

Bus system cable - SAC-5P-MS/ 0,5-924/FR SCO - 1405991

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Bus system cable, CANopen[®], DeviceNet[™], 5-position, PVC, gray, shielded, Plug straight M12 SPEEDCON, A-coded, on Socket angled M12 SPEEDCON, A-coded, Cable length: 0.5 m



Key Commercial Data

Packing unit	1 STK
Minimum order quantity	50 STK
GTIN	 4 046356 800372

Technical data

Dimensions

Length of cable	0.5 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
Overvoltage category	II
Degree of pollution	3
Torque	0.4 Nm (M12 connector)

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Technical data

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
Sealing material	NBR

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
Insulation resistance	≥ 59.38 Ω*m (Signal line)
	≥ 57.41 GΩ*km (Power supply)
Working capacitance	nom. 78.74 pF (per meter)
Wave impedance	120 Ω ±12 Ω
Signal runtime	4.46 ns/m
Shield attenuation	0.95 dB (f = 125 kHz)
	1.64 dB (f = 500 kHz)

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Technical data

Cable

	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	27060307
eCl@ss 4.1	27060307
eCl@ss 5.0	27061801
eCl@ss 5.1	27060307
eCl@ss 6.0	27279218
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218

ETIM

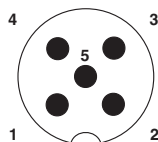
ETIM 3.0	EC000830
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

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

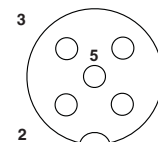
Drawings

Schematic diagram



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

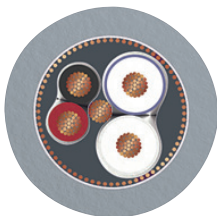
Schematic diagram



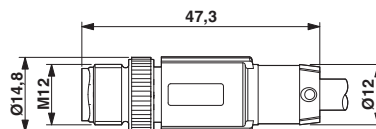
Pin assignment M12 socket, 5-pos., A-coded, socket side view

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Cable cross section



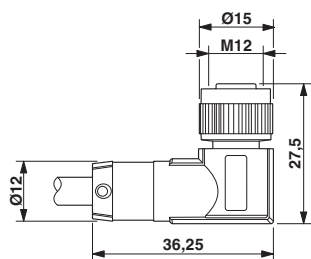
Dimensional drawing



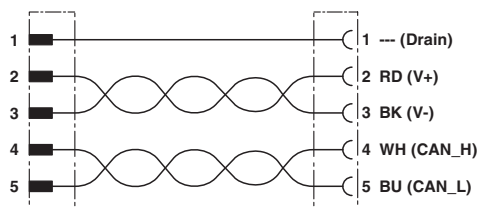
CAN Bus/DeviceNet gray [924]

Plug, M12 x 1, straight, shielded

Dimensional drawing



Circuit diagram



Contact assignment of the M12 plug and the M12 socket

M12 x 1 socket, angled, shielded

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