

## Bus system cable - SAC-5P- 5,0-920/M 8FS - 1575783

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Bus system cable, CANopen<sup>®</sup>, DeviceNet<sup>™</sup>, 5-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket angled M8, Cable length: 5 m, Connector unshielded



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 431477
GTIN	4046356431477
Custom tariff number	85444290
Country of origin	Poland

### Technical data

#### Dimensions

Length of cable	5 m
Stripping length of the free conductor end	50 mm

#### 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	30 V
Number of positions	5
Insulation resistance	≥ 100 MΩ

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#### General

Coding	A - standard
Signal type/category	CANopen <sup>®</sup>
	DeviceNet <sup>™</sup>
Status display	No
Overvoltage category	II
Degree of pollution	3
Torque	0.2 Nm (M8 connectors)

#### 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

#### Pin assignment

Position = wire color (signal) = position (optional)	1 (Socket) = SR (shield)
	2 (Socket) = RD (V+)
	4 (Socket) = BK (V-)
	3 (Socket) = WH (CAN_H)
	5 (Socket) = BU (CAN_L)

#### Standards and Regulations

Flammability rating according to UL 94	HB
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#### Cable

Cable type	CAN Bus/DeviceNet
Cable type (abbreviation)	920
UL AWM style	21198 (80°C/300 V)
Cable structure	2xAWG24/19+2xAWG22/19
Conductor cross section	2x 0.25 mm <sup>2</sup> (Data cable)
	2x 0.34 mm <sup>2</sup> (Power supply)
	1x 0.34 mm <sup>2</sup> (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 (Data cable)

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#### Cable

	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 around a drain wire in the center to the core
Shielding	Tinned copper braided shield
Optical shield covering	80 %
External sheath, color	violet RAL 4001
External cable diameter D	6.7 mm ±0,3 mm
Minimum bending radius, flexible installation	10 x D
Number of bending cycles	5000000
Bending radius	70 mm
Traversing path	4.5 m
Traversing rate	3 m/s
Acceleration	3 m/s <sup>2</sup>
Cable weight	90 kg/km
Outer sheath, material	PUR
Material conductor insulation	Foamed PE (Data cable)
	PE (Power supply)
Conductor material	Tin-plated Cu litz wires
Insulation resistance	≥ 5 GΩ*km (Data cable)
	≥ 5 GΩ*km (Power supply)
Conductor resistance	≤ 90.9 Ω/km (Data cable)
	≤ 57.4 Ω/km (Power supply)
Cable capacity	nom. 40 pF/m (Data cable)
Wave impedance	120 Ω ±10 % (with 1 MHz)
Wave attenuation	≥ 0.0229 dB/m (with 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
	in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)
Halogen-free	in accordance with DIN VDE 0472 part 815
	According to IEC 60754-1
Other resistance	Low adhesion
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)

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### Cable

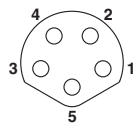
	-20 °C ... 80 °C (cable, flexible installation)
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### Environmental Product Compliance

REACH SVHC	DOT E 15571-58-1
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## Drawings

Schematic diagram



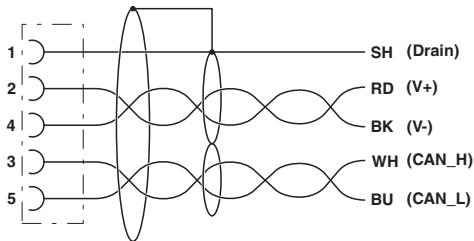
Pin assignment M8 plug, 5-pos., B-coded, view plug side

Cable cross section

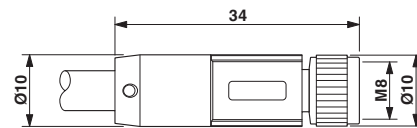


CAN Bus/DeviceNet [920]

Circuit diagram



Dimensional drawing



## Approvals

### Approvals

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Approvals

EAC

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Ex Approvals

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### Approval details

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### Approvals

EAC



EAC-Zulassung