

Bus system cable - SAC-5P-MINMS/ 1,0-928/MINFS DN - 1417676

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



DeviceNet

Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 539999 |
| GTIN | 4046356539999 |

Technical data

Dimensions

| | |
|-----------------|-----|
| Length of cable | 1 m |
|-----------------|-----|

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 |
|--|----|

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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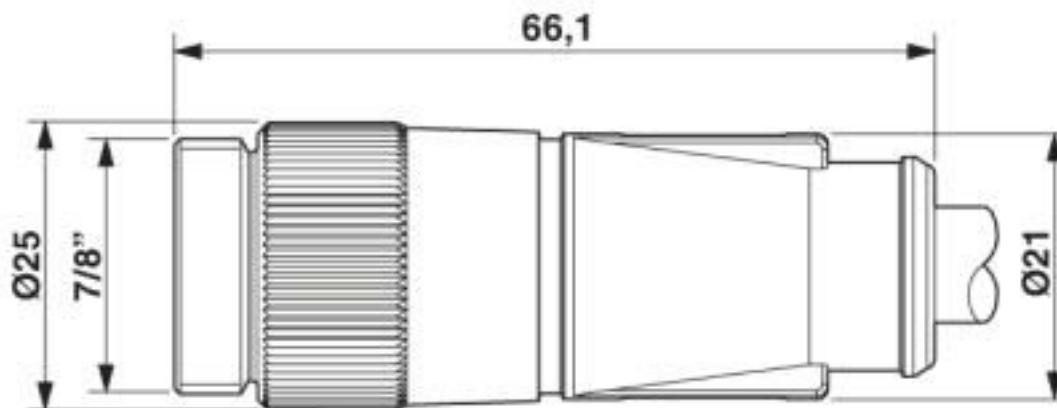
Technical data

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

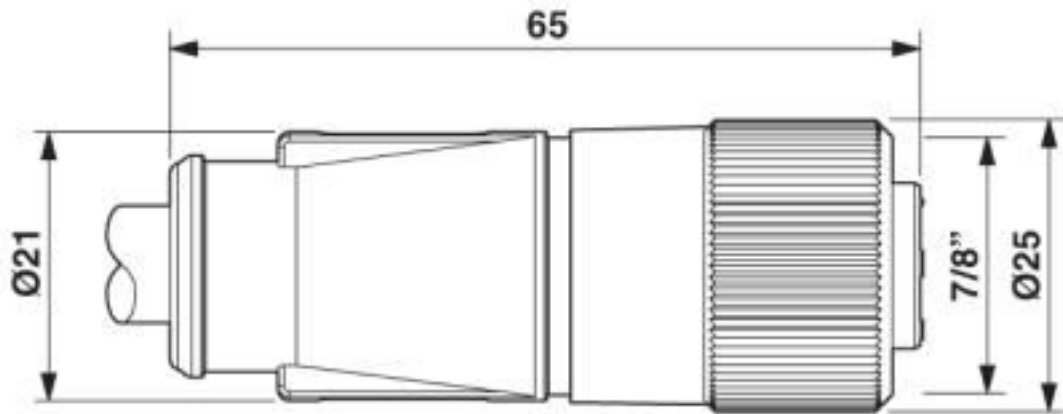
Dimensional drawing



7/8"-16UNF plug, straight

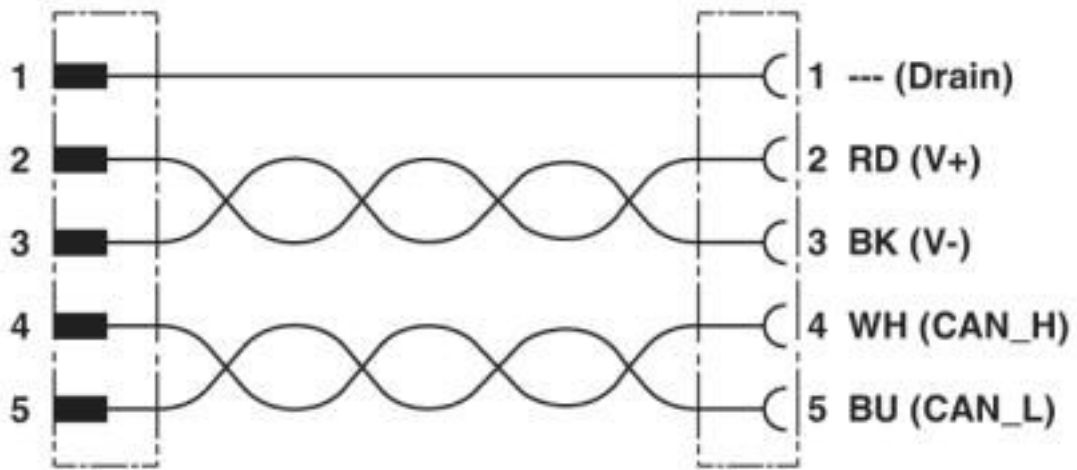
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Dimensional drawing



7/8"-16UNF socket, straight

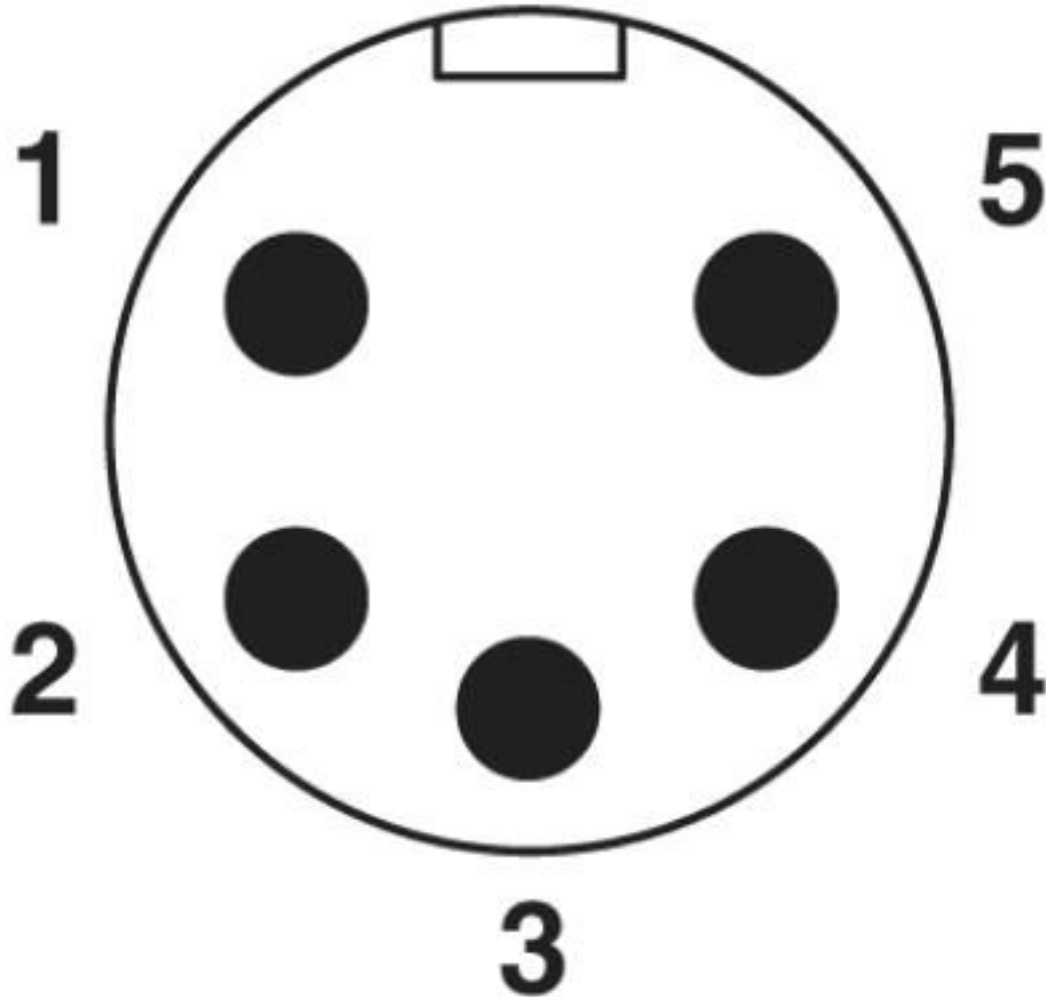
Circuit diagram



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

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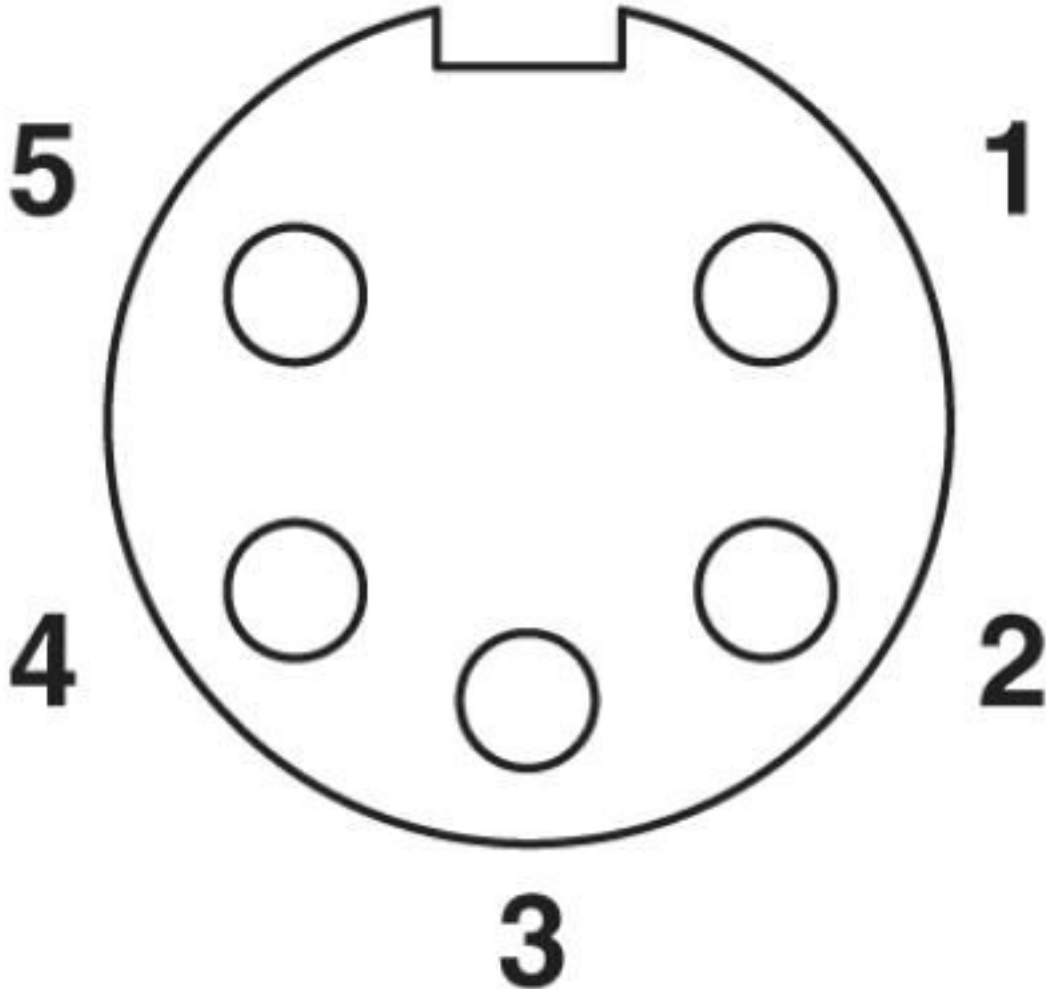
Schematic diagram



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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PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

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