

# SAC-5P-M 8MS/15,0-920 - Bus system cable



1575754

<https://www.phoenixcontact.com/us/products/1575754>

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Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, red lilac RAL 4001, shielded, Plug straight M8, coding: B, on free cable end, cable length: 15 m, Connector unshielded

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1575754                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF02                           |
| Product key                          | AF1BDD                         |
| GTIN                                 | 4046356423854                  |
| Weight per piece (including packing) | 810.5 g                        |
| Weight per piece (excluding packing) | 810.5 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | PL                             |

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## Technical data

### Product properties

|                      |                         |
|----------------------|-------------------------|
| Product type         | Data cable preassembled |
| Application          | Standard                |
| 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           | CANopen®/DeviceNet™    |
| Signal type/category | CANopen®<br>DeviceNet™ |

### Signaling

|                |    |
|----------------|----|
| Status display | no |
|----------------|----|

### Electrical properties

|                       |                    |
|-----------------------|--------------------|
| Insulation resistance | ≥ 100 MΩ           |
| Nominal voltage $U_N$ | 30 V AC<br>30 V DC |
| Nominal current $I_N$ | 4 A                |
| Transmission medium   | Copper             |

### Material specifications

|  |   |
|--|---|
| Flammability rating according to UL 94 | HB  |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Contact material                       | CuSn  |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | TPU GF                                      |
| Material for screw connection          | Zinc die-cast, nickel-plated                |

### Connection data

#### Connection assignment

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

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## Connector

### Connection 1

|                     |                  |
|---------------------|------------------|
| Type                | Plug straight M8 |
| Number of positions | 5                |
| Coding type         | B (Standard)     |


### Connection 2

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

## Cable/line

|              |      |
|--------------|------|
| Cable length | 15 m |
|--------------|------|

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

|                                     |  |
|-------------------------------------|--|
| Dimensional drawing                 |                                     |
| Cable weight                        | 90 kg/km   |
| UL AWM Style                        | 21198 (80°C/300 V)   |
| Number of positions                 | 4  |
| Shielded                            | yes  |
| Cable type                          | CANopen®/DeviceNet™, PUR, violet [920]   |
| Conductor structure                 | 2xAWG24/19+2xAWG22/19  |
| Conductor structure signal line     | 19x 0.13 mm  |
| AWG signal line                     | 24   |
| Conductor structure, voltage supply | 19x 0.15 mm  |
| AWG power supply                    | 22   |
| Conductor cross-section             | 2x 0.25 mm <sup>2</sup> (Data cable)<br>2x 0.34 mm <sup>2</sup> (Power supply)<br>1x 0.34 mm <sup>2</sup> (Drain wire) |
| Wire diameter incl. insulation      | 1.95 mm ±0.05 mm (Data cable)<br>1.4 mm ±0.05 mm (Power supply)  |
| External cable diameter             | 6.70 mm ±0.3 mm  |
| Outer sheath, material              | PUR  |
| External sheath, color              | red lilac RAL 4001   |
| Conductor material                  | Tin-plated Cu litz wires   |
| Material wire insulation            | Foamed PE (Data cable)<br>PE (Power supply)  |
| Single wire, color                  | red-black, blue-white  |

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|   |   |
|---|---|
| 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   |
| Optical shield covering                       | 80 %  |
| 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)  |
| Wave impedance                                | 120 Ω ±10 % (with 1 MHz)  |
| Cable capacity                                | nom. 40 nF/km (Data cable)  |
| 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                      | 2000.00 V (50 Hz, 1 min.)   |
| Minimum bending radius, fixed installation    | 5 x D   |
| Minimum bending radius, flexible installation | 10 x D  |
| Smallest bending radius, fixed installation   | 34 mm   |
| Smallest bending radius, movable installation | 67 mm   |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000000, Bending radius: 70 mm, Bending radius: 10 x D, Traversing path: 4.5 m, Traversing rate: 3 m/s, Acceleration: 3 m/s <sup>2</sup> , Ambient temperature: -20 °C ... 60 °C |
| Shield attenuation                            | ≤ 22.9 dB/km (with 1 MHz)   |
|   | ≤ 16.4 dB/km (At 500 kHz)   |
|   | ≤ 9.5 dB/km (At 125 kHz)  |
| Halogen-free                                  | in accordance with DIN VDE 0472 part 815  |
|   | according to IEC 60754-1  |
| Flame resistance                              | IEC 60332-1-2   |
|   | in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)  |
| Other resistance                              | Low adhesion  |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)  |
|   | -30 °C ... 70 °C (Cable, flexible installation)   |
|   | -20 °C ... 60 °C (for installation)   |
|   | -20 °C ... 60 °C (cable, drag chain applications)   |

## Environmental and real-life conditions

### Ambient conditions

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

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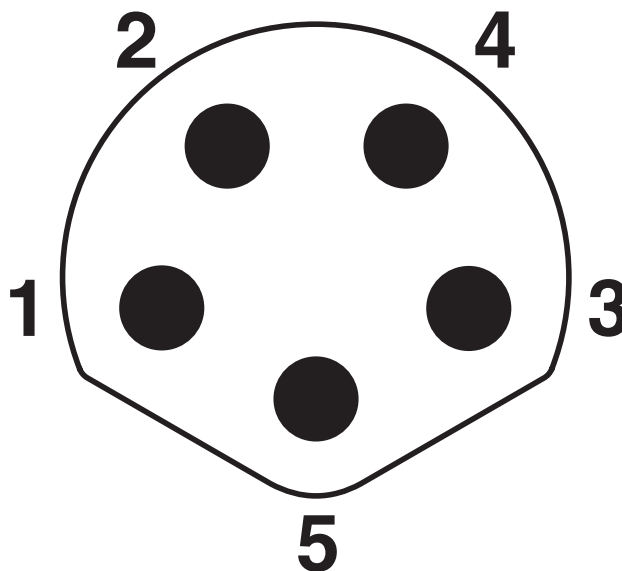
<https://www.phoenixcontact.com/us/products/1575754>

## Drawings

Dimensional drawing



Schematic diagram



Pin assignment, pin side, M8, 5-pos., B-coded

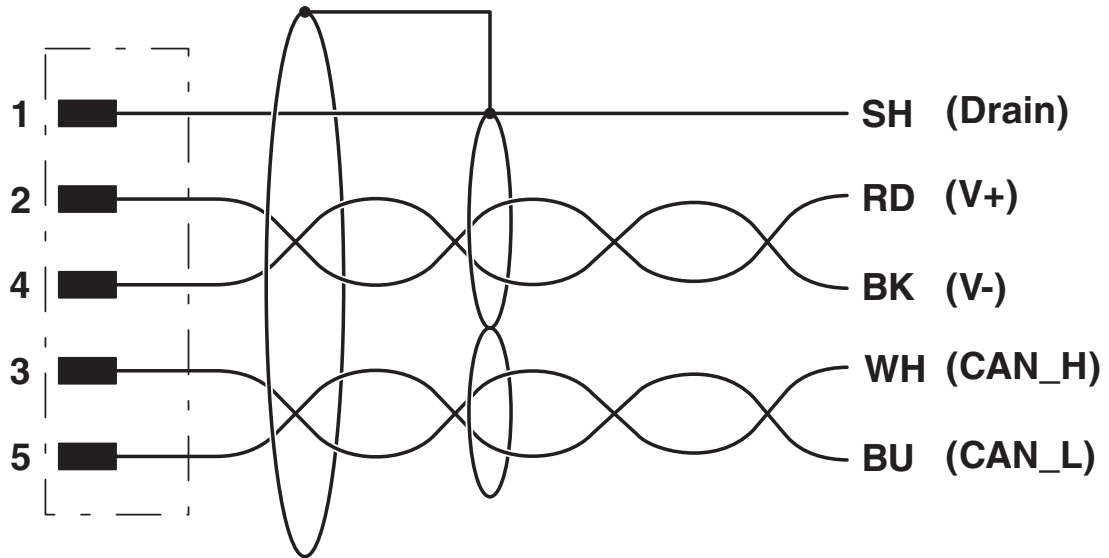
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Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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