

SAC-5P-M 8MS/ 5,0-920/M 8FS

Order No.: 1575864




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Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, Violet, RAL 4001, shielded, Plug straight M8, on Socket straight M8, Cable length: 5 m, Connector, unshielded

DeviceNet[™] CANopen

Commercial data

EAN	 4 046356 431545
Note	Made-to-order
sales group	D133
Pack	1 Pcs.
Customs tariff	85444290
Gross weight in pieces	0.316 KG
Net weight per piece	0.316 KG
Catalog page information	Page 344 (C-4-2013)

Product notes

WEEE/RoHS-compliant since:
06/25/2008



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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	30 V
Number of positions	5
Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Coding	A - standard
Signal type/category	CANopen® DeviceNet™
Status display	No
Surge voltage category	II
Pollution degree	3
Torque	0.2 Nm (M8 connectors)

Material

Inflammability class 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

Pin assignment

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

Cable type	CAN Bus/DeviceNet
Cable type (abbreviation)	920
UL AWM style	21198 (80°C/300 V)
Conductor cross section	2x 0.25 mm ² (signal line) 2x 0.34 mm ² (Power supply) 1x 0.34 mm ² (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	Aluminum-lined polyester foil
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
Smallest bending radius, fixed installation	67 mm
Smallest bending radius, movable installation	67 mm
Number of bending cycles	5000000
Bending radius	70 mm
Traversing path	4.5 m
Traversing rate	3 m/s
Acceleration	3 m/s ²
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)
Working capacitance	nom. 40 nF (signal line)
Wave impedance	120 Ω ±12 Ω (f = 1 MHz)
Nominal voltage, cable	max. 300 V
Test voltage, cable	2000 V (50 Hz, 1 min.)
Flame resistance	UL 1581, Sec. 1060 (FT-1)
	IEC 60332-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-20 °C ... 70 °C (cable, flexible installation)

Certificates / Approvals



Certification

GOST

Certifications applied for:

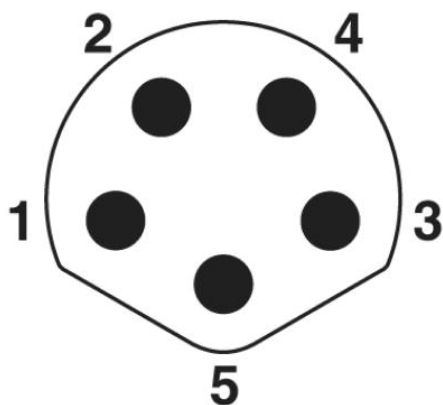
Certification Ex:

Drawings

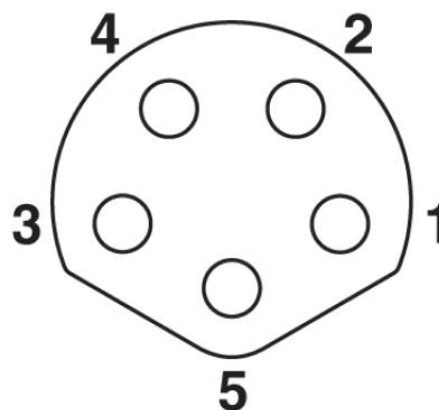
Dimensioned drawing



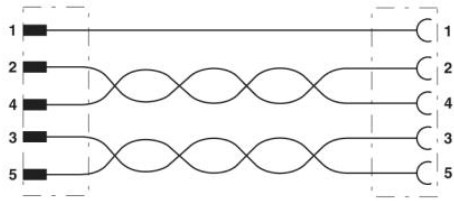
Schematic diagram



Pin assignment, pin side, M8, 5-pos., B-coded



Pin assignment, socket side, M8, 5-pos., B-coded



CAN Bus/DeviceNet [920]

Address

PHOENIX CONTACT Deutschland GmbH
Flachmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 12000
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>



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