

Bus system cable - SAC-5P-M 8MS/ 0,3-920/M 8FS - 1575822

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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: 0.3 m, Plug-in connector, unshielded



Key commercial data

Packing unit	1 PCE
GTIN	 4 046356 431507
Custom tariff number	85444290
Country of origin	GERMANY

Technical data

General data

Rated current at 40°C	4 A
Rated voltage	30 V
Number of positions	5
Volume resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Length of cable	0.3 m
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

General characteristics

Coding	A - standard
Surge voltage category	II
Pollution degree	3
Degree of protection	IP65
Degree of protection	IP67
Contact material	CuSn

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General characteristics

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
Status display	No

Conductor data

Cable type	CAN Bus/DeviceNet
Cable type (abbreviation)	920
Conductor cross section	2x 0.25 mm ² (signal line)
Conductor cross section	2x 0.34 mm ² (Power supply)
Conductor cross section	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)
Core diameter including insulation	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	2000000
Bending radius	67 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)
Material conductor insulation	PE (Power supply)
Conductor material	Tin-plated Cu litz wires

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Conductor data

Insulation resistance	$\geq 5 \text{ G}\Omega \cdot \text{km}$ (signal line)
Insulation resistance	$\geq 5 \text{ G}\Omega \cdot \text{km}$ (Power supply)
Working capacitance	nom. 40 nF (signal line)
Wave impedance	$120 \Omega \pm 12 \Omega$ (With 1 MHz)
Nominal voltage, conductor	max. 300 V
Test voltage, conductor	2000 V (50 Hz, 1 min.)
Flame resistance	UL 1581, Sec. 1060 (FT-1)
Flame resistance	IEC 60332-1
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation)	-20 °C ... 70 °C (cable, flexible installation)

Classifications

ETIM

ETIM 3.0	EC001855
ETIM 4.0	EC001855
ETIM 5.0	EC001855

UNSPSC

UNSPSC 11	31251501
UNSPSC 12.01	31251501
UNSPSC 13.2	31251501
UNSPSC 6.01	31251501
UNSPSC 7.0901	31251501

eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27279218
eCl@ss 7.0	27279218

Approvals

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Approvals

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GOST

Ex Approvals

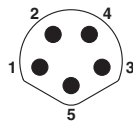
Approvals submitted

Approval details

GOST 

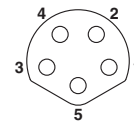
Drawings

Schematic diagram



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

Schematic diagram



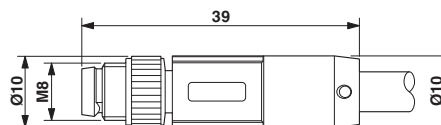
Pin assignment, socket side, M8, 5-pos., B-coded

Cable cross section



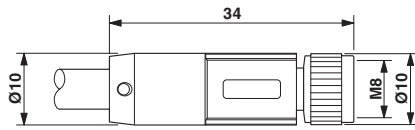
CAN Bus/DeviceNet [920]

Dimensioned drawing



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Dimensioned drawing



Schematic diagram

