

## Bus system cable - SAC-5P-MINMR/ 1,0-928/MINFR DN - 1417919

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Bus system cable, DeviceNet™, 5-position, PVC, gray RAL 7001, shielded, Plug angled 7/8"-16UNF, on Socket angled 7/8"-16UNF, Cable length: 1 m, Connector unshielded



### Key Commercial Data

Packing unit	1 STK
Weight per Piece (excluding packing)	300.000 g
Custom tariff number	85444290
Country of origin	Germany

### Technical data

#### Dimensions

Length of cable	1 m
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#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 80 °C (Plug / socket)
Degree of protection	IP65
	IP67

#### General

Rated current at 40°C	5.2 A
Rated voltage	30 V
Number of positions	5
Coding	A - standard
Signal type/category	DeviceNet™
Status display	No
Overvoltage category	II
Degree of pollution	3

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### Technical data

#### General

Torque	0.8 Nm (7/8" connectors)
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#### Material

Flammability rating according to UL 94	HB
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 66
Material of grip body	TPU
Material, knurls	Stainless steel
Sealing material	TPU

#### Pin assignment

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

#### Standards and Regulations

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

Cable type	DeviceNet trunk cable
Cable type (abbreviation)	928
UL AWM style	20201 (60°C / 600 V)
Cable structure	2xAWG18 (Signal) + 2xAWG15 (Power)
Conductor cross section	2x 1 mm <sup>2</sup> (Data pair)
	2x 1.7 mm <sup>2</sup> (Power supply)
	1x 1 mm <sup>2</sup> (Drain wire)
AWG signal line	18
AWG power supply	15
Conductor structure signal line	19x 0.26 mm
Conductor structure, voltage supply	19x 0.34 mm
Core diameter including insulation	approx. 3.8 mm (Data pair)
	approx. 2.7 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 and one drain wire to the core

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## Technical data

### Cable

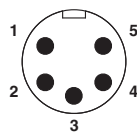
Shielding	Tinned copper braided shield
Optical shield covering	70 %
External sheath, color	gray RAL 7001
External cable diameter D	12.2 mm ±0,3 mm
Minimum bending radius, fixed installation	5 x D
Outer sheath, material	PVC
Material conductor insulation	Foamed PE (Data pair)
	PVC (Power supply)
Conductor material	Tin-plated Cu litz wires
Insulation resistance	> 5 GΩ*km
Working capacitance	nom. 40 nF
Wave impedance	120 Ω ±12 Ω (f = 1 MHz)
Nominal voltage, cable	< 600 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	According to UL 1685 (CSA FT 4)
	According to UL 1581 (Cable Flame)
	According to IEC 60332-3-24
Resistance to oil	UL 1581
Other resistance	UV resistant According to UL 1581, Section 1200
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)

### Environmental Product Compliance

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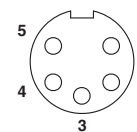
## Drawings

Schematic diagram



Plug pin assignment for 7/8"-16UNF plug, 5-pos.

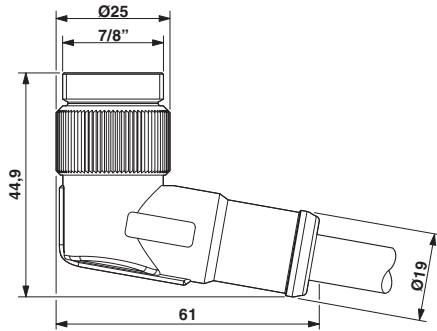
Schematic diagram



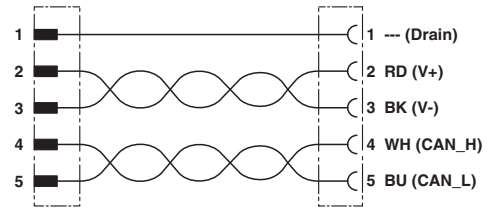
Pin assignment, socket, 7/8"-16UNF, 5-pos., view of female side

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Dimensional drawing



Circuit diagram



Contact assignment of the 7/8" connector and the 7/8" socket

7/8"-16UNF plug, angled

## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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## Approval details

EAC EAC-Zulassung
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