

SAC-5P-MINMS/ 2,0-928 DN - Bus system cable



1417553

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Bus system cable, DeviceNet™, 5-position, PVC, gray RAL 7001, shielded, Plug straight 7/8"-16UNF, coding: A, on free cable end, cable length: 2 m, Connector unshielded

Commercial data

Item number	1417553
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF14
Product key	BF1FDD
Catalog page	Page 419 (C-4-2015)
GTIN	4046356539876
Weight per piece (including packing)	472 g
Weight per piece (excluding packing)	472 g
Customs tariff number	85444290
Country of origin	DE

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Technical data

Product properties

Product type	Data cable preassembled
Application	Standard
Sensor type	DeviceNet™
Number of positions	5
No. of cable outlets	1
Shielded	yes
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Interfaces

Bus system	DeviceNet™
Signal type/category	DeviceNet™

Signaling

Status display	no
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Electrical properties

Nominal voltage U_N	30 V
Nominal current I_N	5.2 A
Transmission medium	Copper

Material specifications

Flammability rating according to UL 94	HB
Seal material	TPU
Material of grip body	TPU
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material for screw connection	Stainless steel

Connection data

Pin assignment

Contact Color (signal designation) Contact (optional)	1 (Plug) SR (shield)
	2 (Plug) RD (V+)
	3 (Plug) BK (V-)
	4 (Plug) WH (CAN_H)
	5 (Plug) BU (CAN_L)

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Connector

Connection 1

Type	Plug straight 7/8"-16UNF
Number of positions	5
Coding type	A (Standard)

Connection 2

Type	free cable end
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Cable/line

Cable length	2 m
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DeviceNet trunk cable [928]

UL AWM Style	20201 (60 °C / 600 V)
Number of positions	4
Shielded	yes
Cable type	DeviceNet trunk cable [928]
Conductor structure	2xAWG18 (Signal) + 2xAWG15 (Power)
Conductor structure signal line	19x 0.26 mm
AWG signal line	18
Conductor cross section	2x 1 mm ² (Data pair) 2x 1.7 mm ² (Power supply) 1x 1 mm ² (Drain wire)
Wire diameter incl. insulation	approx. 3.8 mm (Data pair) approx. 2.7 mm (Power supply)
External cable diameter	12.20 mm ±0.3 mm
Outer sheath, material	PVC
External sheath, color	gray RAL 7001
Conductor material	Tin-plated Cu litz wires
Material wire insulation	Foamed PE (Data pair) PVC (Power supply)
Single wire, color	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
Optical shield covering	70 %
Insulation resistance	> 5 GΩ*km
Wave impedance	120 Ω ±12 Ω (f = 1 MHz)
Working capacitance	nom. 40 nF
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	2000.00 V (50 Hz, 1 min.)
Minimum bending radius, fixed installation	5 x D
Smallest bending radius, fixed installation	61 mm

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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 and real-life conditions

Ambient conditions

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

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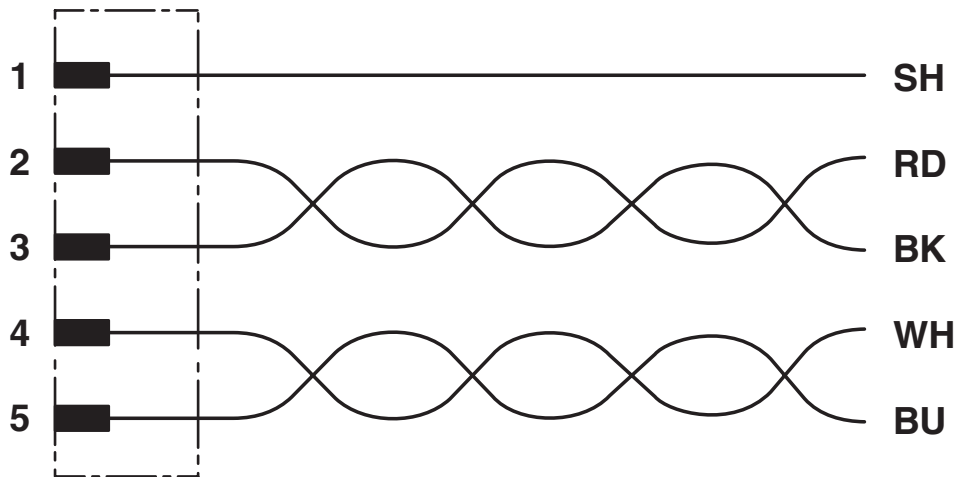


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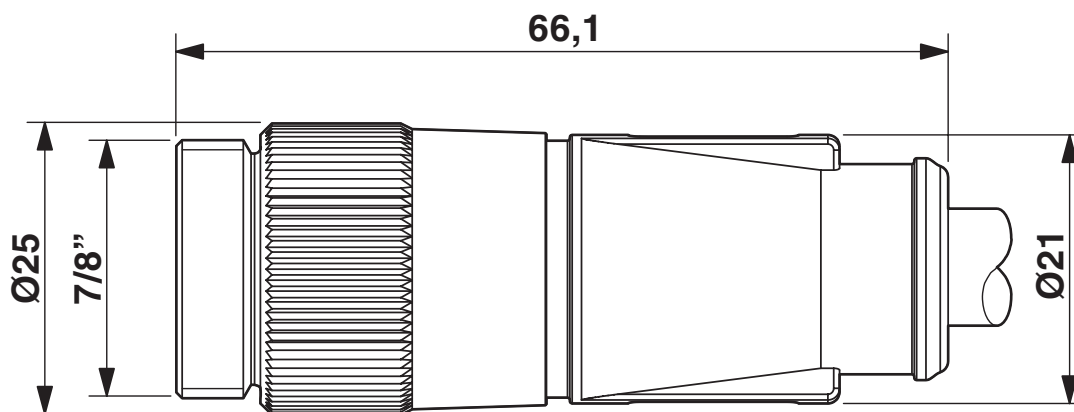
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Drawings

Circuit diagram



Dimensional drawing



7/8"-16UNF plug, straight

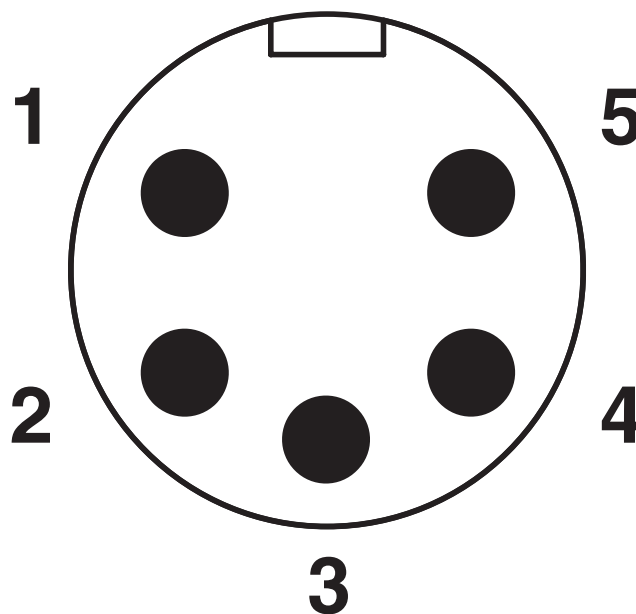
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Schematic diagram



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

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Classifications

ECLASS

ECLASS-11.0	27060307
ECLASS-13.0	27060307

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com