

Bus system cable - SAC-5P-MINMS/10,0-928/MINFS DN - 1417702

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Bus system cable, DeviceNet™, 5-position, PVC, gray RAL 7001, Plug straight 7/8"-16UNF, on Socket straight 7/8"-16UNF, cable length: 10 m, Connector unshielded



DeviceNet

Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 540025
GTIN	4046356540025

Technical data

Dimensions

Length of cable	10 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
Torque	0.8 Nm (7/8" connectors)

Material

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Technical data

Material

Flammability rating according to UL 94	HB
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA 6.6
Material of grip body	TPU
Material, knurls	Stainless steel
Sealing material	TPU

Pin assignment

Contact Color (signal designation) Contact (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 ² (Data pair)
	2x 1.7 mm ² (Power supply)
	1x 1 mm ² (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
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

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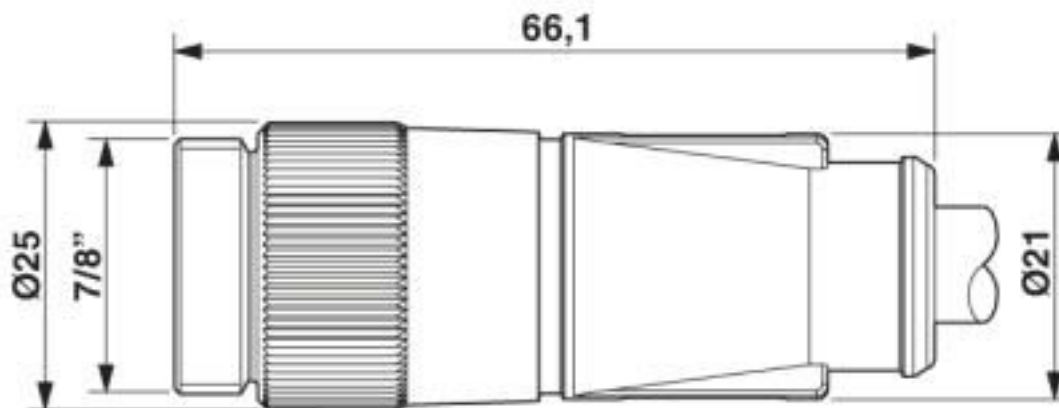
Technical data

Cable

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)

Drawings

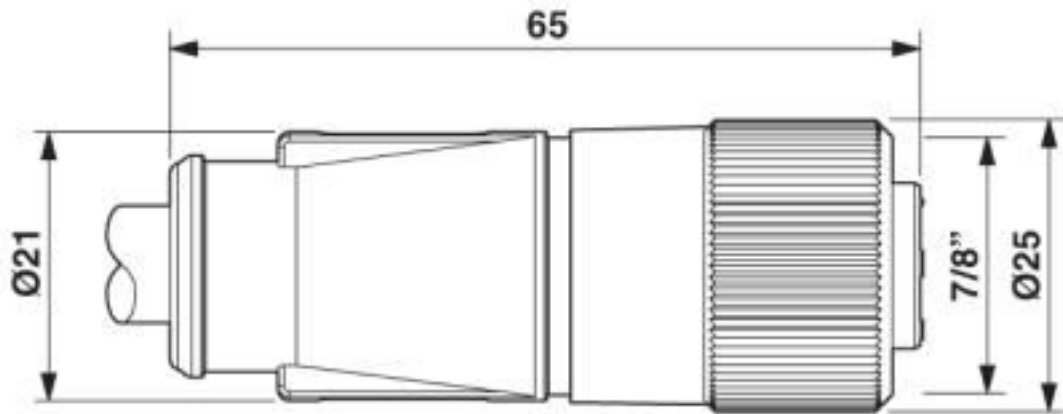
Dimensional drawing



7/8"-16UNF plug, straight

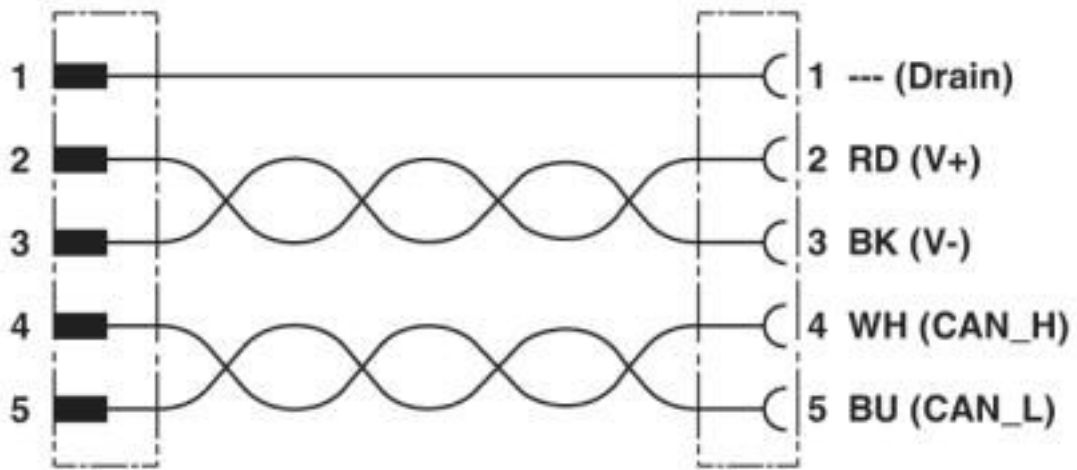
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Dimensional drawing



7/8"-16UNF socket, straight

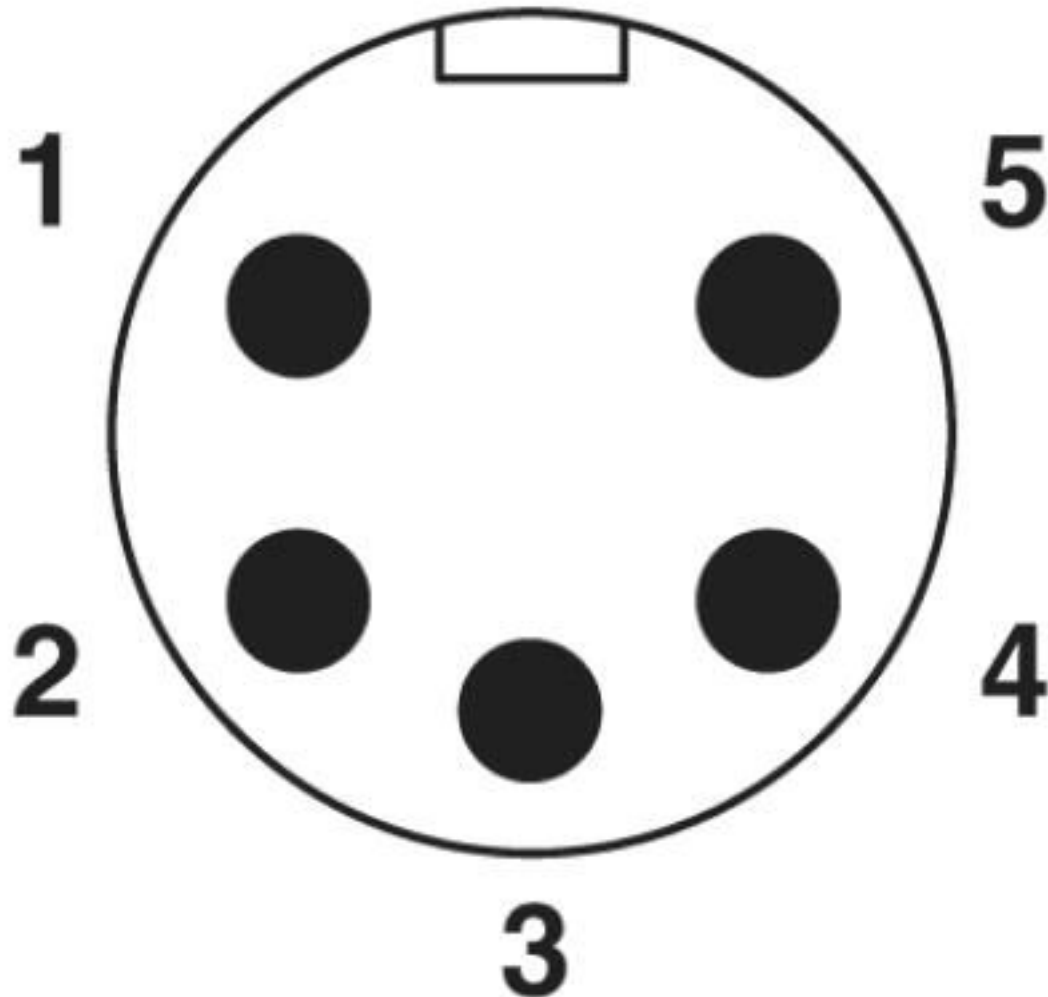
Circuit diagram



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

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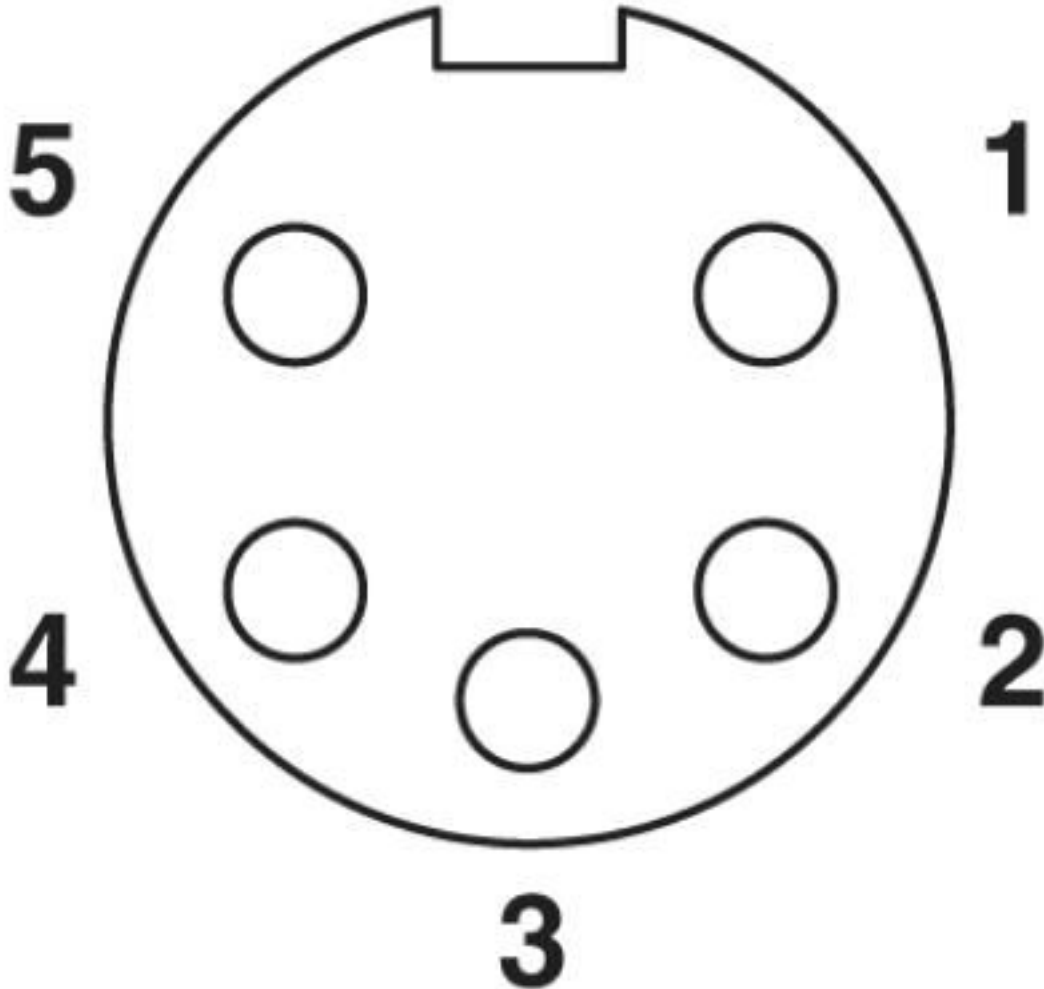
Schematic diagram



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

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Schematic diagram



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

Classifications

eCl@ss

eCl@ss 4.0	27060307
eCl@ss 4.1	27060307
eCl@ss 5.0	27061801
eCl@ss 5.1	27060300
eCl@ss 6.0	27279200
eCl@ss 7.0	27279218
eCl@ss 8.0	27279218
eCl@ss 9.0	27060311

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Classifications

ETIM

ETIM 2.0	EC000830
ETIM 3.0	EC000830
ETIM 4.0	EC001855
ETIM 5.0	EC001855
ETIM 6.0	EC001855

UNSPSC

UNSPSC 6.01	26121616
UNSPSC 7.0901	26121616
UNSPSC 11	26121604
UNSPSC 12.01	26121616
UNSPSC 13.2	31251501
UNSPSC 19.0	31251501

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