

# SAC-5P-MR/ 2,0-923/FS CAN SCO - Bus system cable



1419060

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Bus system cable, CANopen®, DeviceNet™, 5-position, PUR halogen-free, silver-gray RAL 7001, shielded, Plug angled M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A, cable length: 2 m, Connector unshielded

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1419060       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF04          |
| Product key                          | AF1CDD        |
| GTIN                                 | 4046356543217 |
| Weight per piece (including packing) | 152.6 g       |
| Weight per piece (excluding packing) | 148.5 g       |
| Customs tariff number                | 85444290      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                      |                         |
|----------------------|-------------------------|
| Product type         | Data cable preassembled |
| Application          | Standard                |
| Sensor type          | CANopen®                |
| Number of positions  | 5                       |
| No. of cable outlets | 1                       |
| 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 |
| Status display present | no |

### Electrical properties

|                       |         |
|-----------------------|---------|
| Nominal voltage $U_N$ | 48 V AC |
|                       | 60 V DC |
| Nominal current $I_N$ | 4 A     |
| Transmission medium   | Copper  |

### Material specifications

|  |   |
|--|---|
| Flammability rating according to UL 94 | HB  |
| Seal material                          | NBR   |
| 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)   1 (Socket) |
|   | 2 (Plug)   RD (V+)   2 (Socket)     |
|   | 3 (Plug)   BK (V-)   3 (Socket)     |
|   | 4 (Plug)   WH (CAN_H)   4 (Socket)  |

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|  |                                    |
|--|------------------------------------|
|  | 5 (Plug)   BU (CAN_L)   5 (Socket) |
|--|------------------------------------|

## Connector

### Connection 1

|                                 |                          |
|---------------------------------|--------------------------|
| Type                            | Plug angled M12 SPEEDCON |
| Number of positions             | 5                        |
| Locking type                    | SPEEDCON                 |
| Coding type                     | A (Standard)             |
| Ambient temperature (operation) | -25 °C ... 90 °C         |


### Connection 2

|                                 |                              |
|---------------------------------|------------------------------|
| Type                            | Socket straight M12 SPEEDCON |
| Number of positions             | 5                            |
| Locking type                    | SPEEDCON                     |
| Coding type                     | A (Standard)                 |
| Ambient temperature (operation) | -25 °C ... 90 °C             |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 2 m |
|--------------|-----|

### CANopen®/DeviceNet™, PUR, gray [923]

|                                |  |
|--------------------------------|--|
| Dimensional drawing            |                                    |
| UL AWM Style                   | 21198 (80°C/300 V)   |
| Number of positions            | 4  |
| Shielded                       | yes  |
| Cable type                     | CANopen®/DeviceNet™, PUR, gray [923]   |
| Conductor structure            | 2xAWG24/19+2xAWG22/19  |
| AWG signal line                | 24   |
| 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         | silver-gray RAL 7001   |

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|   |   |
|---|---|
| Conductor material                            | Tin-plated Cu litz wires  |
| Material wire insulation                      | Foamed PE (Data cable)  |
|   | PE (Power supply)   |
| Single wire, color                            | red-black, blue-white   |
| Twisted pairs                                 | 2 cores to the pair   |
| 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)  |
| Wave impedance                                | 120 Ω ±10 % (with 1 MHz)  |
| 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    | 4 x D   |
| Minimum bending radius, flexible installation | 8 x D   |
| Dynamic load capacity (bending)               | Max. bending cycles: 5000000, Bending radius: 70 mm, Bending radius: 15 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                              | UL 1581, Section 1060 and UL 2556, Section 9.3 (FT1)  |
|   | UL 1581, Section 1100 and UL 2556, Section 9.1 (HFT/FT2)  |
|   | IEC 60332-1-2   |
|   | in accordance with ISO 6722-1 5.22 (UN ECE-R 118.01)  |
| 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)   |

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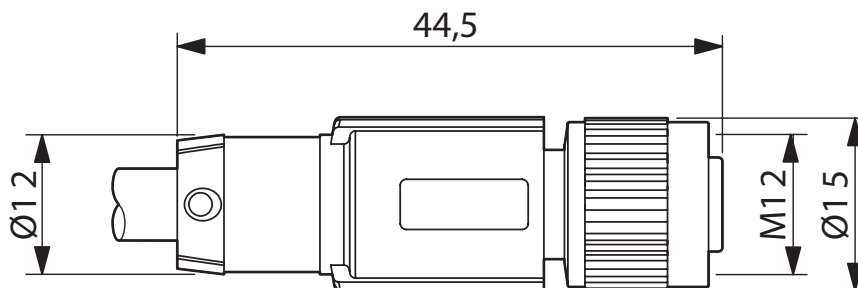
## Drawings

Dimensional drawing



M12 x 1 male plug, angled

Dimensional drawing



M12 x 1 socket, straight

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Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

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Circuit diagram



Contact assignment of the M12 plug and the M12 socket

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## Approvals

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|  <b>UL Listed</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 125 V                 | 4 A                   | -                 | -                           |

|  <b>cUL Listed</b><br>Approval ID: FILE E 221474 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 125 V                 | 4 A                   | -                 | -                           |

|  <b>EAC-RoHS</b><br>Approval ID: RU D-DE.HB35.B.00387 |  |
|--|--|
|--|--|

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.454 kg CO2e |
|---------|---------------|

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