

Bus system cable - SAC-5P- 2,0-920/M 8FS - 1575770

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Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M8, cable length: 2 m, Connector unshielded



DeviceNet CANopen

Key Commercial Data

| | |
|--------------|---------------|
| Packing unit | 1 pc |
| GTIN | |
| GTIN | 4046356423861 |

Technical data

Dimensions

| | |
|--|-------|
| Length of cable | 2 m |
| Stripping length of the free conductor end | 50 mm |

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|-----------------------|--|
| Note | Further products with variable cable lengths can be found in the accessories section |
| Rated current at 40°C | 4 A |
| Rated voltage | 30 V AC |
| | 30 V DC |
| Number of positions | 5 |
| Color handle area | black |
| Insulation resistance | ≥ 100 MΩ |
| Coding | B - inverse |
| Signal type/category | CANopen® |

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Technical data

General

| | |
|----------------------|------------------------|
| | DeviceNet™ |
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Torque | 0.2 Nm (M8 connectors) |

Material

| | |
|--|---|
| Flammability rating according to UL 94 | HB |
| Contact material | CuSn |
| 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 |

Pin assignment

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

Standards and Regulations

| | |
|--|----|
| Flammability rating according to UL 94 | HB |
|--|----|

Cable

| | |
|-------------------------------------|---|
| Cable type | CANopen®/DeviceNet™, PUR, violet |
| Cable type (abbreviation) | 920 |
| UL AWM style | 21198 (80°C/300 V) |
| Cable structure | 2xAWG24/19+2xAWG22/19 |
| Conductor cross section | 2x 0.25 mm² (Data cable) |
| | 2x 0.34 mm² (Power supply) |
| | 1x 0.34 mm² (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 (Data cable) |
| | 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 | Plastic-coated aluminum foil, aluminum side outside |
| Overall twist | 2 pairs around a drain wire in the center to the core |
| Shielding | Tinned copper braided shield |

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Technical data

Cable

| | |
|---|---|
| Optical shield covering | 80 % |
| External sheath, color | violet RAL 4001 |
| External cable diameter D | 6.7 mm ±0.3 mm |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Number of bending cycles | 5000000 |
| Bending radius | 70 mm |
| Minimum bending radius, drag chain applications | 10 x D |
| Traversing path | 4.5 m |
| Traversing rate | 3 m/s |
| Acceleration | 3 m/s ² |
| Cable weight | 90 kg/km |
| Outer sheath, material | PUR |
| Material conductor insulation | Foamed PE (Data cable) |
| | PE (Power supply) |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ 5 GΩ*km (Data cable) |
| | ≥ 5 GΩ*km (Power supply) |
| Loop resistance | ≤ 181.80 Ω/km (Data cable) |
| | ≤ 114.80 Ω/km (Power supply) |
| Cable capacity | nom. 40 nF/km (Data cable) |
| Wave impedance | 120 Ω ±10 % (with 1 MHz) |
| Attenuation | ≤ 22.9 dB/km (with 1 MHz) |
| | ≤ 16.4 dB/km (At 500 kHz) |
| | ≤ 9.5 dB/km (At 125 kHz) |
| Nominal voltage, cable | ≤ 300 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 | UL 1581, Sec. 1060 (FT-1) |
| | IEC 60332-1 |
| | in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01) |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |
| | according to IEC 60754-1 |
| Other resistance | Low adhesion |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation) |
| | -20 °C ... 80 °C (cable, flexible installation) |

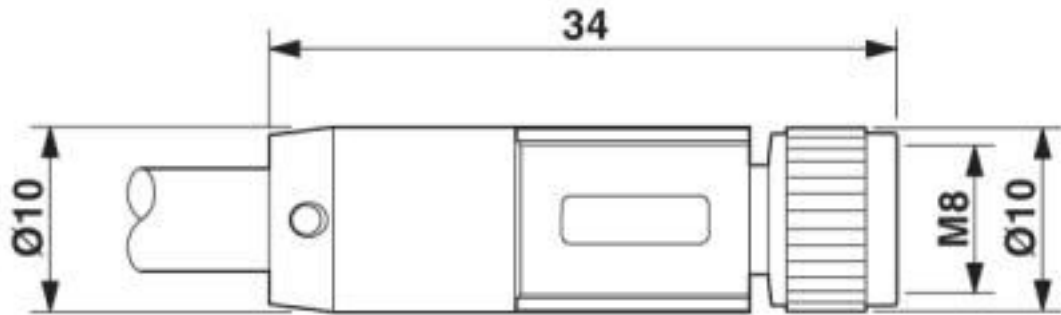
Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

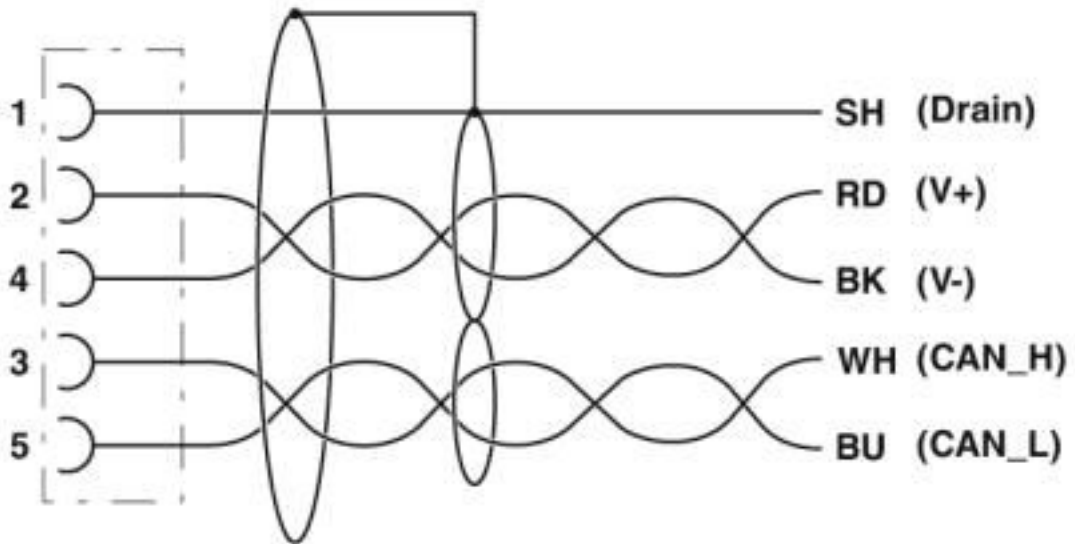
Drawings

Bus system cable - SAC-5P- 2,0-920/M 8FS - 1575770

Dimensional drawing

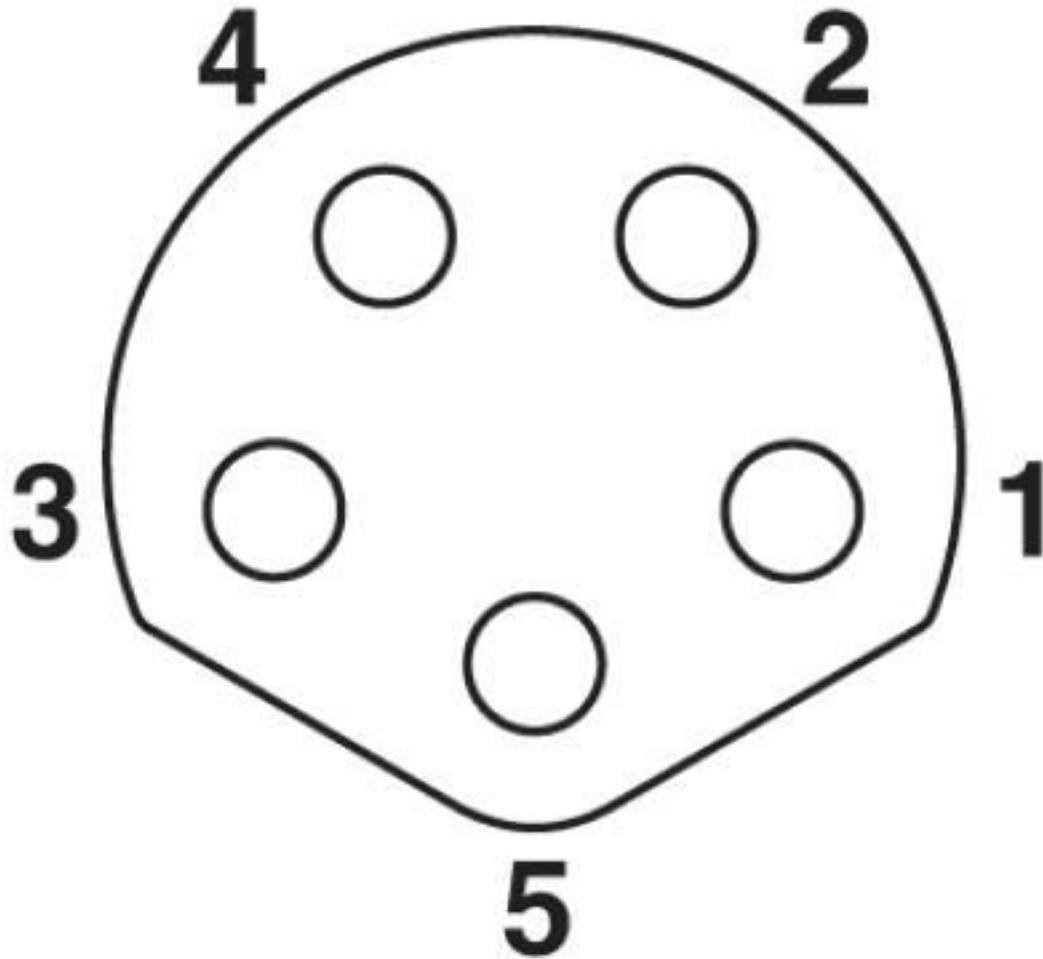


Circuit diagram



Bus system cable - SAC-5P- 2,0-920/M 8FS - 1575770

Schematic diagram



Pin assignment M8 plug, 5-pos., B-coded, view plug side

Bus system cable - SAC-5P- 2,0-920/M 8FS - 1575770

Cable cross section



CANopen[®]/DeviceNet[™], PUR, violet [920]

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27060308 |
| eCl@ss 4.0 | 27060300 |
| eCl@ss 4.1 | 27060300 |
| eCl@ss 5.0 | 27061800 |
| eCl@ss 5.1 | 27061800 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060308 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC002599 |
| ETIM 6.0 | EC001262 |
| ETIM 7.0 | EC001262 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11 | 31251501 |
| UNSPSC 12.01 | 31251501 |
| UNSPSC 13.2 | 31251501 |
| UNSPSC 18.0 | 26121604 |
| UNSPSC 19.0 | 26121604 |
| UNSPSC 20.0 | 26121604 |
| UNSPSC 21.0 | 26121604 |

Approvals


Approvals


Approvals

UL Listed / cUL Listed / EAC-RoHS / EAC / cULus Listed

Ex Approvals

Approval details

| | | | |
|--------------------|---|---|---------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 221474 |
| Nominal voltage UN | 30 V | | |
| Nominal current IN | 3 A | | |

| | | | |
|--------------------|---|---|---------------|
| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 221474 |
| Nominal voltage UN | 30 V | | |

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Approvals

| | |
|--------------------------------|-----|
| Nominal current I _N | 3 A |
|--------------------------------|-----|

| | | |
|----------|--|----------------------|
| EAC-RoHS | | RU D-DE.HB35.B.00387 |
|----------|--|----------------------|

| | | |
|-----|--|---------------|
| EAC | | EAC-Zulassung |
|-----|--|---------------|

| | | |
|--------------|--|--|
| cULus Listed | | |
|--------------|--|--|

Accessories

Accessories

Circular connector (cable-side)

Data connector - SACC-M12FS-5PL SH DN - 1424672



Data connector, CANopen[®], DeviceNet[™], 5-position, shielded, Socket straight M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Data connector - SACC-M12MS-5PL SH DN - 1424670



Data connector, CANopen[®], DeviceNet[™], 5-position, shielded, Plug straight M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Data connector - SACC-M12FR-5PL SH DN - 1424673



Data connector, CANopen[®], DeviceNet[™], 5-position, shielded, Socket angled M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Bus system cable - SAC-5P- 2,0-920/M 8FS - 1575770

Accessories

Data connector - SACC-M12MR-5PL SH DN - 1424671



Data connector, CANopen[®], DeviceNet[™], 5-position, shielded, Plug angled M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Data cable preassembled

Bus system cable - SAC-5P-M 8FS/920/... - 1575819



Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M8, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Bus system cable - SAC-5P-M 8FR/920/... - 1575916



Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket angled M8, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Bus system cable - SAC-5P-M 8MS/920/... - 1575767



Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M8, on free cable end, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Bus system cable - SAC-5P-M 8MR/920/... - 1575903



Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, violet RAL 4001, shielded, Plug angled M8, on free cable end, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Bus system cable - SAC-5P- 2,0-920/M 8FS - 1575770

Accessories

Bus system cable - SAC-5P-M 8MS-M 8FS/920/... - 1575893



Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M8, on Socket straight M8, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Bus system cable - SAC-5P-M 8MR-M 8FS/920/... - 1575932



Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, violet RAL 4001, shielded, Plug angled M8, on Socket straight M8, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Bus system cable - SAC-5P-M 8MR-M 8FR/920/... - 1575945



Bus system cable, CANopen[®], DeviceNet[™], 5-position, PUR halogen-free, violet RAL 4001, shielded, Plug angled M8, on Socket angled M8, cable length: Free input (0.2 ... 40.0 m), Connector unshielded

Plug for cable screw gland

Screw plug - PROT-M 8 MS-PA-CHAIN - 1430860

M8 sealing cap made of plastic with fixing band for sensor cables, for M8 sockets



Screwdriver tools

Tool - SAC BIT M8-D10 - 1208461



Nut for assembling M8 connectors with longitudinal knurl and a knurl diameter of 10 mm, for 4 mm hexagonal drive

Terminal resistor

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Accessories

Termination resistor - SAC-5P-M 8MS DN TR - 1435988



Termination resistor, DeviceNet™, M8, 5-pos.

Torque tool

Torque screwdriver - TSD 02 SAC - 1208487



Torque screwdriver, with preset torque of 0.2 Nm and 4 mm hexagonal drive for M8 connectors

Data connector - SACC-FS-5QO SH DN SCO - 1422760



Data connector, CANopen®, DeviceNet™, 5-position, halogen-free, shielded, Socket straight M12 SPEEDCON, Coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

Data connector - SACC-MS-5QO SH DN SCO - 1422759



Data connector, CANopen®, DeviceNet™, 5-position, halogen-free, shielded, Plug straight M12 SPEEDCON, Coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

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