PHŒNIX CONTACT

Bus system cable - SAC-5P-15,0-920/M 8FS - 1575806

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Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket angled M8, Cable length: 15 m, Connector unshielded

RoHS

DeviceNet CANopen

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 431491
GTIN	4046356431491
Custom tariff number	85444290
Country of origin	Poland

Technical data

Dimensions

Length of cable	15 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	$\geq$ 100 MΩ

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Technical data

General

Coding	A - standard
Signal type/category	CANopen®
	DeviceNet™
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

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 mm² (Data cable)
	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 (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/s²
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)

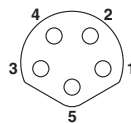# Bus system cable - SAC-5P-15,0-920/M 8FS - 1575806

Technical data

Cable

	-20 °C ... 80 °C (cable, flexible installation)

Environmental Product Compliance

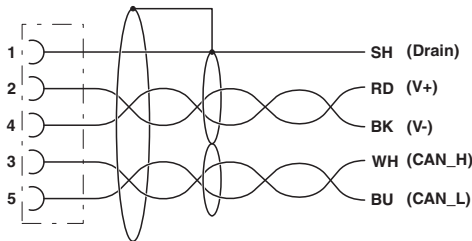| REACh SVHC	DOTE 15571-58-1

Drawings

Schematic diagram

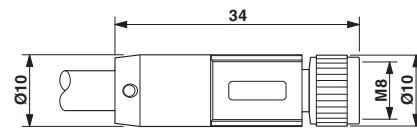Pin assignment M8 plug, 5-pos., B-coded, view plug side

Cable cross section

CAN Bus/DeviceNet [920]

Circuit diagram

1 — SH (Drain)
2 — RD (V+)
4 — BK (V-)
3 — WH (CAN_H)
5 — BU (CAN_L)

Dimensional drawing

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Ø10 M8 Ø10

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

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Approvals

EAC	EAC	EAC-Zulassung