

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



1419052

<https://www.phoenixcontact.com/us/products/1419052>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1419052 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF04 |
| Product key | AF1CDD |
| GTIN | 4046356542968 |
| Weight per piece (including packing) | 146 g |
| Weight per piece (excluding packing) | 146 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

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® |
| | 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) |

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

Connector

Connection 1

| | |
|---------------------------------|----------------------------|
| Type | Plug straight 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 ² (Data cable) 2x 0.34 mm ² (Power supply) 1x 0.34 mm ² (Drain wire) |
| Wire diameter incl. insulation | 1.95 mm ±0.05 mm (Data cable) 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 |

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



1419052

<https://www.phoenixcontact.com/us/products/1419052>

| | |
|---|---|
| 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 ² , 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) |

Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight

1419052

<https://www.phoenixcontact.com/us/products/1419052>

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

1419052

<https://www.phoenixcontact.com/us/products/1419052>

Circuit diagram



Contact assignment of the M12 plug and the M12 socket

1419052

<https://www.phoenixcontact.com/us/products/1419052>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1419052>

|  UL Listed Approval ID: FILE E 221474 | | | | |
|--|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 125 V | 4 A | - | - |

|  cUL Listed Approval ID: FILE E 221474 | | | | |
|---|-----------------------|-----------------------|-------------------|----------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 125 V | 4 A | - | - |

|  EAC-RoHS Approval ID: RU D-DE.HB35.B.00387 | | | | |
|--|--|--|--|--|
|--|--|--|--|--|

1419052

<https://www.phoenixcontact.com/us/products/1419052>

Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

UNSPSC

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

1419052

<https://www.phoenixcontact.com/us/products/1419052>

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 | 1.407 kg CO2e |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com