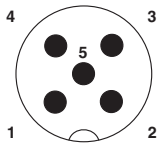
eCl@ss 5.1	27061801
eCl@ss 6.0	27279218
eCl@ss 8.0	27279218

ETIM

ETIM 4.0	EC000830
ETIM 5.0	EC001855

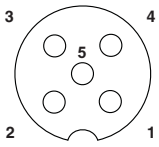
Drawings

Schematic diagram



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

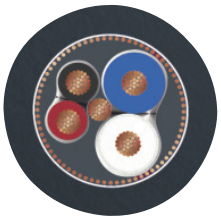
Schematic diagram



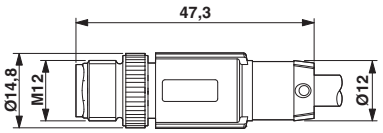
Pin assignment M12 socket, 5-pos., A-coded, socket side view

Bus system cable - SAC-5P-MS/ 0,3-921/FS CAN SCO - 1413169

Cable cross section



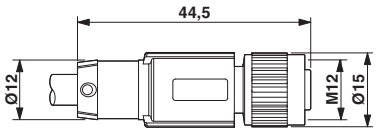
Dimensional drawing



CAN Bus/DeviceNet [921]

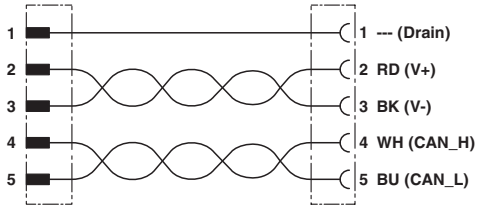
M12 x 1 plug, straight

Dimensional drawing



M12 x 1 socket, straight

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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